IRE

DIRECTORY

1959



- A Radio Engineer's Directory
- A Comprehensive Listing of Manufacturers and Products

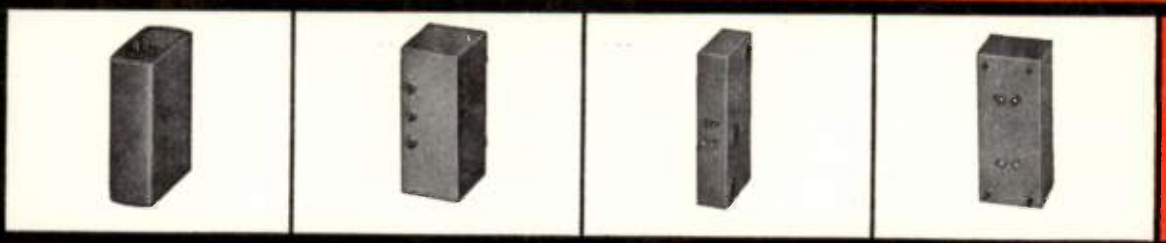
The Institute of Radio Engineers

For Your Special Applications

The bulk of UTC production is on special units designed to specific customers' needs. Illustrated below are some typical units and some unusual units as manufactured for special applications. We would be pleased to advise and quote to your special requirements.

FILTERS

All types for frequencies from .1 cycle to 400 MC.



400 ⎓ telemetering, 3 db at ± 7.5%, 40 db at 230 and 700 ⎓, ⅝ x 1¼ x 2".

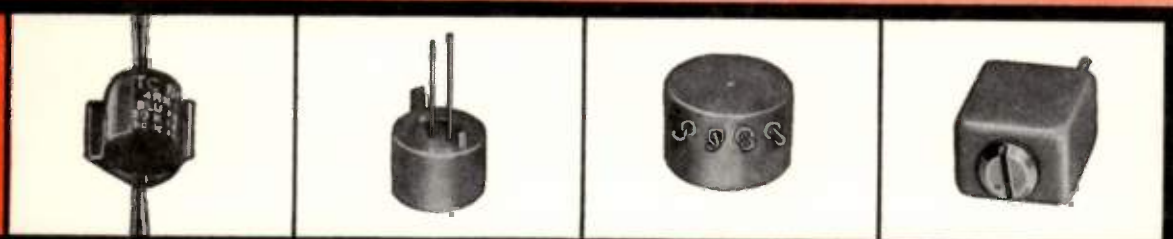
15 ⎓ BP filter, 20 db at 30 ⎓, 45 db at 100 ⎓, phase angle at CF less than 3° from —40 to + 100° C.

LP filter within 1 db to 49 KC, stable to .1 db from 0 to 85° C., 45 db at 55 KC.

LP filter less than .1 db 0 to 2.5 KC, 50 db beyond 3 KC.

HIGH Q COILS

Toroid, laminated, and cup structures from .1 cycle to 400 MC.



Tuned DO-T servo amplifier transformer, 400 ⎓ .5% distortion.

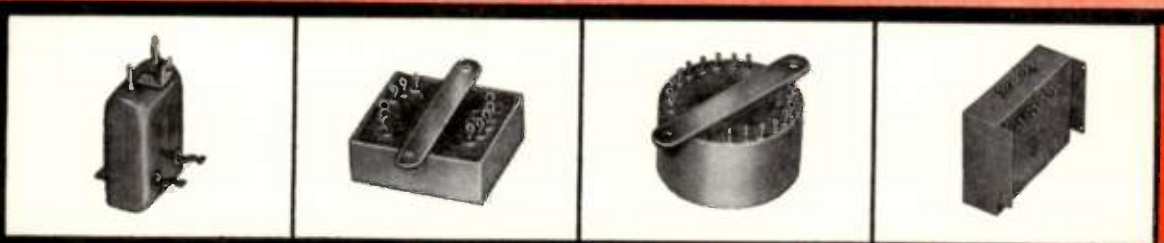
Toroid for printed circuit, Q of 90 at 15 KC.

Dual toroid, Q of 75 at 10 KC, and Q of 120 at 5 KC.

HVC tapped variable inductor for 3 KC oscillator.

SPECIALTIES

Saturable reactors, reference transformers, magnetic amplifiers, combined units.



RF saturable inductor for sweep from 17 MC to 21 MC.

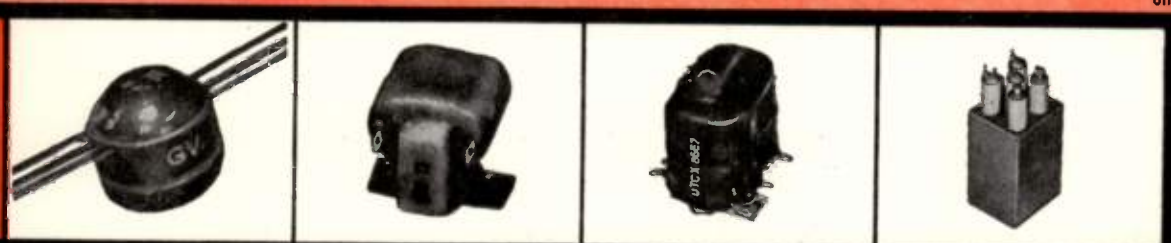
Voltage reference transformer .05% accuracy.

Multi-control magnetic amplifier for airborne servo.

Input, output, two tuned interstages, peaking network, and BP filter, all in one case.

PULSE TRANSFORMERS

From miniature blocking oscillator to 10 megawatt.



Wound core unit .01 microsecond rise time.

Pulse current tansformer 100 Amp.

Pulse output to magnatron, bifilar filament.

Precise wave shape pulse output, 2500 V. 3 Amps.

POWER COMPONENTS

Standard and high temperature . . . hermetic, molded, and encapsulated.



For details, circle #1 on Reader Service Card

Multi-winding 140 VA, 6 KC power transformer 1¼ x 1¼ x 1"

200° C. power transformer, 400 ⎓, 150 VA.

400 ⎓ scope transformer, 20 KV output.

60 ⎓ current limiting filament transformer, Sec. 25 Mmfd., 30 KV hipot.

UNITED TRANSFORMER CORPORATION

150 Varick Street, New York 13, N. Y. • EXPORT DIVISION: 13 E. 40th St., New York 16, N. Y.,
CABLES: "ARLAB" PACIFIC MFG. DIVISION, 4008 W. Jefferson Blvd., Los Angeles, Cal.

1959 IRE DIRECTORY

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THE INSTITUTE OF RADIO ENGINEERS
1958

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THE IRE

THE INSTITUTE OF RADIO ENGINEERS, founded through the efforts of three far-seeing engineers, Dr. A. N. Goldsmith, J. V. L. Hogan, and R. H. Marriott, has grown from its original roster of less than fifty members gained by the merger of two small professional societies in 1912, to an international membership of 70,000. It is an incorporated, nonprofit organization established for the advancement of the theory and practice of radio and electronics, including allied branches of engineering and the related arts and sciences.

The IRE publishes technical papers, reports, and general information of interest to electronics engineers. It holds meetings and discussions throughout the United States, Canada and several countries abroad, and maintains committees for collating and standardizing the results of technical research and development. Among the fields covered are radio communication, sound broadcasting, television, marine and aerial guidance, electron tubes, radio-frequency measurements, engineering education, electron optics, sound and picture electrical recording and reproduction, power and manufacturing applications of radio and electronic technique, industrial electronic control and processes, medical electrical research and applications.

The management of the Institute of Radio Engineers resides in a Board of Directors selected from the body of Fellows and Senior Members, acting through an Executive Committee and the officers of the IRE. The President and Vice-President are elected annually from the body of Fellows and Senior Members.

Membership in the IRE is contingent upon experience and achievement in radio engineering and allied fields. The grade of Fellow is one of distinction, and appointment thereto by the Board of Directors is made on the basis of eminence and distinguished service. The grade of Special Member is similarly conferred by invitation only. Other grades—Senior Member, Member, Associate, and Student—are filled from applicants whose age, experience, and attainments conform to the respective requirements set forth in the table below and in the Bylaws (see pp. 11-12). An application blank follows page 6.

MEMBERSHIP REQUIREMENTS AND DUES

GRADE	EXPERIENCE* AND REFERENCES	ENTRANCE FEE	ANNUAL DUES
FELLOW	Awarded only. No application permitted.	$3.00	10.00[1] & 15.00
SENIOR MEMBER	a. Radio engineer or scientist—eight years of active practice and important technical radio or allied work and shall have performed or taken responsibility for important engineering or scientific work in these fields for at least three of these years. b. College teacher for eight years and in responsible charge of radio or allied subjects for at least three years. c. Eight years of active practice, with contributions to radio or allied engineering fields. d. Executive for eight years with direct supervision of important radio engineering or allied work. e. A person regularly employed in radio or allied technical work for at least sixteen years, who, by experience and education, has attained a standing equivalent to that required for Senior Member under paragraph "a" and shall have performed or taken responsibility for important technical work in these fields for at least six years. REFERENCES: Five Fellows, Senior Members, or other responsible individuals.	3.00	10.00[1] & 15.00
SPECIAL MEMBER	Conferred only by invitation of the Board of Directors.	3.00	10.00[1] & 15.00
MEMBER	a. Radio engineer or scientist—professionally competent and in active practice for three years. b. College teacher of radio or allied subjects for three years. c. A person regularly employed in radio or allied work for at least three years, who, by invention or by contribution to the advancement of engineering or science in radio or allied fields, or to the technical literature thereof, has attained a standing equivalent to that required for Member under paragraph "a." d. An executive who, for at least six years, has had under his direction important technical, engineering, or research work in radio or allied fields. e. A person regularly employed in radio or allied technical work for at least six years, who, by experience and education, has attained a standing equivalent to that required for Member under paragraph "a." REFERENCES: Four Fellows, Senior Members, Members, or other responsible individuals.	3.00	10.00[1] & 15.00
ASSOCIATE	Interest in radio engineering or allied field. REFERENCES: Three Fellows, Senior Members, Members, Associates, or other responsible individuals.	3.00	10.00[1] & 15.00
STUDENT[2]	College student pursuing regular 4-year engineering or science course for a degree, or student enrolled in approved technical institute. REFERENCE: Faculty Member.	—	5.00

* For more detailed information, see Bylaws, Sec. 1–5, pp. 11–12. An application blank follows page 6.

[1] $10.00 per year for the first three years of membership. After three years dues automatically increase to $15.00.

[2] Special application blank required. When student status expires no entrance fee is required to transfer to Associate or Member.

COMMITTEES*

The IRE has established some twenty-five technical committees covering specialized fields of radio engineering. Through the IRE, these committees (sometimes in collaboration with technical committees of other engineering societies) publish standards of accepted definitions of terms, and methods of measurements of physical quantities used in radio engineering practices.

CONVENTIONS AND MEETINGS

Each year the IRE holds a national convention for its entire membership, during which technical papers are presented and the latest electronic equipment is displayed. Numerous additional meetings, many with exhibits, are held throughout the year by IRE Regions, Sections, and Professional Groups.

SECTIONS†

Sections have been established throughout the United States, Canada, Territory of Hawaii, Egypt, Israel, Japan, Argentina, Brazil, and Colombia, to hold meetings under the aegis of the IRE. The Sections of the IRE are grouped into eight Regions, and each Region is represented on the Board of Directors by a Regional Director elected bi-annually from, and by, the membership of the respective Region.

PROFESSIONAL GROUPS†

To serve many special fields of interest, Professional Groups have been formed on an Institute-wide basis in each of twenty-eight technical fields. These Groups organize meetings and conferences on subjects of special interest to their members. They issue technical publications called TRANSACTIONS to provide a means for ensuring their membership proper coverage of their fields in the publications of the IRE, and for promoting recognition of their leaders among the IRE membership at large.

PUBLICATIONS OF THE IRE

PROCEEDINGS OF THE IRE

Perhaps the most important single activity of the Institute is the publication of a technical journal. The first issue of the PROCEEDINGS OF THE INSTITUTE OF RADIO ENGINEERS appeared in 1913. Established first as a quarterly, since 1927 the PROCEEDINGS has been published in twelve numbers annually. In 1939, the name of the journal was shortened to PROCEEDINGS OF THE IRE.

The PROCEEDINGS OF THE IRE is the official publication of the Institute of Radio Engineers. In it appear technical papers, discussions, and communications approved by the Editorial Reviewers and Managing Editor, as well as IRE Standards prepared by the technical committees.

To date, about 6500 papers on advanced research topics have been published in PROCEEDINGS, including mathematico-physical analyses of engineering problems, current engineering developments of equipment and methods, and commerical applications of engineering methods and products, historical papers, and tutorial papers covering specific aspects of radio and electronic engineering. In addition, space is devoted to news, book reviews, new products, and abstracts of papers published in technical publications the world over. The PROCEEDINGS OF THE IRE is mailed gratis to all members; subscription price to nonmembers is $18.00 per year, $19.00 to foreign destinations.

IRE TRANSACTIONS

Each of the twenty-eight IRE Professional Groups publishes its own technical publication, called TRANSACTIONS, covering developments of particular interest within its own specialized field. The TRANSACTIONS is sent free to all paid members of the Professional Group. Frequency of issue varies from Group to Group, and ranges from one to six issues per year.

IRE CONVENTION RECORDS

The IRE annually publishes two Convention Records, one containing the papers presented at the IRE National Convention in New York, and the other for the WESCON meeting on the West Coast. They are known as the IRE NATIONAL CONVENTION RECORD and the IRE WESCON CONVENTION RECORD, respectively. Each RECORD is issued in several Parts. All members of Professional Groups automatically receive a free copy of the Part pertaining to the field of their Group.

YEARBOOKS AND DIRECTORIES

The first Yearbook was published in 1914, the second in 1916, and then annually between 1926 and 1932. Yearbooks were then published in 1937, 1942, and 1946. With the 1948 Yearbook, annual publication was resumed. In 1950 its name was changed to "Directory."

STANDARDS

Standardization reports have been issued since 1913. Early reports were confined to the definition of technical terms and standard graphical symbols. Current reports include methods of testing equipment and measuring electronics quantities, and letter symbols and mathematical notation. Starting in 1949, IRE Standards have been published in the PROCEEDINGS, rather than as separate reports, to make them available to all members at no extra charge. Also, they are available in reprint form.

* A list of Committees appears in the June and October issues of PROCEEDINGS OF THE IRE.

† A list of Sections and Professional Groups and their officers appears bi-monthly in PROCEEDINGS OF THE IRE.

AWARDS

The IRE bestows seven awards, six annual and one nonannual, in recognition of outstanding technical and administrative achievements in the field of radio communication.

Medal of Honor

The Medal of Honor is given annually in recognition of outstanding scientific or engineering achievements in the fields of activity of the IRE. The recipient is named by the Board of Directors upon the recommendation of the Awards Committee.

Recipients of the Medal of Honor

E. H. Armstrong	1917	J. H. Dellinger	1938
E. F. W. Alexanderson	1919	A. G. Lee	1939
Guglielmo Marconi	1920	Lloyd Espenschied	1940
R. A. Fessenden	1921	A. N. Goldsmith	1941
Lee deForest	1922	A. H. Taylor	1942
John Stone Stone	1923	William Wilson	1943
M. I. Pupin	1924	Haraden Pratt	1944
G. W. Pickard	1926	H. H. Beverage	1945
L. W. Austin	1927	R. V. L. Hartley	1946
Jonathan Zenneck	1928	L. C. F. Horle	1948
G. W. Pierce	1929	Ralph Brown	1949
P. O. Pedersen	1930	F. E. Terman	1950
G. A. Ferré	1931	V. K. Zworykin	1951
A. E. Kennelly	1932	W. R. G. Baker	1952
J. A. Fleming	1933	John M. Miller	1953
S. C. Hooper	1934	William L. Everitt	1954
Balth. van der Pol	1935	Harald T. Friis	1955
G. A. Campbell	1936	John V. L. Hogan	1956
Melville Fastham	1937	Julius A. Stratton	1957
		Albert W. Hull	1958

Founders' Award

The Founders' Award is bestowed on special occasions only, for outstanding leadership in planning and administration of important technical developments. Recipient is named by the Board of Directors upon the recommendation of the Awards Committee.

Recipients of the Founders' Award

David Sarnoff	1953
Alfred N. Goldsmith	1954
Raymond A. Heising	1957
W. R. G. Baker	1958

Vladimir K. Zworykin Television Prize

The Vladimir K. Zworykin Television Prize will be awarded annually for twenty (20) times beginning in 1952 to that member who makes the most important technical contribution to electronic television during the preceding three calendar years, or the importance of whose contribution to electronic television shall have been realized during this period.

The award consists of a citation and a check for $500 drawn from a fund of $10,000 donated to the Institute by Vladimir K. Zworykin to encourage outstanding technical developments in fully electronic television. Recipient is named by the Board of Directors upon recommendation of the Awards Committee.

Recipients of the Vladimir K. Zworykin Television Prize

B. D. Loughlin	1952	Harold B. Law	1955
Frank Gray	1953	Frank J. Bingley	1956
Alda V. Bedford	1954	Donald Richman	1957
		Charles P. Ginsburg	1958

Morris Liebmann Memorial Prize

The Morris Liebmann Memorial Prize was originally based on an endowment by E. J. Simon to preserve the memory of Colonel Morris N. Liebmann, who gave his life in the first World War. The award consists of a certificate and a check for $1000. It is given annually to a member of the Institute who, in the opinion of the Board of Directors, upon the recommendation of the Awards Committee, shall have made an important contribution to the radio art.

Recipients of the Morris Liebmann Memorial Prize

L. F. Fuller	1919	H. T. Friis	1939
R. A. Weagant	1920	H. A. Wheeler	1940
R. A. Heising	1921	P. T. Farnsworth	1941
C. S. Franklin	1922	S. A. Schelkunoff	1942
H. H. Beverage	1923	W. L. Barrow	1943
J. R. Carson	1924	W. H. Hansen	1944
Frank Conrad	1925	P. C. Goldmark	1945
Ralph Brown	1926	Albert Rose	1946
A. H. Taylor	1927	J. R. Pierce	1947
W. G. Cady	1928	S. W. Seely	1948
E. V. Appleton	1929	C. E. Shannon	1949
A. W. Hull	1930	O. H. Schade	1950
Stuart Ballantine	1931	R. B. Dome	1951
Edmond Bruce	1932	William Shockley	1952
Heinrich Barkhausen	1933	John A. Pierce	1953
V. K. Zworykin	1934	Robert R. Warnecke	1954
F. B. Llewellyn	1935	Arthur V. Loughren	1955
B. J. Thompson	1936	Kenneth Bullington	1956
W. H. Doherty	1937	Oswald G. Villard, Jr.	1957
G. C. Southworth	1938	Edward L. Ginzton	1958

Browder J. Thompson Memorial Prize

The Browder J. Thompson Memorial Prize, established in 1945, is given annually to the author or joint authors under thirty years of age at date of submission of original manuscript for that paper of sound merit recently published in the technical publications of The Institute of Radio Engineers, and which, in the opinion of the Board of Directors, upon the recommendation of the Awards Committee, constitutes the best combination of technical contribution to radio and electronics, and presentation of the subject.

The award comprises the income from a fund established by voluntary contributions to preserve the memory of Browder J. Thompson, a Director of the Institute killed in action in World War II while on a special mission for the Secretary of War.

Recipients of the Browder J. Thompson Memorial Prize

G. M. Lee	1946	H. W. Welch, Jr.	1952
C. L. Dolph	1947	Richard C. Booton, Jr.	1953
W. H. Huggins	1948	R. L. Petritz	1954
R. V. Pound	1949	Blanchard D. Smith, Jr.	1955
J. F. Hull	1950	Jack E. Bridges	1956
A. W. Randalls	1950	Dudley A. Buck	1957
A. B. Macnee	1951	Arthur Karp	1958

Harry Diamond Memorial Award

The Harry Diamond Memorial Award, established in 1949, is given annually to a person or persons in Government service for outstanding contributions in the field of radio or electronics, as evidenced by publication in professional society journals such as the Proceedings of the IRE, or journals of similar standing. The award consists of a certificate provided for from proceeds of a fund established by friends who felt that the professional life of Harry Diamond, a Fellow of the Institute, exemplified the highest type of scientific effort in government service. Recipient of the award is named by the Board of Directors upon the recommendation of the Awards Committee.

Recipients of the Harry Diamond Memorial Award

A. W. Haeff	1950	Harold A. Zahl	1954
M. J. E. Golay	1951	Barnard Salzberg	1955
Newbern Smith	1952	Wilbur S. Hinman	1956
Robert M. Page	1953	Georg Goubau	1957
Edward W. Allen, Jr.	1958		

W. R. G. Baker Award

The W. R. G. Baker Award is given annually to the author or authors of the most outstanding paper published in the IRE Transactions of the Professional Groups. The award consists of a certificate and a monetary award derived from the income of a fund donated to the IRE by W. R. G. Baker, Chairman of the IRE Professional Groups Committee since 1950. The recipient of the award is named by the Board of Directors upon the recommendation of the Awards Committee.

Recipients of the W. R. G. Baker Award

Réymond J. Kircher	1957	R. L. Kyhl	1958
Robert L. Trent	1957	H. F. Webster	1958
D. Raymond Fewer	1957		

FILL OUT BOTH SIDES OF THIS APPLICATION AND MAIL WITH REMITTANCE TO IRE HEADQUARTERS

THE INSTITUTE OF RADIO ENGINEERS, Inc.—1 East 79 Street, New York 21, N.Y.

Membership dues include $9.00 per year for the subscription to PROCEEDINGS, which amount is included in, but is non-deductible from dues.

Application for Membership

SENIOR MEMBER, MEMBER, AND ASSOCIATE GRADES

(For Student grade a special form of application is required.)

Transfer or Admission

CHECK GRADE FOR WHICH APPLICATION IS MADE

☐ Senior Member Grade ☐ Member Grade ☐ Associate Grade

TO THE BOARD OF DIRECTORS

Gentlemen: I hereby make application for membership Transfer or Admission in The Institute of Radio Engineers on the basis of my training and professional experience given herewith and refer to the references named, *who are personally familiar with my work.*

I certify that the statements made in the record of my training and professional experience are correct and agree, if elected, that I will be governed by the Constitution of the IRE as long as I continue a member. Furthermore, I agree to promote the objects of the IRE so far as shall be in my power.

DATE _____ SIGN FULL NAME WITH PEN _____

—IMPORTANT— APPLICATION MADE UNDER Sec. .....Clause.....

(Specify Section and Clause of Bylaws. See pp. 11-12 of IRE Directory.)

Names of References

FOR SENIOR MEMBER GRADE. The names of at least five Fellow or Senior Member references are required.
FOR MEMBER GRADE. The names of at least four Fellow, Senior Member or Member references are required.
FOR ASSOCIATE GRADE. The names of three references of the Fellow, Senior Member, Member or Associate grades should be provided.

In exceptional circumstances, the Admissions Committee may accept other references than those stipulated, provided they are thoroughly familiar with the ability and experience of the applicant.

SIGNATURES ARE NOT NECESSARY, PRINT OR USE TYPEWRITER

Name of Reference	Mail Address
Name of Reference	Mail Address
Name of Reference	Mail Address
Name of Reference	Mail Address
Name of Reference	Mail Address
Name of Reference	Mail Address

Entrance fee .....$ 3.00
Annual dues .....$.....
Total remittance enclosed .....$.....

DO NOT USE THIS SPACE

Receipt Acknowledged .....Elected .....

No. .....Notified .....
(For office use)

ADDRESS FOR *PROCEEDINGS* AND OTHER MAIL

Print or Use Typewriter

FULL NAME (First Name) (Middle Initial) (Family Name)

(Mailing Address) (Number) (Street)

(City) (Postal Zone) (State)

CUT HERE

Record of Training and Professional Experience

(PLEASE TYPE OR LETTER ALL INFORMATION)

FULL NAME (First Name) (Middle Initial) (Family Name) | BIRTHPLACE (State or Country) | NATIONALITY (Of what country is applicant a citizen?) | DATE OF BIRTH | Years AGE

EDUCATION

SECONDARY SCHOOL — DATES

OTHER SCHOOLS (Names and Dates)

COLLEGE OR UNIVERSITY (1) — DATES to

MAJOR COURSE — DEGREES RECEIVED — DATE

COLLEGE OR UNIVERSITY (2) — DATES to

MAJOR COURSE — DEGREES RECEIVED — DATE

PRESENT OCCUPATION

Title or Position | Firm or Organization Name | Address

Nature of Work Done by Firm or Organization

Nature of Your Work

PROFESSIONAL EXPERIENCE

Present Occupation First, Followed by Previous Experience

Indicate nature of your own work and, for Senior Member or Member grade, clearly indicate degree of your responsibility for the particular work on which application is based.

Dates

Continue on separate sheet, if necessary

D-59 FILL OUT BOTH SIDES OF THIS APPLICATION AND MAIL WITH REMITTANCE TO IRE HEADQUARTERS

CUT HERE

OFFICERS AND DIRECTORS, 1912–1958

Name	Office held
Akerman, Ben	Bd. of Dir., 1949–50.
Alexanderson, E. F. W.	Bd. of Dir., 1917–23; Pres., 1921; V. Pres., 1920.
Appleton, E. V.	Bd. of Dir., 1932; V. Pres., 1932.
*Armstrong, E. H.	Bd. of Dir., 1916–22; 1936–38.
Ashbridge, Sir Noel	Bd. of Dir., 1947; V. Pres., 1947.
*Austin, L. W.	Bd. of Dir., 1914–17; Pres., 1914.
Bailey, Austin	Bd. of Dir., 1940–42.
Bailey, S. L.	Bd. of Dir., 1943–55; Pres., 1949; Treas., 1948.
Baker, W. R. G.	Bd. of Dir., 1940; 1946–58; Pres., 1947; Treas., 1951–58.
*Ballantine, Stuart	Bd. of Dir., 1935–37; Pres., 1935.
Barkhausen, G. Heinrich	Bd. of Dir., 1935; V. Pres., 1935.
Barrow, W. L.	Bd. of Dir., 1943–45.
Barton, F. S.	Bd. of Dir., 1943; V. Pres., 1943.
Batcheller, Arthur	Bd. of Dir., 1928–32; 1934–36.
Batsel, M. C.	Bd. of Dir., 1933.
*Bennett, E. M.	Bd. of Dir., 1923–25.
Bennett, R. D.	Bd. of Dir., 1953.
Beverage, H. H.	Bd. of Dir., 1936–39; Pres., 1937.
Black K. C.	Bd. of Dir., 1952.
Bonne, E. M.	Bd. of Dir., 1955–56.
Bown, Ralph	Bd. of Dir., 1926–29; 1937–39; Pres., 1927; V. Pres., 1926.
Brainerd, J. G.	Bd. of Dir., 1956–57.
Brown, G. S.	Bd. of Dir., 1958.
Brown, J. E.	Bd. of Dir., 1938; 1947.
Browning, G. H.	Bd. of Dir., 1952–53.
*Bullard, W. H. G.	Bd. of Dir., 1920–21.
Burrows, C. R.	Bd. of Dir., 1956.
Byrne, J. F.	Bd. of Dir., 1955–57.
Cady, W. G.	Bd. of Dir., 1928–29; 1932–34; Pres., 1932; Editor, 1929.
Caldwell, O. H.	Bd. of Dir., 1932–35.
Carter, E. F.	Bd. of Dir., 1943–45.
Chaffee, E. L.	Bd. of Dir., 1922; V. Pres., 1922.
Chamberlain, A. B.	Bd. of Dir., 1941–44.
Chambers, C. C.	Bd. of Dir., 1942.
Clark, T. H.	Bd. of Dir., 1950.
Clayton, J. M.	Bd. of Dir., 1928–29; Secy., 1928–29.
Clement, L. M.	Bd. of Dir., 1945.
Coggeshall, I. S.	Bd. of Dir., 1941–44; 1951–53; Pres., 1951.
Cole, R. I.	Bd. of Dir., 1958.
Coleman, J. B.	Bd. of Dir., 1948–49.
*Colpitts, E. H.	Bd. of Dir., 1921–23.
*Conrad, Frank	Bd. of Dir., 1927; V. Pres., 1927.
Cosentino, A. T.	Bd. of Dir., 1941; V. Pres., 1941.
Craven, T. A. M.	Bd. of Dir., 1937.
Crosby, M. G.	Bd. of Dir., 1947–49.
Cullum, A. E., Jr.	Bd. of Dir., 1948.
Cunningham, F. W.	Bd. of Dir., 1938–40.
Cutting, R. F.	Bd. of Dir., 1920–24; Pres., 1922; V. Pres., 1921.
Dart, H. F.	Bd. of Dir., 1951–52.
*Davis, G. S.	Bd. of Dir., 1915; 1917–19.
deForest, Lee	Bd. of Dir., 1930–32; Pres., 1930.
Dellinger, J. H.	Bd. of Dir., 1924–31; Pres., 1925; V. Pres., 1924.
Deloraine, E. M.	Bd. of Dir., 1946; V. Pres., 1946.
Doherty, W. H.	Bd. of Dir., 1951–53; 1958.
Dyer, J. N.	Bd. of Dir., 1955–56.
Eastham, Melville	Bd. of Dir., 1922–41; Treas., 1927–40.
Eastman, A. V.	Bd. of Dir., 1950–51.
Eckersley, P. P.	Bd. of Dir., 1937; V. Pres., 1937.
Edwards, C. P.	Bd. of Dir., 1931; V. Pres., 1931.
Engstrom, E. W.	Bd. of Dir., 1949.
Espenschied, Lloyd	Bd. of Dir., 1912–13; 1915–26; 1931.
Everitt, W. L.	Bd. of Dir., 1942–47; 1949–51; Pres., 1945.
Fay, Frank	Bd. of Dir., 1912.
Fink, D. G.	Bd. of Dir., 1949–51; 1956–58; Pres., 1958; Editor, 1956–57.
Fisk, E. T.	Bd. of Dir., 1938; V. Pres., 1938.
Forbes, E. D.	Bd. of Dir., 1912; Treas., 1912.
*Forbes, H. C.	Bd. of Dir., 1940.
Fowler, G. A.	Bd. of Dir., 1958.
Friis, H. T.	Bd. of Dir., 1941–43.
Fuller, L. F.	Bd. of Dir., 1928.
Gershon, J. J.	Bd. of Dir., 1956–57.
Goldsmith, Alfred N.	Bd. of Dir., 1912–58; Pres., 1928; Secy., 1918–27; Editor, 1912–28; 1930–53; Editor Emeritus, 1954—.
*Graf, A. W.	Bd. of Dir., 1952–53; 1957.
Graham, Virgil M.	Bd. of Dir., 1935–41; 1946–48.
Granqvist, C. E.	Bd. of Dir., 1958; V. Pres., 1958.
*Grebe, A. H.	Bd. of Dir., 1924–26; 1928.
*Gustafson, G. E.	Bd. of Dir., 1943.
Guy, R. F.	Bd. of Dir., 1944–48; 1950–52; Pres., 1950; Treas., 1947.
Hackbusch, R. A.	Bd. of Dir., 1938; 1944–46; V. Pres., 1944.
Hamburger, F., Jr.	Bd. of Dir., 1950–51.
Hammond, J. H., Jr.	Bd. of Dir., 1912–17; Treas., 1913–14.
Hanson, O. B.	Bd. of Dir., 1938–43.
Hazeltine, Alan	Bd. of Dir., 1923–28; 1936–39; Pres., 1936.
Hegbar, H. R.	Bd. of Dir., 1957–58.
Heising, R. A.	Bd. of Dir., 1927–31; 1933–35; 1939–41; 1943–45; 1947–49; Pres., 1939; Treas., 1943–45.
Henderson, J. T.	Bd. of Dir., 1953–58; Pres., 1957.
Henney, Keith	Bd. of Dir., 1945–48.
Herold, E. W.	Bd. of Dir., 1956–58.
Hewlett, W. R.	Bd. of Dir., 1950–57; Pres., 1954.
*Hill, Guy	Bd. of Dir., 1914–16; 1918–20.
Hogan, J. V. L.	Bd. of Dir., 1912–36; 1948–50; Pres., 1920; V. Pres., 1916–19.
Hoover, P. L.	Bd. of Dir., 1951–52.
*Horle, L. C. F.	Bd. of Dir., 1934; 1936–42; 1944–46; Pres., 1940.
Horn, C. W.	Bd. of Dir., 1933–34.
Houck, H. W.	Bd. of Dir., 1931–42.
Howes, F. S.	Bd. of Dir., 1948.
*Hubley, Warren	Bd. of Dir., 1915–27; Treas., 1915–16; 1918–27.
Hull, L. M.	Bd. of Dir., 1929–35; Pres., 1933.
Hunter, T. A.	Bd. of Dir., 1948–50; 1956.
Hutcheson, J. A.	Bd. of Dir., 1948.
Jansky, C. M., Jr.	Bd. of Dir., 1929–42; Pres., 1934.
Jensen, A. G.	Bd. of Dir., 1954–56.
Jett, E. K.	Bd. of Dir., 1938.
Johnson, J. K.	Bd. of Dir., 1942.
Jolliffe, C. B.	Bd. of Dir., 1936–37; 1944.
Kaar, I. J.	Bd. of Dir., 1939; 1948.

(Continued on page 8)

OFFICERS AND DIRECTORS, 1912—1958 (Cont'd)

Name	Office held
Kantebet, S. R.	Bd. of Dir., 1953; V. Pres., 1953.
*Kennelly, A. E.	Bd. of Dir., 1916–18; Pres., 1916.
Kirke, Harold L.	Bd. of Dir., 1952; V. Pres., 1952.
*Kolster, F. A.	Bd. of Dir., 1933–35.
Kranz, H. E.	Bd. of Dir., 1949–50.
Krumm, L. R.	Bd. of Dir., 1917; 1921; Treas., 1917.
Lack, F. R.	Bd. of Dir., 1940; 1946–47.
*Langmuir, Irving	Bd. of Dir., 1923–25; Pres., 1923.
Lee, A. G.	Bd. of Dir., 1930; V. Pres., 1930.
Lewis, G. H.	Bd. of Dir., 1918–19; 1923–26; 1935.
Llewellyn, F. B.	Bd. of Dir., 1939–48; Pres., 1946.
Loughren, A. V.	Bd. of Dir., 1952–58; Pres., 1956.
*Lowenstein, Fritz	Bd. of Dir., 1912; V. Pres., 1912.
Manson, R. H.	Bd. of Dir., 1927–33; Pres., 1931.
*Marriott, R. H.	Bd. of Dir., 1912–16; 1920–22; 1926–32; Pres., 1912; V. Pres., 1913.
Marshall, C. J.	Bd. of Dir., 1954–55.
*McDonald, A. S.	Bd. of Dir., 1949; V. Pres., 1949.
McFarlan, R. L.	Bd. of Dir., 1957–58.
*McNicol, Donald	Bd. of Dir., 1919–28; Pres., 1926; V. Pres., 1925.
McRae, J. W.	Bd. of Dir., 1949–56; Pres., 1953.
*Meissner, Alexander	Bd. of Dir., 1929; V. Pres., 1929.
*Morecroft, J. H.	Bd. of Dir., 1922–26; Pres., 1924; V. Pres., 1923.
Murray, A. F.	Bd. of Dir., 1936–39.
*Nelson, E. L.	Bd. of Dir., 1932–36.
Newton, K. V.	Bd. of Dir., 1957–58.
Nichols, H. W.	Bd. of Dir., 1924–25.
Niwa, Y.	Bd. of Dir., 1957; V. Pres., 1957.
Noble, D. E.	Bd. of Dir., 1957–58.
Oxley, A. B.	Bd. of Dir., 1951–52; 1957–58.
Packard, L. E.	Bd. of Dir., 1954–55.
*Pederson, P. O.	Bd. of Dir., 1939; V. Pres., 1939.
Pettit, J. M.	Bd. of Dir., 1954–55.
*Pickard, G. W.	Bd. of Dir., 1912–15; Pres., 1913.
*Pierce, G. W.	Bd. of Dir., 1915; 1918–21; Pres., 1918–19; V. Pres., 1915.
Pierce, J. R.	Bd. of Dir., 1954–55; Editor, 1954–55.
Piore, E. R.	Bd. of Dir., 1951.
Polkinghorn, F. A.	Bd. of Dir., 1957–58.
Ponte, M. J. H.	Bd. of Dir., 1954; V. Pres., 1954.
Poppele, J. R.	Bd. of Dir., 1947.
*Poulsen, Valdemar	Bd. of Dir., 1936; V. Pres., 1936.
Pounsett, F. H. R.	Bd. of Dir., 1949–50.
Pratt, Haraden	Bd. of Dir., 1935–58; Pres., 1938; Treas., 1941–42; Secy., 1943–58.
Priest, C. A.	Bd. of Dir., 1953–54.
*Pupin, M. I.	Bd. of Dir., 1917–19; Pres., 1917.
Ragazzini, J. R.	Bd. of Dir., 1953–54.
Rappaport, G.	Bd. of Dir., 1954–56.
Reich, H. J.	Bd. of Dir., 1944; 1948–51.
Reid, J. D.	Bd. of Dir., 1950–51.
*Reoch, A. E.	Bd. of Dir., 1924–27.
Rinia, Herre	Bd. of Dir., 1956; V. Pres., 1956.
Royden, G. T.	Bd. of Dir., 1946.
*Rush, W. A.	Bd. of Dir., 1942; V. Pres., 1942.
Rust, W. M.	Bd. of Dir., 1951–52.
Rybner, Jorgen	Bd. of Dir., 1951; V. Pres., 1951.
Ryder, J. D.	Bd. of Dir., 1952–58; Pres., 1955; Editor, 1958.
Sarnoff, David	Bd. of Dir., 1915–20; Secy., 1915–17.
Schulz, E. H.	Bd. of Dir., 1958.
Seely, Samuel	Bd. of Dir., 1957–58.
Shackelford, B. E.	Bd. of Dir., 1945–50; 1953–55; Pres., 1948.
Shepherd, J. E.	Bd. of Dir., 1948–50.
Shute, E. R.	Bd. of Dir., 1933–34.
Simon, E. J.	Bd. of Dir., 1912–15; Secy., 1912–14.
Sinclair, D. B.	Bd. of Dir., 1945–58; Pres., 1952; Treas., 1949–50.
Sink, R. L.	Bd. of Dir., 1952–53.
Smith, D. B.	Bd. of Dir., 1947.
Smith-Rose, R. L.	Bd. of Dir., 1948; V. Pres., 1948.
*Squier, G. O.	Bd. of Dir., 1918–22.
*Stone, J. S.	Bd. of Dir., 1912–19; Pres., 1915; V. Pres., 1914.
Straiton, A. W.	Bd. of Dir., 1953–54.
Stratton, J. A.	Bd. of Dir., 1948–51; 1954.
Swinyard, W. O.	Bd. of Dir., 1945–46.
Tank, F.	Bd. of Dir., 1955; V. Pres., 1955.
Taylor, A. H.	Bd. of Dir., 1929–31; Pres., 1929.
Terman, F. E.	Bd. of Dir., 1940–43; 1948–49; Pres., 1941; V. Pres., 1940.
*Thompson, B. J.	Bd. of Dir., 1937–44.
Town, G. R.	Bd. of Dir., 1949; 1951–53.
Tucker, D. J.	Bd. of Dir., 1955–56.
Turner, H. M.	Bd. of Dir., 1933–46; Pres., 1944.
*van der Bijl, H. J.	Bd. of Dir., 1945; V. Pres., 1945.
van der Pol, Balth.	Bd. of Dir., 1934; V. Pres., 1934.
Van Dyck, A. F.	Bd. of Dir., 1930–35; 1939–44; Pres., 1942.
Vollum, C. H.	Bd. of Dir., 1955.
Watson-Watt, R. A.	Bd. of Dir., 1950; V. Pres., 1950.
*Weagant, R. A.	Bd. of Dir., 1913–17.
*Webb, W. L.	Bd. of Dir., 1946.
Weber, Ernst	Bd. of Dir., 1952–58.
Webster, E. M.	Bd. of Dir., 1946.
Wells, H. W.	Bd. of Dir., 1954–55.
Westman, H. P.	Bd. of Dir., 1930–42; Secy., 1930–42.
Wheeler, H. A.	Bd. of Dir., 1934; 1940–45.
Wheeler, L. P.	Bd. of Dir., 1940–45; Pres., 1943.
Whinnery, J. R.	Bd. of Dir., 1956–58.
White, W. C.	Bd. of Dir., 1943–47; Treas., 1946.
Whittemore, L. E.	Bd. of Dir., 1926–29; 1935–37; V. Pres., 1928.
*Wilson, William	Bd. of Dir., 1932–36.
Wolcott, C. F.	Bd. of Dir., 1956–57.
Wolff, Irving	Bd. of Dir., 1952–53.
Zahl, H. A.	Bd. of Dir., 1949.
Zenneck, Jonathan	Bd. of Dir., 1933; V. Pres., 1933.

* DECEASED.

THE INSTITUTE OF RADIO ENGINEERS

(Incorporated, August 23, 1913)

CONSTITUTION

Adopted at the First Meeting of The Institute of Radio Engineers, May 13, 1912. Amended, November 2, 1914; December 5, 1915; October 7, 1931; March 1, 1939; November 5, 1941; September 8, 1943; November 29, 1944; May 5, 1945; December 15, 1945; June 27, 1946; July 30, 1946; and August 15, 1947.

ARTICLE I

NAME AND OBJECT

SEC. 1—The name of this organization shall be The Institute of Radio Engineers, Incorporated.

SEC. 2—Its objects shall be scientific, literary, and educational. Its aims shall include the advancement of the theory and practice of radio and allied branches of engineering and of the related arts and sciences, their application to human need, and the maintenance of a high professional standing among its members. Among the means to this end shall be the holding of meetings for the reading and discussion of professional papers and the publication of papers, discussions, communications, and such other matters as may be appropriate for the fulfillment of its objects.

ARTICLE II

MEMBERSHIP

SEC. 1—The membership of the Institute shall consist of:

a. Fellows, who shall be entitled to all rights and privileges of the Institute.

b. Senior Members, who shall be entitled to all rights and privileges of the Institute.

c. Special Members, who shall be entitled to all rights and privileges of the Institute except the right to hold the offices of President and Vice President.

d. Members, who shall be entitled to all rights and privileges of the Institute except the right to hold the offices of President, Vice President, and Director.

e. Associates, who shall have such rights and privileges as are provided by the Bylaws. However, Associates who have maintained a continuous membership in this grade since March 1, 1939, shall have the right to vote and shall be entitled to all rights and privileges of the Institute except the right to hold any corporate office, the office of Director, and the chairmanships of standing Committees and of Sections.

f. Students, who shall have such rights and privileges as are provided by the Bylaws.

SEC. 2—The qualifications for the various grades of membership shall be specified in the Bylaws in accordance with the following principles:

a. Fellow is a grade of unusual professional distinction and shall be conferred only by invitation of the Board of Directors.

b. Senior Member is the highest professional grade for which application may be made and shall require experience or attainment reflecting professional maturity.

c. Special Member is a grade limited to those who have shown an interest in furthering the radio or allied arts and sciences and who have attained such position or prestige that by membership they shall advance the objectives of the Institute. This grade shall be conferred only by invitation of the Board of Directors.

d. Member is a professional grade limited to those who have demonstrated professional competence in radio or allied fields.

e. Associate grade shall be open to those interested in the theory or practice of radio engineering or the allied arts and sciences.

f. Student grade shall be open to those devoting a major part of their time as registered students in a regular course of study in engineering or science in a school of appropriate standing. Membership in this grade may extend a limited time after termination of student status.

SEC. 3—The requirements for admission, tranfers, and severance of members shall be specified in the Bylaws.

SEC. 4—The term "allied" as used in this Constitution and Bylaws refers to electrical communication, electronics, and such other technical fields as are directly contributory to, or derived from radio.

SEC. 5—The terms "member" and "membership" when printed without an initial capital where used in this Constitution and Bylaws include all grades.

SEC. 6—The term "voting member" where used in this Constitution and Bylaws means a member entitled to vote on Institute matters.

ARTICLE III

DUES AND FEES

SEC. 1—Dues and fees shall be specified in the Bylaws.

SEC. 2—Under exceptional circumstances, the payment of fees and dues may be deferred or waived in whole or in part by the Board of Directors.

ARTICLE IV

OFFICERS AND DIRECTORS

SEC. 1—The governing body of the Institute shall be the Board of Directors and shall consist of the President, Vice President, Secretary, Treasurer, Editor, six Directors elected-at-large, three appointed Directors, one Regional Director elected by each Region, and the two most recent past Presidents.

SEC. 2—The Corporate Officers of the Institute shall be the President, Vice President, Secretary, Treasurer, and Editor.

SEC. 3—The terms of office for Directors elected-at-large shall be for three years; for appointed Directors, one year; for Regional Directors, two years; and for all Corporate Officers, one year, except as provided in Article VI, Section 1.

SEC. 4—Each year of a term of office established in Article IV shall begin with the assembly of the Board of Directors at its annual meeting and terminate with the assembly of the Board of Directors at its following annual meeting.

SEC. 5—No Corporate Officer or Director shall receive, directly or indirectly, any salary, traveling expenses, compensation, or emolument from the Institute, unless authorized by the Board of Directors or by the Bylaws.

SEC. 6—The United States and Canada, and other areas at the discretion of the Board of Directors, shall be divided into Regions, which shall be specified in the Bylaws. The Board of Directors shall delineate the Regions, make changes in the number of Regions, as it deems desirable, and number the Regions with consecutive numbers. The voting members of each Region shall elect one representative who shall thereby become a member of the Board of Directors and be designated a Regional Director.

ARTICLE V

MANAGEMENT

SEC. 1—The President shall be the regular presiding officer at meetings of the Board of Directors and at meetings of the Insti-

tute. He shall be an ex-officio member of each committee.

The Vice President shall assume the duties of the President in the absence or incapacity of the President.

In the event that neither the President nor the Vice President can personally act, the Board of Directors may elect a chairman from its membership who is authorized to perform the presidential duties during the period of the incapacity of the President and Vice President. The tenure of such temporary chairman shall be at the discretion of the Board of Directors.

SEC. 2—The Board of Directors shall manage the affairs of the Institute. An annual report on the activities and finances of the Institute shall be made to the members.

Eight members of the Board of Directors shall constitute a quorum.

SEC. 3—The Board of Directors may make, amend, or revoke Bylaws to this Constitution. The proposed changes and reasons therefor shall be mailed to all members of the Board at least twenty days before the stipulated meeting at which the vote shall be taken. Two-thirds of all votes cast at the stipulated meeting shall be required to approve any new Bylaw, amendment, or revocation.

SEC. 4—The Secretary shall be responsible for the preparation for all meetings of the Board of Directors and all principal meetings of the Institute and the recording of the minutes of such meetings. He shall be responsible for the correspondence of the Institute and the keeping of full records thereof, and shall be responsible for the provision of such information from them as is requested by the Board of Directors.

SEC. 5—The Treasurer, under the control of the Board of Directors, shall have general supervision of the fiscal affairs of the Institute and shall be responsible for the keeping of the books of account. An annual audit of the affairs of the Institute shall be made by certified public accountants and submitted to the Board.

SEC. 6—All funds received by the Institute shall be deposited in an account requiring the signatures of at least two of the following for withdrawal: President, Vice President, Secretary, Treasurer, and Editor. Funds from this account may be deposited in other accounts authorized and limited in size by the Board of Directors. Funds from these accounts shall be withdrawable on the signatures of authorized bonded individuals for current disbursements. Before additional funds are transferred from the first-mentioned account to another account, the individuals responsible for such other accounts shall submit a statement of the disposition of the previously expended funds to the Treasurer.

SEC. 7—All committees shall be appointed by the Board of Directors or in such manner as the Board may designate.

SEC. 8—The fiscal year of the Institute shall end with the thirty-first day of December.

ARTICLE VI

NOMINATION, ELECTION, AND APPOINTMENT OF OFFICERS AND DIRECTORS

SEC. 1—On or before July first of each year, the Board of Directors shall submit to qualified voters a list of nominations containing at least one name each for the offices of President and Vice President, at least four names for the office of Director elected-at-large, the names of all nominees for the office of Regional Director, and shall entertain nominations by petition for all of the offices specified.

Nominations by petition may be made by letter to the Board of Directors setting forth the name of the proposed candidate and the office for which it is desired he be nominated. For acceptance a letter of petition must reach the Institute office before twelve o'clock noon on the last weekday prior to August fifteenth of any year and shall be signed by at least one hundred voting members qualified to vote for the office of the candidate nominated.

Each proposed nominee shall be consulted and if he so requests his name shall be withdrawn. The names of proposed nominees who are not eligible under the Constitution shall be withdrawn by the Board.

On or before September first, the Board of Directors shall submit to all voting members as of August fifteenth, a list of nominees for the offices of President, Vice President, and Director elected-at-large, and shall submit to all such voting members of each Region a list of their nominees for the office of Regional Director, the names of the nominees for each office being arranged in alphabetical order. The ballots shall carry a statement to the effect that the order of the names is alphabetical for convenience only and indicates no preference.

Voting members shall vote for the candidates whose names appear on the list of nominees, by written ballots in plain sealed envelopes, enclosed within mailing envelopes marked "Ballot" and bearing the member's written signature. No ballots within unsigned outer envelopes shall be counted. No votes by proxy shall be counted. Only ballots arriving at the Institute office before twelve o'clock noon on the last weekday prior to October twenty-fifth shall be counted. Ballots shall be checked, opened, and counted under the supervision of the Tellers Committee between October twenty-fifth and the first Wednesday in November. The result of the count shall be reported to the Board of Directors at its next succeeding meeting and the nominees for President and Vice President, the two nominees for Director elected-at-large, and the nominees for each office of Regional Director receiving the greatest number of qualified votes shall be declared elected. In the event of a tie vote the Board shall choose between the nominees involved.

Nominees for the office of Regional Director shall be members of and live in the Regions which nominate them. They shall be elected by the voting members of the Institute in the Region. The Regional Directors from even- and odd-numbered Regions shall be chosen by the Regions in even- and odd-numbered years, respectively. In placing the Regional Representation Plan into operation, or when new Regions are established, or when changes are made in Regions, candidates for the office of Regional Director may be nominated and elected for one-year terms as required to ensure representation during the period preceding their normal election years. No Regional Director shall have his term shortened by changes in Regions. Each Region shall have a Regional Committee whose duties shall include making at least one nomination for Regional Director from its Region during election years. In the event a Regional Director dies, is unable to serve, or is disqualified by removal from the Region, the Regional Committee shall appoint a Regional Director for the unexpired portion of the term. The organization and procedure of the Regional Committees for nominating candidates for Regional Director shall be specified in the Bylaws.

SEC. 2—The Secretary, Treasurer, Editor, and three appointed Directors shall be appointed by the Board of Directors at its annual meeting to serve until the next annual meeting or until their successors are appointed and accept.

SEC. 3—The Board of Directors is authorized to fill a vacancy other than Regional Director occurring in the governing body.

ARTICLE VII

MEETINGS

SEC. 1—There shall be an annual meeting of the Board of Directors during January of each year at which newly elected officers shall begin their terms of service, and the Board shall make necessary appointments.

SEC. 2—There shall be an annual meeting of the Institute as soon as practicable after the annual meeting of the Board of Directors at which reports of the Secretary and Treasurer shall be presented.

SEC. 3—Meetings of the Board may be held at such times as are necessary to carry out the provisions of this Constitution and shall be held at such other times as any five members of the Board may determine, but only on notice to all members of the Board. The method of calling such special meetings shall be specified in the Bylaws.

ARTICLE VIII

SECTIONS AND OTHER GROUPS

SEC. 1—The Board of Directors may authorize the establishment of Sections and other groups of members for the purpose of promoting the interests of the Institute. The Board of Directors may, at its discretion, terminate the existence of any such group.

ARTICLE IX

AMENDMENTS

SEC. 1—Amendments to this Constitution may be proposed by means of a resolution adopted by the Board of Directors or by means of a petition signed by at least one hundred voting members. Such proposed amendment or amendments shall be submitted to legal counsel by the Board of Directors, and if, in the opinion of such counsel, they are in accordance with the laws under which the Institute is organized, a copy shall be mailed with a ballot to each voting member.

SEC. 2—Constitutional amendment ballots shall be mailed to the voting members at least sixty days before the date appointed for counting the ballots and the ballots shall carry a statement of the time limit for their return to the Institute office. The ballots after marking shall be placed in plain sealed envelopes, enclosed within mailing envelopes marked "Ballot" and bearing the member's written signature. Only ballots within signed outer envelopes shall be counted. No votes by proxy shall be counted. Only ballots arriving at the Institute office prior to the stated time limit shall be counted. The Tellers Committee shall count such votes and report to the Board of Directors at its next meeting. If the total vote be at least twenty per cent of the total voting membership and if at least sixty-seven per cent of all votes cast shall be favorable, the proposed amendment or amendments shall be immediately declared by the Tellers Committee to be adopted.

SEC. 3—Amendments shall take effect thirty days after their adoption but officers and officers-elect of the Institute at the time any amendment becomes effective shall continue in office until the end of the terms for which they were elected.

SEC. 4—Copies of the amendments shall be distributed to the members as soon as practicable after adoption.

SEC. 5—A complete history of amendments shall be kept in the files of the Institute.

BYLAWS

(As of May 12, 1958)

Article V, Section 3, of the Institute Constitution provides for Bylaws as follows:

"The Board of Directors may make, amend, or revoke Bylaws to this Constitution. The proposed changes and reasons therefor shall be mailed to all members of the Board at least twenty days before the stipulated meeting at which the vote shall be taken. Two-thirds of all votes cast at the stipulated meeting shall be required to approve any new Bylaw, amendment, or revocation."

MEMBERSHIP QUALIFICATIONS

SEC. 1—Fellow: The grade of Fellow shall be conferred only upon a person who is either a Senior Member of the IRE, or meets all requirements for Senior Member, and has been a member in any grade for a period of five (5) years preceding year of nomination, except that these provisions in individual cases may be waived for cause by the Board of Directors, as in the case of members-at-large who are not members of any established IRE Section, and is:

a. An engineer or scientist in radio or allied fields. As such he shall have attained distinction in his profession and shall be eminently qualified to take responsible charge of important radio or allied work. He shall have been in the active practice of his profession for at least ten years, and shall have had responsible charge of important radio or allied work for at least three years, or

b. A professor of engineering or of physical science. As such he shall have attained special distinction as an expounder of the principles of engineering or of science in radio or allied fields. He shall have had at least ten year's experience as a teacher of electrical or physical subjects and shall have had responsible charge for at least three years, of a course in radio or allied subjects in a school of recognized standing, or

c. A person who has done notable original work contributing to the advancement of engineering or science in radio or allied fields, which has given him a recognized standing at least equivalent to that required for Fellow under paragraph "a" or "b," or

d. A person regularly engaged in radio or allied work for at least ten years, who, by invention or contribution to the advancement of engineering or science in radio or allied fields, or to the technical literature thereof, has attained a standing at least equivalent to that required for Fellow under paragraph "a" or "b."

SEC. 2—Senior Member: For admission or transfer to the grade of Senior Member, a candidate shall be:

a. An engineer or scientist in radio or allied fields. As such he shall have been in the active practice of his profession for at least eight years, and shall have performed or taken responsibility for important engineering or scientific work in these fields for at least three of these years, or

b. A teacher of radio or allied subjects for at least eight years in a school of recognized standing. As such he shall have been in responsible charge of a major course in such subjects for at least three years, or

c. A person regularly employed in radio or allied fields for at least eight years, who, by invention or by contribution to the advancement of engineering or science in radio or allied fields, or to the technical literature thereof, has attained a standing equivalent to that required for Senior Member under paragraph "a," or

d. An executive who, for at least eight years, has had under his direction important engineering or research work in radio or allied fields and who is qualified for direct supervision of the technical or scientific features of such activities, or

e. A person regularly employed in radio or allied technical work for at least sixteen years, who, by experience and education has attained a standing equivalent to that required for Senior Member under paragraph "a" and shall have performed or taken responsibility for important technical work in these fields for at least six years.

SEC. 2-A—Special Member: The grade of Special Member shall be conferred only upon a person who meets the requirements of the grade set forth in the Constitution. Proposals for election to the grade, together with supporting information, may be presented by a member of the Board of Directors at any meeting of the Board. After full consideration at a Board meeting, the proposal, unless withdrawn, shall be placed on the agenda for action at the next Board meeting. A favorable vote of at least two-thirds of the members of the Board present shall be required for election.

SEC. 3—Member: For admission or transfer to the grade of Member, a candidate shall be either:

a. An engineer or scientist in radio or electrical engineering, or allied fields, who shall have had at least three years of professional experience.

b. A teacher of radio or electrical engineering, or allied subjects, for at least three years, who shall have held the rank of instructor or higher, and shall have participated in planning and conducting courses.

c. A person regularly employed in radio or allied technical work for at least six years, who, by experience, has demonstrated competence in work of a professional character.

d. An executive who, for at least six years, has had under his direction important technical, engineering, or research work in radio or allied fields.

e. A person regularly employed in radio or allied technical work for at least six years, who, by experience and education, has attained a standing equivalent to that required for Member under paragraph "a."

SEC. 4—Associate: For admission or transfer to the grade of

Associate, a candidate shall be interested in the theory or practice of radio engineering or of the allied arts and sciences.

SEC. 5—Student: For admission to the grade of Student, a candidate shall be

a. devoting a major portion of his time as a registered student in a regular course of study in electrical engineering or allied science, physics, or mathematics in a school of recognized standing, or

b. devoting a major portion of his time as a resident and registered student in a regular course of study in radio, electronics, or allied fields in a technical institute approved by the Executive Committee. These students shall be known as Student Associates.

Membership in this grade shall not extend more than six months beyond the termination of his studnet status as described above.

SEC. 6—The expression, "school of recognized standing," includes only schools which provide an electrical engineering, engineering physics, physics, or mathematics curriculum of not less than four years' duration, leading to a degree, and are designated as such by the Executive Committee.

SEC. 7—Graduation from an electrical engineering, engineering physics, physics, or mathematics curriculum, of at least four years' duration, in a school of recognized standing, shall be accepted as equivalent to three years' professional experience in radio or allied fields.

Graduation from an accredited radio, electronics, or allied curriculum, of at least two years' duration, in a technical institute approved by the Executive Committee, shall be accepted as equivalent to one year's professional experience in radio or allied fields.

Full-time graduate work, or part-time graduate work with teaching or research, in an electrical engineering, engineering physics, physics, or mathematics course, in a school of recognized standing, shall be accepted as equivalent to professional experience.

SEC. 8—The time requirements for admission or transfer to any grade of membership may be satisfied by applying pro rata the experience of the candidate under the various alternative requirements for that grade.

SEC. 9—Members are authorized to assert Institute affiliation. In doing so, they should indicate their grade of membership and, if necessary, use the following abbreviations:

Fellow—Fellow IRE
Senior Member—Sen. Mem. IRE
Special Member—Spec. Mem. IRE
Member—Mem. IRE
Associate—Assoc. IRE

SEC. 10—The emblem of the IRE is protected by trade-mark registration and shall be reproduced only in connection with official business of the IRE.

MEMBERSHIP APPLICATIONS

SEC. 11—Applicants for membership shall furnish names of references as follows:

For Senior Member—Five Fellows or Senior Members.
For Member—Four Fellows, Senior Members, or Members.
For Associate—Three Fellows, Senior Members, Members, Associates, or other responsible individuals.
For Student—The IRE Representative at his school, if such a Representative exists; otherwise, a member of the faculty of his school.

SEC. 12—When an applicant for Senior Member or Member shows that his work or location is such as to make impracticable compliance with Section 11, the names of persons who are familiar with his professional work may be substituted. The Admissions Committee shall exercise discretion in determining suitability of substitute references and waiving Section 11.

SEC. 13—Applications for admission or transfer to any grade of membership, except Fellow or Special Member, shall be addressed to the Board of Directors and submitted to the IRE Headquarters. Election or transfer of an applicant to any grade, except Fellow or Special Member, shall be by two-thirds affirmative vote of a committee of the Board of Directors duly authorized in the Bylaws to act for the Board in electing members or transferring their membership grades.

SEC. 14—The Executive Committee is authorized to act for the Board of Directors in electing members or transferring their membership grades in the case of all except Fellow and Special Member grades, and may waive application, and reference requirements in the transfer of members in grade from Student to Associate or Member grade. The Executive Committee shall handle readmissions on the basis of policies established by the Board of Directors.

SEC. 15—A reapplication for admission or transfer to a particular grade may be made by the applicant after the expiration of one year from the date of a rejection.

MEMBERSHIP PROPOSALS

SEC. 16—Admission or transfer to Fellow or Special Member grade shall be by invitation by the Board of Directors only.

SEC. 17—Each year, the Fellow Committee shall recommend to the Board of Directors nominees for Fellow Grade not more than seventy-five (75) in number. A Citation summarizing the accomplishments of the nominee shall be a part of each recommendation.

SEC. 18—Deleted by Board of Directors, January 6, 1955.

SEC. 19—Deleted by Board of Directors, January 5, 1956.

SEC. 20—Admission or transfer to any grade except Fellow or Special Member may be proposed by any member acting as sponsor by supplying to the Admissions Committee sufficient information and testimonials from the required number of references to satisfy the Admissions Committee as to qualifications. Such proposals shall be acted upon by the Admissions Committee, and if approved, transmitted to the Executive Committee for their action. If approved by the Executive Committee, an invitation blank shall be sent to the proposed member inviting him to accept the grade of membership proposed, which membership grade shall become effective automatically and immediately upon his supplying the biographical and professional information required, and paying the necessary dues and fees. The name of an invitee shall be placed on the mailing list for the PROCEEDINGS OF THE IRE immediately upon receipt of dues and fees.

SEC. 21—Deleted by Board of Directors, May 10, 1956.

ADMISSIONS AND TRANSFERS

SEC. 22— The entrance fee for all grades shall be three dollars ($3) except that there shall be no entrance fee for Student grades.

SEC. 22A—No entrance fee shall be charged any non-IRE member of a Joint Student Branch or Joint Student Associate Branch, who is a student member of another national engineering society which is a sponsor with IRE of the Joint Student Branch or Joint Student Associate Branch, and who applies for admission to membership in the IRE within six months of the termination of his student status.

SEC. 23—There shall be no transfer fees. A member whose grade of membership is changed during his annual dues period shall be billed pro rata for the remainder of that period.

SEC. 24—The name of every newly-admitted or transferred Senior Member, Special Member, Member, or Associate shall be published in the PROCEEDINGS OF THE IRE.

SEC. 25—When an applicant for membership is elected, the membership period shall be dated as of the first day of the first month following receipt of application, if received on or before the nineteenth day of the month, or as of the first day of the second month following receipt of application, if received after the nineteenth day of the month.

SEC. 26—The entrance fee and dues are payable on notification of election, and, if not received within six months from notification, the election shall be considered void.

SEC. 27—A notice of election shall be sent to every newly-admitted member together with a bill for entrance fee and dues, if not previously paid, dues being computed for the annual period concurrent with the membership period. Entrance fee or dues remaining unpaid, additional bills shall be sent the newly-elected member 60 days and 120 days after notification of election, in the last instance accompanied by a warning that the election will be considered void if the entrance fee and dues are not received within six months of notification of election.

ANNUAL DUES

SEC. 28—Every member's annual dues period and the period during which he shall receive publications of the Institute shall run concurrently with his membership period. The annual dues shall be payable in advance at the beginning of the annual dues period.

SEC. 29—For members elected prior to July 1, 1955, the annual dues for all grades shall be fifteen dollars ($15), except for Student which shall be five dollars ($5), and except for Associate which shall be ten dollars ($10) for each year which is within the first five years of membership in any grade or grades other than Student. Beginning with the sixth such year, the Annual Associate dues shall be fifteen dollars ($15).

For members elected July 1, 1955, or thereafter, the annual dues shall be ten dollars ($10) for the first three years of membership in the IRE in any grade or grades other than Student, and fifteen dollars ($15) for each succeeding year. The annual dues for Student grade shall be five dollars ($5).

SEC. 30—The Board, by this Bylaw, waives the dues of each and every member of the Institute who has attained the age of 65 years and has been a member of the Institute for 35 years.

BILLING

SEC. 31—A bill covering his dues for the following year shall be mailed to every member not later than one month prior to the beginning of his annual dues period. A second bill shall be mailed after a lapse of two months to every member whose dues remain unpaid. There shall be mailed with the second bill a notice that, if the member's dues remain unpaid for four months, it shall be the duty of the Executive Secretary, in accordance with the Bylaws of the Institute, to notify the member that his membership has terminated.

After a member has been in arrears four months, his membership shall terminate and his name shall be removed from the roll of membership. Every such member shall be mailed a notice to the effect that, according to the Bylaws of the Institute, his membership in the Institute has in fact terminated. Accompanying the notice of termination shall be a final bill, with the suggestion that the member pay the bill and resume his membership.

Membership so terminated may be resumed on payment of all dues in arrears, or on payment of a new entrance fee and current dues.

SEC. 32—For purposes of Article II, Section 1-e, of the Constitution, resumption of membership as provided under Bylaws Sections 31 and 36, shall not constitute maintenance of continuous membership.

SEC. 33—The mailing of bills or statements to the last known address of a member shall be considered a valid notice of indebtedness.

SEC. 34—On resuming membership and paying dues in arrears, a member may receive available copies of the PROCEEDINGS OF THE IRE during the period covered by the back dues. A rebate of 25 cents per copy will be made in lieu of copies of the PROCEEDINGS OF THE IRE not available.

SEVERANCES

SEC. 35—A member in good standing may resign by submitting a written resignation to the Secretary.

SEC. 36—Subject to the approval of the Board of Directors, a resigned member may resume his membership upon payment of current dues.

SEC. 37—To initiate action toward expulsion of a member, a written complaint must be submitted to the Board of Directors, which, if it deems the reason sufficient, shall notify the accused by letter of the charges against him and of the place and date of the hearing, which shall be at least twenty days away. The accused may present his defense in person, in writing, or by an authorized representative. There shall be a majority of the members of the Board of Directors present at the hearing and the votes cast must be unanimous in order to expel. The action of the Board of Directors shall be final and conclusive.

SEC. 38—The Secretary shall, as soon as possible after the end of each year, present to the Board of Directors a report giving the number of members of each grade at the close of the year, and the gains and losses in each grade of membership during the year as a result of elections, transfers, reinstatements, debts, resignations, failure to pay dues, and all other causes. This report shall also give the number of newly-elected members whose elections become void during the year through the failure to pay entrance fee and initial dues, and the number of newly-elected members who at the end of the year have not yet paid entrance fee and initial dues but whose election is still effective as of that date. The report shall also give the number of Professional Group Affiliates.

BOARD OF DIRECTORS

SEC. 39—The annual meeting of the Board of Directors required by the Constitution to be held during January of each year, shall be held in the office of the Institute in New York, N.Y. Scheduled meetings of the Board shall be held on the first Wednesday of May and the first Wednesday after the second Monday in November, the place to be determined by the Board at the annual meeting in January, subject to change as provided for in Sec. 40 of the Bylaws. At the annual meeting, the Board shall determine the time and place of other scheduled meetings to be held throughout the year, subject to change as provided in Sec. 40 of the Bylaws.

SEC. 40—The time or place of any scheduled Board meeting may be altered or the meeting cancelled only by consent of a majority of all Board members not less than twenty days before the original date or the new date set for the meeting, whichever is the earlier. Notice of such approved change shall be given all Board members by mailing notice not less than ten days before the original or the new date, whichever is the earlier.

SEC. 41—As provided in the Constitution, special meetings of the Board of Directors may be called by any five members of the Board on notice to all other members. Notice of such special meeting, giving the time and place of meeting, the purpose of the meeting, and the names of the Board members calling the meeting shall be mailed to all Board members not less than twenty days before the date set for the special meeting. The place of such special meetings may be only the Institute office in New York, N.Y., unless otherwise authorized by a majority vote of all Board members.

EXECUTIVE COMMITTEE

SEC. 42—The Board of Directors, in managing the affairs of the Institute according to the Constitution, shall appoint a committee of Officers and members of the Board of Directors called the Executive Committee, to exercise powers and assume duties of executive management, to the extent that the Board of Directors directs, and as outlined in Bylaws, subject to the following limitations: that the Board may, by a majority vote of those present at any meeting, overrule any act or decision of the Executive Committee, except insofar as any act has in fact been carried out, or suspend at any meeting any power conferred upon the Executive Committee, such suspension to remain in effect pending repeal of the Bylaw conferring such power, or direct any action or plan of the Executive Committee.

SEC. 43—The President, the Secretary, the Treasurer, the Editor, and at least two other members of the Board of Directors shall comprise the Executive Committee. The President shall be Chairman, the Treasurer shall be Vice Chairman, and the Secretary shall be Secretary of the Executive Committee. The terms of appointments of all members of the Executive Committee, except the President, shall start with the first meeting of the Committee after appointment and shall continue notwithstanding any change in status on the Board until the first meeting of the succeeding Executive Committee.

SEC. 44—The Executive Committee shall appoint, direct, and co-ordinate the work of all standing committees except the Appointments, Awards, Constitution and Laws, Executive, Fellow, Nominations, Policy Advisory, and Tellers Committees, and the Editorial Board.

SEC. 45—The Executive Committee shall prepare and present an annual budget to the Board of Directors for approval.

SEC. 46.—The Executive Committee shall be responsible for the management of the office of the Institute, which shall include special activities, technical activities, office operations, accounting,

advertising, and publications, and the setting of salaries (with the exception of Officers' salaries) in all instances in the limits of the budget. Such activities as the Executive Committee shall direct shall be administered by the Executive Secretary. The salary of the Executive Secretary shall be determined by the Executive Committee.

SEC. 47—The Executive Committee shall set dates and locations of conventions, conferences, and meetings of the Institute, and shall manage them.

SEC. 48—The Executive Committee shall approve or disapprove, and supervise the formation and operation of Sections, Professional Groups, and other groups of members.

SEC. 49—The Executive Committee shall direct and manage Institute standardization activities including relations with other organizations.

SEC. 50—The Executive Committee may divide its duties and responsibilities among its members as it sees fit and conduct its business as it finds necessary, and shall formulate a "Code of Administrative Practice."

SEC. 51.—Minutes of the meetings of the Executive Committee shall be mailed to the members of the Board of Directors.

SEC. 52—In addition to its other duties, the Executive Committee is charged with broadly considering Institute policies, and making appropriate recommendations to the Board of Directors on its own initiative.

NOMINATIONS

SEC. 53—The Secretary shall circularize all Section chairmen and secretaries before March first of each year requesting the submission of suitable names to be considered by the Nominations Committee for the various elective offices.

SEC. 54—The Nominations Committee shall submit the name or names of one or more candidates for the office of President, and the names of more than one candidate for each of the other elective offices.

SEC. 55—The Nominations Committee shall transmit its list of proposed nominees to members of the Board of Directors at least one week before the date at which the Board is expected to act upon them.

SEC. 56—When the Board of Directors has not scheduled a meeting to be held between August 14 and September 1 of each year, the Executive Committee is authorized to take any necessary actions on any petitions and to approve the ballot.

REGIONS

SEC. 57—The United States shall be divided into seven (7) Regions, which shall be given consecutive numbers for identification, and the eighth (8th) Region shall be the Canadian Region.

Regions which fail to maintain reasonable activity may, at the discretion of the Board of Directors, be dissolved and the Sections may be absorbed into other Regions.

SEC. 58—The Regional Committee of each Region shall consist of at least the Regional Director, the junior past Regional Director, the Chairman of the Regional Subcommittee of the IRE Education Committee, and two representatives of each Section in the Region, one of these to be the Chairman of the Section, and the other to be appointed by the Executive Committee of the Section from among a group comprised of the junior past Chairman and the present elected officers of the Section. Each member of the Regional Committee shall be, ex-officio, a member of the Executive Committee of his own Section. In case of necessity, a Section may be represented at a Regional Committee meeting by alternates appointed by the Section Executive Committee.

SEC. 58-1—In addition to the duties specified in the Constitution, the Regional Committee shall be expected to participate in the development of the Institute by means of suggestions, on national matters, to the Board of Directors, and on Regional and Sectional matters, to the Sections comprising the Region.

SEC. 59—Pending installation of the first Regional Director of each Region, the chairman of the largest Section numerically in the Region shall act as chairman pro tem, and the chairman pro tem shall appoint a secretary-treasurer pro tem who shall act until the secretary-treasurer of the Regional Committee is appointed.

The Regional Director shall be chairman of the Regional Committee and shall appoint a vice chairman from the membership of the Committee. The chairman of the Regional Committee shall appoint a secretary-treasurer from members of the Region for a two year term concurrent with that of the chairman. The duties of the secretary-treasurer shall include correspondence, the keeping of the minutes of the committee meetings, mailing notices, handling of funds, the keeping of financial records and the submission of a report at the end of each year, and such other duties as are assigned to him by the chairman. The secretary-treasurer shall not be a voting member of the committee unless the optional provisions of Bylaws Section 58 are invoked.

SEC. 60—Each Regional Committee shall submit to the Board of Directors by May first of the Regional election year, the names of at least one qualified nominee for the office of Regional Director. To qualify, each candidate shall indicate to the Regional Committee his acceptance of the nomination.

SEC. 61—Each member of the Regional Committee shall be of Member, Special Member, Senior Member, or Fellow grade in the Institute. Vacancies, except for Regional Director, shall be filled by appointment by the Executive Committee of the Section in which the vacancy exists. The term of office shall be one year concurrent with the term of office of the Section officers.

SEC. 62—The Regional Committee shall hold at least one meeting per year. A quorum for the transaction of business at meetings of the Regional Committee shall consist of at least one-third of the members of the Committee or their alternates and shall include representatives from at least half the Sections in the Region. The chairman, or in the event of his unavailability, the vice chairman of the Regional Committee, shall be responsible for calling the necessary number of Regional Committee meetings.

SECTIONS

SEC. 63—A petition for the formation of a Section within the IRE Regional organization shall be signed by not fewer than twenty-five (25) members, other than Students, with mailing addresses within the territorial limits proposed in the petition.

A petition for the formation of a Section outside of the IRE Regional organization shall be signed by not fewer than ten (10) members, other than Students, with mailing addresses within the territorial limits proposed in the petition.

SEC. 64—The Executive Committee, upon receipt of a petition to form a Section, and after arranging for the territory to be encompassed by the New Section, may authorize its formation. After the Section is organized and a Constitution adopted, the Executive Committee may give tentative approval to its establishment pending submission to the Board of Directors for final approval.

SEC. 65—Each Section authorized by the Executive Committee, shall within not more than six months thereafter accept, and conform to a Constitution provided by the Executive Committee.

SEC. 66—No Section or any officer or representative thereof shall have any authority to contract debts for, pledge the credit of, or in any way bind, the Institute.

SEC. 67—Section Secretaries shall forward to the Secretary of the Institute a report of each meeting held by the Section and its Subsections for the presentation or discussion of papers, and at the end of each fiscal year, a financial statement for that fiscal year.

SEC. 68—Local non-compulsory financial contributions may be accepted by Sections.

SEC. 69—All Sections shall be exclusively those of the Institute. No joint Section shall be recognized. However, Sections of the Institute may cooperate with other organizations in the holding of joint meetings and may invite members of such organizations and the public to their meetings.

SEC. 70—Failure of a Section to maintain the following required activities shall place the Section on probation: the holding of at least five meetings each year; the maintenance by each Section within the IRE Regional organization of a minimum membership of twenty-five (25) members, other than Students; the maintenance by each Section outside of the IRE Regional organization of a minimum membership of ten (10) members, other than Students. All members of the Section shall be informed of the probation by the Secretary of the IRE, who shall also call to their attention the requirements for maintaining the Section.

If the delinquency continues for a second year, a second noti-

fication to the Section membership shall be made by the IRE Secretary, and the Board of Directors shall be informed of the probationary status of the Section.

If the delinquency continues for a third year, the Section shall, thereupon, automatically be dissolved. The Secretary shall so report to the Board of Directors and so inform the Section membership.

SEC. 70-1—For section maintenance, the Institute shall pay to each Section for each calendar year the following sums:

One dollar and ten cents ($1.10) for each member, except Students, up to and including seven hundred, and one dollar and twenty-five cents ($1.25) for each member, except Students, over seven hundred, and fifty cents ($.50) for each Affiliate of each and every Professional Group, with mailing addresses within the territory of the Section, on December 31 of the calendar year for which payment is made, plus ten dollars ($10) per meeting for not more than ten meetings of the Section within the calendar year.

SUBSECTIONS

SEC. 70-2—In conformance with the Constitution for Sections, Sections may establish Subsections, which shall be geographical subdivisions of such Sections, subject to the same limitations and control as the Section itself.

SEC. 70-3—For each Subsection which meets the following requirements, the Institute shall pay to the Section a meeting allowance of ten dollars ($10) per meeting up to a maximum of ten (10) meetings per year, during the time the Subsection remains in good standing according to the Constitution for Sections:

(a) Submission to Parent Section Executive Committee of a petition signed by twenty (20) or more members, other than Students, with mailing addresses within the proposed territory;

(b) Approval of the petition by the Parent Section Executive Committee;

(c) Notification of Institute Headquarters of these actions by Parent Section and its Executive Committee with a copy of the petition;

(d) Approval by the Executive Committee of the Institute.

PROFESSIONAL GROUPS

SEC. 70-A—A petition for the formation of a Professional Group shall be signed by not fewer than twenty-five (25) members, other than Students, and shall state the proposed field of interest.

SEC. 70-B—The IRE Executive Committee, upon receipt of a petition to form a Professional Group, may authorize its formation. After the Group is organized and a Constitution approved by the IRE Executive Committee, the Executive Committee may give final approval to its establishment.

SEC. 70-C—Each Professional Group authorized by the Executive Committee shall within not more than six months thereafter adopt and conform to a Constitution which shall have been submitted to and approved by the Executive Committee. A Group Constitution may be amended by the Group subject to the approval of the Executive Committee.

SEC. 70-D—All Professional Groups shall consist exclusively of members of the IRE and such Affiliates as may be recognized by the Executive Committee under the Bylaws. No joint Professional Groups shall be recognized. However, IRE Professional Groups may cooperate with other organizations in the holding of joint meetings and may invite members of such organizations and the public to their meetings.

SEC. 70-E—No Professional Group or any officer or representative thereof shall have any authority to contract debts for, pledge the credit of, or in any way bind, the Institute.

SEC. 70-F—A Professional Group may not charge dues. A Group may hold or join in holding conventions or conferences and may charge for registration; but a Group may not charge for registration at a meeting, conference, or convention which it operates as part of an IRE Section, Regional, or National meeting, conference or convention. A Group may, but only after approval of the IRE Executive Committee, make a charge for sending out notices to non-Group IRE members and to Group Affiliates to cover the extra expenses involved. A Group may raise revenues by other means approved by the Executive Committee.

SEC. 70-G—All members of the Institute may become members of Professional Groups in conformance with the respective Group Constitutions.

SEC. 70-H—All Professional Group meetings shall be open to all members of the IRE on an equal basis with Group members. Any IRE member or any Group Affiliate, upon payment of charges judged to be equitable by the IRE Executive Committee, shall receive any notices of meetings of any Group.

SEC. 70-I—All publications of Professional Groups, other than programs, notices, and the like, shall be subject to prior authorization of the IRE Executive Committee, and shall be made available to all IRE members or Group Affiliates on equitable bases approved by the Executive Committee.

SEC. 70-J—The Secretary-Treasurer of each Professional Group shall forward to the Secretary of the Institute a copy of each meeting notice of the Group, an annual report, and at the end of each Institute fiscal year a financial statement for that fiscal year.

SEC. 70-K—The Board of Directors may dissolve a Professional Group for any reason deemed sufficient by the Board of Directors.

STUDENT BRANCHES

SEC. 71—Upon receipt of a petition signed by a representative of the faculty and by fifteen (15) or more IRE members who are students in a school of recognized standing, the Executive Committee may authorize the establishment of an IRE Student Branch in that school.

Upon receipt of a petition signed by a representative of the faculty and by fifteen (15) or more IRE members who are students in a technical institute approved by the Executive Committee, the Executive Committee may authorize the establishment of an IRE Student Associate Branch in that school.

SEC. 72—Each IRE Student Branch and each IRE Student Associate Branch shall adopt and conform to a Constitution which shall have been submitted to, and approved by, the Executive Committee.

SEC. 73—The IRE, by action of the Executive Committee, may join with another national engineering or technical society to co-sponsor a Joint Student Branch in a school of recognized standing or a Joint Student Associate Branch in a technical institute approved by the Executive Committee. The petition for the establishment of the Branch must be signed by the IRE Representative, and by ten (10) or more national Student members of either society; at least twenty-five per cent (25%) of the petitioners must be IRE Student members.

SEC. 73-A—Each Joint Student Branch and each Joint Student Associate Branch shall adopt and conform to a constitution which shall have been submitted to, and approved by, both the IRE Executive Committee and the other co-sponsoring societies. At least the chairman and a corresponding secretary of each Joint Student Branch or Joint Student Associate Branch shall be members of the IRE.

SEC. 74—No IRE Student Branch, IRE Student Associate Branch, Joint Student Branch or Joint Student Associate Branch, or any officer or representative thereof shall have any authority to contract debts for, pledge the credit of, or in any way bind the IRE.

SEC. 75—Each IRE Student Branch, IRE Student Associate Branch, Joint Student Branch and Joint Student Associate Branch corresponding Secretary shall forward to the Secretary of the IRE a report of each meeting held by the Branch for the presentation or discussion of papers, and during June of each year, a financial statement for the preceding year.

SEC. 76—An IRE Student Branch, IRE Student Associate Branch, Joint Student Branch or Joint Student Associate Branch may collect dues from its members as provided in its constitution and, in addition, may accept local non-compulsory financial contributions.

SEC. 77—Failure of an IRE Student Branch or IRE Student Associate Branch to maintain a minimum of ten (10) IRE Student members and to hold at least three (3) meetings each year shall place the Branch on probation. All officers of the Branch

and the IRE Representative shall be informed of the probation by the Secretary of the IRE, who shall also call to their attention the requirements for maintaining the Branch. If the delinquency continues for a second year, the IRE sponsorship shall be withdrawn automatically. The IRE Secretary shall so report to the Board of Directors, and so inform the officers of the Branch and the IRE Representative.

Failure of a Joint Student Branch or Joint Student Associate Branch to maintain a minimum of ten (10) national Student members, of which at least twenty-five percent (25%) must be IRE Student members, and to hold at least three (3) meetings each year shall be reported by the Executive Secretary to the Executive Committee.

SEC. 78—For maintenance of an IRE or Joint Student Branch upon certification by the IRE Representative, or, in the event one has not been appointed, by a representative of the faculty, the IRE shall pay to each Branch upon request the sum of twenty-five dollars ($25) for any one school year; and shall pay to each Branch the sum of one dollar ($1) for each IRE Student member of the Branch as of November fifteenth of each year and the sum of fifty cents ($.50) for each additional IRE Student member of the Branch as of the following February first.

For maintenance of an IRE or Joint Student Associate Branch, upon certification by the IRE Representative, or, in the event one has not been appointed, by a representative of the faculty, the IRE shall pay to each Branch upon request the sum of fifteen dollars ($15) for any one school year; and shall pay to each Branch the sum of fifty cents ($.50) for each IRE Student member of the Branch as of November fifteenth of each year and the sum of twenty-five cents ($.25) for each additional IRE Student member of the Branch as of the following February first.

SEC. 79—The Board of Directors may dissolve an IRE Student Branch, or IRE Student Associate Branch or withdraw its sponsorship and support of a Joint Student Branch, or Joint Student Associate Branch for any reason deemed sufficient by the Board of Directors.

COMMITTEES

SEC. 80—The standing committees, each of which shall normally consist of five or more persons, shall include the following:

Admissions
Appointments
Awards
Awards Coordination
Constitution and Laws
Editorial Board
Education
Fellow
Finance
History
Nominations
Policy Advisory
Professional Groups
Tellers
Antennas and Waveguides
Audio Techniques
Circuits
Electroacoustics
Electron Tubes
Electronic Computers
Facsimile
Feedback Control Systems
Industrial Electronics
Information Theory and Modulation Systems
Measurements and Instrumentation
Medical Electronics
Mobile Communications Systems
Navigation Aids
Nuclear Techniques
Piezoelectric and Ferro-electric Crystals
Radio Frequency Interference
Radio Transmitters
Radio Receivers
Recording and Reproducing
Solid State Devices
Standards
Symbols
Television Systems
Video Techniques
Wave Propagation

On matters which are reasonably described by the committee names, these committees or boards shall be advisory to the Board of Directors, or the Executive Committee, whichever appoints them and directs their activities. Each committee or board shall have the power to create subcommittees of its own selection.

SEC. 81—The terms of appointments to the Admissions, Appointments, Awards, Awards Coordination, Constitution and Laws, Editorial Board, Education, Finance, History, Nominations, Policy Advisory, Professional Groups, and Tellers Committees shall start with the first day of the month following appointment and continue until the date the succeeding terms of appointments take effect. Appointments shall be made to the remaining standing committees each year between January first and May first, and the terms of appointment shall be from May first of the year when the appointments are made until April thirtieth of the following year; additional appointments may be made to fill vacancies or to care for special cases as the need arises, with the term of the appointment expiring April thirtieth.

SEC. 82—Deleted by Board of Directors, May 10, 1956.

SEC. 82-A—The Awards Committee shall be chosen from among Institute members of Fellow grade.

SEC. 83—The Committee on Professional Groups shall include the Chairman of each Professional Group, ex-officio.

SEC. 83-A—The Chairman of the Finance Committee shall be chosen from among the members of the Executive Committee.

SEC. 83-B—Deleted by Board of Directors, January 5, 1956.

SEC. 83-C—The Policy Advisory Committee shall consist of the two most recent Past Presidents of the IRE, Regional Directors serving the second year of their two-year terms, and Directors-at-large serving the second and third years of their three-year terms. In the event a Director is unable to serve out a term, his replacement on the Board of Directors shall also serve in his place on the Policy Advisory Committee. The Chairman of the Policy Advisory Committee shall be the Senior Past President serving on the Committee or, in the event of his inability to serve as such Chairman, the Junior Past President.

SEC. 83-D—The Editorial Board shall consist of the Editor as chairman, a vice chairman, the Managing Editor, and not less than three nor more than five other members.

SEC. 83-E—The Awards Coordination Committee shall consist of three members chosen, if possible, from among past chairmen of the Awards Committee.

SEC. 84—The Appointments Committee shall be appointed by the Board of Directors at its regular November meeting. Its membership shall be chosen from those members of the Board of Directors whose terms continue through the following year and from the new Directors-elect, and shall include the President-elect. At least fourteen days before the next annual meeting of the Board of Directors, the Appointments Committee shall mail to the members of the new Board of Directors, a list of candidates for the offices of Secretary, Treasurer, Editor, and Appointed Directors, and a list of candidates to fill vacancies that exist among the Chairmen and members of the Awards, Constitution and Laws, Executive, Nominations, Policy Advisory, Tellers Committees, and the Editorial Board.

SEC. 85—The Treasurer shall make a report to the Executive Committee semi-annually at the September and March Executive Committee meetings concerning the status of the Institute's investments. The Treasurer, before making changes in the Institute's portfolios, shall report the proposed changes to the Executive Committee and obtain its approval.

SEC. 86—The President is authorized to appoint as IRE Representatives, IRE members who are teachers of science or engineering at schools of recognized standing or at technical institutes approved by the Executive Committee. Each such IRE Representative is charged with promoting the welfare of the IRE at his school, particularly in matters relating to IRE Student membership.

SEC. 87—The Board of Directors may appoint or direct the appointment of representatives of the Institute on joint committees, boards, and other local, national, and international bodies.

PUBLICATIONS

SEC. 88—The Institute shall publish a periodical under the title, PROCEEDINGS OF THE IRE. The Board of Directors may establish additional publications either periodical or otherwise in character.

SEC. 89—The Executive Secretary is authorized to accept orders for IRE publications at prices to be determined from time to time by the Executive Committee.

SEC. 90—The price of a single annual subscription to the PROCEEDINGS OF THE IRE for a Fellow, Senior Member, Special Member, Member, or Associate shall be $9.00, to be included in his annual dues.

MEMBERSHIP LISTS
Including
BIOGRAPHIES OF FELLOWS
AND
AN ALPHABETICAL ROSTER
AND
A GEOGRAPHICAL LISTING

NOTE

In the following pages are set forth the names of the members of The Institute of Radio Engineers. These have been disposed under three headings, as follows:

Biographies of Fellows; a list of all Fellows, with a short biographical note on each.

Membership Roster; a complete listing of all members (not including Students) on record as of May 31, 1958; giving membership grades and business affiliations.

Geographical Listing of Membership; by states and foreign countries, and by cities within such areas; including a designation of the present grade of each member.

All listings include appointments and elections up to May 31, 1958.

In the Roster the following symbols indicative of grade are used, along with numerals indicating the year of admission to that grade:

(F) *Fellow*
(SM) *Senior Member*
(M) *Member*
(A) *Associate*
(VA) *Voting Associate.* Those who were Associates on or before March 1, 1939, automatically became Voting Associates as of that time.
(S) *Student*
(J) *Junior.* This grade no longer exists.

The Board of Directors waives the dues of all members who have attained the age of 65 years and who have been members of the IRE for 35 years. The following symbol is used to indicate this status:

(L) *Life Member*

BIOGRAPHIES OF FELLOWS*

(As of May 31, 1958)

ABRAHAM, Leonard G. (SM'46—F'57), Director, Transmission Engineering, Bell Telephone Laboratories, Inc., 463 West St., New York 14, N.Y.
Born: September, 1901, Watson, Ill. B.S.(E.E.), 1922, M.S. (E.E.), 1923, University of Illinois.

ACHESON, Marcus A. (A'36—M'37—F'41), Consulting Engineer, Sylvania Electric Products, Inc., 1740 Broadway, New York 19, N.Y.
Born: January 18, 1903, Denison Tex. B.S.(E.E.), 1924, Rice Institute. **Committees:** Editorial Reviewer, 1954–58; Papers, 1937, Papers Review, 1951–53.

ADAIR, George P. (A'42—SM'44—F'47), Consulting Radio Engineer, 1610 I St., N.W., Washington 6, D.C.
Born: December 8, 1903, Rancho, Tex. B.S.(E.E.), 1926, Agricultural and Mechanical College of Texas. **Sections:** Washington, *secretary, 1946; vice-chairman, 1947; chairman, 1948;* Mid-Atlantic Regional, *vice-chairman, 1948.* **Awards:** Life Honorary Member, International Municipal Signal Association, 1944.

ADLER, Robert (A'42—SM'47—F'51), Associate Director of Research, Zenith Radio Corporation, 6001 W. Dickens Ave., Chicago 39, Ill.
Born: December 4, 1913, Vienna, Austria. Ph.D., 1937, University of Vienna. **Committees:** Editorial Reviewer, 1954–58; Fellow, 1958; Modulation Systems, 1948–50.

AFFEL, Herman A. (A'14—M'40—SM'43—F'49), Assistant Vice-President, Bell Telephone Laboratories, Inc., Murray Hill, N.J.
Born: August, 1893, Brooklyn, N.Y. S.B., 1914, Massachusetts Institute of Technology. **Committees:** Editorial Reviewer, 1954–58; Meetings and Papers, 1930; New York Program, 1939–41, *chairman 1940;* Papers, 1931–45; Papers Review, 1946–56. **Awards:** Modern Pioneers Award, National Association of Manufacturers, 1940.

ALBERSHEIM, Walter J. (SM'48—F'57), Supervisor, Military Analysis Group, Bell Telephone Laboratories, Inc., Whippany, N.J.
Born: April 22, 1897, Cologne, Germany. E.E., 1922, Sc.D.(Eng.), 1924, Institute of Technology, Aachen, Germany. **Committees:** Papers, 1951–53; Editorial Reviewer, 1954–58. **Sections:** Monmouth County Subsection, Membership Committee, *chairman, 1949.* **Awards:** Journal Award, Society of Motion Picture Engineers.

ALBERT, Arthur L. (A'31—SM'47—F'50), Professor, Communication Engineering, Oregon State College, Corvallis, Ore.
Born: March 13, 1899, Forest Grove, Ore. B.S., 1923, M.S., 1926, E.E., 1938, Oregon State College. **Committees:** Membership, 1947–48. **IRE Representative:** Oregon State College, 1942–58. **Awards:** Fellow, AIEE, 1941.

ALEXANDER, Samuel N. (A'44—F'56), Chief, Data Processing Systems Division, National Bureau of Standards, Department of Commerce, Connecticut Ave. & Van Ness St., Washington 25, D.C.
Born: February 22, 1910, Wharton, Tex. A.B., B.S.(E.E. and Physics), 1931, University of Oklahoma; M.S.(E.E.), 1933, Massachusetts Institute of Technology. **Committees:** Electronic Computers, 1948–58, *chairman, 1954–55.* **Sections:** Washington, D.C., Electronic Computers Group, *chairman, 1954–55.* **Awards:** U. S. Department of Commerce Award for Exceptional Service, SEAC Staff, 1951; Silver Medal, Royal Academy of Engineering Sciences, Stockholm, 1956.

ALEXANDERSON, Ernest F. W. (A'13—M'13—F'15)(L), Retired. Consulting Engineer, 1132 Adams Rd., Schenectady, N.Y.
Born: January 25, 1878, Uppsala, Sweden. E.E., 1900, Royal Technical University; Sc.D., 1926, Union College; Ph.D., 1938, Uppsala University. Dr., Technology, 1948, Royal Technical University, Stockholm, Sweden. President, 1921; Vice-President, 1920; Manager, 1917–19. **IRE Offices:** Director, 1920–23. **Committees:** Meetings and Papers, 1928; Standardizaation, 1916–24; Wave Length Regulation, 1916–17, 1919–20. **Awards:** Gold Medal, IRE, 1920; John Ericsson Gold Medal, American Society of Swedish Engineers, 1928; Edison Medal, American Institute of Electrical Engineers, 1944; Cedergren Gold Medal, Royal Swedish Technical University, 1944; Valdemar Poulsen Gold Medal, Royal Danish Technical University, 1947.

ALFORD, Andrew (A'35—M'40—F'42), Owner, Andrew Alford Consulting Engineers, 299 Atlantic Ave., Boston 10, Mass.; President, Alford Manufacturing Company.
Born: August 5, 1904, Samara, Russia. A.B., 1924, University of California. **Committees:** Annual Review, 1944–46; Antennas, 1944–49, *chairman, 1944–46;* Papers Procurement, 1947–50; Radio Transmitters, 1944–45; Standards, 1944–45; Transmitters and Antennas, 1943–44. **Awards:** Presidential Certificate of Merit, 1948.

ALLEN, Edward W., Jr. (M'44—F'53), Chief Engineer, Federal Communications Commission, 13 St. & Pennsylvania Ave., Washington 25, D.C.
Born: February 14, 1903, Portsmouth, Va. E.E., 1925, University of Virginia; LL.B., 1933, George Washington University, **Committees:** Papers Review, 1946–49; Wave Propagation, 1948–56. **Professional Groups:** Administrative Committee, Broadcast Transmission Systems. **Awards:** IRE Harry Diamond Award, 1958.

ALMQUIST, Milton L. (A'43—SM'53—F'58), Director of Systems Engineering, Bell Telephone Laboratories, Inc., 463 West St., New York 14, N.Y.
Born: August 7, 1895, San Francisco, Calif. B.Sc.(E.E.), 1920, University of California. **Awards:** Army-Navy Certificate of Appreciation, 1948; Fellow, American Institute of Electrical Engineers, 1951.

ANDERSON, Clifford N. (A'19—F'34), Teaching Staff, Electrical Engineering, Cornell University, Ithaca, N.Y. Home: 133 Summit Ave., Summit, N.J.
Born: September 22, 1895, Scandinavia, Wis. Ph.B., 1919; M.S., 1920, University of Wisconsin. **Committees:** Admissions, 1930–31; New York Program, 1932; Papers Review, 1953; Sections, 1941–44; Tellers, 1932–33.

ANDERSON, Earl I. (M'40—SM'43—F'54), Engineer-in-Charge, Industry Service Laboratory, RCA Laboratories Division, 155 E. 24 St., New York 10, N.Y.
Born: April 19, 1907, Chicago, Ill. **Professional Groups:** Broadcast and Television Receivers, *vice-chairman, 1952–53; chairman, 1954–55,* Editor of *Transactions,* 1957–58.

ANDREW, Victor J. (A'25—M'40—SM'43—F'55), Chairman Board of Directors, Andrew Corporation, 363 E. 75 St., Chicago 19, Ill.
Born: August 31, 1902, Medina County, Ohio. B.S., 1926, College of Wooster; M.S., 1928, Ph.D., 1932, Univesrirty of Chicago; D.S. (Honorary), 1949, College of Wooster. **Committees:** Mem-

* In listing membership on committees, years during which members served as chairmen or as other officers are indicated by italics.

bership, 1942–44; Sections, 1940. **Sections:** Chicago, *secretary, 1937–38; chairman, 1939–40.*

ANKENBRANDT, Francis L. (SM'50—F'57), Major General, USAF, Retired. Manager, Defense Projects, Radio Corporation of America, Front & Cooper Sts., Camden, N.J.
Born: January 27, 1904, Chicago, Ill. B.S., 1926, U. S. Military Academy: M.S., 1927, Yale University. **Professional Groups:** Administrative Committee, Military Electronics, 1956–58.

ANTON, Nicholas G. (M'44—SM'44—F'56), President, Director of Research & Engineering, Anton Electronics Laboratories, Inc., 1226–1238 Flushing Ave., Brooklyn 37, N.Y.
Born: December 14, 1906, Trieste, Italy. Graduate of the Technical Institute Leonardo da Vinci; Columbia University, 1925-26. **IRE Representative:** RETMA Nuclear Instrumentation and Control Committee, *chairman;* Advisory Nuclear Instrumentation Committee to the Federal Civil Defense Administration, *chairman;* Nuclear Instrumentation Manufacturers' Council of The Atomic Industrial Forum, *chairman.*

ARNAUD, Jean P. (A'35—M'40—SM'43), Systems Engineer, RCA International, Clarktownship, N.J.
Born: September 1, 1905, London, England, E.E., 1929, University of Buenos Aires. **Sections:** Buenos Aires, *vice-chairman, 1941, chairman, 1942, 1949.* **IRE Representative:** La Plata, 1942.

ASHBRIDGE, Sir Noel (F'38), Director, Marconi's Wireless Telegraph Company, Ltd., Marconi House, Strand, London, W.C. 2, England.
Born: December 10, 1889, Wanstead, Essex, England. B.Sc. (Engineering), 1911, King's College, London University. **IRE Offices:** Vice-President, 1947; Director, 1947. **Awards:** Fellow of King's College, London; Knight of Royal Order of Dannebrog (Danish), 1934; Knighted, 1935; James Watt Medal, The Institution of Civil Engineers, 1937. President, The Institution of Electrical Engineers, 1941–42; Honorary Member, 1957; President, Junior Institution of Engineers, 1949–50; MICE; MIEE.

ASHBY, Robert M. (SM'51—F'55), Chief Engineer, Autonetics Div., North American Aviation, Inc., Downey, Calif.
Born: May 9, 1912, American Fort, Utah. B.A., 1934, M.A., 1939. Brigham Young University; Ph.D., 1942, University of Wisconsin. **Sections:** Pasadena, Subsection, *chairman, 1956.*

ASTIN, Allen V. (SM'50—F'54), Director, National Bureau of Standards, Washington 25, D.C.
Born: June 12, 1904, Salt Lake City, Utah. B.S., 1925, University of Utah; M.S. in Physics, 1926; Ph.D. in Physics, 1928, New York University; Sc.D. (Honorary), 1953, Lehigh University. **Awards:** Exceptional Service Award, Dept. of Commerce, 1952; President's Certificate of Merit, 1948.

AUERBACH, Isaac L. (S'46—M'49—SM'52—F'58), President, Auerbach Electronics Corporation, 109 N. Essex Ave., Narberth, Pa.
Born: October, 1921, Philadelphia, Pa. B.S.(E.E.), 1943, Drexel Institute of Technology; M.Sc.(Physics), 1947, Harvard University. **Committees:** National Convention Program, 1954. **Sections:** Philadelphia, *treasurer, 1955–56; secretary, 1956–57; vice-chairman, 1957–58.* **Professional Groups:** Electronic Computers, Philadelphia Chapter, *chairman, 1952–53;* National Membership, *chairman, 1953;* Administrative Committee, 1954–57. **IRE Representative:** JCC Technical Program Committee, 1957; UNESCO, First International Conference on Information Processing, 1959.

AUSTIN, Arthur O. (F'30), Manufacturing Electrical Engineer, P.O. Box 109, Barberton, Ohio.
Born: December 28, 1879, Stockton, Calif. A.B., 1903, Stanford University.

AVINS, Jack (A'39—SM'49—F'57), Section Engineer, RCA Laboratories, 155 E. 24 St., New York 10, N.Y.
Born: March 1911, New York, N.Y. A.B., 1932, Columbia University; M.E.E., 1949, Brooklyn Polytechnic Institute. **Committees:** Fellow, 1958; Receivers, 1948–54, 1957–58; *chairman, 1955;* Standards, 1951–55; 1957–58 Subcommittee on Intercarrier Sound TV Receivers, *chairman, 1949–50;* TV Receiver Standards, chairman, Ad Hoc, 1957–58. **IRE Representative:** ASA Sectional Committee (C16) on Radio, 1953–55; Chief Delegate (C12–1) International Electrotechnical Commission, 1956.

BACHMAN, Charles H. (S'32—A'35—VA'39—SM'54—F'55), Professor of Physics, Physics Dept., Steele Hall, Syracuse University, Syracuse, N.Y.
Born: December 8, 1908, Cedar Falls, Iowa. B.S.(E.E.), 1932, M.S., 1933, Ph.D., 1935, Iowa State College.

BACHMAN, William S. (S'32—A'36—M'45—SM'54—F'56), Director, Engineering & Development, Columbia Records, Inc., 799 7 Ave., New York 19, N.Y.
Born: October 29, 1908, Williamsport, Pa. E.E., 1932, Cornell University. **Committees:** Board of Editors, 1950–53; Editorial Reviewer, 1954–58. **Awards:** Emil Berliner Award, Audio Engineering Society, 1955.

BACK, George I. (SM'53—F'55), Major General, U. S. Army, Retired. 6211 3rd St., S., St. Petersburg 5, Fla. Assistant to the President, International Resistance Company, 401 N. Broad, Philadelphia, Pa.
Born: February 25, 1894, Sioux City, Iowa. B.A., 1921, Morningside College; Post Graduate Communications Engineering Course, 1920–21, Yale University; Signal School, 1934, U. S. Army; Command and General Staff College, 1939, U. S. Army. **Awards:** Honorary Life Member, Armed Forces Communications Electronics Assn., 1951; Silver Medal Award, Poor Richards Club, 1953. U. S. Army Decorations: Legion of Merit, 1944; Distinguished Service Medal with Oak Leaf Cluster, 1945, 1951; Commendation Ribbon, 1947; Air Medal, 1951; Silver Star, 1951. Foreign Decorations: Brazilian War Medal, 1945; Commander of the Order of the Crown of Italy, 1945; Commander of the Order of the British Empire, 1946; Cross of the Senior Knight Commanders of the Order of Phoenix (Greece), 1952.

BAILEY, Austin (A'25—M'25—F'36), Consulting Engineer, 193 Sagamore Rd., Maplewood, N.J.
Born: June 9, 1893, Lawrence, Kan. A.B., 1915, University of Kansas; Ph.D., 1920, Cornell University. **IRE Offices:** Director, 1940–42. **Committees:** Admissions, 1934, *chairman, 1935;* Awards, 1945, 1949; Constitution and Laws, 1932–34, 1936–42, 1944–45, *chairman, 1942;* Convention Policy, 1947–50; Membership, 1941; National Convention, 1947–49; New York Program, 1930–34, 1937–40, *chairman, 1931, 1938;* Professional Groups, 1952–53, *vice-chairman, 1952;* Sections, 1929–33, *chairman, 1930;* Tellers, *chairman, 1939–40;* Winter Technical Meeting, *chairman, 1945–46.* **Professional Groups:** Vehicular Communications, Administrative Committee 1949–57, *chairman, 1950–51.* **IRE Representative:** ASA Sectional Committee on Graphic Symbols and Designations, 1940–58; ASA Sectional Committee (Y14) on Standards for Drawings and Drafting Room Practices, 1940–50, 1951–58; U. S. National Committee, IEC, Advisers on Symbols, 1952-57.

BAILEY, George W. (A'38—SM'46—F'56), Executive Secretary, Institute of Radio Engineers, Inc., 1 E. 79 St., New York 21, N.Y.
Born: May, 1887, Quincy, Mass. A.B., 1907, Harvard University. **IRE Offices:** Executive Secretary, 1945–. **Committees:** IRE National Convention, *chairman, 1948–58;* Military Liaison, *chairman;* Constitution and Laws, 1946–47; Office Quarters, 1947; Public Relations, 1945–48. **IRE Representative:** ASA Conference of Executives of Organization Members, 1954–58; ASA Conference of Staff Executives, 1949–51. **Awards:** Marconi Medal for Service, Veteran Wireless Operators Association, 1944; President's Certificate of Merit, 1946; Edison Award Citation, 1957.

BAILEY, Stuart L. (A'28—M'36—SM'43—F'43), President, Jansky and Bailey, Inc., 1339 Wisconsin Ave., N.W., Washington 7, D.C.
Born: October 7, 1905, Minneapolis, Minn. B.S.(E.E.), 1927,

M.S., 1928, University of Minnesota. **IRE Offices:** President, 1949; Treasurer, 1948; Director, 1943–55. **Committees:** Admissions, 1943–44; Appointments, 1948; Awards, 1950–52; Broadcasting, 1931–32, 1934–35; *alternate, 1931–32;* Constitution and Laws, 1944, 1948, 1954–58; Executive, 1945–54, *vice-chairman, 1948, chairman, 1949;* Finance, 1948, 1950–51, 1953–54; National Convention, 1947–48, 1953–55, *vice-chairman, 1953–57;* Nominations, 1946–52, 1956–57, *chairman, 1946;* Office Practices, 1947; Planning, 1947; Policy Development, 1948, 1951; Professional Groups, 1950; Public Relations, 1945–46, 1950, *alternate, 1945–46; 1950;* Radio Wave Propagation, 1942–46; Radio Wave Propagation and Utilization, 1945–48; Sections, 1946–47; Special Publication Fund, 1947; Wave Propagation, 1937–42, 1948–55; Winter Technical Meeting, 1946. **IRE Representative:** ASA Sectional Committee (16) on Radio, *chairman, 1953–54;* Executive Council Central Radio Propagation Laboratory, 1949–51; International Scientific Radio Union (URSI) Executive Committee, 1951–58; IRE-RMA Coordination Committee, 1949–50; Joint IRE-AIEE Coordination Committee, 1950–54; IRE Advisory Committee to National Bureau of Standards for Central Radio Propagation Laboratory, 1954–56; Joint Technical Advisory Committee, 1940, 1950; National Bureau of Standards Technical Advisory Committee, 1958; RMA-IRE Problem No. 2, 1949–50; U.S.A. National Committee, URSI, 1949–57.

BAILEY, William F. (S'33—A'36—VA'39—SM'51—F'54), Assistant Director of Research, Hazeltine Research Corporation, 59–25 Little Neck Pkwy., Little Neck 62, L.I., N.Y.
Born: May 4, 1911, Buffalo, N.Y. M.E., 1933, M.S., 1941, Stevens Institute of Technology. **Committees:** Television, 1946–49; Television Systems, 1949, *vice-chairman,* 1955–58; Tellers, 1953–55, *chairman,* 1954. **Sections:** Long Island, *chairman, 1954–55.*

BAKER, W. R. G. (A'19—F'28)(L), Vice-President & General Manager, Electronics Division, General Electric Company, Syracuse 1, N.Y.
Born: November 30, 1892, Lockport, N.Y. B.E., 1916, M.E.E., 1918, D.S. (Honorary), 1935, Union College; Dr. Engineering (Honorary), 1951, Syracuse University; Dr. Engineering (Honorary), 1955, Polytechnic Institute of Brooklyn. **IRE Offices:** President, 1947; Board of Directors, 1940, 1946–58; Treasurer, 1951–58; Standards Coordinator, 1948–50. **Committees:** Admissions, 1941; Annual Review, 1948–49; Appointments, 1948; Awards, 1940; Broadcasting, 1935, 1948–50, *vice-chairman, 1951;* Executive, 1947–58, *chairman, 1947; vice-chairman, 1951–57;* Finance, *chairman, 1948–57, treasurer, 1958.* Meetings and Papers, 1926, 1928–29, *alternate, 1928;* Membership, 1928; Nominations, 1930, 1948; Nuclear Studies, 1947–49; *chairman, 1947–48;* Policy Development, 1948; Preparedness, 1940–41; Professional Groups, *chairman, 1950–58;* Public Relations, 1950; Sections, 1931–32; Standardization, 1925–26; Standards, 1938–41, 1948–50; **Sections:** Connecticut Valley, *secretary, 1938–40;* Philadelphia, *chairman, 1930–31.* **IRE Representative:** ASME Glossary Review Board, 1948–52. **Awards:** IRE Founders' Award, 1958.

BALDWIN, Millard W., Jr. (A'40—SM'45—F'48), Research Engineer, Bell Telephone Laboratories, Inc., Murray Hill, N.J.
Born: December, 1902, Port Ewen, N.Y. E.E., 1925, Cornell University; M.A., 1928, Columbia University. **Committees:** Facsimile, 1941–42; Standards, 1949–58, *vice-chairman, 1951–56, chairman, 1956–58;* Television Systems, 1949–58; Video Techniques, 1949–52. **IRE Representative:** ASA Electrical Standards Board, 1957–58; ASA Sectional Committee (C16) on Radio, 1956–58; ASA Sectional Committee (C42) on Definitions of Electrical Terms, 1951–58; International Radio Consultative Committee: Executive Committee of U. S. Delegation, Study Group XIV (Vocabulary), *alternate, 1952;* Joint IRE-RTMA-SMPTE-NARTB Committee for Inter-Society Co-ordination, *alternate, 1952–58.*

BALLARD, B. Guy (SM'47—F'55), Vice-President (Scientific & Director), Radio & Electrical Engineering Division, National Research Council, Ottawa 2, Ont., Canada.
Born: June 19, 1902, Fort Stewart, Ont., Canada. B.Sc., 1924, D.Sc., 1956, Queen's University. **Awards:** Order of the British Empire, 1946; Ross Medal, Engineering Institute of Canada, 1949.

BARCO, Allen A. (A'40—SM'45—F'57), Director, Systems Research Laboratory, RCA Laboratories, Princeton, N.J.
Born: March, 1916, St. Louis, Mo. B.S.(E.E.), 1937, Washington University.

BARKLEY, William J. (M'29—SM'43—F'56)(L), Consultant, Vice-President, Tele-Broadcasters, 41 E. 42 St., New York 17, N.Y.
Born: April 25, 1889, Leominster, Mass. **Committees:** Public Relations, 1949–50.

BARLOW, Harold M. (SM'54—F'56), Pender Professor of Electrical Engineering, University College, University of London, Gower St., London, England.
Born: November 15, 1899, London, England. B.Sc. (Engineering), 1922, Ph.D.(Science), 1924, University of London. **Awards:** Kelvin Premium, Fleming Premium and Extra Premiums of Institution of Electrical Engineers, 1930, 1952, 1954, 1957.

BARNES, John L. (A'27—SM'44—F'52), Dr. President, Systems Corporation of America, Los Angeles 24, Calif. Professor of Engineering, University of California, Los Angeles 24, Calif.
Born: October 16, 1906, Haddonfield, N.J. B.S.(E.E.), 1928, M.S.(E.E.), 1929, Massachusetts Institute of Technology; M.A., 1930; Ph.D., 1934, Princeton University. **Committees:** Papers Review, 1948–50; Radio Wave Propagation, 1942–46. **Professional Groups:** Circuit Theory, Administrative Committee, 1952–55. **IRE Representative:** Tufts College, 1941–42.

BARROW, Wilmer L. (A'28—VA'39—M'40—F'41), Vice-President for Research & Development, Sperry Gyroscope Company, Great Neck, L.I., N.Y.
Born: October, 1903, Baton Rouge, La. M.S., 1929, Massachusetts Institute of Technology: Sc.D., 1931, Technische Hochschule, Munich, Germany. **IRE Offices:** Director, 1943–45. **Committees:** Antennas, 1945–48; Awards, 1944–45, 1948–49; Board of Editors, 1946–53; Constitution and Laws, 1943–44; Editorial Reviewer, 1954–56; Executive, 1945; Nominations, 1943, 1949–50; Papers, 1941–45; Papers Procurement, 1942–43; Professional Groups, 1948; Regular Papers, 1941; Research, 1946–47, 1949–50; Standards, 1938–42; Wave Guides, 1943–44; Wave Propagation, 1941–42. **Sections:** Boston, *chairman, 1939–41.* **IRE Representative:** Radio Technical Planning Board, 1944–46, *alternate, 1944–45;* RMA-IRE Co-ordinating, 1948. **Awards:** IRE Morris Liebmann Memorial Prize,, 1943.

BARTON, F. Sherbrooke (F'35), Chief Scientific Officer, Ministry of Supply, Shell Mex House, Strand, London, W.C. 2, England. Defense Supply Advisor, United Kingdom High Commissioner, Ottawa, Ont., Canada.
Born: May 13, 1895, Nottingham, England. M.A., 1920, University of Cambridge; B.Sc., 1920, University of London. **IRE Offices:** Vice-President, 1943; Director, 1943. **Committees:** IRE-IEE International Liaison, 1947, 1955–58. **Awards:** Fellow, Institute of Physics; Commander of the Order of the British Empire.

BARTON, Loy E. (M'29—SM'43—F'56), Radio Research Engineer, RCA Laboratories, Princeton, N.J.
Born: November 7, 1897, Fayetteville, Ark. B.E.E., 1921, E.E., 1925, University of Arkansas. **Awards:** Distinguished Alumnus Citation, University of Arkansas, 1947.

BATCHELDER, Laurence (A'29—SM'47—F'57), Staff Engineer, Raytheon Manufacturing Company, Wayland, Mass.
Born: October, 1906, Cambridge, Mass. A.B., 1928, M.S., 1929, Harvard University. **Professional Groups:** Ultrasonics Engineering, Administrative Committee, 1956–59; *vice-chairman, 1957–58.* **Awards:** Fellow, Acoustical Society of America.

BATCHER, Ralph R. (J'16—A'18—M'22—SM'43—F'50), Electronics Consultant, Automatic Processes, 240-02 42 Ave., Douglaston, L.I., N.Y.
Born: June, 1897, Dysart, Iowa. B.S.(E.E.), 1920, Iowa State College. **Committees:** Annual Review, *chairman, 1949–53;* Board of Editors, 1928–53; Meetings and Papers, 1927–29; Public Re-

lations, *chairman, 1950–51;* Standards, 1949–54; Symbols, 1940–48; Television, 1939–42; Television and Facsimile, 1937–39. **Professional Groups:** Production Techniques, *chairman, 1954–57.* **IRE Representative:** ASA Sectional Committee (C16) on Radio, 1951–52, *secretary, 1952.*

BATSEL, Max C. (A'21—F'27), Chief Technical Administrator, Defense Electronic Products, Radio Corporation of America, Front and Cooper Sts., Camden, N.J.
Born: June 16, 1894, Fulton, Ky. B.M.E., 1915, University of Kentucky. **IRE Offices:** Director, 1933. **Committees:** Bibliography, 1930–32; Meetings and Papers, 1928–29; Membership, 1926–27; New York Program, 1931–33; Radio Receivers, 1927–28; Standardization, 1925–26, 1927–31; Use of Transmission Unit, 1928–29; Professional Groups, 1956. **Professional Groups:** Engineering Management, 1952–55; *vice-chairman, 1954–55, chairman, 1955–56;* Administrative Committee, 1955–58.

BAUER, Benjamin B. (S'27—A'39—SM'44—F'53), Section Head, Audio and Acoustics, CBS Laboratories, 485 Madison Ave., New York 22, N.Y.
Born: June 26, 1913, Odessa, Russia. E.E., 1937, University of Cincinnati. **Committees:** Audio Techniques, 1958, Awards, 1955; Board of Editors, 1950–53; Editorial Reviewer, 1954–58; Electroacoustics, 1945–58, *vice-chairman, 1949–53, chairman, 1953–54, vice-chairman, 1954–55;* Papers Procurement, 1947–50; Professional Groups, 1952–53; Standards, 1954–56. **Professional Groups:** Audio, *vice-chairman, 1950, chairman, 1951–52, secretary, 1958;* Editor of *Transactions, 1952,* Associate Editor, *1953–58, secretary, 1953–58.* **Awards:** Fellow, Acoustical Society of America; Fellow, Audio Engineering Society; Eta Kappa Nu Honorable Mention Award, 1946; IRE Professional Group on Audio Achievement Award, 1955.

BAYLY, Benjamin deF. (M'43—SM'43—F'47), President Bayly Engineering, Ltd., Ajax, Ont., Canada.
Born: June, 1903, London, Ont., Canada. B.A.Sc., 1930, University of Toronto, Professor, University of Toronto, 1930–51. **Committees:** Awards, 1940; Papers Review, 1947–49. **Sections:** Toronto, *chairman, 1936–37.* **IRE Representative:** University of Toronto, 1941–42. **Awards:** Member of the Order of the British Empire, 1946.

BEAM, Robert E. (S'37—A'41—SM'44—F'56), Professor of Electrical Engineering, Northwestern University, Evanston, Ill.
Born: July 11, 1914, Cambridge, Ohio. B.E.E., 1937, Ohio State University; Ph.D., 1940, Iowa State College. **Committees:** Education, 1945–51; Membership, 1947–48; Policy Development, 1949–50. **Professional Groups:** Administrative Committee, Microwave Theory and Techniques, 1954–58. **IRE Representative:** Northwestern University, 1945–47; Southern Methodist University, 1941–45.

BECK, Alfred C. (A'30—SM'46—F'58), Member Technical Staff, Bell Telephone Laboratories, Inc., P.O. Box 107, Red Bank, N.J.
Born: July 26, 1905, Granville, N.Y. E.E., 1927, Rensselaer Polytechnic Institute. **Sections:** New York, *chairman, 1955–56.* **Professional Groups:** Administrative Committee. Microwave Theory and Techniques, *chairman, 1955–56;* Administrative Committee, 1954–58.

BEDFORD, Alda V. (A'31—SM'46—F'50), Research Engineer, RCA Laboratories Division, Radio Corporation of America, Princeton, N.J.
Born: January, 1904, Winters, Tex. B.S.(E.E.), 1925, University of Texas; M.S.(E.E.), 1929, Union College. **Sections:** Princeton Subsection, *Secretary-treasurer, 1946, vice-chairman, 1947, chairman, 1948.* **Awards:** Modern Pioneer Award, National Association of Manufacturers, 1940; Incentive Awards, RCA Laboratories, 1949, 1951; IRE Vladimir K. Zworykin Television Prize, 1954.

BEDFORD, Leslie H. (M'34—SM'43—F'48), Chief Television Engineer, Marconi's Wireless Telegraph Company, Ltd., Chelmsford, Essex, England.
Born: June 23, 1900, London, England. B.Sc., 1919, B.Sc. (Engineering), 1921, University of London; M.A., 1924, Cambridge University. **Awards:** IEE Premium, Institute of Electrical Engineers, London, 1934; Officer of the Order of the British Empire, 1943.

BEERS, George L. (A'27—M'29—SM'43—F'47), Radio Corporation of America, Camden, N.J.
Born: May 13, 1899, Indiana, Pa. B.S.(E.E.), 1921, Sc.D. (Honorary), 1947, Gettysburg College. **Committees:** Papers Procurement, 1946; Radio Receivers, 1942–49; Receivers, 1949–51. **Awards:** Modern Pioneer Award, National Association of Manufacturers, 1940; Fellow, Society of Motion Picture and Television Engineers.

BEGGS, James E. (SM'52—F'56), Electronic Engineer, General Electric Research Laboratory, P.O. Box 1088, Schenectady, N.Y.
Born: May 9, 1908, Omaha, Neb. B.S.(E.E.), 1931, Purdue University. **Awards:** Certificate of Commendation, U. S. Navy Bureau of Ships, 1947.

BEGUN, S. J. (S'46—F'52), Director of Marketing, Clevite Corporation, 1700 St. Clair Ave., Cleveland 10, Ohio.
Born: December 2, 1905, Danzig, Germany. M.S., 1929, Ph.D. (Engineering), 1933, Institute of Technology, Berlin, Germany. **Committees:** Audio and Video Techniques, 1948–49; Electroacoustics, 1941–50; Sound Recording and Reproducing Technique, 1950–57, *chairman, 1950–51;* Standards, 1949–50. **Sections:** Cleveland, *vice-chairman, 1952–53; chairman, 1953–54.* **Professional Groups:** Audio, Administrative Committee, 1956–59. **IRE Representative:** ASA Sectional Committee (Z57) on Standards for Sound Recording, 1948–50.

BELL, John W. (M'46—F'53), Vice-President, Engineering, Canadian Aviation Electronics, Ltd., Montreal, P.Q., Canada.
Born: September 2, 1911, Toronto, Ont., Canada. B.A.Sc., 1933, University of Toronto. **Awards:** Member of the Order of the British Empire, 1943.

BENNETT, Ralph D. (SM'44—F'52), General Electric Vallecitos Atomic Laboratory, P.O. Box 846, Vallecitos Rd., Pleasanton, Calif.
Born: June 30, 1900, Williamson, N.Y. B.S., 1921, M.S., 1923, Union College; Ph.D. (Physics), 1925, University of Chicago; Sc.D. (Honorary), 1945, Union College. **IRE Offices:** Director, 1953. **Committees:** Awards, 1954–55.

BENNETT, Rawson (A'36—M'43—SM'43—F'50), Rear Admiral, United States Navy, Chief of Naval Research, Navy Department, Washington 25, D.C.
Born: June, 1905, Chicago, Ill. B.S., 1927, United States Naval Academy; M.S., 1937; University of California. **Sections:** San Diego, *chairman, 1947.* **Awards:** Fellow, Acoustical Society of America, 1947.

BENNETT, William R. (SM'45—F'56), Technical Program Coordinator, Bell Telephone Laboratories, Inc., Murray Hill, N.J.
Born: June 5, 1904, Des Moines, Iowa. B.S., 1925, Oregon State College; M.A., 1928, Ph.D., 1949, Columbia University. **Committees:** Circuits, 1949–58, *vice-chairman, 1951–53, chairman, 1953–56;* Information Theory and Modulation Systems, 1952–58; Papers Review, 1951–52; Standards, 1953–58. **Professional Groups:** Circuit Theory, Administrative Committee. 1956–58, Editor of *Transactions, 1957–58.*

BERANEK, Leo L. (S'36—A'41—SM'45—F'52), President, Bolt, Beranek & Newman, Inc., Consultants in Acoustics, 50 Moulton St., Cambridge 38, Mass.; Associate Professor of Communication Engineering, Massachusetts Institute of Technology, Cambridge 39, Mass.
Born: September 15, 1914, Solon, Iowa. B.A., 1936, D.Sc. (Honorary), 1946, Cornell College; M.S., 1937, D.Sc., 1940, Harvard University. **Committees:** Audio Techniques, 1949–51; Editorial Reviewer, 1954–58; National Convention, 1947; Professional Groups, 1948, 1951. **Professional Groups:** Audio, 1949–52, *chairman, 1949–51.*

BERESKIN, Alexander B. (A'41—M'44—SM'46—F'58), Professor of Electrical Engineering, University of Cincinnati, Cincinnati 21, Ohio.
Born: November 15, 1912, San Francisco, Calif. M.Sc.(Eng.), 1941, E.E., 1935, University of Cincinnati. **Committees:** Education, 1955–58; Sections, 1952. **Sections:** Cincinnati, *vice-chairman, 1949–50; chairman, 1950–51.* **Professional Groups:** Audio, Administrative Committee, 1956–59; Editor of *Transactions,* 1957–58. **IRE Representative:** University of Cincinnati, 1947–58.

BERKNER, Lloyd V. (A'26—M'34—SM'43—F'47), President, Associated Universities, Inc., 10 Columbus Circle, New York 19, N.Y.
Born: February 1, 1905, Milwaukee, Wis. B.S.(E.E.), 1927, University of Minnesota; D.Sc.(Honorary), 1955, Brooklyn Polytechnic Institute; D.Sc. (Honorary), 1957, University of Calcutta, Calcutta, India; Ph.D. (Honorary), 1956, Uppsala University Uppsala, Sweden. **Committees:** Board of Editors, 1941–42; Editorial Reviewer, 1954–55; Papers, 1941; Professional Groups, 1954; Wave Propagation, 1937–42; Editorial Reviewer, 1955. **Professional Groups:** American Geophysical Union, *vice-president;* International Council of Scientific Unions, *president;* International Scientific Radio Union, *vice-president 1954–57; President, 1957;* Nuclear Science, Administrative Committee, *chairman, 1953.* **IRE Representative:** Joint Technical Advisory, 1952–54, *vice-chairman, 1953, chairman, 1954.* **Awards:** Special Gold Medal of Congress, Silver Medal of the Aeronautical Institute, Gold Medal of the City of New York for Work on the Byrd Antarctic Expedition, 1930; Science Award, Washington Academy of Science, 1941; Legion of Merit, 1946; Honorary Officer, Order of the British Empire; Member, National Academy of Science; Fellow, American Institute of Electrical Engineers; Fellow, American Physical Society.

BEVERAGE, Harold H. (A'15—M'26—F'28), Chief Technical Advisor, Communications. RCA Laboratories, Rocky Point, L.I., N.Y.
Born: October 14, 1893, North Haven, Me. B.S., 1915, D.E., 1938, University of Maine. **IRE Offices:** President, 1937; Director, 1936–39. **Committees:** Admissions, 1936, 1939, 1941–47; Awards, 1938–39, *chairman, 1938;* Board of Editors, 1932–37; New York Program, 1932–35; Nominations, 1942–43, *chairman, 1942;* Standards, 1934–35; Standardization, 1930–31. **Awards:** Armstrong Medal, Radio Club of America, 1938; IRE Medal of Honor, 1945; IRE Morris Liebmann Memorial Prize, 1923; President's Certificate of Merit, 1948; Signal Corps Certificate of Appreciation, 1944.

BINGLEY, Frank James (A'34—M'36—SM'43—F'50), Television Research Engineer, Philco Corporation, C & Tioga Sts., Philadelphia 34, Pa.
Born: November 13, 1906, Bedford, Bedfordshire, England, B.Sc. (mathematics), 1926, B.Sc. (physics), 1927, University of London. **Committees:** Admissions, 1940, 1943; Awards, 1957; Fellow, 1958; Editorial Reviewer, 1954–58; Papers Review, 1946–53. **Awards:** Gold Medal, Television Broadcasters' Association, IRE Vladimir K. Zworykin Television Award, 1956.

BISHOP, Sir Harold (F'38), Director of Engineering, British Broadcasting Corporation, Broadcasting House, London, W.1., England.
Born: October 29, 1900, London, England. City and Guilds College (Imperial College of Science and Technology), 1917–20; B.Sc. (Engineering), University of London, 1920. **Awards:** Institution Premium, Institution of Electrical Engineers, 1935; Commander of the Order of the British Empire, 1938; Fellow, The City and Guilds Institute, 1947; Institution of Electrical Engineers, Vice-President, 1948–53; President, 1953–54; Honorary Fellow, Imperial College of Science & Technology, 1954; Knight Bachelor, 1955; President, Association of Supervising Electrical Engineers, 1956–58.

BLACK, Harold S. (M'42—SM'43—F'48), Research Engineer, Bell Telephone Laboratories, Inc., Murray Hill, N.J.
Born: April 14, 1898, Leominster, Mass. B.S., 1921, Eng.D. (Honorary), 1955, Worcester Polytechnic Institute. **Committees:** Administrative, Board of Editors, 1951–53; Annual Review, 1948–49; Awards, 1948; Board of Editors, 1949–53; Editorial Administrative, 1948–50; Editorial Reviewer, 1957–58; Education, 1948; Frequency Modulation, 1946–47; Modulation Systems, 1947–50, *chairman, 1948–50;* Papers Review, 1947–48; Standards, 1948–50. **Awards:** Best Paper Prize, AIEE, 1934; Modern Pioneer Award, National Association of Manufacturers, 1940; John Price Wetherill Medal. The Franklin Institute, 1941; Certificate of Appreciation, U. S. War Department, 1946; Research Corporation Annual Award for Contribution to Science, 1952; Honorary Member, Audio Engineering Society, 1954; Fellow, AIEE; Fellow, American Association for the Advancement of Science.

BLACK, Knox Charlton (M'29—SM'43—F'49), Scientific Advisor to SACEUR, SHAPE, Paris, France.
Born: April 23, 1905, Cambridge, Mass. A.B., 1924, A.M., 1926, Ph.D., 1927, Harvard University. **IRE Offices:** Director, 1952. **Committees:** Awards, 1951–52, chairman, 1952; Electro-Acoustic Devices, 1930–31; Policy Advisory, 1953–54; Policy Development, 1949–50; Standardization, 1930–31. **Professional Groups:** Aeronautical and Navigational Electronics, *chairman, 1953–54.* **Awards:** President's Certificate of Merit, 1948.

BLACK, Leonard J. (A'31—SM'46—F'53), Professor of Electrical Engineering, University of California, Berkeley 4, Calif.
Born: July 29, 1904, Santa Clara, Calif. B.S., 1928, M.S., 1930, Ph.D., 1935, University of California. **Committees:** Education, 1949–51; Executive, 1937–42, 1949–52; Speakers and Papers, *chairman, 1937;* West Coast Convention, *general chairman, 1951.* **Sections:** San Francisco, *secretary-treasurer, 1938–39, vice-chairman, 1940, chairman, 1941.* **IRE Representative:** University of California, 1941–52.

BLACKWELL, Otto B. (M'20—F'28)(L), Retired. 15 North Dr., Plandome, N.Y.
Born: August 21, 1884, Bourne, Mass. S. B., 1906, Massachusetts Institute of Technology. **Committees:** Standardization, 1920–24. **Awards:** Edison Medal, 1950.

BLOMBERG, Hugo (M'45—F'50), President, Svenska, Radioaktiebolaget, 12 Alstromergatan, Stockholm, Sweden.
Born: October 25, 1897, Stockholm, Sweden. E.E., 1920, Royal Technical University of Stockholm.

BODE, H. W. (M'41—SM'43—F'52), Director of Research, Physical Sciences, Bell Telephone Laboratories, Inc., Murray Hill, N.J.
Born: December 24, 1905, Madison, Wis. A.B., 1924, M.A., 1926, Ohio State University; Ph.D., 1935, Columbia University. **Committees:** Annual Review, 1947–48; Circuits, 1944–48, *chairman, 1947–48;* Standards, 1947–48.

BOND, Donald S. (SM'46—F'54), Research Engineer, RCA Laboratories, Princeton, N.J.
Born: June, 1909, Libertyville, Ill. B.S., 1929, S.M., 1931, University of Chicago. **Committees:** Papers Review, 1949–53.

BOOKER, Henry G. (SM'45—F'53), Professor, Department of Engineering Physics and School of Electrical Engineering, Cornell University, Ithaca, N.Y.
Born: December, 1910, Barking, Essex, England, B.A., 1933, Ph.D., 1936, Cambridge University. **Committees:** Editorial Reviewer, 1954–58; Standards 1949–52; Wave Propagation, 1949–56, *vice-chairman, 1949–50, chairman, 1950–52.* **IRE Representative:** National Bureau of Standards Technical Advisory Committee, chairman, 1958. **Professional Groups:** Antennas and Propagation, *vice-chairman, 1955–56, 1957–58.* **Awards:** Duddell, 1946; Institution, 1947; Kelvin, 1948; Premiums, I.E.E. (London).

BOONE, E. Milton (A'43—SM'46—F'56), Professor of Electrical Engineering, Director, Electron Device Laboratory, Ohio State University, Columbus 10, Ohio.
Born: February 17, 1903, Millersburgh, Ky. B.A.(Physics), 1926, M.S.(Physics), 1932, University of Colorado; M.S.(E.E.), 1937, University of Michigan. **IRE Offices:** Director, 1955–56.

Committees: Education, 1956–58; Electron Devices, 1952–55; Electron Tubes, 1955–56; Electron Tubes and Solid State Devices, 1951–52; Fellow, 1958; Nominations, 1956; Papers Review, 1946; **Sections:** Columbus, *chairman, 1946–47.* **IRE Representative:** Ohio State University, 1946–50.

BOOTHROYD, Wilson P. (SM'47—F'56), Director of Engineering Development, Philco Corporation, Tioga & C Sts., Philadelphia, Pa.
Born: February, 1916, Lawrence, Mass. B.S., 1937, Rhode Island State College. **Professional Groups:** Broadcast and Television Receivers, *chairman, 1955.*

BORN, William T. (A'27—VA'39—SM'51—F'57), Vice-President, Geophysical Research Corporation, 136 Mohawk Blvd., Tulsa 6, Okla.
Born: August 3, 1903, Chicago, Ill. B.S., 1925, University of Chicago. **Sections:** Sixth Southwestern IRE Conference, *chairman, 1954;* Southwestern IRE Conference Organization, *secretary, 1955.*

BOSOMWORTH, George P. (A'36—VA'39—F'57), Manager, Engineering Laboratories for the Tire Company and Chief Engineer for U. S. Liberia Radio Corporation, Firestone Tire and Rubber Company, 1200 Firestone Pkwy., Akron 17, Ohio.
Born: August 26, 1896, Gateshead, Durham, England. Whitworth Exhibition, 1916; Honors Diploma, E.E., 1917, Sunderland Technical College, England. **Committees:** Industrial Electronics, 1946–47, *chairman, 1947–58;* Standards, 1947–49; Annual Review, 1947–50. **Professional Groups:** Industrial Electronics Administrative Committee, 1951–58, *chairman, 1954–56.* **IRE Representative:** AIEE-IRE-NEMA Coordination Committee on Commercial Induction and Dielectric Heating Apparatus, 1948–49, *alternate, 1952–54.* **Awards:** Whitworth Bronze Medal, Board of Education, England, 1916.

BOSSART, Paul N. (A'29—SM'46—F'56), Physics Section Head, Union Switch and Signal Division, Westinghouse Air Brake Company, Pittsburgh 18, Pa.
Born: May 10, 1896, Buffalo, N.Y. B.S.(E.E.), 1916, Carnegie Institute of Technology; E.E., 1920, Columbia University; Ph.D., 1933, University of Pittsburgh. **Sections:** Pittsburgh, *vice chairman, 1940–41, chairman, 1941–42.*

BOWIE, Robert M. (A'34—M'37—SM'43—F'48), Director of Research, Sylvania Electric Products, Inc., Bayside, L.I., N.Y.
Born: August 24, 1906, Table Rock, Neb. B.S., 1929, M.S. (Physics), 1931, Ph.D. (Physics), 1933, Iowa State College. **Committees:** Administrative Board of Editors, 1952–53; Admissions, 1945–48; Awards, 1953–55; Board of Editors, 1947–52; National Convention, 1950; Nuclear Studies, 1948–52; Papers Procurement, 1945–50; Research, 1946–47; Television, 1948–49; Television Systems, 1949–56, *vice-chairman, 1951–53.*

BOWLES, Edward L. (A'22—M'28—SM'43—F'47), Consulting Professor, School of Industrial Management, Massachusetts Institute of Technology, Cambridge 39, Mass. Consulting Engineer.
Born: December 9, 1897, Westphalia, Mo. B.S., 1920, Washington University; M.S., 1922, Massachusetts Institute of Technology; D.Sc. (Honorary), 1945, Norwich University. **Committees:** Membership, 1937–40; Papers Procurement, 1942–43; Regular Papers, 1941; Standardization, 1929–32; Standards, 1932–33. **Sections:** Boston, *chairman, 1935–37.* **Awards:** Distinguished Service Medal, 1945; Honorary Commander, Civil Division of the Most Excellent Order of the British Empire, 1948; Presidential Medal for Merit, 1948.

BOWN, Ralph (M'22—F'25)(L), 85 Pine St., Maplewood, N.J.
Born: February 22, 1891, Fairport, N.Y. M.E., 1913, M.M.E., 1915, Ph.D., 1917, Cornell University. **IRE Offices:** President, 1927; Vice-President, 1926; Director, 1926–29, 1937–39. **Committees:** Admissions, 1926, 1939–40, *chairman, 1926;* Awards 1928–31, 1938–42, 1946, *chairman, 1942, 1946;* Board of Editors, 1946–53; Constitution and Laws, 1929, 1937–40; Convention Policies, 1940; Finance, *chairman, 1926;* Meetings and Papers, 1929; Nominations, 1937, 1940–44, 1949–51, *chairman, 1944, 1949–51;* Receiving Sets, 1927–28; Research, 1949–50; Standardization, 1925–27, *chairman, 1925–26;* Standards, 1941–42. **IRE Representative:** IRE-RMA Joint Technical Advisory, 1948–55, *chairman, 1952–53* IRE-IEE International Liaison, 1955–58. **Awards:** IRE Medal of Honor, 1949; IRE Morris Liebmann Memorial Prize, 1926.

BRADLEY, William E. (SM'45—F'53), Director of Research—Technical, Philco Corporation, C & Tioga Sts., Philadelphia 34, Pa.
Born: January 7, 1913, Lansdowne, Pa. B.S.(E.E.), 1936, Moore School, University of Pennsylvania. **Committees:** Editorial Reviewer, 1954–58.

BRAINERD, John G. (A'33—M'39—SM'43—F'51), Professor and Director, Moore School of Electrical Engineering, University of Pennsylvania, 200 S. 33 St., Philadelphia 4, Pa.
Born: August 7, 1904, Philadelphia, Pa. B.S.(E.E.), 1925, D.Sc., 1934, University of Pennsylvania. **IRE Offices:** Director, 1956–57. **Committees:** Annual Review, 1948–49; Circuits, 1947–56, *chairman, 1948–49;* Standards, 1948–58, *chairman, 1949–51,* Editorial Reviewer, 1955–58. **Professional Groups:** Circuit Theory, *chairman, 1950–51.* **Sections:** Philadelphia, *secretary, 1951–52; chairman, 1953–54.* **IRE Representative:** ASA Sectional Committee (C42) on Definitions of Electrical Terms, 1949–58; ASA Sectional Committee (C16) on Radio, 1950–51; ASA Standards Council, 1949–51; ASA Subcommittee (C42.1) on General Terms, 1948, 1952–58; AAAS, Council, 1956–58.

BREIT, Gregory (SM'45—F'45), Professor, Department of Physics, Sloane Physics Laboratory, Yale University, New Haven 11, Conn.
Born: July 14, 1899, Russia. A.B., 1918, A.M., 1920, Ph.D., 1921, Johns Hopkins University; D.Sc., 1954, University of Wisconsin. **Committees:** Research, 1949–50.

BREITWIESER, Charles J. (A'35—VA'39—SM'56—F'58), Senior Partner and Managing Director, Polaris Engineering, 1614 Centinela St., Inglewood, Calif.
Born: September 23, 1910, Colorado Springs, Colo. B.S.(E.E.), 1930, University of North Dakota; M.Sc., 1931, California Institute of Technology; D.Sc. (Honorary), 1949, University of North Dakota. **Professional Groups:** Engineering Management, Administrative Committee, 1951-58; *chairman, 1954.* **Awards:** AIEE, First Papers Award, 1945.

BRIGGS, Maynard R. (A'37—SM'46—F'54), Manager, Missile Ground Control Engineering, Westinghouse Electric Corporation, P.O. Box 746, Baltimore 3, Md.
Born: July 19, 1904, St. Paul, Minn. B.(E.E.), 1929, University of Minnesota. **Committees:** Antennas, 1944–45; Professional Groups, 1948; Radio Transmitters, 1948–58, *chairman, 1951–53;* Standards, 1951–53; Symbols, 1940–48; Transmitters and Antennas, 1939–48. **Sections:** Baltimore Section, vice-chairman, 1957, *chairman, 1957–58.* **IRE Representative:** IRE-RTMA Problems #2 Committee, 1948–49; IRE-RTMA—SMPTE Coordinating Committee, 1949–52; ASA Sectional Committee (C16) on Radio, 1952.

BRONWELL, Arthur B. (A'39—SM'43—F'56), President, Worcester Polytechnic Institute, Worcester, Mass.
Born: August 18, 1909, Chicago, Ill. B.S., 1933, M.S., 1936, Illinois Institute of Technology; M.B.A., 1947, Northwestern University; LL.D. (Honorary), 1955, Northeastern University. **Committees:** Education, 1944–47, *chairman, 1945–46;* Papers Procurement, 1945–47. **Sections:** Chicago, *chairman, 1943–44.* **IRE Representative:** Northwestern University, 1941–45.

BROOKS, Frederick E., Jr. (S'42—A'44—M'48—SM'54—F'58), Assistant Director of Research and Development, Collins Radio Company, 1930 Hiline Drive, Dallas, Tex.
Born: October 14, 1916, Mineola, L.I., N.Y. B.S.(E.E.), 1940, University of Kansas; D.Eng., 1944, Yale University.

BROWN, Archibald S. (A'14—SM'47—F'56)(L), Special Assistant to Director of Engineering Research, Stanford Research Institute, Menlo Park, Calif.
Born: July 1, 1889, Minneapolis, Minn. B.S., 1910, Montana State College; E.E., 1915, University of Montana. **Sections:** San Francisco, *vice chairman, 1933;* Engineering Management, San Francisco, *chairman, 1954.* **Professional Groups:** Administrative Committee, Engineering Management, 1957-60; Military Electronics, San Francisco, *vice-chairman, 1957.* **Awards:** U. S. Navy Commendation, 1946; Order of the British Empire, 1946.

BROWN, George H. (A'30—VA'39—F'41), Chief Engineer, Industrial Electronic Products, Radio Corporation of America, Camden, N.J.
Born: October 14, 1908, N. Milwaukee, Wis. B.S., 1930, M.S. 1931, Ph.D., 1933, E.E. (Professional), 1942, University of Wisconsin. **Committees:** Annual Review, 1947–48; Antennas, 1944–49; Papers Procurement, 1948–50. **Awards:** Fellow, AIEE.

BROWN, Gordon S. (SM'53—F'55), Professor and Head, Department of Electrical Engineering, Massachusetts Institute of Technology, 77 Massachusetts Ave., Cambridge 39, Mass.
Born: August 30, 1907, Drummoyne, N.S.W., Australia. M.E. (E.E.), 1925, Melbourne Technical School; B.S., 1931, M.S., 1934, Sc.D., 1938, Massachusetts Institute of Technology. **IRE Offices:** Director, 1958. **Awards:** Certificate for Distinguished Service to Naval Ordnance Development, 1945; President's Certificate of Merit, 1948; 7th George Westinghouse Award, American Society for Engineering Education, 1952; Fellow, American Academy of Arts and Sciences, 1950; Fellow, American Institute of Electrical Engineers, 1950.

BROWN, Jesse E. (A'24—M'28—SM'43—F'49), Assistant Vice-President and Chief Engineer, Zenith Radio Corporation, 6001 W. Dickens Ave., Chicago 29, Ill.
Born: September, 1902, Greenport, N.Y. Attended Cornell University, 1920–24. **IRE Offices:** Director, 1938, 1947. **Committees:** Admissions, 1940; Awards, 1940; Frequency Modulation, 1940–47; Industrial Electronics, 1947–49; Membership, 1949–50; Modulation Systems, 1947–48; Nominations, 1947; Papers Procurement, 1942–45; Public Relations, 1940; Radio Receivers, 1941–42, 1945–51; Receivers, 1949–51; Regular Papers, 1941; Sections, 1937; Special Publications Funds, 1947; Television, 1940–49; Television Systems, 1949–58. **Sections:** Chicago, *secretary, 1936–37, chairman, 1938–39.* **IRE Representative:** Army Signal Association, 1947.

BROWNING, Glenn H. (A'24—M'28—SM'43—F'55), Retired, RFD 1, Sebago Lake, Me.
Born: March 9, 1897, Solon, Iowa. B.A., 1921, Sc.D. (Honorary), 1950, Cornell College. **IRE Offices:** Director, 1952–55. **Committees:** Nominations, 1955. **Sections:** Boston, *chairman, 1946–47.*

BRUECKMANN, Helmut L. (SM'49—F'58), Senior Research Scientist, U. S. Army Signal Engineering Laboratories, Fort Monmouth, N.J.
Born: May 2, 1906, Frankfurt (Main), Germany. Dipl. E., 1930, D.Eng., 1935, Technical University, Berlin, Germany.

BRUNETTI, Cledo (A'37—SM'46—F'49), Executive Assistant to Executive Vice President and Manager, Ordnance Division, Food Machinery and Chemical Corporation, 1105 Coleman Ave., San Jose, Calif.
Born: April, 1910, Virginia, Minn. B.E.E. (with High Distinction), 1932, Ph.D., 1937, University of Minnesota. **Committees:** Awards, 1957; Circuits, 1944–51, *vice-chairman, 1949–50;* Fellow, 1958; Industrial Electronics, 1955–58; Papers Procurement, 1948–50; Radio Transmitters, 1946–49. **Professional Groups:** Automatic Controls, Administrative Committee, 1954. **Awards:** National Scholarship Key; National I.A. Civic League, 1937; Outstanding Young Electrical Engineer, Eta Kappa Nu, 1941; Naval Ordnance Development Award for Exceptional Service, United States Navy, 1945; Certificate for Outstanding Service, War Department, 1945; Certificate of Appreciation of Services, Office of Scientific Research and Development, 1945; The Material and Methods Achievement Grand Award, Materials and Methods Magazine, 1947; Army-Navy Certificate of Appreciation for Outstanding Services during World War II, War and Navy Department, 1947; Fellow, AIEE.

BUDENBOM, Horace T. (A'40—SM'46—F'56), Bell Telephone Laboratories, Inc., Whippany, N.J. Retired. Associated with Stavid Engineering, Inc., Plainfield, N.J.
Born: August 4, 1902, Brooklyn, N.Y. B.S.(E.E.), 1922, E.E., 1929, Purdue University. **Sections:** New York, *secretary, 1950–51, vice-chairman 1951–52, chairman, 1952–53.*

BUILDER, Geoffrey (A'32—F'41), School of Physics, University of Sydney, Sydney, N.S.W., Australia.
Born: June 21, 1906, Cue, Western Australia. B.Sc., 1928, University of Western Australia; Ph.D., 1933, D.Sc., 1956, University of London. **Awards:** Fellow, Institute of Physics, London, England.

BULLINGTON, Kenneth (A'45—SM'53—F'55), Transmission System Engineer, Bell Telephone Laboratories, Inc., Murray Hill, N.J.
Born: January 11, 1913, Guthrie, Okla. B.S.(E.E.), 1936, University of New Mexico; M.S.(E.E.), 1937, Massachusetts Institute of Technology. **Committees:** Papers Review, 1949–53; Editorial Reviewer, 1954–58; Wave Propagation, 1954–56. **Awards:** IRE Morris Liebmann Memorial Prize, 1956; Stuart Ballantine Medal, Franklin Institute, 1956.

BURKE, Charles T. (A'25—M'27—F'37), Director of Planning, General Radio Company, 275 Massachusetts Ave., Cambridge 39, Mass.
Born: August 4, 1902, Watertown, Mass. S.B., 1924, S.M., 1924, Massachusetts Institute of Technology. **Committees:** Radio Receivers, 1927–28; Handbook, 1945–48; Papers Procurement, 1946; Power Supply, 1928–29; Standards, 1941–43.

BURNAP, Robert S. (A'30—F'47), Manager, Commercial Engineering, Tube Division, Radio Corporation of America, 5 & Sussex Sts., Harrison, N.J.
Born: July 12, 1894, Monterey, Mass. S.B., 1916, Massachusetts Institute of Technology. **Committees:** Ad Hoc Committee to Make Critical Review of Organization of Committee, 1952–53; Administrative Committee of the Board of Editors, 1951–53; Annual Review, 1943–49; Awards, 1948; Board of Editors, 1944–53; Editorial Administrative, 1946–53; Editorial Reviewer, 1954; Electron Devices, 1952–56; Electronics, 1936–46, *chairman, 1942–46;* Electron Tubes, *chairman, 1946–49;* Electron Tubes and Solid State Devices, 1949–52; Handbook, 1945–48; Papers Procurement, 1942–44; Regular Papers, 1941; Standards, 1943–49; Symbols, 1940–41, 1943–48; Tellers, *chairman, 1942;* Vacuum Tubes, 1945–46. **IRE Representative:** ASA Subcommittee (C42.14) on Electronics, 1947–51.

BURROWS, Charles R. (A'24—M'38—SM'43—F'43), Vice-President for Engineering, Ford Instrument Company, Long Island City, N.Y.
Born: June 21, 1902, Detroit, Mich. B.S.E.(E.E.), 1924, University of Michigan; A.M., 1927, Columbia University; E.E., 1935, University of Michigan; Ph.D., 1938, Columbia University. **IRE Offices:** Director, 1956. **Committees:** Annual Review, 1943–46; Appointments, 1956; Circuits, 1945–50; Editorial Reviewer, 1955–58; National Convention, 1948; Radio Wave Propagation, 1942–45, *chairman, 1943–45;* Radio Wave Propagation and Utilization, 1945–47; Standards, 1943–45, 1949–50; Symbols, 1940–52; Wave Propagation, 1937–57, *vice-chairman, 1948–49, chairman, 1949–50.* **Sections:** Ithaca, *chairman, 1953–54.* **Professional Groups:** Engineering Management, *vice-chairman, 1956–57, chairman, 1957–58.* **Awards:** Presidential Certificate of Merit; Distinguished Alumnus, University of Michigan; Fellow, AIEE; Fellow, American Physical Society.

BUSIGNIES, Henri (M'42—SM'43—F'45), President, Federal Telecommunication Laboratories, a division of International

Telephone and Telegraph Corporation, 500 Washington Ave., Nutley, N.J.
Born: December 29, 1905, Sceaux, Paris, France, E.E., 1926, Institut Normal Electro-technique, Paris, France. **Committees:** Annual Review, 1948–49; Awards, 1955–56; Navigation Aids, 1946–51, *vice-chairman, 1947–48, chairman, 1948–50;* Standards, 1948–50. **Awards:** Presidential Certificate of Merit, 1948.

BUTTNER, Harold H. (M'27—SM'43—F'44), Vice-President, International Telephone and Telegraph Corporation, 67 Broad St., New York 4, N.Y.
Born: November 3, 1892, Port Costa, Calif. B.S.(E.E.), 1915, University of California. **Committees:** Electronics, 1940–41; Meetings and Papers, 1929; Standards, 1938–39.

BYRNE, John F. (SM'45—F'50), General Manager, Riverside Research Laboratory, Motorola, Inc., Adams & Indiana Aves., Riverside, Calif.
Born: October 26, 1905, Cincinnati, Ohio. B.S., 1927, M.S.(E.E.), 1928, Ohio State University. **IRE Offices:** Director, 1955–57. **Committees:** Awards, 1953–55; Appointments, 1955; Policy Advisory, 1956–57; Tellers, 1949. **Awards:** United States Navy Certificate of Commendation, 1947; Presidential Certificate of Merit, 1948.

BYRNES, Irving F. (A'23—M'39—SM'43—F'54), Manager, Radiomarine Engineering, Radio Corporation of America, 75 Varick St., New York 13, N.Y.
Born: October, 1898, Beacon, N.Y. Union College Extension Courses in Electrical Engineering completed in 1926. **Committees:** Paper Procurement, 1947–50; Standardization, 1930–31. **IRE Representative:** ASA Sectional Committee on Electrical Installations on Shipboard, 1939–48. **Awards:** Modern Pioneer Award, National Association of Manufacturers, 1940; U. S. Navy Bureau of Ships Certificate of Commendation, 1947.

CADY, Walter G. (A'14—F'27)(L), Consultant, 3350 Calvert Rd., Pasadena 8, Calif.
Born: December 10, 1874, Providence, R.I. Ph.B., 1895, M.A., 1896, Brown University; Ph.D., 1900, University of Berlin; D.Sc., 1938, Brown University. **IRE Offices:** President, 1932; Editor, 1929; Director, 1929, 1932–34. **Committees:** Annual Review, 1942–50; Awards, 1928–30, 1933, *chairman, 1930;* Bibliography, 1930–31; Board of Editors, 1928–29, 1945, *chairman, 1929;* Institute Sections, 1928; Meetings and Papers, 1928–29; Nominations, 1930, 1933–34, 1939, *chairman, 1933;* Papers, 1931; Piezoelectric Crystals, 1941–58, *chairman, 1942–49;* Standards, 1943–51. **Sections:** Connecticut Valley, *chairman, 1927–28.* **Awards:** Duddell Medal, Physical Society of London, 1936; IRE Morris Liebmann Memorial Prize, 1928.

CAHOON, Roy D. (A'35—SM'47—F'56), Prairie Regional Engineer, Canadian Broadcasting Corporation, 541 Portage Ave., Winnipeg, Man., Canada.
Born: March 1, 1911, Cardston, Alta., Canada. B.A.Sc.(E.E.), 1934,, University of Toronto; M.E., 1945, McGill University. **Sections:** Winnipeg Subsection, *chairman, 1949–50.*

CALDWELL, Orestes H. (M'28—SM'43—F'44), Editorial Consultant, Electronic Industries, Electronics Technician, Catrock Rd. at Bible Corners, Cos Cob, Conn.
Born: March 8, 1888, Lexington, Ky. B.S.(E.E.), 1908, E.E., 1931, D.E., 1933, Purdue University. **IRE Offices:** Manager, 1932; Director, 1932–33. **Committees:** Admissions, 1933; Annual Review, 1942–43; Board of Editors, 1946–53; Constitution and Laws, 1932–33, 1935; Nominations, 1934; Publicity, 1931–37, 1939, *chairman, 1934–36;* Public Relations, 1942–46, 1949–50, *chairman, 1942;* Tellers, 1932–33. **Awards:** Fellow, AIEE.

CALLAHAN, John L. (A'21—M'31—SM'43—F'53), Administrator, Radio Research Laboratory, RCA Laboratories, Rocky Point, L.I., N.Y.
Born: December 9, 1898, Minneapolis, Minn. 1919, Sorbonne, Paris; 1941, New York University. **Committees:** Admissions, 1944–48; Annual Review, 1940–45; Awards, 1951; Facsimile, 1939–46, *chairman, 1940–45;* Papers, 1942; Professional Groups, 1955; Standards, 1940–45; Symbols, 1940–41; Television and Facsimile, 1937–38; Tellers, 1949–51, *chairman, 1950.* **Professional Groups:** Communications Systems, Administrative Committee, *secretary, 1952–54.* **Awards:** Army-Navy Certificate of Appreciation, 1948; Fellow, AIEE; Fellow, Radio Club of America.

CAMPBELL, Richard D. (A'34—SM'46—F'51), Point-to-Point Radio Engineer, American Telephone and Telegraph Company, 195 Broadway, New York, N.Y.
Born: May 26, 1899, St. Louis, Mo. B.S.(E.E.), 1922, George Washington University. **Committees:** Industrial Electronics, 1947–48; National Convention, 1947.

CAMRAS, Marvin (S'41—A'42—SM'48—F'52), Senior Physicist, Armour Research Foundation, 10 W. 35 St., Chicago 16, Ill.
Born: January 1, 1916, Chicago, Ill. B.S.(E.E.), 1940, Armour Institute of Technology; M.S.(E.E.), 1942, Illinois Institute of Technology. **Committees:** Chapters, *chairman, 1956;* Nominating, *chairman,, 1954–56;* Recording and Reproducing, 1954–58. **Professional Groups:** Audio, 1951–53, *secretary, 1951–52, chairman, 1953.* **Awards:** Fellow, Acoustical Society of America, 1951; Illinois Institute of Technology Alumni Association Distinguished Service Award, 1948; Eta Kappa Nu Award (Honorable Mention), 1948; U.S. Camera Award for Contribution to Motion Picture Photography, 1949; John Scott Medal, 1955.

CARLIN, Herbert J. (M'47—SM'50—F'56), Research Professor and Associate Director, Microwave Research Institute of the Polytechnic Institute of Brooklyn, 55 Johnson St., Brooklyn 1, N.Y.
Born: May 1, 1917. B.S., 1938, Columbia College; M.S., 1940, Columbia University School of Engineering; D.E.E., 1947, Polytechnic Institute of Brooklyn. **Committees:** Editorial Reviewer, 1954–58. **Professional Groups:** Circuit Theory, *secretary, 1950–52, vice-chairman, 1953–55, chairman, 1955–56;* Instrumentation, *secretary, 1950–53.*

CARLSON, Wendell L. (A'36—SM'47—F'49), Technical Advisor, Patent Operations, Radio Corporation of America, Laboratories Division, Princeton, N.J.
Born: January, 1897, Jamestown, N.Y. **Committees:** Radio Receivers, 1946–47.

CARNAHAN, C. Wesley (A'34—SM'45—F'52), Technical Assistant to the President, Varian Associates, Palo Alto, Calif.
Born: July 4, 1907, Berkeley, Calif. B.A., 1927, M.A. 1931, Stanford University. **Committees:** Board of Editors, 1947–53; Papers Review, 1946. **Sections:** New Mexico, *chairman, 1949–53;* San Francisco, *director, 1957.*

CARSON, Victor S. (S'39—A'42—SM'51—F'55), Professor, Electrical Engineering, San Jose State College, San Jose, Calif.
Born: June 29, 1908, Pocatello, Idaho. B.S.(E.E.), 1938, Oregon State College; Engr., 1940, Ph.D., 1946, Stanford University. **Sections:** North Carolina-Virginia, *secretary-treasurer, 1950–54, vice-chairman, 1951, chairman, 1952.* **IRE Representative:** University of Connecticut, 1941–42; Stanford University, 1945.

CARTER, E. Finley (A'24—F'36), Director and Member of Board of Directors, Stanford Research Institute, Menlo Park, Calif.
Born: July 1, 1901, Elgin, Tex. B.S., 1922, Rice Institute. **IRE Offices:** Director, 1943–45. **Committees:** Admissions, 1944; Constitution and Laws, 1945, 1948; Editorial Administrative, 1949–50; Executive, 1944–45; National Convention, 1947–48. **Awards:** Professional Recognition, 1947.

CARTER, Philip S. (A'29—M'38—SM'43—F'49), Research Engineer, RCA Laboratories Division, Rocky Point, L.I., N.Y.
Born: July, 1896, Glastonbury, Conn. A.B. (Mechanical Engineering), 1918, Stanford University. **Committees:** Annual Review, 1945–48; Antennas, *chairman, 1945–48;* Antennas and Wave Guides, 1949–58; Board of Editors, 1937–46; Standards, 1945–58. **Professional Groups:** Antennas and Propagation, 1949–58, *chairman, 1953.* **Awards:** Modern Pioneer Award, National Association

of Manufacturers, 1940; Citation for Overseas Work on Countermeasures "V" 2 Rocket, Secretary of War, 1947; Army-Navy Certificate of Appreciation, 1948.

CAWEIN, Madison (M'36—SM'43—F'54), Consultant in Television and Physics, 3010½ S. Calhoun, Ft. Wayne 6, Ind.
Born: March, 1904, Louisville, Ky. B.S. (Physics), 1924, University of Kentucky; 1925, Cornell University; 1927–30, University of Kentucky. **Committees:** Papers Procurement, 1945–47.

CHAFFEE, E. Leon (M'17—F'21)(L), Professor, Applied Physics, Emeritus, Harvard University, Cambridge 38, Mass.
S.B., 1907, Massachusetts Institute of Technology; A.M., 1908, Ph.D., 1911, S.D. (Honorary), 1944, Harvard University; D.Engr. (Honorary), 1954, Case Institute of Technology. **IRE Offices:** Vice-President, 1922; Director, 1922. **Committees:** Electron Tubes, 1946–47; Electronics, 1936–45; Membership, 1925; Papers, 1918–19; Papers Procurement, 1942–43; Regular Papers, 1941; Research, 1949–50; Standardization, 1927–31; Symbols, 1940–43; Vacuum Tubes, 1930–31, 1945–46. **Sections:** Boston, *chairman, 1932–35.* **IRE Representative:** Harvard University, 1941–53. **Awards:** Longstreth Medal of Merit, Franklin Institute, 1912.

CHAFFEE, Joseph G. (A'26—M'40—SM'43—F'54), Member Technical Staff, Bell Telephone Laboratories, Inc., 463 West St., New York 14, N.Y.
Born: March, 1901, Hackensack, N.J. S.B., 1923, Massachusetts Institute of Technology.

CHAMBERLAIN, Adolph B. (A'27—M'30—F'41), Director of Engineering, CBS Television, 485 Madison Ave., New York 22, N.Y.
Born: February 3, 1901, Franklin, Mass. **IRE Offices:** Director, 1941–44. **Committees:** Admissions, 1940–41; Annual Review, 1947–48; Awards, 1942; Broadcast, *alternate, 1932–33;* Constitution and Laws, 1947; Frequency Modulation, 1940–41; Membership, 1949–50; National Convention, 1947; New York Program, 1938–42, *chairman, 1940;* Papers, 1942; Professional Groups, 1948–49; Public Relations, 1946; Radio Transmitters and Antennas, 1929–30; Regular Papers, 1941; Standardization, 1929–31; Standards, 1946–50, *chairman, 1947–48;* Tellers, *chairman, 1942;* Transmitters and Antennas, 1936–37. **Sections:** Buffalo-Niagara, *chairman, 1930–31;* Rochester, *chairman, 1928–29.* **IRE Representative:** ASA Standards Council, 1948–49; ASA Sectional Committee on Definitions of Electrical Terms, 1948–49. **Awards:** Legion of Merit, 1946.

CHAMBERS, Dudley E. (M'41—SM'43—F'48), Manager, Engineering Services Research, General Electric Company, 1 River Rd., Schenectady 5, N.Y.
Born: November 27, 1905, Kansas City, Mo. B.A., 1927, E.E., 1928, Stanford University. **Committees:** Awards, 1948, 1950–51; Board of Editors, 1953; Education, 1953, Research, *chairman, 1949–50;* Standards, 1949–50. **Awards:** Fellow, AIEE, 1948.

CHAMBERS, Joseph A. (A'28—M'30—SM'43—F'55), Vice-President, Motorola, Inc., General Manager, Motorola Western Military Electronic Center, 8201 E. McDowell, Phoenix, Ariz.
Born: August 1, 1903, Union, S.C. B.S., 1924, Clemson. **Committees:** Editorial Reviewer, 1954–58.

CHANCE, Britton (M'46—SM'46—F'54), Professor of Biophysics, Director of the Johnson Foundation for Medical Physics, 36 & Spruce Sts., Philadelphia 4, Pa.
Born: July 24, 1913, Wilkes-Barre, Pa. B.S., 1935, M.S., 1936, Ph.D., 1940, University of Pennsylvania; Ph.D., 1942, Sc.D., 1952, University of Cambridge. **Awards:** President's Certificate of Merit, 1949; Paul Lewis Award in Enzyme Chemistry, 1950, American Chemical Society; Member, National Academy of Sciences; Fellow, Physical Society, American Association for the Advancement of Science.

CHINN, Howard A. (A'42—SM'45—F'45), Chief Engineer, CBS Television, 485 Madison Ave., New York, 22, N.Y.
Born: January 5, 1906, New York, N.Y. S.B., 1927, S.M., 1929, Massachusetts Institute of Technology. **Committees:** Admissions, 1945–48; Audio and Video Techniques, *chairman, 1948;* Constitution and Laws, 1952; Editorial Reviewer, 1954–58; Education, 1945; Membership, 1934, 1936–38; Papers, 1935–40, 1944–45; Papers Review, 1946–52; Professional Groups, 1948; Standards, 1948–49; Tellers, 1946–47, *chairman, 1947.* **Awards:** Presidential Certificate of Merit, 1949; John H. Potts Memorial Award, 1950; Fellow, Audio Engineering Society; Fellow, Acoustical Society of America; Fellow, Society Motion Picture and Television Engineers.

CHIPP, Rodney D. (A'34—SM'43—F'55), Manager, System Engineering, Federal Telecommunication Laboratories, 500 Washington Ave., Nutley, N.J.
Born: May 16, 1910, New Rochelle, N.Y. **Committees:** Constitution and Laws, 1950; National Convention, 1947–52. **Sections:** New York, *secretary, 1948–49, vice-chairman, 1949–50, chairman, 1950–51.* **Professional Groups:** President, 1953–54, Technical Societies Council of New York; **Awards:** U. S. Navy Commendation, 1946.

CHITTICK, Kenneth A. (A'26—SM'49—F'53), Manager, TV Receivers, RCA Victor TV Department, Cherry Hill, Camden, N.J.
Born: November 6, 1903; Old Bridge, N.J. B.S., 1925, Rutgers University. **Committees:** Instruments and Measurements, 1949–50; Papers Procurement, 1947–50; Radio Frequency Interference, 1955–58; Radio Receivers, 1951–58; Television, 1945–48; Television Systems, 1949–58. **Awards:** Award of Merit, RCA, 1947; Certificate of Commendation, U. S. Navy, 1947.

CHODOROW, Marvin (A'43—SM'47—F'54), Professor, Applied Physics and Electrical Engineering, Stanford University, Stanford, Calif.
Born: July 16, 1913, Buffalo, N.Y. B.A., 1934, University of Buffalo; Ph.D., 1939, Massachusetts Institute of Technology. **Committees:** Editorial Reviewer, 1954–58.

CHRISTALDI, P. Samuel (S'35—A'40—SM'44—F'52), 132 Squire Hill Rd., Upper Montclair, N.J.
Born: November 26, 1914, Philadelphia, Pa. E.E., 1935, Ph.D. (Physics), 1938, Rensselaer Polytechnic Institute. **Committees:** Admissions, 1949–53, *chairman, 1950–51;* Measurements and Instrumentation, 1949–58, *vice-chairman, 1952–54, chairman, 1954–58;* Standards, 1954–58; Tellers, 1956. **Sections:** Northern New Jersey Subsection, *secretary, 1951–53, chairman, 1955–56.* **IRE Representative:** U.S. National Committee, International Electrotechnical Commission, Advisers on Electric Measuring Instruments, 1955; ASA Sectional Committee (C39) on Electrical Measuring Instruments, 1955–56; Joint IRE-AIEE Committee on High Frequency Measuring Instruments, 1956. **Awards:** Fellow, Radio Club of America.

CHU, Lan J. (A'39—VA'39—SM'48—F'52), Professor of Electrical Engineering, Massachusetts Institute of Technology, Cambridge 39, Mass.
Born: August 24, 1913, Hweiying, Kiangsu, China. B.S., 1934, Chiao Tung University; M.S., 1935, ScD., 1938, Massachusetts Institute of Technology. **Committees:** Antennas, 1948–49; Antennas and Wave Guides, 1949–51, *vice-chairman, 1949–50;* Editorial Reviewer, 1954–58; Technical Program, 1949–50.

CLAPP, James K. (A'24—M'28—F'33), Retired, General Radio Company, 275 Massachusetts Ave., Cambridge 39, Mass.
Born: December 30, 1897, Denver, Colo. B.S., 1923, S.M., 1926, Massachusetts Institute of Technology. **Committees:** Editorial Reviewer, 1954–58; Papers, 1931–45; Papers Review, 1946–55; Piezoelectric Crystals, 1940–56; Standards, 1934–35.

CLARK, Ralph L. (A'29—SM'48—F'58), Manager, Washington Office, Stanford Research Institute, 711 14th St., N.W., Washington, D.C.
Born: June 2, 1908, East Jordan, Mich. B.S.(E.E.), 1930, Michigan State University. **Professional Groups:** National Administrative Committee, Military Electronics, 1955–57.

CLAVIER, André G. (M'30—F'39), Vice-President and Technical Director, Federal Telecommunication Laboratories, a division of International Telephone and Telegraph Corporation, 500 Washington Ave., Nutley 10, N.J.
Born: February 15, 1894, Cambrai, France. Licéncié-ès-sciénces physiques et mathématiques, 1918, Sorbonne, Paris; Ingénieur diplôme de l'Ecole Supérieure d'Eléctricité, 1920, Paris, France; Professeur à l'Ecole Supérieure d'Eléctricité, 1942–47. **Committees:** Admissions, 1950–52; Professional Groups, 1955; Standards, 1951–58; Symbols, 1949–54, *vice-chairman, 1949–50, chairman, 1951–53.* **Professional Groups:** Communication Systems, Administrative Committee, 1953; Microwave Theory and Techniques, *chairman, 1953.* **IRE Representative:** ASA Drawings and Symbols Correlating Committee, *alternate, 1951–52;* ASA Graphic Standards Board, 1953; ASA Sectional Committee (Y10) on Letter Symbols, 1951–53; ASA Sectional Committee (Y14) on Standards for Drawings and Drafting Room Practice, *alternate, 1951–52;* ASA Sectional Committee (Y15) on Standards for Graphic Presentation, 1951; ASA Sectional Committee (Y15) on Preferred Practice for the Preparation of Graphs, Charts and Other Technical Illustrations, *alternate, 1952;* U. S. National Committee, International Electrotechnical Commission, Advisors on Symbols, 1955; ASA Sectional Committee (Y32) on Graphical Symbols and Designations, 1955–58. **Awards:** Fellow, AIEE; Membre Lauréat de la Société Française des Eléctriciens; President, Fifth Section, Société des Radioéléctriciens, Paris, 1945–47; Vice-President, American Section of Société des Ingénieurs Civils de France, 1952–56.

CLEETON, Claud E. (A'41—SM'46—F'55), Superintendent, Applications Research Division, Naval Research Laboratories, Washington 25, D.C.
Born: December 11, 1907, Downing, Mo. B.S., 1928, Northeast Missouri State Teachers College; M.A., 1930, University of Missouri; Ph.D., 1935, University of Michigan. **Awards:** President's Certificate of Merit, 1946; Meritorious Civilian Service Award, 1947.

CLEMENT, Lewis M. (A'14—M'17—F'26)(L), Technical Advisor to the General Manager, Crosley Division, Avco Manufacturing Corporation, Evendale Plant, Cincinnati 15, Ohio.
Born: January 25, 1892, Oakland, Calif. B.S.(E.E.), 1914, University of California. **IRE Offices:** Director, 1945. **Committees:** Board of Editors, 1941–53; Electro-Acoustic Devices, 1930–31; Meetings and Papers, 1929; Papers Procurement, 1948–50; Professional Groups, 1953–54; Radio Receivers, 1927–28; Regular Papers, 1941; Standardization, 1927–31; Vacuum Tubes, 1929–30. **Professional Groups:** Broadcast and Television Receivers, *secretary, 1953–55.* **Sections:** Cincinnati, *chairman, 1945.* **Awards:** Modern Pioneer Award, National Association of Manufacturers, 1940; Naval Ordnance Development Award, Bureau of Ordnance, USN, 1945; A Pioneer in the Field of Aircraft Electronic Development, Dayton Section IRE, 1950; Radio-Electronics-Television Manufacturers Association IRE Annual Award, Radio Fall Meeting Plaque, Syracuse, 1955.

CLEWELL, Dayton (M'49—SM'49—F'54), General Manager, Socony Mobil Laboratories, 150 E. 42 St., New York, N.Y.
Born: December 15, 1912, Berwick, Pa. B.S., 1933, Ph.D., 1936, Massachusetts Institute of Technology.

COBINE, James D. (A'34—SM'44—F'57), Physicist Research Laboratory, General Electric Company, The Knolls, Schenectady, N.Y.
Born: May, 1905, Oklahoma City, Okla. B.S.(E.E.), 1931, University of Wisconsin; M.S.(E.E.), 1932, Ph.D.(E.E.), 1934, California Institute of Technology. **Committees:** Admissions, 1946–49; Board of Editors, 1945–54; Editorial Reviewer, 1954–57; Education, 1945–46. **Sections:** Schenectady, *secretary-treasurer, 1949–51.* **Awards:** Army-Navy Certificate of Appreciation, World War II, 1947.

COGGESHALL, Ivan, S. (A'26—M'29—F'42), Director of International Communications, Western Union Telegraph Company, 60 Hudson St., New York 13, N.Y.
Born: September 30, 1896, Newport, R.I. D.Eng. (Honorary), 1951, Worcester Polytechnic Institute. **IRE Offices:** President, 1951; Director, 1941–44, 1951–53. **Committees:** Admissions, 1934–35, 1941–42; Annual Review, 1944–47; Building Fund, *vice-chairman, 1945;* Constitution and Laws, 1942, 1945–50, 1953–58, *chairman, 1948, 1950;* Executive, 1942, 1951–52, *chairman, 1951;* Finance, 1948–52 *ex officio, 1951;* Membership, 1928–31, 1934–41, *chairman, 1929–30, 1934–35, 1941;* National Convention, *vice-chairman, 1948;* New York Program, 1938–40, *chairman, 1939;* Nominations, 1944, 1953; Papers, 1942–45; Papers Procurement, 1945–46, *chairman, 1945;* Papers Review, 1946–47; Professional Groups, 1950; Public Relations, 1943–46, *chairman, 1943–45; Sections,* 1933–35, 1938–42; Standards, 1945–46. **IRE Representative:** Joint IRE-RTMA Co-ordination Committee, 1951; Joint Technical Advisory Committee, 1951. **Awards:** Fellow, AIEE.

COLE, Ralph I. (A'29—SM'46—F'58), Manager, Military Project Planning, Melpar, Inc., 3000 Arlington Blvd., Falls Church, Va.
Born: August, 1905, St. Louis, Mo. B.S.(E.E.), 1927, Washington University; M.Sc. (Physics). 1936, Rutgers University. **IRE Offices:** Director, 1958–. **Committees:** National Convention, Technical Program, 1950–51; Radio Receivers, 1937–40. **Awards:** Legion of Merit, 1947.

COLEMAN, John B. (A'25—M'29—SM'43—F'48), Administrative Engineer, Product Engineering, Radio Corporation of America, Front & Cooper Sts., Camden, N.J.
Born: August, 1899, Indiana County, Pa. B.S.(E.E.), 1923, Carnegie Institute of Technology. **IRE Offices:** Director, 1948–49. **Committees:** Broadcast, 1933–34; Constitution and Laws, 1952–55; Membership, 1949–51. **Sections:** Philadelphia, *chairman, 1942–43.*

COLLINS, Arthur A. (J'26—A'32—VA'39—SM'49—F'53), President, Collins Radio Company, 855 35 St., N.E., Cedar Rapids, Iowa.
Born: September 9, 1909, Kingfisher, Okla.

COLTMAN, John W. (SM'49—F'55), Manager, Electronics and Nuclear Physics Department, Westinghouse Research Laboratories, East Pittsburgh, Pa.
Born: July 19, 1915, Cleveland, Ohio. B.S., 1937, Case Institute of Technology; M.S., 1939, Ph.D., 1941, University of Illinois. **Committees:** Board of Editors, 1951–53; Editorial Reviewer, 1954–58; Research, 1949–50. **Sections:** Nuclear Science, Pittsburgh, *chairman, 1956.* **Awards:** Fellow, American Physical Society, 1954.

COLTON, Roger B. (SM'46—F'54), Major General, U. S. Army, Retired, 624 E. Hunting Towers, Alexandria, Va.
Born: December 15, 1887, Jonesborough, N.C. Ph.B., 1908, Sheffield Scientific School, Yale University; M.S., 1920, Massachusetts Institute of Technology; Graduate of following Army Schools: C. Artillery School, 1922; C. Artillery School, Advanced Course, 1927; C. & G. S. School, 1928; Army War College, 1938. **Awards:** Distinguished Service Medal, War Department, 1946; Legion of Merit, War Department, 1946.

COMSTOCK, George C. (A'47—M'47—SM'51—F'57), Director, Research and Engineering Division, Airborne Instruments Laboratory, Inc., 160 Old Country Rd., Mineola, L.I., N.Y.
Born: May, 1911, Peoria, Ill. B.S., 1932, Bradley University; Ph.D., (Physics), 1938, University of Chicago. **Committees:** Navigation Aids, 1949–51. **Awards:** War-Navy Department Award of Appreciation, 1947.

CONDON, Edward U. (M'42—SM'43—F'53), Professor of Physics, Washington University, St. Louis 5, Mo.
Born: March 2, 1902, Alamogordo, N.M. A.B., 1924, Ph.D., 1926, University of California; D.Sc. (Honorary), 1950, University of Delhi, India, and New Mexico School of Mines; 1952, Alfred University and American University. **Awards:** President, American Physical Society, 1946; Philosophical Society of Washington, 1951; American Association for Advancement of Science, 1953.

COOK, Ellsworth D. (A'21—VA'39—F'41), Manager Electronic Engineering, Electrical Engineering Laboratory, General Engineering Laboratory, General Electric Company, 1 River Rd., Schenectady, N.Y.
Born: June 17, 1898, Schenectady, N.Y. B.S.(E.E.), 1920, M.S.(E.E.), 1921, Ph.D.(E.E.), 1923, Union College. **Committees:** Admissions, 1944–48; Membership, 1936–40, 1942–48, *chairman, 1940, 1944–45;* Sections, 1935, 1937–47, *chairman, 1938–39, 1940–48;* Standards, 1932-33. **Sections:** Philadelphia, *chairman, 1934–35.* **IRE Representative:** ASA Sectional Committee on Acoustical Measurements and Terminology, 1936, 1939–46.

COOLEY, Austin G. (M'44—F'55), Executive Vice-President and Director of Engineering, Times Facsimile Corporation, 540 W. 58 St., New York 19, N.Y.
Born: February 9, 1900, Seattle, Wash. **Committees:** Facsimile, 1945–57, *vice-chairman, 1953–55.* **Awards:** Certificate of Appreciation, War Department, 1946; Marconi Memorial Medal of Achievement, 1956.

CORCORAN, George F. (A'43—SM'53—F'56), Professor and Chairman, Department of Electrical Engineering, University of Maryland, College Park, Md.
Born: September, 1900, Redfield, S.D. B.S., 1923, South Dakota State College; M.S., 1926, University of Minnesota. **IRE Representative:** University of Maryland, 1950–53. **Awards:** Fellow, American Institute of Electrical Engineers, 1950.

CORRINGTON, Murlan S. (SM'49—F'54), Manager, RCA Victor Television Division, Camden 8, N.J.
Born: May 26, 1913, Bristol, S.D. B.S.,(E.E.), 1934, South Dakota School of Mines and Technology; M.Sc., 1936, Ohio State University. **Committees:** Ad Hoc Committee on Spurious Radiation, 1954–55; Professional Groups, 1956–58; Radio Frequency Interference 1955–58. Sound Recording and Reproducing, 1950–56, *vice-chairman, 1953–56.* **Professional Groups:** Audio, Administrative Committee, 1952–58, *vice-chairman, 1954–56;* Philadelphia Chapter, *chairman, 1953–54,* Circuit Theory, Administrative Committee, 1954–57. **Sections:** Philadelphia, *treasurer, 1953–54, secretary, 1954–55, vice-chairman, 1955–56, chairman 1956–57.*

CORWITH, Howard P. (M'26—SM'43—F'52), Vice-President, Development and Research, The Western Union Telegraph Company, 60 Hudson St., New York 13, N.Y.
Born: December 3, 1892, Water Mill, L.I., N.Y. M.E., 1916, Cornell University. **Committees:** Admissions, 1949–54, *chairman, 1952–53;* Electronics, 1938–45; Tellers, 1941. **Awards:** Fellow, American Institute of Electrical Engineers, 1951.

COSENTINO, Adolfo T. (A'37—VA'39—F'40), Operations and Communications Superintendent (Argentina), Pan American-Grace Airways, Inc., Avenida Pte. R. Saenz Pena 788, Buenos Aires, Argentina.
Born: November 18, 1898, Buenos Aires, Argentina. National School, Buenos Aires. **IRE Offices;** Vice-President, 1941; Director, 1941. **Committees:** Sections, ex-officio, 1940–41, 1947–48. **Sections:** Buenos Aires, *chairman, 1940–41, 1947–48.*

COSTA, Helio (A'50—M'55—F'58), Brigadeiro Do Ar, Brazilian Air Force, Airways and Communications, Diretoria De Rotas Aereas, Aeroporto Santos Dumont, Rio de Janeiro, Brazil.
Born: September 19, 1910, Rio de Janeiro, Brazil. E.E., Stanford University, 1945.

CRAIG, Palmer M. (A'34—SM'45—F'54), Vice-President, Engineering, Television and Radio Division, Philco Corporation, Tioga & C Sts., Philadelphia 34, Pa.
Born: January 29, 1904, Cherry Hill, Md. B.S.(E.E.), 1927, University of Delaware. **Sections:** Philadelphia, *secretary, 1945, vice-chairman, 1946, chairman, 1947.* **Awards:** Navy Ordnance Award, U. S. Navy, 1945; U. S. Certificate of Commendation, U. S. Navy, 1947.

CRAIN, Cullen M. (S'42—M'49—SM'54—F'58), Group Leader, Electronics Department, The Rand Corporation, 1700 Main St., Santa Monica, Calif.
Born: September 10, 1920, Goodnight, Texas. B.S.(E.E.), 1942, M.Sc.(E.E.), 1947, Ph.D., 1952, University of Texas.

CRAVEN, Tunis A. M. (F'29), Commissioner, Federal Communications Commission, New Post Office Bldg., Washington 25, D.C. Mail: Langley, McLean P.O., Va.
Born: January 31, 1893, Philadelphia, Pa. Graduate, 1913, United States Naval Academy. **IRE Offices:** Director, 1937. **Committees: Awards;** Broadcast, 1934–35; Meetings and Papers, 1930–31; Papers, 1932–41; Radio Transmitters and Antennas, 1930–31; Standardization, 1929–31. **Professional Groups:** Communications Systems, 1957.

CRAWFORD, Arthur B. (A'29—SM'46—F'52), Technical Staff, Radio Research Engineer, Bell Telephone Laboratories, Inc., Box 107, Red Bank, N.J.
Born: February 26, 1907, Graysville, Ohio. B.S.(E.E.), 1928, Ohio State University. **Committees:** Editorial Reviewer, 1954–55; Wave Propagation, 1949–58.

CROSBY, Murray G. (A'25—M'38—SM'43—F'43), President and Research Director, Crosby Laboratories, Inc., Box 233, Robbins Lane, Hicksville, L.I., N.Y.
Born: September, 1903, Elroy, Wis. B.S., 1927, E.E., 1943, University of Wisconsin. **IRE Offices:** Director, 1947–49. **Committees:** Admissions, 1945–46; Annual Review, 1946–47; Appointments, 1947–48, *chairman, 1948;* Awards, 1950–52, *chairman, 1950;* Board of Editors, 1946–53; Editorial Administrative, 1946–50; Editorial Reviewer, 1954–58; Executive, 1949; Frequency Modulation, 1940–47, *chairman, 1946–47;* Modulation Systems, 1947–50, *chairman, 1947–48;* National Convention, 1948; Papers, 1944–45; Papers Procurement, 1945; Papers Review, 1946–51, *chairman, 1946–48;* Policy Development, 1948–50; Professional Groups, 1948; Standards, 1946–48. **IRE Representative:** IRE-RTMA, Problem No. 2, *chairman, 1951.* **Awards:** Modern Pioneer Award, National Association of Manufacturers, 1940.

CULLUM, A. Earl, Jr. (J'28—A'31—SM'45—F'48), Head, A. Earl Cullum, Jr., Consulting Engineers, Inwood P.O., Dallas 9, Tex.
Born: September, 1909, Abilene, Tex. B.S. (Communications Engineering), 1931, Massachusetts Institute of Technology. **IRE Offices:** Director, 1948. **Committees:** Annual Review, 1948–49; Nominations, 1949–50; Policy Development, 1949–50; Radio Wave Propagation and Utilization, 1946–47; Standards, 1948–49; Wave Propagation, 1948–56, *chairman, 1948–49.* **Professional Groups:** Broadcast Transmission Systems, Administrative Committee 1956–59. **Awards:** Presidential Certificate of Merit, 1948.

CULVER, Charles (M'20—SM'43—F'54)(L), Consulting Engineer, 740 W. Harrison Ave., Claremont, Calif.
Born: September 22, 1875, Preston, Minn. B.S., 1902, Carleton College; Ph.D., 1907, University of Pennsylvania; Research Fellow, 1917, Harvard University; 1930, University of Cambridge, England. **Sections:** Twin Cities, *chairman, 1941–42.* **IRE Representative:** Carleton College, 1941–45. **Awards:** Member, Acoustical Society of America; Fellow, American Institute of Electrical Engineers; Member, Scientific Research Society of America.

CUTLER, C. Chapin (A'40—SM'53—F'55), Member of the Technical Staff, Bell Telephone Laboratories, Inc., Murray Hill, N.J.
Born: December 16, 1914, Springfield, Mass. B.S., 1937, Worcester Polytechnic Institute. **Committees:** Editorial Reviewer, 1954–58.

CUTTING, Fulton (M'15—F'21)(L), Trustee, Professor of Physics and Assistant to the President, Stevens Institute of Technology, Hoboken, N.J.
Born: December 27, 1886, New York, N.Y. **IRE Offices:** President, 1922; Vice-President, 1921; Manager, 1920; Director, 1921–24. **Committees:** Education, 1944; Investments, 1944–46.

DARLINGTON, Sidney (SM'53—F'57), Member, Technical Staff, Bell Telephone Laboratories, Inc., Murray Hill, N.J.
Born: July, 1906, Pittsburgh, Pa. B.S., 1928, Harvard University; B.S.(E.E.), 1929, Massachusetts Institute of Technology; Ph.D., 1940, Columbia University. **Committees:** Editorial Reviewer, 1954–58. **Professional Groups:** Circuit Theory, *vice-chairman, 1957.*

DAVENPORT, Wilbur B., Jr. (S'40—A'42—M'48—SM'54—F'58), Division Head, Lincoln Laboratory, Massachusetts Institute of Technology, P.O. Box 73, Lexington 73, Mass.
Born: July 27, 1920, Philadelphia, Pa. B.S.(E.E.), 1941, Alabama Polytechnic Institute; M.Sc.(E.E.), 1943, D.Sc., 1950, Massachusetts Institute of Technology. **Committees:** Editorial Reviewer, 1954–58; Information Theory and Modulation Systems, 1953–55. **Professional Groups:** Information Theory, Administrative Committee, 1954–58, *vice-chairman, 1956–57; chairman, 1957–58.*

DAVIS, Harry I. (A'44—SM'49—F'55), Technical Director, Rome Air Development Center, Griffiss Air Force Base, 901 Turin St., Rome, N.Y.; Special Lecturer, Graduate Electrical Engineering, Columbia University, New York, N.Y.
Born: December, 1909, New York, N.Y. B.S., 1931, E.E., 1933, College of the City of New York; M.E.E., 1948, Polytechnic Institute of Brooklyn. **Committees:** Navigation Aids, 1950–55. **Sections:** Rome-Utica, *chairman, 1954.*

DAVIS, Thomas McL. (M'28—SM'43—F'56), Retired. 4302 Brandywine St., N.W., Washington 16, D.C.
Born: August 17, 1890, Farmington, Me. **Committees:** Registration and Arrangements, IRE National Convention, *chairman, 1929;* Standardization, 1929–31. **Sections:** Washington, *acting secretary, 1928–29, vice-chairman, 1929–30, chairman, 1934–35.* **Awards:** Distinguished Service Award of Washington Section, 1957; Navy Distinguished Civilian Service Award, 1957. RESA.

DAWSON, John W. (A'39—SM'52—F'55), Chief Engineer Special Tube Operations, Sylvania Electrical Products, Inc., 1891 E. Third St., Williamsport, Pa.
Born: February 22, 1901, Sumner, Iowa. B.S.(E.E.), 1926, Iowa State College; M.S.(E.E.), 1938, University of Pittsburgh. **Awards:** National Prize for Best Paper in the Field of Engineering Practice for 1937, AIEE.

DEARDORFF, Ralph W. (A'14—SM'44—F'51), Retired, 1831 N.W. Ramsey Dr., Portland 10, Ore.
Born: August 9, 1894, Portland, Ore. **Sections:** Portland, *chairman, 1942–43, vice-chairman, 1946–47.*

DeCOLA, Rinaldo E. (A'37—SM'43—F'57), 21 N. Lincoln Ave., Park Ridge, Ill.
Committees: Radio Receivers, 1951–54. **Professional Groups:** Broadcast and Television Receivers, Administrative Committee, 1956–57.

de FOREST, Lee (Charter Member)(A'12—M'14—F'18)(L), Director, United Engineering Company, 1027 N. Highland Ave., Los Angeles, Calif.
Born: August 26, 1873, Council Bluffs, Iowa. Ph.B., 1896, Ph.D., 1899, Yale University; Sc.D., 1919, Syracuse University; D.Sc., 1926, Yale University; D.Eng., 1937, Lewis Institute; LL.D., Talladega College, Beloit College; D.Sc., College of Osteopathic Surgery, 1951. **IRE Offices:** President, 1930; Director, 1930–32. **Committees:** Specifications for Steamship Radio Equipment, 1914–15; Wave Length Regulations, 1916–17. **Awards:** Edison Medal, 1947; IRE Medal of Honor, 1922; Legion of Honor, 1921, Officer, 1956; President, Society of Wireless Telegraph Engineers, 1909–10.

DELLINGER, John Howard (F'23)(L), Radio Consultant and Adviser, 3900 Connecticut Ave., Washington 8, D.C.
Born: July 3, 1886, Cleveland, Ohio. A.B., 1908, George Washington University; Ph.D., 1913, Princeton University; D.Sc., 1932, George Washington University. **IRE Offices:** President, 1925; Vice-President, 1924; Director, 1924–27; Manager, 1928–31. **Committees:** Annual Review, 1938–43; Awards, 1934, 1936; Bibliography, 1930–32, 1934, *chairman, 1931;* Meetings and Papers, *chairman, 1928;* Nominations, 1928, 1931, 1935, *chairman, 1931;* Radio Receivers, 1927–28; Radio Wave Propagation, 1942–45, *chairman, 1942–44;* Revision of the Constitution, *chairman, 1927;* Standardization, 1920–25, 1927–32, *chairman, 1929–31;* Standards, 1932–41, 1943–44; Symbols, 1940–41, 1943–48; Use of the Transmission Unit, 1928–29; Wave Propagation, *chairman, 1937–41,* 1956–58. **Sections:** Washington, D.C., *chairman, 1932–33.* **IRE Representative:** American Documentation Institute, 1944–52; ASA Sectional Committee (C60) on Electric and Magnetic Magnitudes and Units, 1936, 1939–48, 1950; International Electrotechnical Commission, Scandinavia, 1930. **Awards:** IRE Medal of Honor, 1938; Distingiushed Service Award of Washington Section, 1956.

DELORAINE, Edmond M. (M'25—F'41), Vice-President and Technical Director, International Standard Electric Corporation, 67 Broad St., New York 4, N.Y.
Born: May 16, 1898, Clichy, Seine, France. B.S., 1920, Ecole de Physique et Chimie. Ingénieur-Docteur, University of Paris. **IRE Offices:** Vice-President, 1946; Director, 1946. **Committees:** Board of Editors, 1944–45; Membership, 1927. **IRE Representative:** International Liaison Committee, 1947.

DEMPSTER, Burgess (A'31—M'44—SM'48—F'57), President, Electronic Engineering Company of California, 1601 E. Chestnut Ave., Santa Ana, Calif.
Born: November, 1907, Berkeley, Calif. B.S.(E.E.), 1929, University of California. **Committees:** 7th Region, *secretary-treasurer, 1956–57.* **Sections:** Cincinnati, Membership Committee, *chairman, 1948.* Los Angeles, Research Committee, *chairman, 1957–58.* **Professional Groups:** Los Angeles Chapter, *chairman,* Engineering Managament, 1955–56. **IRE Representative:** Publicity Committee, IRE-WESCON, 1948; Visitors' Hospitality Committee, IRE-WESCON, *chairman, 1950;* Convention Registration Committee, IRE-WESCON, *chairman, 1952, 1954;* IRE-WESCON, *chairman 1958,* Field Trips Committee.

deROSA, Louis A. (A'45—SM'51—F'52), Laboratory Director Electronic Countermeasures Laboratory, Federal Telecommunication Laboratories, a division of IT&T Corp., 500 Washington Ave., Nutley 10, N.J.
Born: September 10, 1910, Tenafly, N.J. B.S.(E.E.), 1932, Polytechnic Institute. **Committees:** Modulation Systems, 1951–58. **Professional Groups:** Information Theory, *vice-chairman, 1954–55, chairman, 1955–56.*

DEVORE, Lloyd T. (A'42—SM'44—F'52), General Manager, Stewart-Warner Electronics, Division of Stewart-Warner Corporation, 1300 N. Kostner Ave., Chicago 51, Ill.
Born: November 14, 1909, Monongahela, Pa. B.S., 1930, M.S., 1931, Ph.D., 1933, Pennsylvania State College. **Committees:** Awards, 1952–53; Papers Review, 1951–53; Program, *chairman, 1948–49, 1952–53.* **Professional Groups:** Engineering Management, *secretary, 1951–54.* **Awards:** Exceptional Civilan Service Award, 1947, War Department.

DeWITT, John H., Jr. (A'31—M'38—SM'43—F'51), President, WSM Incorporated, 301 7 Ave., N., Nashville 3, Tenn.
Born: February 20, 1906, Nashville, Tenn. **Committees:** Professional Groups, 1948.

DIEHL, William F. (A'19—F'36), Assistant Vice-President, Dumont Airplane and Marine Instruments, Inc., Clearfield, Pa.
Born: December 18, 1896, New York, N.Y. **Committees:** Building Fund, 1945; Radio Receivers, 1928–29; Radio Transmitters and Antennas, 1929–30; **Sections:** Philadelphia, *chairman, 1933–34, convention chairman, 1934.* **Awards:** United States Navy Certificate Commendation.

DIETZOLD, Robert L. (M'40—SM'43—F'55), Director, Military Systems Studies, Bell Telephone Laboratories, Inc., Whippany, N.J.
Born: August 3, 1904, Akron, Ohio. B.S., 1925, Massachusetts

Institute of Technology; Ph.B., 1927, Yale University. **Committees:** Administrative Committee of the Board of Editors, 1951–53; Board of Editors, 1951–53; Circuits, 1949–53; Circuit Theory, *chairman, 1952–53;* Editorial Administrative, *alternate, 1949–50;* Handbook, 1945–47; Papers Review, 1948–49.

DINGER, Harold E. (A'27—M'43—SM'43—F'58), Electronic Scientists, Naval Research Laboratory, Washington 25, D.C.
Born: May 7, 1905, Barberton, Ohio. **Committees:** Measurements and Instrumentation, 1952–53; Radio Frequency Interference, 1955–57; Wave Propagation, 1953–56. **Awards:** Meritorious Civilian Service Award, U. S. Navy, 1945; Service Appreciation Award, American Standards Association, 1946.

DINGLEY, Edward N., Jr. (A'28—M'43—SM'43—F'56), Staff Research Engineer, Electronic Communications, Inc., 1501 72nd St., N., St. Petersburg 10, Florida.
Born: July 18, 1902, Kalamazoo, Mich. B.Sc.(E.E.), 1936 George Washington University. **Professional Groups:** Communications Systems; Administrative Committee, *vice-chairman, 1957–58;* Chapter Activities Sub-Committee, *chairman, 1956–57;* Washington Chapter PGCS, *vice-chairman, 1955–56, chairman, 1956–57, secretary,* 1954–55; PGCS National Symposium on Global Communications, Washington, 1954; Technical Papers Committee, *vice-chairman.* **Sections:** Florida West Coast; Professional Groups Committee, *chairman, 1957–58.* **Awards:** Fellow, AIEE, 1957. Department of Defense Distinguished Civilian Service Medal, 1955.

DISHAL, Milton (A'41—SM'46—F'57), Executive Engineer, Federal Telecommunication Laboratories, 500 Washington Ave., Nutley 10, N.J.
Born: March, 1918, Philadelphia, Pa. B.S., 1939, M.A. (Physics), 1941, Temple University. **Committees:** Convention Record, 1955–56; Editorial Reviewer, 1953–58. **Professional Groups:** Circuit Theory, *secretary-treasurer, 1953–56;* Administrative, 1954–56.

DiTORO, Michael J. (A'37—SM'45—F'58), Director of Engineering, Polytechnic Research and Development Company, Inc., Brooklyn, N.Y.
Born: June 24, 1910, Campobasso, Italy. E.E., 1931, M.E.E., 1933, D.E.E., 1946, Polytechnic Institute of Brooklyn. **Committees:** Papers Review, 1945–53; Electroacoustics, 1946, 1951–52. **Professional Groups:** Administrative Committee, Information Theory, *chairman, 1956.* **Awards:** Fellow, Acoustical Society of America.

DOHERTY, William H. (A'29—M'36—SM'43—F'44), Manager, Government Sales, Western Electric Company, 120 Broadway, New York 5, N.Y.
Born: August 21, 1907, Cambridge, Mass. S.B., 1927, S.M., 1928, Harvard University; Sc.D., 1950, Catholic University of America. **IRE Offices:** Director, 1951–53, 1958. **Committees:** Appointments, 1957; Editorial Reviewer, 1954–55; Membership, 1943–46; Nominations, 1952–53, *chairman, 1953;* Policy Advisory, 1952–53; Policy Development, 1951; Professional Groups, 1948–51. **IRE Representative:** Joint AIEE-IRE Student Activities Coordination Committee, 1958–59. **Awards:** IRE Morris Liebmann Memorial Prize, 1937.

DOME, Robert B. (A'27—M'38—SM'43—F'48), Consulting Engineer, Television Receiver Department, Appliance and Television Receiver Division, Consumer Products Group, General Electric Company, Syracuse, N.Y.
Born: October 12, 1905, Tell City, Ind. B.S. (E.E.), 1926, Purdue University; M.S.(E.E.), 1929, Union University. **Committees:** Board of Editors, 1946–53; Editorial Reviewer, 1954–58; Papers, 1940–45. **Awards:** Coffin Award, 1936, 1948; IRE Morris Liebmann Memorial Prize, 1951; R.E.S.A., 1951.

DOOLITTLE, Franklin M. (A'13—M'30—F'54), President, Connecticut Broadcasting Company, 869 Blue Hills Ave., Hartford 12, Conn.
Born: June, 1893, New Haven, Conn. Ph.B., 1915, Yale University. **Committees:** Modulation Systems, 1947–48; Standardization 1927–28.

DORSEY, Herbert Grove (M'19—F'34)(L), Retired, 3708 33 Pl., N.W., Washington 8, D.C.
Born: April 24, 1876, Kirkersville, Ohio. B.S., 1897, M.S., 1898, Sc.D. (Honorary), 1937, Denison University; Ph.D., 1908, Cornell University. **Sections:** Washington, D.C., *secretary, 1930–32, chairman, 1933.* **Awards:** First Annual Award, Washington Society of Engineers, 1941; Fellow, Acoustical Society of America; AIEE; Fellow, American Association for the Advancement of Science.

DOW, JENNINGS B. (M'26—F'42), President, Hazeltine Electronics Division of Hazeltine Corporation, 58-25 Little Neck Pkwy., Little Neck, L.I., N.Y.
Born: January 2, 1897, Bowling Green, Ohio. B.S., 1919, United States Naval Academy; M.S. 1926, Graduate School of Engineering, Harvard University.

DOW, William G. (M'39—SM'43—F'50), Professor of Electrical Engineering, University of Michigan, Ann Arbor, Mich.
Born: September 30, 1895, Faribault, Minn. B.S.(E.E.), 1916, E.E., 1917, University of Minnesota; M.S.E.(E.E.), 1929, University of Michigan. **Committees:** Board of Editors, 1944–53; Electronics, 1939–45; Electron Tubes, 1946–47; Electron Tubes and Solid State Devices, 1949–52; Papers, 1941–44; Research, 1949–50; Vacuum Tubes, 1945–46. **Awards:** Fellow, American Institute of Electrical Engineers.

DRAKE, Frederick H. (A'25—M'28—SM'43—F'57), Inventor, Old Denville Rd., Boonton, N.J.
Born: June, 1901, Watertown, Mass. A.B., 1923, A.M., 1925, Ph.D., 1926, Harvard University. **Committees:** Papers, 1933.

DRAPER, Charles S. (A'53—F'55), Professor and Head, Department of Aeronautical Engineering; Director of Instrumentation Laboratory, Massachusetts Institute of Technology, 68 Albany St., Cambridge 39, Mass.
Born: October 2, 1901, Windsor, Mo. B.A., 1922, Stanford University; B.S., 1926, M.S., 1928, ScD., 1938, Massachusetts Institute of Technology. **Committees:** Electronics Computers, 1948–49. **Awards:** IAS Sylvanus Albert Reed Award, 1946; Presidential Medal for Merit, 1946; Naval Ordnance Development 1946; New England Award, Engineering Societies of New England, 1947; Exceptional Civilian Service Award, Department of the Air Force, 1951; Testimonial of Appreciation, Society of Mechanical Engineers, 1951; 43rd Wilbur Wright Memorial Lecturer, Royal Aeronautical Society, London, 1955; Navy Distinguished Public Service Award, 1956; Airpower Award of Massachusetts Wing of Air Force Association, 1957; Thurlow Award of Institute of Navigation, 1957; Airpower Trophy of Air Force Association, 1957; Holley Medal of American Society of Mechanical Engineers, 1957.

DREHER, Carl (F'57), Writer, RD 3, Brewster, N.Y.
Born: February 16, 1896, Vienna, Austria. B.S., 1917, College of the City of New York. **Committees:** Board of Editors, 1928–29; Broadcasting, 1928–29; Meetings and Papers, 1926-29, Standardization, 1929–30.

DUBILIER, William (A'14—M'18—F'29)(L), Vice-President and Technical Director, Cornell-Dubilier Electric Corporation; President, Radio Patents Corporation, 10 E. 40 St., New York 16, N.Y.
Born: July 25, 1888, New York, N.Y. Attended Cooper Institute. **Awards:** Fellow, American Institute of Electrical Engineers, 1925; French Legion of Honor and Officer of the French Academy, 1949; Gano Dunn Medal, Cooper Union, New York, N.Y., 1955.

DUFFENDACK, Ora S. (SM'44—F'56), Consultant Physicist, Retired.
Born: May, 1890, Napoleon, Mo. B.S., 1917, University of Chicago; A.M., 1921, Ph.D., 1922, Princeton University. **Committees:** Papers Review, 1946–53. **Awards:** King's Medal for Service in the Cause of Freedom, 1948; President's Certificate of Merit, 1948.

DUMONT, Allen B. (M'30—F'31), Chairman of the Board, Allen B. DuMont Laboratories, Inc., 750 Bloomfield Ave., Clifton, N.J., and DuMont Broadcasting Corporation, 205 E. 67 St., New York 21, N.Y.
Born: January 29, 1901, Brooklyn, N.Y., E.E., 1924 D.Eng., 1944 Rensselaer Polytechnic Institute. D.Eng., Brooklyn Polytechnic Institute, 1949; D.Laws, Fairleigh Dickinson University, 1955; D.Science, New York University, 1955. **Committees:** Standardization, 1929–31; Standards, 1932; Television, 1939–45. **Awards:** Westinghouse Award, 1927; American Television Society Award, 1943; Television Broadcasters Award, 1944; Marconi Memorial Medal of Achievement, 1945; AAAA Gold Medal Award, 1947; American Schools and Colleges Awards; Chevalier in National Order of French Legion of Honor, 1952 .

DUNN, William L. (M'41—S'43—F'54), Vice-President, Director of Engineering, Admiral Corporation, 3800 W. Cortland St., Chicago 47, Ill.
Born: December 19, 1903, Asheville, N.C. A.B., 1926, Johns Hopkins University. **Committees:** Radio Receivers, 1940–47.

DUNNING, Orville M. (A'34—SM'44—F'55), Vice-President, Engineering and Production Division, Airborne Instruments Laboratory, 160 Old Country Rd., Mineola, L.I., N.Y.
Born: February 21, 1904, St. Louis, Mo. B.S.(E.E.), 1925, Rose Polytechnic Institute. **Committees:** Admissions, 1946–47. **Sections:** Long Island Subsection, *chairman, 1949–50.*

DYER, John N. (J'30—A'32—SM'45—F'49), Vice-President, Research and Engineering, Airborne Instruments Laboratory, 160 Old Country Rd., Mineola, L.I., N.Y.
Born: July, 1910, Haverhill, Mass. B.S., 1931, Masschusetts Institute of Technology. **IRE Offices:** Director, 1955–56. **Committees:** American Institute of Electrical Engineers—Institute of Radio Engineers Coordination Committee on Student Activities, 1955–56; Appointments, 1955–56; Education, 1955–58; Fellow, 1958; Navigation Aids, 1949–50; Nominations, 1956; Policy Advisory, 1955-57, *chairman, 1956.* **Sections:** Long Island Subsection, *vice-chairman, 1949–50, chairman, 1950–51.*

EASTHAM, Melville (A'13—M'13—F'25)(L), 8 Graygardens, E., Cambridge, Mass.
Born: June 26, 1885, Oregon City, Ore. Dr.Eng., 1946 (Honorary), Oregon State College. **IRE Offices:** Treasurer, 1928–40; Manager, 1922–27; Director, 1927–41; Administrator, Building Fund, 1947–48. **Committees:** Admissions, 1937–39, 1941–42; Awards, 1929, 1931, 1935, 1939, 1941–42, *chairman, 1929, 1941;* Bibliography, 1930–32, 1934, *chairman, 1932, 1934;* Constitution and Laws, 1930–31, 1933; Education, 1944–48; Electro-Acoustic Devices, 1929–30; History, 1954–57; Nominations, 1929–30, 1932, 1935–36, 1938–39, 1941, 1949–50, *chairman, 1929, 1935;* Papers, 1916–19; Revision of the Constitution, 1925; Sections, 1925; Standardization, 1925–31; Standards, 1936–38; Wave Length Regulation, 1916–17. **Sections:** Boston, *secretary, 1914–15, secretary-treasurer, 1916–29, secretary, 1930–32.* **IRE Representative:** Engineering Index National Committee, 1936, 1939–43; Radio Broadcasting Committee, American Engineering Council, 1930, 1936, 1939, 1940; United States National Committee, Advisers on Electrical Measuring Instruments, 1936, 1939–40, 1949–51. **Awards:** IRE Medal of Honor, 1937; Medal for Merit, 1948; New England Engineering Award, 1948.

EASTMAN, Austin V. (A'23—M'32—F'41), Professor and Head of Department of Electrical Engineering, University of Washington, Seattle 5, Wash.
Born: May 16, 1902, Seattle, Wash. B.S.(E.E.), 1922, M.S. (E.E.), 1929, University of Washington. **IRE Offices:** Director, 1950–51. **Committees:** Awards, 1951; Membership, 1941–48; Nominations, 1954; Papers Procurement, 1942–43; Policy Development, 1949–51; Regular Papers, 1941. **Sections:** Seattle, *chairman, 1929–30.* **IRE Representative:** University of Wisconsin, 1941–47.

ECKERSLEY, Peter Pendleton (F'25), Telephone Manufacturing Company, St. Mary Cray, Kent, England.
Born: January, 1892, La Puebla, Mexico. Certificate of Technology, 1915, Manchester School of Technology; Higher Certificate, 1910, Bedales School. **IRE Offices:** Vice-President, 1937; Director, 1937. **Awards:** Premium Prize Award, Institution of Electrical Engineers, 1928, 1930.

ECKERT, John Presper (S'41—A'47—F'56), Vice-President, Director of Engineering, Remington Rand, Inc., Eckert-Mauchly Division, 2300 W. Allegheny Ave., Philadelphia 29, Pa.
Born: April 9, 1919, Philadelphia, Pa. B.S.(E.E.), 1941, M.S. (E.E.), 1943, University of Pennsylvania. **Committees:** Electronic Computers, 1948–50. **Awards:** Howard W. Potts Medal, Franklin Institute, 1949.

EDGERTON, Harold E. (SM'55—F'56), Professor of Electrical Measurements, Massachusetts Institute of Technology, Cambridge 39, Mass.
Born: April 6, 1903, Fremont, Neb. B.S., 1925, University of Nebraska; M.S., 1927, D.Sc., 1931, Massachusetts Institute of Technology. **Awards:** Modern Pioneers Award, National Association of Manufacturers, 1940; Joseph A. Sprague Memorial Award, National Press Photographic Association, 1949; Franklin L. Burr Prize, National Geographic Society, 1953.

EDLEFSEN, Niels E. (SM'52—F'54), Vice-President and Director of Engineering, Vickers, Inc., Division of Sperry Rand Corporation, Administrative and Engineering Center, Detroit 32, Mich.
Born: January 29, 1893. B.S. (physics), 1916, Utah State College; M.A. (physics), 1923, Ph.D. (physics), 1930, University of California. **Awards:** Fellow, American Physical Society; Fellowship, Charles A. Coffin, 1928–30; Honorable Mention, Nobel Prize, Physics, 1939.

EDSON, William A. (M'41—SM'43—F'57), Consulting Engineer, General Electric Microwave Laboratory, 601 California Ave., Palo Alto, Calif.
Born: October, 1912, Burchard, Neb. B.S. and M.S., 1934–35, University of Kansas; Sc.D., 1937, Harvard University. **Committees:** Editorial Reviewer, 1953–58; Education, 1955–58; Papers, 1951–53; Piezoelectricity, 1949–58. **Sections:** Atlanta, *vice-chairman, 1947, chairman, 1948;* San Francisco, *director, 1955.* **IRE Representative:** WESCON, Technical Program Committee, 1955; Microwave Theory and Techniques National Symposium, Steering Committee.

EDWARDS, Martin (SM'48—F'54), Manager of Engineering, X-Ray Department, General Electric Company, 4855 Electric Ave., Milwaukee 14. Wis.
Born: March 22, 1905, Chautauqua, Kan. B.S.(E.E.), 1928; B.S.(M.E.), 1929; M.E., 1934; D.Sc., 1946. **Awards:** Fellow, AIEE, 1946.

EITEL, William W. (A'39—SM'52—F'53), President, Eitel-McCullough, Inc., 798 San Mateo Ave., San Bruno, Calif.
Born: January 16, 1908, San Jose, Calif. **Awards:** Distinguished Service Award, U. S. Navy, 1950.

ELLEFSON, Bennett S. (A'38—M'44—F'48), Vice-President, Engineering and Research, Sylvania Electric Products, Inc., 1740 Broadway, New York 19, N.Y.
Born: January 10, 1911, Canby, Minn. B.A., 1932, St. Olaf College; M.S., 1933, University of Minnesota; Ph.D., 1937, Pennsylvania State University. **Committees:** Annual Review, 1946–47.

ELLIOTT, Harold F. (M'25—SM'43—F'51), Consulting Engineer, 800 Westridge Dr., Menlo Park, Calif.
Born: June 17, 1892, Durango, Colo. A.B., 1916; Engineer, 1925, Stanford University.

ELWELL, Cyril F. (M'14—F'18)(L), Consulting Engineer, Hewlett-Packard Company, 275 Page Mill Rd., Palo Alto, Calif.
Born: August 20, 1884, of American Parents, Melbourne, Victoria,

Australia. A.B., 1907, E.E., 1908, Stanford University. **Committees:** Increase of Membership, 1913–14. **Awards:** Honorary Life Member of the Institution of Radio Engineers, Australia, 1954.

ENGLEMAN, Christian L. (SM'46—F'54), President, Engleman and Company, Inc., 2480 16 St., N.W., Washington 9, D.C.
Born: April 3, 1906, Vancouver, Clark County, Wash. B.S., 1930, United States Naval Academy College; M.S., 1938, Harvard University. **Committees:** Professional Groups, 1958. **Professional Groups:** Communications Systems, Washington Chapter, *chairman, 1954, vice-chairman, 1956;* Millitary Electronics, *chairman, 1956.*

ENGSTROM, Elmer W. (A'25—M'38—F'40), Senior Executive Vice-President and Director, Radio Corporation of America, 30 Rockefeller Plaza, New York 20, N.Y.
Born: August 25, 1901, Minneapolis, Minn. B.S.(E.E.), 1923, University of Minnesota; Sc.D. (Honorary), 1949, New York University. **IRE Offices:** Director, 1949. **Committees:** Awards, 1945–49, *chairman, 1946;* Board of Editors, 1940–51; Nominations, 1947; Public Relations, 1940; Regular Papers, 1941; Research, 1946–47, 1949–50; Television and Facsimile, 1936–38; Television, 1939–40.

EPPERSON, Joseph B. (A'34—M'38—SM'43—F'58), Engineering Vice-President, Scripps-Howard Radio, Inc., Euclid Ave. & E. 30 St., Cleveland 15, Ohio.
Born: May, 1910, Charleston, Tenn. **Sections:** Cleveland, *secretary-treasurer, 1948–49, vice-chairman, 1949–50, chairman, 1950–51.* **Professional Groups:** Administrative Committee, Broadcast Transmission Systems, 1951–55; Annual Symposium, *chairman, 1954.* **Awards:** Award Certificate for Service as Chairman of National AIEE Committee on TV and Aural Broadcasting Systems, 1955–56. Fellow, American Institute of Electrical Engineers, 1958.

EPSTEIN, David W. (A'34—SM'43—F'52), Associate Director, Electronic Research Laboratory, RCA Laboratories Division, Radio Corporation of America, Princeton, N.J.
Born: January 11, 1908, Russia. B.S. (Physics), 1930, Lehigh University; M.S.(E.E.), 1934; D.Sc.(E.E.), 1937, University of Pennsylvania. **Committees:** Editorial Reviewer, 1954–58.

ESPENSCHIED, Lloyd (IRE Charter Member) (A'12—M'13—F'24)(L) Retired from Bell Telephone Laboratories, Inc., Consultant, 99 82 Rd., Kew Gardens 15, N.Y.
Born: April 27, 1889, St. Louis, Mo. Pratt Institute, 1909, D.Sc. (Honorary), 1957. **IRE Offices:** Manager, 1912–13, 1915–26, 1931. **Committees:** Admissions, 1942–47; Awards, 1919; Editing, 1914; History, 1954–58; Increase of Membership, 1917–18; Radio Telephone and Receiver Terminology, *chairman, 1924–25;* Revision of the Constitution, 1925; Standardization, 1924–25; Wave Length Regulation, 1916–17, 1919–20. **Sections:** New York, *chairman, 1944–45.* **IRE Representative:** National Advisory Council on Radio in Education, 1936–37, 1939–40; Committee on Engineering Developments, 1941–43. **Awards:** IRE Medal of Honor, 1940; AIEE Award (co-receiver), 1935; Medal Award, Television Broadcasters Association, 1944; Radio Pioneers, Citation, 1954.

ESPERSEN, George A. (A'34—VA'39—SM'51—F'56), Section Chief, Microwave and Electron Optics Sections, Philips Laboratories, Irvington-on-Hudson, N.Y.
Born: May 17, 1906, Jersey City, N.J. B.S. (Physics), 1931, New York University. **Committees:** Professional Groups, 1956; Electron Tubes and Solid-State Devices, 1951–52; Electron Devices, 1952–56. Electron Tubes, 1955–56, *vice-chairman, 1956–57, chairman, 1957–58.* **Professional Groups:** Electron Devices, *vice-chairman, 1953–54, chairman, 1954–55.* **Awards:** Samuel F. B. Morse Medal for Excellence in Physics, New York University, 1929.

ESPLEY, Dennis C. (SM'52—F'54), Dr., Chief Executive, Computer Developments, Ltd., Computer House, 390–394 Kenton Rd., Kenton, Middlesex, England.
Born: September 19, 1906, Wellington, Shropshire, England. B.Eng. (1st Class Honors), 1928; D.Eng., 1940, Liverpool University. **Awards:** Ambrose Fleming; Duddell; John Hopkinson; Officer of the Order of the British Empire, 1950.

EVANS, Porter H. (M'23—F'31), Retired from Technical Staff, Bell Telephone Laboratories, Inc., Whippany, N.J.
Born: January 11, 1891, Erie, Pa. B.S.(E.E.), 1914, M.S., 1920, University of Michigan. **Committees:** Standardization, 1930–31.

EVERITT, William L. (A'25—M'29—F'38), Dean of the College of Engineering, University of Illinois, Urbana, Ill.
Born: April 14, 1900, Baltimore, Md. E.E., 1922, Cornell University; M.S., 1926, University of Michigan; Ph.D., 1933, Ohio State University. **IRE Offices:** President, 1945; Director, 1942–47, 1949–51. **Committees:** Awards, 1943–44, 1948–49, *chairman, 1944;* Board of Editors, 1941–53; Awards Coordination, *chairman, 1955;* Circuits, 1944–51; Editorial Reviewer, 1954–58; Education, 1944, 1950, *chairman, 1944;* Executive, *chairman, 1945;* Frequency Modulation, 1941–45; Investments, 1945; Membership, 1942–43; Nominations, 1942, 1946, 1948–50, 1952, *chairman, 1948, 1952;* Papers, 1941; Papers Procurement, *vice-chairman, 1943–45;* Policy Development, 1948, 1950–51; Professional Groups, 1948–53, *chairman, 1949;* Public Relations, 1950–51; Regular Papers, *vice-chairman, 1941;* Research, 1946–47. **IRE Representative:** Ohio State University, 1941–42; Joint IRE-AIEE Co-ordination Committee, 1951; Committee on Evaluation of Bureau of Standards, 1953; Ad Hoc Committee on Coordination of Student Branches, 1954; Advisory Committee to National Bureau of Standards, 1954–58. **Awards:** IRE Medal of Honor, 1954.

EWING, Douglas H. (SM'46—F'54), Vice-President, Research and Engineering, Radio Corporation of America, Princeton, N.J.
Born: June 24, 1915, Mitchell, Ind. A.B., 1935, Butler University; M.S., 1937, Ph.D., 1939, University of Rochester; D.Sc. (Honorary), 1955, Butler University. **Committees:** Education, 1953–55; Navigation Aids, 1948-49.

FANO, Robert M. (S'41—A'45—SM'48—F'54), Professor of Electrical Communications, Department of Electrical Engineering and Research Laboratory of Electronics, Massachusetts Institute of Technology, 77 Massachusetts Ave., Cambridge 39, Mass.
Born: November 11, 1917, Torino, Italy. S.B., 1941, Sc.D., 1947, Massachusetts Institute of Technology. **Committees:** Antennas, 1949–50; Editorial Reviewer, 1954–58; Education, 1949–56; Papers Review, 1953; Awards, 1956–57. **Professional Groups:** Administrative Committee, Information Theory, 1951–57.

FARNSWORTH, Philo T. (A'28—M'34—F'39), Director, Vice-President and Technical Director, Farnsworth Electronics Company, a Division of International Telephone & Telegraph Corporation, 3700 E. Pontiac St., Fort Wayne, Ind.
Born: August 19, 1906, Beaver, Utah. D.Sc. (Honorary), 1951, Indiana Technical College. **Committees:** Television, 1940–41; Television and Facsimile, 1936–40. **Awards:** Honorable Mention Citation for Outstanding Young Electrical Engineers, Eta Kappa Nu, 1937; Distinguished Alumni Award, Brigham Young University, 1937; Darward Howes' list of ten most distinguished young men for "America's Young Men," 1940; Fellow, Society of Motion Picture and Television Engineers, American Association for the Advancement of Science; IRE Morris Liebmann Memorial Prize, 1941.

FARRAND, Clair L. (A'14—M'23—F'31), President, Farrand Optical Company; President, Farrand Controls, Inc.; President, Inductosyn Corporation, Bronx Blvd. & E. 238 St., New York 70, N.Y.
Born: October 22, 1895, Newark, N.J.

FARRELL, John J. (A'43—SM'47—F'48), General Manager, Heavy Military Electronic Equipment Department, Electronics Division, General Electric Company, Syracuse, N.Y.
Born: March, 1897, Watervliet, N.Y. **Committees:** Nominations, 1947. **IRE Representative:** ASA Sectional Committee (C16) on Radio, 1949–51; RMA-IRE Coordination, 1945–47.

FAULKNER, Harry (M'24—SM'43—F'53), Director, Telecommunications Engineering & Manufacturing Association, 40 Norfolk St., London, W.C. 2, England.
Born: April 17, 1892, Nottingham, England. B.Sc.(Eng.), London, 1911. **Awards:** Special Premium, IEE, 1927; Companion of the Order of St. Michael and St. George.

FAY, Clifford E. (A'26—SM'45—F'56), Member, Technical Staff, Bell Telephone Laboratories, Inc., Murray Hill, N.J.
Born: December 2, 1903, St. Louis, Mo. B.S.(E.E.), 1925, M.S. (E.E.) (Physics), 1927, Washington University. **Committees:** Electron Tubes and Solid State Devices, 1949–52; Electron Devices, 1952–53. **Professional Groups:** Electron Devices, *treasurer, 1954–55.* **IRE Representative:** ASA Sectional Committee (C60) on Standardization of Electron Tubes, 1949–55.

FELCH, Edwin P. (A'32—M'42—SM'43—F'54), Director of Military Systems Development, Bell Telephone Laboratories, Inc., Whippany, N.J.
Born: January, 1909, Madison, N.J. A.B., Physics, 1929, Dartmouth College.

FERRELL, Enoch B. (A'25—M'29—SM'43—F'53), Switching Research Engineering, Bell Telephone Laboratories, Inc., Murray Hill, N.J.
Born: June 1, 1898, Sedan, Kan. B.A., 1920, B.S.,(E.E.), 1921, M.A., 1924, University of Oklahoma. **Committees:** Awards, 1955–57, *chairman, 1956;* Awards Coordination, *chairman, 1958;* Papers, 1933–45. **Awards:** Fellow, American Society for Quality Control, 1948.

FERRIS, Warren R. (SM'46—F'53), Professor of Electrical Engineering, University of South Carolina, Columbia, S.C.
Born: May 14, 1904, Terre Haute, Ind. B.S.(E.E.), 1927, Rose Polytechnic Institute; M.S.(E.E.), 1932, Union College; Dr. of E.E., 1946, Polytechnic Institute of Brooklyn. **Committees:** Electron Devices, 1952–56; Standardization, 1929–32; Standards, 1932–33.

FETT, Gilbert H. (SM'45—F'58), Professor of Electrical Engineering, University of Illinois, Urbana, Ill.
Born: June 19, 1909, Chicago, Ill. B.Sc.(E.E.), 1931, University of Illinois; M.Sc., 1932, Iowa State College; Ph.D., 1940, University of Illinois. **Committees:** Education. **Awards:** Fellow, American Physical Society, 1950.

FICK, Clifford G. (A'25—SM'46—F'51), Manager, Research Liaison Section, Research Application Department, Research Laboratory, General Electric Company, Schenectady, N.Y.
Born: December 13, 1904, Ida Grove, Iowa. B.Sc.(E.E.), 1925, Iowa State College. **Committees:** Annual Review, 1949–50; Television Systems, 1948–58.

FIELD George S. (A'30—VA'39—SM'48—F'57), Chief Scientist, Defense Research Board, Department of National Defense, "A" Building, Elgin St., Ottawa, Ont., Canada.
Born: October 23, 1905, Wimbledon, Middlesex, England. B.Sc., 1929, M.Sc., 1930, D.Sc., 1937, University of Alberta. **Awards:** Fellow, Acoustical Society of America, 1943; Fellow, Royal Society of Canada, 1944; Member of the British Empire, 1946.

FIELD, Lester M. (M'48—F'52), Associate Director, Hughes Research Laboratories, Culver City, Calif.
Born: February 9, 1918, Chicago, Ill. B.S., 1939, Purdue University; Ph.D., 1941, Stanford University. **Committees:** Editorial Reviewer, 1954–58; Papers Review, 1950–53. **Professional Groups:** Electron Devices, Administrative Committee, 1957. **IRE Representative:** California Institute of Technology, 1954–55. **Awards:** Honorable Mention, Outstanding Young Electrical Engineer, 1949, Eta Kappa Nu.

FIELD, Robert F. (A'18—M'30—SM'43—F'47)(L), Retired. 104 Church St., Watertown 72, Mass.
Born: July 10, 1885, Tuftonboro, N.H. A.B., 1906, A.M., 1907, Brown University; A.M., 1916, Harvard University. **Committees:** Meetings and Papers, 1930. **Sections:** Boston, *chairman, 1942–44.* **Awards:** Award of Merit, American Society for Testing Materials, 1954.

FINCH, William G. H. (J'16—A'18—M'25—SM'43—F'56), P.O. Box 44, Newtown, Conn.
Born: June 28, 1895, Birmingham, England. **Committees:** Annual Review, 1939–40; Board of Editors, 1945–53; Constitution and Laws, 1928–31; Facsimile, 1939–43, 1949–50, *chairman, 1939–40;* Meetings and Papers, 1927–28; Membership, 1926–27; Publicity, 1926–34, *chairman, 1926–30;* Standards, 1939–40. **Awards:** Legion of Merit, U. S. Navy, 1946.

FINK, Donald G. (A'35—SM'45—F'47), Director of Research, Philco Corporation, Tioga & C Sts., Philadelphia 34, Pa.
Born: November 8, 1911, Englewood, N.J. B.Sc., 1933, Massachusetts Institute of Technology; M.S., 1942, Columbia University. **IRE Offices:** President, 1958, Director, 1949–51, 1956–58; Editor, 1956–57. **Committees:** Annual Review, 1946–49; Appointments, 1948–49, 1957; Awards, 1947; Board of Editors, 1946–53; Editorial Board, *vice-chairman, 1954–55, chairman, 1956–57;* Executive, 1956–57, *chairman, 1958;* Handbook, 1945–47; Membership, 1942–48; *chairman, 1946;* Navigation Aids, 1946–51, *chairman, 1946–48;* Papers, 1943–45; Preparedness, 1940–41; Professional Groups, 1956–57; Public Relations, 1940–42; Research, 1946–47; Standards, 1946–49; Television, 1946–48, *chairman, 1948–49;* Television Systems, 1949–58; Tellers, 1949; **IRE Representative:** Joint Technical Advisory, 1948–53, 1956–57, *vice-chairman, 1948, chairman, 1949.* **Awards:** Medal of Freedom, War Department, 1946; Presidential Certificate of Merit, 1948; Fall Meeting Plaque, 1951; Journal Award, Society of Motion Picture and Television Engineers.

FINK, Lyman R. (SM'48—F'53), General Manager, X-Ray Department, General Electric Company, 4855 Electric Ave., Milwaukee 1, Wis.
Born: November, 1912, Elk Point, S.D. B.S.(E.E.), 1933, M.S. (E.E.), 1934–35, Ph.D.(E.E.), 1937, University of California. **Committees:** Awards, 1955–57, *chairman, 1957;* Sections, 1950–51. **Sections:** Syracuse, *vice-chairman, 1949–50, chairman, 1950–51.* **Professional Groups:** Administrative Committee Broadcast and Television Receivers, 1954–59, *vice-chairman, 1955, chairman, 1956–58.*

FISK, Sir Ernest T. (M'15—F'26)(L), Consultant, Electronics Telecommunications, also Finance and Production, P.O. Box 9, Roseville, N.S.W., Australia.
Born: August 8, 1886, Sunbury-on-Thames, Middlesex, England. **IRE Offices:** Vice-President, 1938; Director, 1938. **Awards:** Fellow, IRE, Australia; President, 1932–37, 1939–43. Honorary Member, Institution of Electrical Engineers, London; Honorary Member, British Institution of Radio Engineers; Silver Medallist, Royal Society of Arts (London); Honorary Member, Institute of Radio Engineers, Australia; Chartered Engineer, Australia.

FISK, James B. (SM'52—F'55), Executive Vice-President, Bell Telephone Laboratories, Inc., Murray Hill, N.J.
Born: August 30, 1910, West Warwick, R.I. B.S., 1931, Ph.D., 1935, Massachusetts Institute of Technology; M.A. (Honorary), 1947, Harvard University; Sc.D.(Honorary), 1956, Carnegie Institute of Technology. **Awards:** Fellow, American Physical Society; National Academy of Sciences; Presidential Certificate of Merit.

FLORY, Leslie E. (A'35—SM'46—F'57), Research Engineer, RCA Laboratories, Princeton, N.J.
Born: March 17, 1907. Sawyer, Kan. B.S.(E.E.), 1930, University of Kansas. **Professional Groups:** Administrative Committee, Medical Electronics, 1955–57. **Awards:** Overseas Award, British Institute of Electrical Engineers, 1938; RCA Laboratories Award, 1949 and 1950.

FORRESTER, Jay W. (SM'49—F'55), Professor of Industrial Management, Massachusetts Institute of Technology, Cambridge, Mass.

Born: July 14, 1918, Anselmo, Neb. B.S.(E.E.), 1939, University of Nebraska; M.S.(E.E.), 1945, Massachusetts Institute of Technology; Dr. of Eng. (Honorary), 1954, University of Nebraska. **Committees:** Editorial Reviewer, 1954–58; Electronic Computers, 1948–52, *chairman, 1949–51;* Instruments and Measurements, 1949–50; Papers Review, 1951–53; Standards, 1949–51. **Awards:** Honorable Mention Award for Young Engineers, 1948, Eta Kappa Nu.

FOSTER, Dudley E. (A'26—M'37—SM'43—F'50), Vice-President, Hazeltine Research, Inc. of California, 3320 Burbank Blvd., Burbank, Calif.
Born: December 12, 1900, Newark, N.J. E.E., 1922, Cornell University. **Committees:** Annual Review, 1938–41, 1945–46; Awards, 1953–57; Building Fund, 1944–55; New York Program, 1937; Papers Procurement, 1942–43; Radio Receivers, 1936–48, *chairman, 1938–41, 1945–47;* Regular Papers, 1941; Standards, 1938–42, 1945–46; Television, 1939–47; Television and Facsimile, 1938–39. **Awards:** Modern Pioneer Award, National Association of Manufacturers, 1940.

FOSTER, Ronald Martin (SM'53—F'54), Professor of Mathematics, Polytechnic Institute of Brooklyn, 333 Jay St., Brooklyn 1, N.Y.
Born: October 3, 1896, Brooklyn, N.Y. S.B., 1917, Harvard University. **Committees:** Circuits, 1947–58.

FOX, A. Gardner (A'40—SM'45—F'56), Radio Research Engineer, Bell Telephone Laboratories, Inc., P.O. Box 107, Red Bank, N.J.
Born: November 22, 1912, Syracuse, N.Y. B.S.(E.E.), 1934, M.S.(E.E.), 1935, Massachusetts Institute of Technology. **Committees:** Annual Review, 1949–50, Antennas, 1948–49; Antennas and Wave-guides, 1949–54, *chairman, 1949–52;* Editorial Reviewer, 1954–55; Instruments and Measurements, 1949–50; Radio Wave Propagation and Utilization, 1947–48; Standards, 1949–52; Wave Propagation, 1949–50. **Awards:** Naval Ordnance Development Award, U. S. Navy, 1945.

FRANKEL, Sidney (A'37—SM'44—F'57), Associate Director, Technical Program Planning Committee, Litton Industries, 336 N. Foothill Rd., Beverly Hills, Calif.
Born: October 6, 1910, New York, N.Y. B.S.(E.E.), 1931, M.S. (Math.), 1934, Ph.D. (Math.), 1936, Rensselaer Polytechnic Institute. **Committees:** Antennas, 1944–49; Antennas and Wave-guides, 1949–50, *vice-chairman, 1950–51, 1953–54;* Handbook, 1945–47; Transmitters, 1944–45; Transmitters and Antennas, 1943–44. **Sections:** West Coast Subcommittee on Antennas and Wave-guides, *chairman, 1952–54.*

FREDENDALL, Gordon L. (A'41—SM'46—F'55), Senior Member of Technical Staff, RCA Laboratories Division, Princeton, N.J.
Born: December 20, 1909, Kettle Falls, Wash. B.S., 1931, M.S., 1932, Ph.D., 1936, University of Wisconsin. **Committees:** Editorial Reviewer, 1954–57; Frequency Modulation, 1946–47; Measurements and Instrumentation, 1950–58; Video Techniques, 1949, *vice-chairman, 1957–58.*

FRIEND, Albert (A'34—M'39—SM'43—F'54), Consulting Engineer and Physicist, P.O. Box 29, Bala-Cynwyd, Pa. Office: 1334 Montgomery Ave., Narberth, Pa.
Born: January 24, 1910, Morgantown, W.Va. B.S.(E.E.), 1932; M.S.(Physics), 1936, West Virginia University; S.D. (Communication Engr.), 1948, Harvard University. **Committees:** Sound Recording and Reproducing, 1948–58, *vice-chairman, 1950–51, chairman, 1952–56;* Standards, 1952–56. **IRE Representative:** ASA Sectional Committee (Z57) on Sound Recording, *alternate, 1952–58;* IRE-AIEE Committee on Noise Definitions, 1951–53. **Awards:** Fellow, American Physical Society RCA Laboratories Award, 1951; Second National Electronics Conference Award, 1955.

FRIIS, Harald T. (A'18—M'26—F'29)(L), Consulting Engineer, 30 E. River Rd., Rumson, N.J.
Born: February 22, 1893, Neastved, Denmark. E.E., 1916, Dr. Eng., 1938, Royal Technical College, Copenhagen. **IRE Offices:** Director, 1941–43. **Committees:** Admissions, 1941; Papers, 1941; Research, 1946–47. **Awards:** IRE Morris Liebmann Memorial Prize, 1939; Knight of the Danish Order of Dannebrog, 1954; Valdemar Poulsen Gold Medal, Danish Academy of Technical Sciences, 1954; IRE Medal of Honor, 1955.

FRISCHE, Carl A. (SM'54—F'57), President, Sperry Gyroscope Company, Division of Sperry Rand Corporation, Great Neck, L.I., N.Y.
Born: August, 1906, Freeport, Kan. A.B., 1928, Miami University, Ohio; M.S. and Ph.D., 1932, Iowa State University; Research Fellowship, 1933, Columbia University; D.Sc. (Honorary), 1955, Miami University, Ohio.

FUBINI, Eugene G. (A'36—SM'46—F'54), Director, Research and Engineering Division, Airborne Instruments Laboratory, Inc., 160 Old Country Rd., Mineola, L.I., N.Y.
Born: April, 1913, Turin, Italy. Doctor of Physics, 1933, University of Rome, Italy. **Committees:** Editorial Reviewer, 1954–58; Papers Review, 1949–53; Tellers, 1948; Wave Propagation, 1949–53. **Sections:** Long Island, *vice-chairman 1956–57, chairman, 1957–58.* **Awards:** Presidential Certificate of Merit.

FULLER, Leonard F. (A'14—M'14—F'25)(L), Retired, 2345 Waverly St., Palo Alto, Calif.
Born: August 21, 1890, Portland, Ore. M.E., 1912, Cornell University; Ph.D., 1919, Stanford University. **IRE Offices:** Manager, 1928. **Committees:** Admissions, 1928–29; Radio Transmitters and Antennas, 1930–31; Sections, 1926–28; Specifications for Steamship Radio Equipment, 1914–15; Standardization, 1916–20, 1930–31; Transmitters and Antennas, 1929–30; Wave Length Regulation, 1916–17, 1919–20. **Sections:** San Francisco, *chairman, 1928–29.* **Awards:** IRE Morris Liebmann Memorial Prize, 1919.

GAFFNEY, Francis J. (A'38—M'45—SM'46—F'55), Vice-President for Engineering the Teleregister Corporation, Stamford, Conn.
Born: June 27, 1912, Middleton, Lancashire, England. B.S. (E.E.), 1935, Northeastern University. **Committees:** Instruments and Measurements, 1949–50; Measurements and Instrumentation, *vice-chairman, 1950–51, chairman, 1951–54;* Standards, 1951–54. **IRE Representative:** ASA Sectional Committee (C39) on Electrical Measuring Instruments, 1953–55; ASA Subcommittee (C42.6) on Electrical Instruments, *alternate, 1953;* Joint IRE-AIEE Committee on High Frequency Measurements, 1952–56; U. S. National Committee, International Electrotechnical Commission, Advisers on Electrical Measuring Instruments, *alternate, 1953–55.* **Awards:** Certificate of Merit, 1947.

GARMAN, Raymond L. (A'39—SM'51—F'58), Vice-President, Engineering and Research, General Precision Equipment Corporation, 92 Gold St., New York 38, N.Y.
Born: July 21, 1907, Schoeneck, Pa. B.S., 1929, Franklin and Marshall; M.Sc., 1931, Ph.D., 1932, New York University. **Committees:** Video Techniques, *chairman, 1949–53.* **Awards:** Presidential Certificate of Merit, 1947; Fellow, SMPTE.

GEBHARD, Louis August (A'29—M'42—SM'43—F'49), Superintendent Radio Division, United States Naval Research Laboratory, Washington 25, D.C.
Born: June, 1896, Buffalo, N.Y. B.S.(E.E.), George Washington University; LL.B., Georgetown University. **Awards:** Presidential Certificate of Merit, 1946; Fellow, American Physics Society; Scientific Research Society of America; American Association for the Advancement of Science; Armed Forces Communication Association; Naval Institute.

GERBER, Eduard A. (A'50—SM'56—F'58), Chief, Frequency Control Branch, U.S. Army Signal Engineering Laboratories, Fort Monmouth, N.J.
Born: April 3, 1907, Fuerth, Bavaria, Germany. M.S., 1931, Ph.D.,

1934, Technical University, Munich, Germany. **Committees:** Piezoelectric and Ferroelectric Crystals, *chairman, 1957–58;* Standards, 1957–58.

GERKS, Irvin H. (A'32—M'41—SM'43—F'58), Engineer, Collins Radio Company, 5225 C Ave., N.E., Cedar Rapids, Iowa.
Born: October 30, 1905, New London, Wis. B.Sc.(E.E.), 1927, University of Wisconsin; M.Sc.(E.E.), 1932, Georgia Institute of Technology. **Committees:** Wave Propagation, 1948–55–58. **Sections:** Atlantic, *chairman, 1935–37;* Dayton, *chairman, 1944.*

GETTING, Ivan A. (SM'46—F'54), Vice-President, Engineering and Research, Raytheon Manufacturing Company, Administration Bldg., Waltham 54, Mass.
Born: January 18, 1912, New York, N.Y. S.B., 1933, Massachusetts Institute of Technology; Ph.D., 1935, Oxford University. **Committees:** Board of Editors, 1947–53; Editorial Reviewer, 1954–58. **Awards:** Fellow, Institute of Physics; Fellow, American Academy of Arts and Sciences; Presidential Medal for Merit.

GIACOLETTO, Lawrence J. (S'37—A'42—M'44—SM'48—F'58), Research Manager, Scientific Laboratory, Ford Motor Company, P.O. Box 2053, Dearborn, Mich.
Born: November 14, 1916, Clinton, Ind. B.Sc.(E.E.), 1938, Rose Polytechnic Institute; M.Sc. (Physics), 1939, State University of Iowa; Ph.D.(E.E.), 1952, University of Michigan. **Committees:** Administrative Committee, Board of Editors, 1952–53; Editorial Reviewer, 1954–58; Papers Review, 1953. **Sections:** Princeton, *secretary, 1948–49; vice-chairman, 1949; chairman, 1950.*

GILL, Archibald J. (M'20—F'40)(L), Chairman and Director, British Telecommunications Research, Ltd., Taplow, Buckinghamshire, England.
Born: May 13, 1889, Stoke-Sub-Hamdon, Somerset, England. B.Sc. (Eng.), 1909, University of London.

GILLETT, Glenn D. (A'22—M'27—F'34), Design Specialist, Lockheed Missiles System Division, Lockheed Aircraft Corporation, 1122 Jagels Road, Sunnyvale, Calif. Owner, Glenn D. Gillett, Electric Motors & Engineering, 1127 Whitham Road, Los Altos, Calif.
Born: April 14, 1898, Sterling, Colo. A.B., 1919, Harvard University; S.B.(E.E.), 1921, Harvard Engineering School. **Committees:** Broadcast, 1935–38; Radio Wave Propagation, 1942–46; Wave Propagation, 1937–42.

GILMAN, George W. (A'29—SM'47—F'50), Director of Telegraph, Signaling and Special Systems Development, Bell Telephone Laboratories, Inc., 463 West St., New York 14, N.Y.
Born: August, 1901, Salmon River, N.S., Canada. M.S., 1923, Massachusetts Institute of Technology. **Committees:** Board of Editors, 1944–48; Frequency Modulation, 1940–41; Public Relations, 1940–42; Publicity, 1941.

GINZTON, Edward L. (S'39—A'40—SM'46—F'51), Professor of Applied Physics and Electrical Engineering; Director, Microwave Laboratory, Stanford University, Stanford, Calif.; Member, Board of Directors, Varian Associates, Inc., Palo Alto, Calif.
Born: December 27, 1915, Ekaterinoslavsk, Russia. B.S., 1936, M.S., 1937, University of California; E.E., 1938, Ph.D., 1940, Stanford University. **Committees:** Awards, 1957. **Awards:** IRE Morris Liebmann Memorial Prize, 1958.

GIORDANO, Anthony B. (SM'46—F'58), Assistant Dean in charge of the Graduate School; Professor, Electrical Engineering, Polytechnic Institute of Brooklyn, 85–99 Livingston St., Brooklyn 1, N.Y.
Born: February 1, 1915, New York, N.Y. B.E.E., 1937, M.E.E., 1939, D.E.E., 1946, Polytechnic Institute of Brooklyn. **Committees:** Antennas and Wave Guides, 1951–53; National Convention, Papers, *secretary, 1946–47; vice-chairman, 1950–51.* **Sections:** New York, *secretary, 1952–53; vice-chairman, 1953–54; chairman, 1954–55;* Executive Committee, 1955–58. **Professional Groups:** Circuit Theory Symposium, *chairman, 1957–58.* **Awards:** UNICO National, Gold Oscar for Science, 1957.

GLASGOW, Roy S. (M'26—SM'43—F'55), Dean, U. S. Naval Postgraduate School, Monterey, Calif.
Born: May 20, 1895, St. Louis, Mo. B.S., 1918, Washington University; M.S., 1922, Harvard University. **Sections:** St. Louis, *chairman, 1941–42.* **IRE Representative:** Washington University, 1941–42. **Awards:** Fellow, American Institute of Electrical Engineers; Distinguished Service Award, U. S. Army, 1951; Honorary Life Member, St. Louis Engineers Club, 1954; Alumni Citation, Washington University, 1955.

GLOVER, Alan M. (A'39—SM'46—F'56), General Manager, Semiconductor Division, Radio Corporation of America, Somerville, N.J.
Born: September, 1909, Rochester, N.Y. B.A., 1930, M.A., 1932, Ph.D., 1935, University of Rochester. **Committees:** Electron Tubes, 1946–49; Electron Tubes and Solid State Devices, 1949–52; Electronics, 1943–46; Papers Procurement, 1946; Vacuum Tubes, 1945–46. **Sections:** Lancaster Subsection, *chairman, 1948–49.*

GOLDBERG, Harold (A'38—M'44—SM'44—F'55), Vice-President, Emerson Research Laboratories, 1140 East West Highway, Silver Springs, Md.
Born: January 31, 1914, Milwaukee, Wis. B.S.(E.E.), 1935, M.S.(E.E.), 1936, Ph.D.(E.E.), 1937, Ph.D., (physiology) 1941, University of Wisconsin. **Committees:** Radio Transmitters, 1949–58, *vice-chairman, 1953–56, chairman, 1956–58;* Solid State Devices, 1955–58; Standards, 1956–58. **Sections:** Rochester, *secretary, 1944–45.* **Professional Groups:** Washington Chapter, Information Theory, *chairman, 1956.* **Awards:** Exceptional Service Award, U. S. Department of Commerce, 1953.

GOLDMAN, Stanford (A'36—M'43—SM'43—F'56), Professor of Electrical Engineering, Syracuse University, Syracuse 10, N.Y.
Born: November 14, 1907, Cincinnati, Ohio. B.A., 1926, M.A., 1928, University of Cincinnati; Ph.D. (Physics), 1933, Harvard University. **Committees:** Circuits, 1947–51; Information Theory and Modulation Systems, 1956–58. Papers, 1944–45; Papers Review, 1946–50. **IRE Representative:** IRE-AIEE Committee on Noise Definitions, 1949–53.

GOLDMARK, Peter C. (A'36—M'38—F'42), President, CBS Laboratories, a Division of Columbia Broadcasting System, Inc., 485 Madison Ave., New York 22, N.Y.
Born: December 2, 1906, Budapest, Hungary. B.Sc., 1930, Ph.D., 1931, Vienna Technical University. **Committees:** Board of Editors, 1941–50; Television, 1939–49; Television and Facsimile, 1938–39; Television Systems, 1949–58. **Awards:** Technical Progress Medal, Television Broadcasters' Association, 1944; IRE Morris Liebmann Memorial Prize, 1945.

GOLDSMITH, Alfred N. (IRE Founder and Charter Member), (A'12—F'15)(L), Consulting Engineer, 597 Fifth Ave., New York 17, N.Y.
Born: September, 1889, New York, N.Y. B.S., 1907, College of the City of New York; Ph.D., 1911, Columbia University; Sc.D., 1935, Lawrence College. **IRE Offices:** President, 1928; Secretary, 1918–27; Editor, 1912–28, 1930–53; Editor Emeritus, 1954–; Director, 1912–58. **Committees:** Administrative Committee of the Board of Editors, *chairman, 1951–53;* Admissions, 1925; Awards, 1919, 1930–33, 1935–38, *chairman, 1919, 1931;* Bibliography, 1934; Board of Editors, *chairman, 1928, 1930–53;* Circuit Elements, 1928–29; Constitution and Laws, 1935–40, *chairman, 1935;* Convention Policies, 1940; Editorial Administrative, *chairman, 1946–53;* Executive, 1942–53; Finance, 1914–15, *chairman, 1915;* Fiscal, 1947–48; Meetings and Papers, 1925–26; Membership Solicitation Policy, 1945; Nominations, 1929–31, 1936, 1940, *chairman, 1930, 1940;* Office Quarters, 1947; Papers, *chairman, 1913–19;* Planning, 1947; Special Papers, 1940–41; Standardization, 1913–31, *secretary, 1913; chairman, 1915–16;* Standards, 1932–36; Television and Facsimile, 1936–38; Tellers, *chairman, 1932;* Wave Length Regulation, 1916, 1919. **IRE Representative:** ASA Stand-

ards Council, 1936, 1939–46; ASA Sectional Committee on Radio, 1936, 1939–40, *chairman, 1942–48;* ASA Subcommittee on Insulating Material Specifications for the Military Services, *chairman, 1943–48;* ASA War Committee on Radio, 1943–48; National Advisory Council on Radio in Education, 1936, 1939–40; National Advisory Council on Radio in Education, Committee on Engineering Developments, 1941–43; National Television Systems, 1940–43; Panel 2, *chairman, 1942–43;* Joint IRE-AIEE, Co-ordination Committee, 1952; National Television Film Council, *president, 1957.* **Awards:** Modern Pioneer Award, National Association of Manufacturers, 1940; IRE Medal of Honor, 1941; Townsend Harris Medal, College of the City of New York, 1942; Medal Award, Television Broadcasters Association, 1945; IRE Founders Award, 1954; Eminent Member, Eta Kappa Nu; Life Member New York Medico-Surgical Society; Fellow, International College of Surgeons; Pioneer Award, Society of Motion Picture and Television Engineers.

GOLDSMITH, Thomas T., Jr. (A'38—SM'46—F'49), Vice-President, Engineering and Research, Allen B. DuMont Laboratories, Inc., 760 Bloomfield Ave., Clifton, N.J.
Born: January, 1910, Greenville, S.C. B.S., 1931, Furman University; Ph.D., 1936, Cornell University. **Committees:** Admissions, 1944–47; Electron Tubes, 1946–47; Electronics, 1942–46; Professional Groups, 1948; Regular Papers, 1941; Television, 1939–46; Tellers, 1944; Vacuum Tubes, 1945–46. **Awards:** Fellow, Society of Motion Picture and Television Engineers.

GOLDSTEIN, Ladislas (SM'54—F'56), Professor of Electrical Engineering, University of Illinois, Urbana, Ill.
Born: February 6, 1906, Dombard, Hungary. B.A., 1925, Nagyvarad College, Hungary; M.S., 1928, D.Sc., 1937, University of Paris.

GOLDUP, Thomas E. (SM'52—F'55), Director, Mullard, Ltd., Mullard House, Torrington Pl., London, W.C.1, England.
Born: April 30, 1894, London, England. **Awards:** Commander of the Order of the British Empire, 1954.

GOODALL, William McH. (A'29—M'37—SM'43—F'51), Technical Staff, Bell Telephone Laboratories, Inc., P.O. Box 107, Red Bank, N.J.
Born: September 7, 1907, Washington, D.C. B.Sc., 1928, California Institute of Technology. **Committees:** Editorial Reviewer, 1954–58; New York Program, 1939–41, 1949–50; Papers Review, 1946–53; Tellers, 1939, 1941, *chairman, 1939.* **Sections:** Monmouth, N.J. Subsection, *secretary-treasurer, 1950, vice-chairman, 1954, chairman, 1955.*

GOODWIN, W. Nelson, Jr. (A'15—M'29—SM'43—F'57)(L), Consulting Engineer, Weston Electrical Instrument Corporation, 614 Frelinghuysen Ave., Newark 12, N.J.
Born: October, 1876, Philadelphia, Pa. B.S., 1897, E.E., 1908, University of Pennsylvania. **Awards:** Modern Pioneer Award, 1940, American Manufacturers Association; National Electrical Manufacturers Association, 1948. **Awards:** Fellow, American Institute of Electrical Engineers; Fellow, American Association for the Advancement of Science.

GOUBAU, Georg J. E. (A'49—SM'56—F'57), Consultant, U. S. Army Signal Engineering Laboratories, Ft. Monmouth, N.J.
Born: November 29, 1906, Munich, Germany. M.S., 1931, Ph.D. (physics), 1932, Dr. habil., 1935, Institute of Technology, Munich. **Awards:** IRE Harry Diamond Memorial Award, 1957.

GRAHAM, Virgil M. (A'24—M'27—F'35), Associate Director, Engineering Department, Electronic Industries Association, Room 650, 11 W. 42 St., New York 36, N.Y.
Born: January 22, 1902, Rochester, N.Y. Attended University of Rochester. **IRE Offices:** Director, 1935–41, 1946–48. **Committees:** Appointments, 1948; Awards, 1940, 1947–49; Broadcast and Television Receivers, 1949–52, *chairman, 1949–51;* Constitution and Laws, 1940, 1944; Executive, 1948; Meetings and Papers, 1928–29; Membership, 1949–50; National Convention, 1947–50; Nominations, 1940; Papers Procurement, 1942–43, 1946; Professional Groups, 1948–49; Public Relations, *chairman, 1940, 1947–48, 1951;* Publicity, 1935–36; Radio Receivers, 1927–28, 1936–40; Radio Receivers and Parts, 1929–30; Regular Papers, 1941; Sections, 1930–34, 1938–45, 1948, *chairman, 1936–37;* Standardization, 1925–26, 1929–30; Standards, 1932, 1935–43, 1945–48, 1954–57. **Professional Groups:** Broadcast and Television Receivers, *chairman, 1950.* **Sections:** Rochester, *chairman, 1926–27.* **IRE Representative:** ASA Sectional Committee on National Electrical Safety Code, Radio Broadcast Reception Equipment, *alternate, 1939–48, chairman, 1948–50;* ASA Sectional Committee on Radio (C16), *chairman, 1950;* RMA-IRE Co-ordinating Committee, *chairman, 1947–49.*

GRANGER, John V. N. (S'42—A'45—M'46—SM'51—F'56), President, Granger Associates, 966 Commercial St., Palo Alto, Calif.
Born: September 14, 1918, Cedar Rapids, Iowa. A.B., 1941, Cornell College; M.S., 1942, Ph.D., 1948, Harvard University. **Committees:** Editorial Reviewer, 1954–58. **Sections:** Palo Alto Subsection, *secretary, 1952, chairman, 1954–55.* **Professional Groups:** Aeronautical and Navigational Electronics, Editor of *Transactions,* 1955–56. **Awards:** Eta Kappa Nu Recognition, Outstanding Young Electrical Engineer, 1952; Seventh Region Electronic Achievement Award, 1955.

GRANQVIST, Carl E. (A'46—F'55), Director, Svenska AB Gasaccumulator, Stockholm-Lidingö, Sweden.
Born: March 2, 1910, Ljungby, Småland, Sweden. M.A., 1933, Tekniska Högskolan, Stockholm. **IRE Offices:** Vice-President, 1958.

GREEN, Estill I. (A'27—M'36—SM'43—F'55), Vice-President, Bell Telephone Laboratories, Inc., 463 West St., New York 14, N.Y.
Born: November 24, 1895, St. Louis, Mo. B.A., 1915, Westminster College; B.S.(E.E.), 1921, Harvard University; D.Sc. (Honorary), 1956, Westminster College. **Committees:** Measurements and Instruments, 1950–53; Institute Sections, 1928. **IRE Representative:** Joint IRE-AIEE Committee on High Frequency Measurements, 1950–52.

GROSS, Gerald C. (A'27—M'30—SM'43—F'57), Assistant Secretary-General, International Telecommunication Union, I.T.U. Palais Wilson, Geneva, Switzerland.
Born: December 27, 1903, New York, N.Y. B.S.(E.E.), 1926, Haverford College. **Sections:** Washington, *secretary-treasurer, 1936–37, vice-chairman, chairman, 1939–40.*

GROVER, Frederick W. (M'17—SM'43—F'49)(L), Professor Emeritus of Electrical Engineering, Union College, Schenectady 8, N.Y.
Born: September 3, 1876, Lynn, Mass. S.B., 1899, Massachusetts Institute of Technology; M.S., 1901, Wesleyan University; Ph.D., 1907, George Washington University; Ph.D., 1908, Ludwig Maximilian University, Munich, Germany. **Committees:** Board of Editors, 1932–53; Papers, 1941–45. **IRE Representative:** Union College, N.Y., 1941–48.

GRUEN, Wolf J. (M'47—SM'53—F'57), Senior Staff Member, The Ramo-Wooldridge Corporation, Control Systems Division, 5500 W. El Segundo Blvd., Hawthorne, Calif.
Born: September, 1914, Berlin, Germany. Dipl. Eng. (E.E.), 1940, Swiss Federal Institute of Technology, Zurich; M.E.E., 1952, Syracuse University.

GUÉNARD, Pierre R. (SM'50—F'55), Directeur Téchnique du Département de Recherches "Eléctronique et Atomistique" de La Compagnie Générale de T.S.F., Boîte Postale N° 10 ,Orsay, Seine et Oise, France. Professeur à l'École Supérieure d'Eléctricité.
Born: January 22, 1914, Amiens, France. Licéncié ès Sciénces, 1935. Agrégé des Sciénces Physiques, 1937, École Normale Supérieure. **Awards:** Prix D'Aumale de L'Académie des Sci-

ences de Paris, 1952; Médaille Ampère de La Société Française des Eléctriciens; Médaille Blondel, 1956.

GUILLEMIN, E. A. (A'41—SM'48—F'49), Professor of Electrical Communications, Massachusetts Institute of Technology, Cambridge 39, Mass.
Born: May, 1898, Milwaukee, Wis. B.S., 1922, University of Wisconsin; S.M.(E.E.), 1924 Massachusetts Institute of Technology; Ph.D., 1926, University of Munich, Germany (Saltonstall Fellow). **Committees:** Annual Review, 1944–47; Board of Editors, 1952–53; Circuits, 1944–51, *chairman, 1944–47;* Editorial Reviewer, 1954–58; Education, 1947–48; Standards, 1944–47. **IRE Representative:** Massachusetts Institute of Technology, 1945–54. **Awards:** Presidential Certificate of Merit, 1948.

GUNN, Ross (A'35—SM'47—F'49), Visiting Research Professor of Physics, American University, Washington 16, D.C. Assigned full time to the Controlled Thermonuclear Branch of the Atomic Energy Commission.
Born: May, 1897, Cleveland, Ohio. B.S.(E.E.), 1920, M.S., 1921, University of Michigan; Ph.D., 1926, Yale University. **Awards:** Air Safety Distinguished Service Award, 1951; Exceptionally Distinguished Service Citation, United States Navy, 1945; Distinguished Alumnus Citation, University of Michigan, 1953; Fellow, American Physical Society; National Academy of Sciences; Robert M. Losey Award, Institute of Aeronautical Sciences, 1956; U.S. Department of Commerce Gold Medal for Exceptional Service, 1957.

GUNTHER, Clarence (A'27—SM'48—F'54), Chief Defense Engineer, Defense Engineering Department, Defense Electronic Products, Radio Corporation of America, Camden 2, N.J.
Born: June 29, 1903, Los Angeles, Calif. B.S.E., 1926, Princeton University. **Sections:** Philadelphia, *secretary-treasurer, 1948–49, vice-chairman, 1950, chairman, 1950.* **Awards:** Award of Merit, 1952, Radio Corporation of America.

GUY, Raymond F. (A'25—M'31—F'39), Director, Radio Frequency and Allocations Engineering, National Broadcasting Company, Inc., 30 Rockefeller Plaza, New York 20, N.Y.
Born: July 4, 1899, Hartford, Conn. I.E.E., 1921, Pratt Institute. **IRE Offices:** President, 1950; Treasurer, 1947; Director, 1944–52. **Committees:** Admissions, 1958; Annual Review, 1943–47; Antennas, 1944–48; Broadcasting, 1929–33; Building Fund, *vice-chairman, 1948;* Constitution and Laws, 1945–53, *chairman, 1946;* Education, 1945–48; Executive, 1946–47, 1950–52, *vice-chairman, 1947, chairman, 1950;* Finance, 1951–52; Fiscal, 1947–48; Founders, *chairman, 1947, 1949–50;* Frequency Modulation, 1942–47; Investments, 1947, 1949, *chairman, 1949;* Membership, 1947–49, *chairman, 1949;* Modulation Systems, 1947–50; Nominations, 1951; Office Practices, *chairman, 1947;* Professional Groups, 1951–52; Public Relations, 1949, 1951–54, *chairman, 1949;* Radio Transmitters, *chairman, 1944–45;* Standards, 1943–46, *chairman, 1945–46;* Transmitters and Antennas, 1936–44, *chairman, 1943–44;* Winter Technical Meeting, 1946. **IRE Representative:** ASA Standards Council, *alternate, 1946–48;* Joint RMA-IRE Co-ordination Committee, 1950; Joint Technical Advisory Committee, 1950. **Awards:** President, Radio Pioneers, 1956; Marconi Memorial Gold Medal of Achievement, 1956.

HACKBUSCH, Ralph A. (A'26—M'30—F'37), President, Hackbusch Electronics, Ltd., 23 Primrose Ave., Toronto 4, Ont., Canada.
Born: September 18, 1900, Hamilton, Ont., Canada. **IRE Offices:** Vice-President, 1944; Director, 1938, 1944–46. **Committees:** Admissions, 1940; Awards, 1947–49; Public Relations, 1940, 1947–51; Sections, 1936–37; Standards, 1949–58. **Sections:** Toronto, *secretary, 1930–31, chairman, 1932–33.* **Awards:** Fall Meeting Plaque, 1943.

HAEFF, Andrew V. (A'34—M'40—SM'43—F'49), Vice-President, Director, Research Laboratories, Hughes Aircraft Company, Culver City, Calif.
Born: December, 1904, Moscow, Russia. E.E. and M.E., 1928, Russian Polytechnic Institute, Harbin, China; M.S.(E.E.), 1929; Ph.D., 1932, California Institute of Technology. **Committees:** Awards, 1956–58; Board of Editors, 1951–53; Editorial Administrative, 1949–51; Editorial Reviewer, 1954–58; Nuclear Studies, 1948–49. **Awards:** IRE Harry Diamond Memorial Award, 1950; Special Research Fellowship, California Institute of Technology, 1932–33.

HAFSTAD, Lawrence R. (SM'52—F'53), Vice-President, General Motors Corporation, Director, Research Staff, P. O. Box 188, North End Station, Detroit 2, Mich.
Born: June 18, 1904, Minneapolis, Minn. B.S.(E.E.), 1926, University of Minnesota; Ph.D. (Physics), 1933, Johns Hopkins University. **Committees:** Annual Review, 1949–50; Nominations, 1951; Nuclear Studies, *chairman, 1948–50.* **Professional Groups:** Nuclear Science, *chairman, 1952;* **Awards:** American Association for the Advancement of Science Award, 1931; British "King's Medal in Defense of Freedom," 1946; Distinguished Service Award from U. S. Atomic Energy Commission, 1954; Medal of Merit from Secretary of the Navy, 1946; U. S. Delegate to International Radio Union Conference in London, 1934.

HAGEN, John P. (A'37—SM'47—F'54), Director, Project Vanguard, Superintendent, on leave, Atmosphere and Astrophysics Division, Naval Research Laboratory, Washington 25, D.C.
Born: July, 1908, Amherst, N.S., Canada. A.B., 1929, Boston University; M.A., 1931, Wesleyan University; Ph.D., 1949, Georgetown University. **Awards:** President's Certificate of Merit for work in the early development of radar; RESA, Sigma Xi.

HAGGERTY, Patrick E. (A'45—SM'53—F'58), Executive Vice-President and Director, Texas Instruments, Inc., 6000 Lemmon Ave., Dallas 9, Tex.
Born: March 17, 1914, Harvey, N.D. B.S.(E.E.), 1936, Marquette University. **Committees:** Awards, 1954–55. **Sections:** Dallas, *Advisor, 1955–58.*

HALL, Albert C. (A'39—SM'46—F'58), Director of Research The Martin Company, Denver Division, P. O. Box 179, Denver 1, Colo.
Born: June 27, 1914, Port Arthur, Tex. B.S.(E.E.), 1936, Texas A. & M.; M.Sc.(E.E.), 1938, S.D.(E.E.), 1943, Massachusetts Institute of Technology. **Awards:** Naval Ordnance Development Award; Eta Kappa Nu, Outstanding Young Electrical Engineer Award.

HALL, Nathan I. (SM'47—F'56), Vice-President and Director of System Development, Hughes Aircraft Company, Culver City, Calif.
Born: October, 1910, Elkins, W.Va. B.S.(E.E.), 1934, M.S. (E.E.), 1934, D.Sc. (Honorary), 1956, West Virginia University; E.E., 1937, Stanford University. **Committees:** Editorial Reviewer, 1955–58. **Awards:** Eta Kappa Nu, Outstanding Electrical Engineer, 1934.

HALL, Robert N. (SM'53—F'57), Physicist, General Electric Research Laboratory, The Knolls, Schenectady, N.Y.
Born: December 25, 1919, New Haven, Conn. B.S., 1942, Ph.D., 1948, California Institute of Technology. **Awards:** Predoctoral Fellowship, National Research Council, 1946.

HALLBORG, Henry E. (F'45)(L), Research and Engineering Consultant on Propagation and Associated Equipments. Home address: 26 Macopin Ave., Upper Montclair, N.J.
B.Sc.(E.E.), 1907, Brown University. **Committees:** Constitution and Laws, 1928–32; Radio Transmitters and Antennas, 1930–31; Standardization, 1929–31.

HALLER, George L. (A'28—M'36—SM'43—F'50), General Manager, Defense Electronics Division, General Electric Company, Syracuse, N.Y.
Born: May 8, 1907, Pittsburgh, Pa. B.S.(E.E.), 1927; E.E., 1934, M.S. (Physics), 1935, Ph.D. (Physics), 1942, Pennsylvania State University. **Committees:** Papers Review, 1946–50; Technical Program Committee 1958 National Convention, *chairman.* **Profes-**

sional Groups: Airborne Electronics, Administrative Committee, 1951–53; Military Electronic Administrative Committee, 1956–57. **Sections:** Dayton, *chairman, 1944–45;* Centre County Subsection, *chairman, 1949–50.* **Awards:** Legion of Merit, United States Air Force, 1946.

HALLMAN, Ludlow B., Jr. (J'27—A'29—SM'44—F'52), Technical Director, C. and N. Laboratory, Wright Air Development Center, Wright-Patterson Air Force Base, Ohio.
Born: July 21, 1907, Sneads, Fla. B.S., 1929, E.E., 1934, Alabama Polytechnic Institute. **Committees:** Modulation Systems, 1948–50. **Sections:** Dayton, *chairman, 1945–46.* **Professional Groups:** Administrative Committee, Aeronautical and Navigational Electronics, 1951–53, 1956–59; Papers Committee, Aeronautical and Navigational Electronics, *chairman, 1951–53;* National Conference on Aeronautical Electronics, *chairman, Board of Directors, 1954.* **Awards:** War Department Commendation, 1946.

HAMBURGER, Ferdinand, Jr. (A'32—M'39—SM'43—F'53), Professor and Chairman, Electrical Engineering Department, Johns Hopkins University.
Born: July 5, 1904, Baltimore, Md. B.E., 1924, Dr. Eng., 1931, Johns Hopkins University. **IRE Offices:** Director, 1950–51. **Committees:** Appointments, 1951; Editorial Board, 1956–57, *vice-chairman, 1958;* Education, 1955–58; Nominations, 1951; Policy Advisory, 1952–55. **Sections:** Baltimore, *chairman, 1940–41.* **IRE Representative:** Johns Hopkins University, 1941–54. **Awards:** Fellow, American Institute of Electrical Engineers, 1949.

HANSEL, Paul G. (S'39—A'42—SM'50—F'57), Chief Radio Engineer, Servo Corporation of America, 20-20 Jericho Turnpike, New Hyde Park, L.I., N.Y.
Born: June, 1917, Grand Island, Neb. B.S., 1946, University of Kansas. **Committees:** Tellers, 1955–58. **Sections:** Long Island, *secretary, 1954, chairman, 1955–56.* **Awards:** War Department Commendation for Meritorious Civilian Service, 1946.

HANSELL, Clarence W. (A'26—M'29—SM'43—F'45), Associate Director, Radio Research Laboratory, RCA Laboratories, Radio Corporation of America, Rocky Point, L.I., N.Y.
Born: January 20, 1898, Medaryville, Ind. B.S.(E.E.), 1919, D.E.E. (Honorary), 1952, Purdue University. **Awards:** Joint Modern Pioneer Award, National Association of Manufacturers, 1940.

HANSON, O. B. (A'18—M'27—F'41), Vice-President, Engineering Services, Radio Corporation of America, 30 Rockefeller Plaza, New York 20, N.Y.
Born: February 11, 1894, Huddersfield, Yorkshire, England. **IRE Offices:** Director, 1938–43. **Committees:** Meetings and Papers, 1929; Members, 1950; Nominations, 1944–45, 1948; Papers, 1942–45; Papers Procurement, 1942–43; Papers Review, 1946–53; Public Relations, 1940–46; Regular Papers, 1941; Standardization, 1929; Tellers, *chairman, 1941.*

HARMON, Ralph N. (A'30—SM'45—F'52), Vice-President, Engineering, Director, Westinghouse Broadcasting Company, Inc., 122 East 42nd St., New York 17, N.Y.
Born: August 29, 1905, California, Pa. B.S. in E.E., 1928, Carnegie Institute of Technology. **Committees:** Broadcast, 1935–38; Membership, 1950–51; Television, 1945–49; Television Systems, 1949–58. Radio Transmitters, 1956–58. **Sections:** Baltimore, *chairman, 1945–46.* **Awards:** Award of Merit, U. S. Navy Bureau of Ships, U. S. Navy Ordnance, National Defense Research Council; Patent Awards, Westinghouse Electric Corporation.

HARNETT, Daniel E. (A'25—M'35—F'42), Engineer, General Electric Company, Syracuse, N.Y.
Born: July 20, 1899, Elmira, N.Y. A.B., 1922, E.E., 1925, Columbia University. **Committees:** Admissions, 1941–43; Awards, 1945–46; New York Program, 1940; Papers Procurement, 1947–48; Radio Receivers, 1936–41, 1953–56, *chairman, 1956;* Vacuum Tubes, 1929–30; Standards, 1956–58. **IRE Representative:** ASA Sectional Committee (C16) on Radio, 1957–58.

HARRIS, Donald B. (SM'45—F'56), Manager, Electron Physics Research, General Electric Microwave Laboratory at Stanford, 601 S. California Ave., Palo Alto, Calif.
Born: February 10, 1901, Minneapolis, Minn. B.A., 1922, Yale University. **Committees:** Board of Editors, 1950–53, Editorial Reviewer, 1954–58; Constitution and Laws, 1951; Railroad and Vehicular Communications, 1948–50; Mobile Communications, 1950–57. **Sections:** Cedar Rapids, *chairman, 1950.* **Professional Groups:** Electron Devices, Administrative Committee, Awards Committee, *chairman.* **IRE Representative:** Western Electronics Show and Convention, *vice-chairman, 1955, chairman, 1957.* **Awards:** Certificate of Appreciation, Navy Department, 1948.

HARRIS, William A. (SM'50—F'55), Engineer, Advanced Development Group, RCA Victor Division, 415 S. 5 St., Harrison, N.J.
Born: January 9, 1907, Terre Haute, Ind. B.S., 1927, Rose Polytechnic Institute.

HARRISON, Arthur E. (A'41—SM'45—F'55), Professor, Electrical Engineering, University of Washington, Seattle 5, Wash.
Born: January 20, 1908, San Luis Obispo, Calif. B.S., 1936, University of California; M.S., 1937, Ph.D., 1940. California Institute of Technology. **Committees:** Awards, 1956; Editorial Reviewer, 1954–58; Education, 1949–58; Papers Procurement, 1945–46; Papers Review, 1946–53; Membership, 1951. **Sections:** Princeton Subsection, *secretary, 1947;* Princeton Section, *secretary, 1947, vice-chairman, 1948;* Seattle, *chairman, 1954–55.*

HARTIG, Henry E. (A'36—M'41—SM'43—F'52), Professor, Electrical Engineering Department, University of Minnesota, Minneapolis 14, Minn.
Born: January 28, 1892, Minneapolis, Minn. B.E.E., 1918, Ph.D., 1924, University of Minnesota. **Committees:** Awards, 1954–56; Education, 1952–57. **Sections:** Twin City, *chairman, 1945–46.* **IRE Representative:** University of Minnesota, 1941–42. **Awards:** Fellow, American Institute of Radio Engineers.

HARTLEY, Ralph V. L. (M'19—F'28)(L), Retired. 174 Summit Ave., Summit, N.J.
Born: November 30, 1888, Spruce, Nev. A.B., 1909, University of Utah; B.A., 1912, B.Sc., 1913, Oxford University. **Committees:** Sections, 1945. **Awards:** IRE Medal of Honor, 1946.

HARVEY, Norman L. (A'41—M'46—SM'48—F'54), Operations Manager, Special Tube Operations, Sylvania Electric Products, Inc., 1891 E. 3rd St., Williamsport, Pa.
Born: October 9, 1911, Ossian, Iowa. B.S. in E.E., 1934, Iowa State College. **Committees:** Navigation Aids, 1947–48.

HAUSZ, Walter (A'44—SM'46—F'54), Technical Military Planning Operation, General Electric Company, Santa Barbara, Calif.
Born: May, 1917, Queens County, N.Y. B.S.(E.E.), 1937; M.S. (E.E.), 1938, Columbia University. **Committees:** Admissions, 1951–52; National Convention, Convention Record, *chairman, 1953–54;* Papers Review, 1951–53. **Sections:** Santa Barbara Subsection, *chairman, 1957–58.* **Awards:** Coffin Award, General Electric, 1952.

HAYES, John Edmund (A'39—VA'39—SM'53—F'54), Chief Engineer, Canadian Broadcasting Corporation, 5253 Decarie Blvd., Montreal, P.Q., Canada.
Born: February, 1910, Arcola, Sask., Canada. B.Sc., 1935, Queens University; M.Eng., 1947, McGill University. **Committees:** Educational, 1946–50; Television Systems, 1952–58.

HAYES, Leslie W. (F'38), Vice-Director, International Radio Consultative Committee (C.C.I.R.), International Telecommunication Union, Palais Wilson, Geneva, Switzerland.
Born: May 31, 1896, London, England.

HAZELTINE, Alan (A'16—M'18—F'21)(L), Consulting Engineer, 15 Tower Dr., Maplewood, N.J.
Born: August 7, 1886, Morristown, N.J. M.E., 1906, Sc.D. (Hon-

orary), 1933, Stevens Institute of Technology; A.M., 1938, Columbia University. **IRE Offices:** President, 1936; Manager, 1923–28, 1937–38; Director, 1936–39. **Committees:** Admissions, 1925–28; Awards, *chairman, 1937–38;* Education, 1945–47; Meetings and Papers, 1925, 1927; New York Program, 1935; Standardization, 1924–28; Radio Receivers, 1927–28; Vacuum Tubes, *chairman, 1927–28;* Vacuum Tube Terminology, *chairman, 1924–25.* **Awards:** Armstrong Medal, Radio Club of America, 1937.

HEADRICK, Lewis B. (A'36—M'38—SM'43—F'53), Staff Engineer, Kinescopes, RCA Tube Division, New Holland Pike, Lancaster, Pa.
Born: June 6, 1904, Chattanooga, Tenn. B.S. (Physics), 1926, University of Chattanooga; Ph.D. (Physics), 1930, University of Michigan. **Committees:** Board of Editors, 1944–53; Editorial Reviewer, 1954–58; Electronics, 1942–46; Electron Tubes, 1946–49; Electron Tubes and Solid State Devices, 1949–50; Membership, 1943–46; Vacuum Tubes, 1945–46. **Sections:** Philadelphia, Lancaster Subsection, *chairman, 1952.*

HEGBAR, Howard R. (S'41—A'42—SM'46—F'57), Manager, Avionics and Electronics, Goodyear Aircraft Corporation, Akron 15, Ohio.
Born: February 22, 1915, Valley City, N.D. B.S.(E.E.), 1937, North Dakota State College; M.S.(E.E.), 1938, Ph.D.(E.E.), 1941, University of Wisconsin. **IRE Offices:** Director, 1957–58. **Committees:** Nominations, 1958; Policy Advisory, 1958. **Sections:** Akron Subsection, *chairman, 1948–49;* Akron, *chairman, 1949–50.*

HEINTZ, Ralph M. (A'21—M'27—F'30)(L), Consulting Engineer; Owner, The Ramohs, P.O. Box 546, Los Gatos, Calif.
Born: April 20, 1892, St. Louis, Mo. A.B., 1920, Stanford University. **Committees:** Membership, 1938–40; New York Program, 1938; Papers Review, 1946; Sections, 1938–40. **Sections:** San Francisco, *chairman, 1931–32.* **Awards:** Fellow, American Institute of Electrical Engineers, 1945.

HEISING, Raymond A. (A'20—F'23)(L), Consulting Engineer and Patent Agent, 232 Oak Ridge Ave., Summit, N.J.
Born: August 10, 1888, Albert Lea, Minn. E.E., 1912, University of North Dakota; M.S., 1914, University of Wisconsin; D.Sc., 1947, University of North Dakota. **IRE Offices:** President, 1939; Treasurer, 1943–45; Manager, 1927–31; Director, 1933–35, 1939–41, 1943–45, 1947–49. **Committees:** Admissions, 1927–31, 1933, 1935–38, *chairman, 1928–30, vice-chairman, 1931;* Appointments, 1948; Constitution and Laws, 1930–34, 1941–58, *chairman, 1943–44, 1951–53, 1954–57;* Executive, *vice-chairman, 1943–45;* Investments, 1944–46, *chairman, 1944–45;* Meetings and Papers, 1926; Membership Solicitation Policy, 1945; New York Program, 1933, 1935–37; Nominations, 1933, *chairman, 1941, 1950;* Office Quarters, *chairman, 1945–47;* Planning, *chairman, 1947;* Policy Development, 1948–50; Preparedness, 1940–41; Professional Groups, 1948–58; Sections, 1941–52, *chairman, 1941–45;* Standardization, 1925–26. **Awards:** IRE Morris Liebmann Memorial Prize, 1921; Modern Pioneer Award, National Association of Manufacturers, 1940; Fellow, American Institute of Electrical Engineers; Fellow, American Physical Society; Armstrong Medal, 1953; IRE Founders Award, 1957.

HENDERSON, JOHN T. (A'28—SM'47—F'51), Principal Research Officer, National Research Council, Sussex St., Ottawa, Ont., Canada.
Born: December 9, 1905, Montreal, P.Q., Canada. B.S., 1927, M.S., 1928, McGill University; Ph.D., 1932, University of London. **IRE Offices:** Director, 1953–58; President, 1957. **Committees:** Appointments, 1954–57; Executive, 1958, *chairman, 1957;* Nominations, 1954, 1958; Policy Advisory, 1955–56, 1958, *chairman, 1955;* Professional Groups, 1954–58. **Sections:** Ottawa, *vice-chairman, 1949, chairman, 1950.* **Awards:** Fellow, Royal Society of Canada, 1944; Member of the Order of the British Empire, 1943.

HENNEY, Keith (A'18—M'26—SM'43—F'43), Consulting Editor, Nucleonics, McGraw-Hill Publishing Company, Inc., 330 W. 42 St., New York, N.Y.
Born: October 28, 1896, McComb, Ohio. B.A., 1921, Western Reserve University; M.A., 1925, Harvard University. **IRE Offices:** Director, 1945–48. **Committees:** Annual Review, 1937–48; Awards, 1945–46, 1948–50, *chairman, 1949;* Editorial Board, 1958; Executive, 1946–47; History, 1954–58; Membership Solicitation Policy, 1945; New York Program, 1934, 1936–38, 1940–42, *chairman, 1942;* Nominations, 1950; Nuclear Studies, 1948–49; Planning, 1947; Policy Development, 1951; Publicity, 1937–39; Public Relations, 1943–50; Standards, 1945–49. **IRE Representative:** Advisory Committee on Industrial Information, Atomic Energy Commission, 1952–57; Joint IRE-RMA Co-ordination Committee, 1947–49, 1951.

HERBST, Philip J. (M'41—SM'43—F'53), 50 E. Oak Ave., Moorestown, N.J.
Born: January 24, 1903, Philadelphia, Pa. B.S. (Physics), 1925, St. Thomas College; M.S. (Physics), 1927, La Salle College. **Committees:** Editorial Reviewer, 1954–58; Radio Transmitters, 1952–58, *chairman, 1953–55;* Standards, 1953–56.

HERBSTREIT, Jack W. (A'40—SM'45—F'58), National Bureau of Standards, Boulder Laboratories, Boulder, Colo.
Born: September 7, 1917, Cincinnati, Ohio. E.E., 1939, University of Cincinnati. **Sections:** Denver, *vice-chairman, 1954–55; chairman, 1955–56.* **Professional Groups:** Administrative Committee, Antennas and Propagation, 1956–58, *chairman, 1958.* **IRE Representative:** Colorado Engineering Council, 1956.

HERGENROTHER, Rudolf C. (A'37—VA'39—SM'52—F'56), Manager of Beam Tube Research and Development Laboratory, Raytheon Manufacturing Company, Willow St., Waltham, Mass.
Born: September, 1903, Chemnitz, Germany, A.B., 1925, Cornell University; M.S., 1928, Pennsylvania State College; Ph.D., 1931, California Institute of Technology.

HEROLD, Edward W. (A'30—M'38—SM'43—F'48), Director, Electronic Research Laboratory, RCA Laboratories, Radio Corporation of America, Princeton, N.J.
Born: October 15, 1907, New York, N.Y. B.Sc., 1930, University of Virginia; M.Sc. 1942, Brooklyn Polytechnic Institute. **IRE Offices:** Director, 1956–58. **Committees:** Administrative Committee of the Board of Editors, 1951–53; Appointments, 1956. Board of Editors, 1946–53; Editorial Administrative, 1946–51; Editorial Board, 1956–58; Education 1957–58; Membership, 1942; Nominations, 1957; Papers, 1944–45; Policy Advisory, 1956–58; Winter Technical Meeting, 1945. **Sections:** Princeton, *vice-chairman, 1948, chairman, 1949.* **IRE Representative:** Joint AIEE-IRE Student Activities Coordination Committee, 1957.

HERSHBERGER, W. D. (A'37—SM'45—F'54), Professor of Engineering, University of California, Los Angeles 24, Calif.
Born: May 10, 1903, Wellman, Iowa. A.B. (Math), 1927, Goshen College; M.A. (Physics), 1930, George Washington University; Ph.D.(E.E.), 1937, University of Pennsylvania. **Committees:** Education, 1946; Subcommittee on Basic Wave Guide Symbols, 1947; Wave Propagation, 1957.

HERZOG, Gerhard (SM'46—F'55), Assistant General Manager, Research and Technical Department, The Texas Company, P.O. Box 425, Bellaire, Tex. Consular Agent for Switzerland.
Born: April 30, 1904, Zurich, Switzerland. M.M., 1926, Ph.D., 1926, Swiss Institute of Technology. **Awards:** Fellow, American Physical Society.

HESSEL, John (A'31—VA'39—SM'48—F'53), Chief, Electronics Section, NATO International Staff, U. S. Embassy, Paris, France.
Born: March 15, 1908, Grand Rapids, Mich. B.S.(E.E.), 1929, M.S.(E.E.), 1930, University of Michigan. **Committees:** Papers Procurement, 1948–50; Tellers, 1956–57. **Professional Groups:** Communication Systems, Administrative Committee, *chairman, 1953.* **Awards:** Colonel, Signal Corps, USAR; Legion of Merit with Oak Leaf Cluster; Distinguished Alumnus Citation, University of Michigan, 1953.

HEWLETT, William R. (S'35—A'38—M'47—F'48), Vice-President, Hewlett-Packard Company, 275 Page Mill Rd., Palo Alto, Calif.
Born: May 20, 1913, Ann Arbor, Mich. A.B., 1934, Stanford University; M.S., 1936, Massachusetts Institute of Technology; E.E., 1939, Stanford University. **IRE Offices:** President, 1954; Director, 1950–57. **Committees:** Appointments, 1954–55, *chairman, 1955;* Constitution and Laws, 1956–58; Executive, 1953–55, *chairman, 1954;* Editorial Board, 1955; Editorial Reviewer, 1955; Finance, 1953–55; Papers Review, 1952–53; Nominations, 1950–56, *chairman, 1956, 1958;* Policy Advisory, *chairman, 1952;* Policy Development, 1950–51. **Sections:** San Francisco, *vice-chairman, 1948–49, chairman, 1949–50.*

HIGHT, Stuart C. (A'31—M'39—SM'43—F'55), Director of Research, Sandia Corporation, Sandia Base, Albuquerque, N.M.
Born: July 28, 1906, Berkeley, Calif. B.S.(E.E.), 1930, University of California; M.A., 1934, Columbia University. **Awards:** Naval Ordnance Award, 1945.

HILL, Albert G. (SM'46—F'50), Director of Research, W.S.E.G., Vice-President and Director of Research, Institute for Defense Analyses, The Pentagon, Washington 25, D.C.; Professor of Physics, Massachusetts Institute of Technology, on leave.
Born: January 11, 1910, St. Louis, Mo. B.S., 1930, M.S., 1934, Washington University; Ph.D., 1937, University of Rochester. **Awards:** Presidential Certificate of Merit, 1948; U.S.A.F. Distinguished Civilian Service Award, 1955; Yankee Post, American Ordnance Association, First Annual Distinguished Service Award, 1956.

HILLIARD, John K. (A'25—M'29—SM'43—F'52), Vice-President, Director of Advanced Engineering, Altec Lansing Corporation, 1515 S. Manchester Ave., Anaheim, Calif.
Born: October 22, 1901, Wyndmere, N.D. B.S., 1924, Hamline University; D.Sc.(Honorary) in E., University of Hollywood. **Committees:** Audio Techniques, 1950–54; Board of Editors, 1950–53; Editorial Reviewer, 1954–58; Professional Groups, 1952. **Professional Groups:** Audio, *vice-chairman, 1951–53;* Medical Electronics, Los Angeles Chapter, *chairman, 1955–56.* **Sections:** Los Angeles, *chairman, 1933–34.* **Awards:** Fellow, Acoustical Society of America; Fellow, Audio Engineering Society; Fellow, Society of Motion Pictures and Television Engineers.

HILLIER, James (SM'55—F'57), General Manager, RCA Laboratories, Radio Corporation of America, Princeton, N.J.
Born: August 22, 1915. Brantford, Ont., Canada. B.A. (Math. and Physics), 1937, M.A. (Physics), 1938, Ph.D. (Physics), 1941, University of Toronto.

HINMAN, Wilbur S., Jr. (SM'46—F'57), Technical Director, Diamond Ordnance Fuze Laboratories, Ordnance Corps. U. S. Army, Connecticut Ave. at Van Ness St., N.W., Washington 25, D.C.
Born: March 14, 1906, Washington, D.C. Attended, 1922–23, George Washington University; B.S.(E.E.), 1926, Virginia Military Institute. **Awards:** Medal for Meritorious Service, Department of Commerce; Presidential Certificate of Merit, 1948; Merit Citation, National Civil Service League, 1955; IRE, Harry Diamond Memorial Award, 1956.

HINNERS, Frank A. (IRE Charter Member)(A'12—M'15—F'26), President, Hinners-Galanek Radio Corporation, 66-02 Austin St., Forest Hills 74, L.I., N.Y.
Born: February 19, 1894, New York, N.Y. I.E.E., 1915, Pratt Institute. **Committees:** New York Program, 1941–42. **Awards:** Charter Member, Wireless Institute.

HIRSCH, Charles J. (M'39—SM'43—F'51), Executive Vice-President, Hazeltine Research Corporation, 58-25 Little Neck Pkwy., Little Neck, L.I., N.Y.
Born: October, 1902, Pittsburgh, Pa. A.B., 1923, Columbia College; E.E., 1925, Columbia University. **Committees:** Awards, 1956–58; Board of Editors, 1952–53; Editorial Reviewer, 1954–58; Navigation Aids, 1947–53, *vice-chairman, 1950–52.* **Sections:** Long Island Subsection, *chairman, 1952.* **Awards:** Certificate of Commendation, U. S. Navy, 1947.

HOBSON, Jesse E. (M'45—F'56), Vice-President and Director of Research, United Fruit Company, 80 Federal St., Boston, Mass.
Born: May 2, 1911, Marshall, Ind. B.S.(E.E.), 1932, M.S.(E.E.), 1933, Purdue University; Ph.D., 1935, California Institute of Technology; D.Eng. (Honorary), 1957, Purdue University. **Awards:** Eta Kappa Nu, Outstanding Young Electrical Engineer, 1940; Fellow, Charles Coffin Foundation, 1933–34; Fellow, Tau Beta Pi Research, 1932–33.

HOEPPNER, Conrad H. (SM'47—F'58), Director of Research, Radiation, Inc., Melbourne, Fla.
Born: March, 1918, Spooner, Wis. B.Sc.(E.E.), 1939, M.Sc.(E.E.), 1940, E.E.(Professional), 1947, University of Wisconsin. **Professional Groups:** Telemetry and Remote Control, *secretary, 1953–55; chairman, 1955–57.* **Awards:** Fellow, Wisconsin Alumni Research, 1939–40; Fellow, Tau Beta Pi, 1940–41; Fellow, Massachusetts Institute of Technology, 1940–41.

HOGAN, John V. L. (IRE Founder and Charter Member) (A'12—M'12—F'15)(L), Founder and President, Hogan Laboratories, Inc., 155 Perry St., New York 14, N.Y.
Born: February 14, 1890, Philadelphia, Pa. D.Eng. (Honorary), 1957, Polytechnic Institute of Brooklyn. **IRE Offices:** President, 1920; Vice-President, 1916–19; Manager, 1912–15, 1921–32; Director, 1916–20, 1932–36, 1948–50. **Committees:** Annual Review, 1927, 1947–51; Appointments, 1948; Awards, 1919, 1928, 1932–33, 1945, 1948, *chairman, 1928;* Broadcasting, 1929–38; Constitution and Laws, 1928–29, 1935–36, 1954–55, *chairman, 1932–34;* Constitutional Amendments, *chairman, 1915;* Editing, *chairman, 1914;* Facsimile, 1939–53, *chairman, 1947–51;* Finance, 1915; Financial Matters, 1915; Increase of Membership, 1916–19, *chairman, 1916;* Nominations, 1931, 1937–38, 1943–44, *chairman, 1945;* Papers, 1915–19, 1942–45; Papers Procurement, 1947; Papers Review, 1946; Policy Advisory, 1952; Policy Development, 1950–51; Professional Groups, 1950; Professional Recognition, 1947; Publicity, 1913–19, *chairman, 1913, 1915, 1916–19;* Radio Receivers, 1927–28; Revision of the Constitution, 1925–27, *chairman, 1925;* Sections, 1925; Specifications for Steamship Radio Equipment, 1914–15; Standardization, 1913, 1915–29, *chairman, 1916–20, 1929–30;* Standards, 1932–33, 1936–37, 1947–48, 1949–51; Use of the Transmission Unit, *chairman 1928;* Vacuum Tubes, *chairman 1927–28.* **IRE Representative:** ASA Sectional Committee on Electrical Installation on Shipboard, 1930, 1936; ASA Sectional Committee on Radio, 1930; ASA Sectional Committee on Radio Electrical Co-ordination, 1936, 1939–46; Joint Technical Advisory Committee, 1948–57. **Awards:** IRE Medal of Honor, 1956.

HOK, Gunnar (A'31—SM'46—F'57), Professor, Electrical Engineering, University of Michigan, Ann Arbor, Mich.
Born: March 29, 1903, Eskilstuna, Sweden, E.E., 1926, Royal Institute of Technology, Stockholm. **Committees:** Papers Review, 1952–53; Editorial Reviewer, 1955–58.

HOLLMANN, Hans E. (A'48—F'53), Vice-President, Dresser Dynamics, Inc., Northridge, Calif.
Born: November 4, 1899, Solingen, Germany. Ph.D., 1928; Dr. Habil., 1933, Technical University, Berlin; Dr. h.c. 1957, Technical University, Dresden, Germany.

HOLMES, Lynn C. (M'44—SM'49—F'49), Director of Research, Stromberg-Carlson Company, A Division of General Dynamics, 1400 N. Goodman St., Rochester 9, N.Y.
Born: April, 1904, Brookfield, N.Y. E.E., 1925, M.E.E., 1932; Rensselaer Polytechnic Institute. **Awards:** Fellow, American Institute of Electrical Engineers.

HOLMES, Ralph S. (A'25—SM'45—F'52), Director, Research Contracts, Radio Corporation of America, David Sarnoff Research Center, RCA Laboratories, Princeton, N.J.
Born: May 26, 1902, Murray, Neb. B.S., 1923, University of Nebraska. **Committees:** Radio Receivers, 1938–41. **Awards:**

Modern Pioneer Award, National Association of Manufacturers, 1937.

HONNELL, Pierre M. (J'27—A'29—M'41—SM'43—F'58), Professor of Electrical Engineering, Washington University, St. Louis 5, Mo.
Born: January 28, 1908, Paris, France. B.S.(E.E.), 1930, M.Sc.(E.E.), 1939, Massachusetts Institute of Technology; M.Sc., 1940, California Institute of Technology; Ph.D.(Geophysics), 1950, St. Louis University. **Awards:** Legion of Merit, War Department, 1946; Marconi Premium, British Institution of Radio Engineers, 1957; Fellow, AAAS, 1957; Fellow, AIEE, 1958.

HORN, Charles W. (A'14—M'28—F'30), Partner and Manager, Radio Impulsora Mexicana, S.A.; Cia. Distribuidora Mercantil, S.A., Calle Rhin 33, Colonia Cuauhtemoc, Mexico City, D.F., Mexico.
Born: July 9, 1894, New York, N.Y. **IRE Offices:** Director, 1933–34. **Committees:** Admissions, 1933–37, 1940–42; Broadcast, 1933–38; Broadcasting, 1928–33; Institute Sections, 1929–33, *chairman, 1931–32;* New York Program, 1932–34, *chairman, 1933;* Public Relations, 1945–46; Television and Facsimile, 1936–39. **IRE Representative:** National Advisory Council on Radio in Education, 1936, 1939–40; Committee on Engineering Developments, 1941–43.

HORNE, Charles F. (A'35—SM'53—F'58), Rear Admiral, Retired. Vice-President and Division Manager of Convair-Pomona, A Division of General Dynamics Corporation, P.O. Box 1011, Pomona, Calif.
Born: January 3, 1906, New York, N.Y. B.S., 1926, U. S. Naval Academy, Annapolis; M.Sc., 1935, Harvard University. **Professional Groups:** Engineering Management, Administrative Committee, 1956–58, *chairman, 1956–57.* **Awards:** International Region Medal, CAA.

HORNER, S. George L. (M'46—SM'50—F'57), Superintendent, Radio Division, Hudson Bay Company, Fur Trade Department, Hudson Bay Company Radio Laboratory, 487 Hay St., Winnipeg 13, Man., Canada.
Born: May 17, 1907, Limavady, County Derry, North Ireland. B.Sc.E., 1934, University of New Brunswick. **Sections:** Winnipeg Subsection, *secretary-treasurer, 1948–49, vice-chairman, 1949–50, chairman, 1950–51.*

HORTON, J. Warren (A'20—F'29)(L), Chief Consultant, United States Navy Underwater Sound Laboratory, New London, Conn.
Born: December 18, 1889, Ipswich, Mass. S.B., 1914, Sc.D., 1935, Massachusetts Institute of Technology. **Committees:** Awards, 1932, Board of Editors, 1930–31, 1935–40; Meetings and Papers, 1929–30, *chairman, 1930;* Membership, 1947–48; Standardization, 1929–31, *chairman, 1931;* Standards, *chairman, 1932–33;* Vacuum Tubes, 1929–30. **IRE Representative:** ASA Sectional Committee on Electric and Magnetic Magnitudes and Units, 1952–58; United States National Committee, Advisers on Symbols (International Electrotechnical Committee), 1936, 1939–51.

HOUCK, Harry W. (A'19—M'28—SM'43—F'57), Vice-President, Thomas A. Edison Industries, McGraw-Edison Co., General Manager, Measurements Division; President and General Manager, Measurements Corporation of Canada, Ltd.; Vice-President, Armstrong Memorial Research Foundation; Director, Sag Harbor Industries, Inc., Intervale Rd., Boonton, N.J.
Born: April 11, 1896, New Cumberland, Pa. Extension Course, 1931, Columbia University. **IRE Offices:** Manager, 1931–32; Director, 1932. **Committees:** Admissions, 1932; Constitution and Laws; History, 1954–58; Radio Receivers, 1928–29; Tellers, 1940; **Professional Groups:** Radio Club of New York, *director, 1928, recording secretary, 1930–32, vice-president, 1933, president, 1934.* **Awards:** Armstrong Medal, Radio Club of America, 1941; Marconi Memorial Medal of Achievement, Veteran Wireless Operators Association, 1955.

HOWE, George W. O. (F'55), Professor, Lismore House, Kelvin Dr., Glasgow, Scotland.
Born: December 4, 1875, London, England. D.Sc., 1914, Durham University; D.Sc.(Honorary), 1914, Adelaide University (Australia); LL.D.(Honorary), 1948, Glasgow University.

HOWES, Frederick S. (A'37—M'43—SM'43—F'50), Professor of Electrical Engineering and Director, Department University Extension, McGill University, Montreal, P.Q., Canada.
Born: July 25, 1896, Paris, Ont., Canada. B.S.(E.E.), 1924, M.Sc.(E.E.), 1926, McGill University; Ph.D.(E.E.), 1929, Imperial College, University of London. **IRE Offices:** Director, 1948. **Committees:** Awards, 1950–51; Education, 1945–46, 1951–56. **Sections:** Montreal, *chairman, 1944–45;* Canadian Council, *chairman, 1947–48.* **IRE Representative:** McGill University, 1941–58.

HUGGINS, William H. (S'39—A'44—SM'55—F'57), Professor of Electrical Engineering, Johns Hopkins University, Baltimore, Md.
Born: January 11, 1919, Rupert, Idaho, B.S., 1941, M.S., 1942, Oregon State College; Sc.D., 1953, Massachusetes Institute of Technology. **Committees:** Circuits, 1949–58; Editorial Reviewer, 1951–53, 1954–57; Papers, 1951–53. **Professional Groups:** Circuit Theory, *Secretary, 1952–53; Editor, 1954–57; vice-chairman, 1956–57; chairman, 1957–58.* **IRE Representative:** Johns Hopkins University, 1955–58. **Awards:** IRE Browder J. Thompson Memorial Prize, 1948; Air Force Decoration for Exceptional Civilian Service, 1954; National Electronics Conference Award, 1956.

HULL, David R. (A'36—F'47), Captain, United States Navy, Retired. Vice-President, Raytheon Manufacturing Company, Waltham 54, Mass.
Born: October, 1903, Newton, N.J. B.S., 1925, United States Naval Academy; M.S., 1933, Harvard University. **Committees:** Awards, 1956–58; Electronics, 1943–46; Electron Tubes, 1946–47; Vacuum Tubes, 1945–46. **Awards:** Fellow, Acoustical Society of America; Legion of Merit; Navy Commendation Ribbon.

HULL, Lewis M. (J'17—A'19—M'27—F'28), Chairman of the Board, Aircraft Radio Corporation, Boonton, N.J.
Born: February 27, 1898, Great Bend, Kan. A.B., 1917, A.M., 1918, University of Kansas; Ph.D., 1922, Harvard University. **IRE Offices:** President, 1933; Manager, 1929–32; Directory, 1932–35. **Committees:** Admissions, 1927–28; Awards, 1935–37, *chairman, 1935;* Broadcasting, 1928–32, *chairman, 1928–31;* Meetings and Papers, 1928–30; New York Program, 1931; Nominations, 1928, 1931, 1934–35, *chairman, 1934;* Papers, 1931; Radio Receivers, 1927–28; Registration of Engineers, 1940; Use of the Transmission Unit, 1928–29. **IRE Representative:** ASA Sectional Committee on Radio, 1930; National Advisory Council on Radio in Education, 1936, 1939–40; National Advisory Council on Radio in Education, Committee on Engineering Developments, 1941–43; Radio Advisory Committee, Bureau of Standards, Department of Commerce, 1930, 1936.

HUNT, Frederick V. (A'28—M'41—SM'43—F'47), Rumford Professor of Physics and Gordon McKay Professor of Applied Physics, 222 Lyman Laboratory, Harvard University, Cambridge 38, Mass.
Born: February 15, 1905, Barnesville, Ohio. B.A., 1924, B.E.E., 1925, Ohio State University; A.M., 1928, Ph.D., 1934, S.D. (Honorary), 1945, Harvard University. **Committees:** Audio Techniques, 1949–50; Electroacoustics, 1941–51; Papers, 1942–45; Papers Procurements, 1942–43, 1947–48; Papers Review, 1946–48; Regular Papers, 1941.

HUNTER, Theodore A. (A'29—M'45—SM'46—F'53), President, Hunter Manufacturing Company, 108 N. Linn St., Iowa City, Iowa; Research Professor at State University of Iowa.
Born: December 5, 1900, Dike, Iowa. B.S.(E.E.), 1922, M.S. (Physics), 1923, M.S.(E.E.), 1931, State University of Iowa. **IRE Offices:** Director, 1948–50, 1956; Editor, *Student Quarterly,* 1954–57. **Committees:** Editorial Board, 1954–58; Education, 1954–58; Nominations, 1949, 1950, *chairman, 1949;* Papers Procurement, 1945–50; Policy Advisory, 1948–53; Policy Development, 1948–51; Sections, 1950. **Sections:** Cedar Rapids, *temporary chairman, 1945, chairman, 1946–47.* **Professional Groups:** Education, Transactions Editor, *1958.*

HUNTOON, Robert D. (A'40—SM'47—F'54), Associate Director for Physics, National Bureau of Standards, Washington 25, D.C.
Born: July, 1909, Waterloo, Iowa. B.A., in Education, 1932, Iowa State Teachers College; M.S. (Experimental Physics), 1935; Ph.D. (Nuclear Physics), 1938, State University of Iowa. **Awards:** Washington Academy of Sciences Award, 1948, in Physical Sciences; Naval Ordnance Development Award, 1945, U. S. Navy Bureau of Ordnance; Presidential Certificate of Merit, 1948; Exceptional Service Award, Department of Commerce, 1949; Fellow, American Physical Society, 1955.

HUTCHESON, John A. (A'28—M'30—SM'43—F'48), Vice-President-Engineering, Westinghouse Electric Corporations, Pittsburgh, Pa.
Born: January, 1905, Park River, N.D. B.S., 1926, D.Sc.(Honorary), 1943, University of North Dakota. **IRE Offices:** Director, 1948. **Committees:** Board of Editors, 1946–50; Nominations, 1948; Nuclear Studies, 1948–49; Policy Development, 1948. **Sections:** Connecticut Valley, *chairman, 1935–36;* Pittsburgh, *chairman, 1945–46.*

HUTTER, Rudolf, G. (SM'46—F'54), Associate Director of Research, Physics Laboratories, Sylvania Electric Products, Inc., Bayside 60, L.I., N.Y.
Born: February 12, 1910, Berlin, Germany. State Examination, 1936, University of Berlin; Ph.D., 1944, Stanford University. **Committees:** Board of Editors, 1953; Editorial Reviewer, 1954–57.

HYLAND, Lawrence A. (A'29—VA'39—SM'53—F'55), Vice-President and General Manager, Hughes Aircraft Company, Florence Ave. at Teale St., Culver City, Calif.
Born: August 26, 1897, N.S., Canada. D.E.(Honorary), 1954, Lawrence Institute of Technology. **Awards:** Medal for Distinguished Public Service, U. S. Navy, 1950.

IAMS, Harley A. (A'31—M'38—SM'43—F'50), Associate Director, Research Laboratories, Hughes Aircraft Company, Florence Ave. at Teale St., Culver City, Calif.
Born: March 13, 1905, Lorentz, W.Va. B.A.(M.E.), 1927, Stanford University. **Committees:** Papers, 1941–45; Papers Review, 1946–47. **Awards:** Joint Award, Modern Pioneers, National Association of Manufacturers, 1940.

ISBISTER, Eric J. (A'39—SM'45—F'53), Chief Engineer, Surface Armament Division, Sperry Gyroscope Company, Division of the Sperry Rand Corporation, Great Neck, L.I., N.Y.
Born: June 11, 1912, Brooklyn, N.Y. B.S.(E.E.), 1934, Massachusetts Institution of Technology; M.S.(E.E.), 1940, Polytechnic Institute of Brooklyn. **Committees:** Registration, 1952; Tellers, 1950–51, *chairman, 1951.* **Sections:** Long Island Sub-Section, *chairman, 1947–49;* New York, *treasurer, 1951–52.* Long Island Section, Awards, *chairman, 1954–55.* **Professional Groups:** Military Electronics, *Nominating Committee, 1956.* **Awards:** U. S. Navy Certificate of Commendation, 1947; Polytechnic Institute of Brooklyn, Certificate of Distinction, 1956; New York Section Certificate of Appreciation, 1958.

ISRAEL, Dorman D. (A'23—M'30—F'42), Executive Vice-President, Emerson Radio & Phonograph Corporation, 14 & Coles Sts., Jersey City, N.J.
Born: July 21, 1900, Newport, Ky. E.E., 1923, University of Cincinnati. **Committees:** Administrative, 1949–51; Awards, 1943–44, 1947; Editorial Reviewer, 1954–57; Membership, 1941; National Convention, 1947; New York Program, 1940–41; Nominations, 1946; Papers, 1940–41; Papers Procurement, *chairman, 1942–43, general chairman, 1944–47;* Professional Groups, 1953–54; Public Relations, 1940–44; Radio Receivers, 1938–42; Regular Papers, *chairman, 1941;* Television and Facsimile, 1936–37; Winter Technical Meeting, 1946. **Professional Groups:** Broadcast and Television Receivers, *chairman, 1951–53.* **Sections:** Cincinnati, *chairman, 1931–32.* **IRE Representative:** Joint Technical Advisory Committee, *chairman, 1955–56;* IRE-RMA Co-ordination Committee, 1947–48.

JACKSON, William E. (A'29—M'34—SM'43—F'51), Chief, Electronics Division, Civil Aeronautics Administration, Technical Development Center, Weir Cook Airport, Indianapolis 21, Ind.
Born: May 8, 1904, Bridgewater, Mass. B.S.(E.E.), 1925, Brown University. **Committees:** Antennas, 1944–47; Navigation Aids, 1947–48; Radio Transmitters, 1946–47; Transmitters, 1944–45; Transmitters and Antennas, 1938–44. **Awards:** Citation for service on Radio Technical Commission for Aeronautics Special Committee, SC 31; Cull Prize in Engineering, Brown University, 1925..

JACKSON, Willis (SM'48—F'50), Director, Research and Education, Metropolitan Vickers Electrical Company, Ltd., Trafford Park, Manchester & St. Paul's Corner, London, E.C.4, England.
Born: October 20, 1904, Burnley, Lancashire, England. D.Sc., 1936, Manchester University; D.Phil., 1936, Oxford University; D.Sc. Tech., Zurich, 1955; D.Sc.(Eng.), 1956, Bristol. **IRE Representative:** IRE-IEE International Liaison Committees, 1955–58. **Awards:** Fellow, Royal Society, 1953.

JANES, Robert B. (A'37—M'50—SM'51—F'55), Manager, Industrial and Computer Development, Semi-conductor Division, Radio Corporation of America, Somerville, N.J.
Born: February 2, 1909, Burlington, Mass. B.S., 1928, Kenyon College; Ph.D., 1935, University of Wisconsin. **Committees:** Electron Devices, 1952–56; Electron Tubes and Solid Devices, 1950–52. **Sections:** Lancaster Subsection, *chairman, 1955–56.*

JANSKY, C. M., Jr. (A'18—M'25—F'28), Chairman of the Board, Jansky and Bailey, Inc., 1735 DeSales St., N.W., Washington 6, D.C.
Born: June 28, 1895, Delton, Mich. B.A., 1917, M.A., 1919, University of Wisconsin. **IRE Offices:** President, 1934; Manager, 1929–32; Director, 1932–42. **Committees:** Admission, 1929–33, 1936–40, *chairman, 1931, 1936–37;* Awards, 1942; Board of Editors, 1942–50; Broadcast, 1935–37, *chairman, 1937–38;* Broadcasting, 1931–34; Constitution and Laws, 1932–35, 1941; Convention Policies, 1940; Education, 1944; Frequency Modulation, 1940–46; Membership, 1925–28, 1941–43; Nominations, 1936–42, 1945, *chairman, 1937, 1939;* Preparedness, 1940–41; Publicity, 1936; Public Relations, 1945–46; Radio Receivers, 1928–29; Sections, 1925; Standardization, 1928–32; Standards, 1932–33; Use of the Transmission Unit, 1928–29. **IRE Representative:** American Council on Education, Planning Committee, National Conference on Educational Broadcasting, 1936–37, 1939–43; American Documentation Institute, 1939–43; ASA Sectional Committee on Radio Electrical Co-ordination, 1926, 1939–46; First National Conference on Educational Broadcasting, 1937; URSI Executive Committee, 1936, 1939–50.

JARVIS, Kenneth W. (A'24—M'27—F'34), President, Jarvis Electronics Corporation. **Home:** 1140 Cherry St., Winnetka, Ill.
Born: October 18, 1901, Mansfield, Ohio. B.E.E., 1923, Ohio State University. **Committees:** Receiver Sets, 1927–28; Radio Receivers and Parts, 1930–32; Receivers, 1947–57. **Sections:** Chicago, *chairman, 1948–49.*

JASIK, Henry (A'40—SM'47—F'58), Consulting Engineer, Jasik Laboratories, 300 Shames Dr., Westbury, L.I., N.Y.
Born: March, 1919, New York, N.Y. B.S.(E.E.), 1938, Newark College of Engineering; M.E.E., 1951, D.E.E., 1953, Polytechnic Institute of Brooklyn. **Committees:** Antennas and Waveguides 1950–58, *vice-chairman, 1954; chairman, 1955–56;* Papers Review, 1950–53; Standards, 1955–56. **Professional Groups:** Microwave Theory and Techniques, Administrative Committee, 1954–55.

JENSEN, Axel G. (A'23—M'26—F'42), Director of Visual and Acoustics Research, Bell Telephone Laboratories, Inc., Murray Hill, N.J.
Born: February 7, 1896, Copenhagen, Denmark. E.E., 1920, Royal Technical College; Post Graduate, 1921–22, Columbia University. **IRE Offices:** Director, 1954–56. **Committees:** Appointments, 1954–55; Audio and Video Techniques, 1948–49; Editorial Reviewer, 1954–57; Executive, 1955–56; Instruments and Measurements,

1949–50; Policy Advisory, 1954–56; Standards, 1948–56, *vice-chairman, 1950, chairman, 1951–54;* Television, 1939–48, *chairman, 1948–49;* Television and Facsimile, 1938; Television Systems, 1949–58, *vice-chairman, 1949, chairman, 1949–51.* **IRE Representative:** ASA Electrical Standards Board, 1953–58; ASA Sectional Committee (C42) on Definitions of Electrical Terms, 1949–58; ASA Sectional Committee (C16) on Radio (sponsored by IRE), 1951–57, *chairman, 1953–54, 1955–57;* ASA Standards Council, 1951–54, *alternate, 1955–56;* International Radio Consultative Committee: Executive Committee of U. S. Delegation, 1952–58; International Radio Consultative Committee, U. S. Study Group XIV (Vocabulary), *chairman, 1952–58;* IRE-AIEE Committee on Noise Definitions, 1951–52; IRS Steering Committee, 1951; Joint IRE-ASA (C42) Definitions Co-ordinating Committee, 1949–51; Joint IRE-RTMA-SMPTE-NARTB Committee for Inter-Society Co-ordination, 1952–55; U. S. National Committee of the International Electrotechnical Commission, 1953–57; *alternate, 1958.*

JESTY, Leslie C. (M'54—F'56), In Charge Colour Television Research, Sylvania-Thorn Colour T.V. Laboratories, Ltd., Great Cambridge Rd., Enfield, Middlesex, England.
Born: August, 1907, Alresford, England. B.Sc.(Physics), 1927, B.Sc.(General), 1928, University College, Southampton, England. **Awards:** Fellow, Television Society, 1946; Fellow, British Kinematograph Society, 1954; Member, Institute of Electrical Engineers, London.

JETT, Ewell K. (A'29—M'38—F'39), Vice-President and Director of Television, Baltimore Sunpapers, Baltimore, Md., and formerly Chief Engineer and Commissioner, Federal Communications Commission.
Born: March 20, 1893, Baltimore, Md. **IRE Offices:** Director, 1938. **Committees:** Public Relations, 1945–46. **Sections:** Washington, D.C., *chairman, 1935–36.*

JOHNSON, J. Kelly (A'25—M'35—SM'43—F'49), Consulting Engineer, 184 South Ave., New Canaan, Conn.
Born: January, 1903, Oskaloosa, Iowa. A.B., 1924, B.S., 1926, E.E., 1927, Columbia University. **IRE Offices:** Director, 1942. **Committees:** Board of Editors, 1946–53; Nominations, 1942; Papers Procurement, 1944–45; Radio Receivers, 1936–37, 1941–49, 1954–57; Receivers, 1950–53; Registration of Engineers, 1940–43; Regular Papers, 1941; Sections, 1943–44. **Sections:** Chicago, *secretary, 1935–36, chairman, 1937–38;* New York, *treasurer, 1948–49.*

JOHNSON, John B. (M'40—SM'43—F'51), Head, Physics Department, Edison Laboratory, Thomas A. Edison, Inc., West Orange, N.J.
Born: October 2, 1887, Gothenberg, Sweden. B.S., 1913, M.S., 1914, University of North Daktoa; Ph.D., 1917, Yale University.

JOLLIFFE, Charles B. (M'25—F'30), Vice-President and Technical Director, Radio Corporation of America, Princeton, and Camden, N.J.
Born: November 13, 1894, Mannington, W.Va. B.S., 1915, M.S., 1920, West Virginia University; Ph.D., 1922, Cornell University; LL.D., 1942, West Virginia University. **IRE Offices:** Director, 1936–37, 1944. **Committees:** Admissions, 1938; Awards, 1942; Bibliography, 1930–32; Broadcast, 1932–33, 1936–37; Frequency Modulation, 1940–41; Meetings and Papers, 1930; Nominations, 1937, 1941; Piezoelectric Crystals, 1940–41; Policy Development, 1948; Preparedness, 1940–41; Radio Receivers, 1927–28; Standardization, 1925–27, 1929–30, *chairman, 1928;* Vacuum Tubes, 1927–28, *chairman, 1928–29;* Television and Facsimile, 1936–39. **Sections:** Washington, D.C., *chairman, 1929–30.* **IRE Representative:** American Council on Education, Planning Committee, National Conference on Educational Broadcasting, 1936, 1939–43.

JORDAN, Edward C. (S'36—A'39—SM'45—F'53), Professor and Head of Department of Electrical Engineering, University of Illinois, Urbana, Ill.
Born: December 31, 1910, Edmonton, Alta., Canada. B.S.(E.E.), 1934, M.S.(E.E.), University of Alberta; Ph.D.(E.E.), 1940, Ohio State University. **Committees:** Annual Review, 1949–51; Antennas, 1945–49; Antennas and Waveguides, 1949–52; Editorial Reviewer, 1954–57; Membership, 1950–51; Papers Review, 1951–53. **Sections:** Columbus Subsection, *chairman, 1945.* **IRE Representative:** Ohio State University, 1942–45; University of Illinois, 1946–50.

JORDAN, John F. (A'40—M'45—SM'53—F'54), Vice-President in charge of Manufacturing, The Baldwin Piano Company, 1801 Gilbert Ave., Cincinnati, Ohio.
Born: November 23, 1908, Pittston, Pa. E.E., 1932, University of Cincinnati. **Committees:** Awards, 1955–57; Sections, 1949–52, *chairman, 1950–51.* **Sections:** Cincinnati, *secretary-treasurer, 1945–46, vice-chairman, 1946–47, chairman, 1947–48, 1951–52.*

KAAR, Ira J. (J'22—M'29—F'41), Vice-President and Engineering Director, Hoffman Electronics Corporation, Los Angeles, Calif.
Born: October 17, 1902, Dunsmuir, Calif. B.S.(E.E.), 1924, University of Utah. **IRE Offices:** Director, 1939, 1948. **Committees:** Admissions, 1940; Annual Review, 1940–46; Awards, 1947–48; Nominations, 1949–50; Public Relations, 1940, 1942; Standards, 1940–46; Television, 1939–48, *chairman, 1940–47;* Television Systems, 1949–58. **IRE Representative:** Joint Technical Advisory, 1950–56, *chairman, 1950–52.* **Awards:** Certificate of Commendation, U. S. Navy, 1947; Fellow, American Institute of Electrical Engineers, 1951, E.I.A. Engineering Award, 1957.

KALMUS, Henry P. (A'39—SM'45—F'56), Chief, Supporting Research Laboratory, Associate Director, Diamond Ordnance Fuze Laboratory, Washington 25, D.C.
Born: January 9, 1906, Vienna, Austria. Dipl. Ing., 1930, Technical University, Vienna. **Awards:** Award for Exceptional Service, U. S. Department of Commerce, 1954; Certificate of Achievement, U. S. Army, 1954.

KANDOIAN, Armig G. (S'35—A'36—SM'44—F'51), Director, Radio Communication Laboratory, Federal Telecommunication Laboratories, 500 Washington Ave., Nutley, N.J.
Born: November 28, 1911, Van, Armenia. B.S., 1934, M.S., 1935, Harvard University. **Committees:** Papers Review, 1946–53. **Awards:** Eta Kappa Nu, Honorable Mention, 1943.

KANTEBET, Shankar R. (A'25—M'31—SM'43—F'49), Director General, Retired. Overseas Communication Service, Eleventh Road, Santa Cruz East, Bombay 25, India.
Born: December, 1900, Kanara, Bombay, India. B.A. (Honours), M.N.; Technical Scholar, 1922, Bombay University. **IRE Offices:** Vice-President, 1953; Director, 1953. **Awards:** AMIEE, 1928; MIE (1), 1944; Marconi Veteran, 1951.

KARPLUS, Eduard (A'31—F'38), Engineer, General Radio Company, 22 Baker Ave., West Concord, Mass.
Born: September 7, 1899, Moedling, Austria. Ingenieur, 1923, Technische Hochschule, Vienna, Austria.

KATZIN, Martin (J'27—A'29—M'42—SM'43—F'55), President, Electromagnetic Research Corporation, 711 14 St., N.W., Washington 5, D.C.
Born: February 17, 1908, New York, N.Y. B.S.E.(E.E.), 1928, B.S.E.(Math), 1929, M.S.E.(E.E.), 1929, University of Michigan. **Committees:** Editorial Reviewer, 1954–57; Papers Procurement, 1946–50; Papers Review, 1948; Wave Propagation, 1954–58. **Awards:** Presidential Certificate of Merit, 1948; Distinguished Alumnus Citation for Contributions to Engineering, University of Michigan, 1953; Navy Meritorious Civilian Service Award, 1955.

KEAR, Frank G. (A'24—M'31—SM'43—F'53), Consulting Radio Engineer, 1302 18 St., N.W., Washington 6, D.C.
Born: October 18, 1903, Minersville, Schuylkill County, Pa. E.E., 1926, Lehigh University; S.M.(E.E.), 1928, Sc.D.(E.E.), 1933, Massachusetts Institute of Technology. **Committees:** Radio Transmitters and Antennas, 1929–31; Standards, 1934–35.

KEISTER, James E. (A'41—SM'46—F'57), Manager, Engineering, General Electric Company, Electronic Components Division, Semiconductor Products Department, Syracuse, N.Y.

Born: July 11, 1914, Coburg, Iowa. B.S.(E.E.), 1935, Cornell University. **Committees:** Annual Review, 1949–50; Audio-Video Techniques, *vice-chairman, 1948–49;* Standards, 1949–51; Video Techniques, *chairman, 1949–51, 1951–53.* **Awards:** Navy "E," 1944; Navy Certificate of Commendation, 1947.

KELL, Ray D. (A'35—F'47), Associate Director, Systems Research Laboratory, RCA Laboratories Division, Radio Corporation of America, Princeton, N.J.
Born: June 7, 1904, Kell, Ill. B.S.(E.E.), 1926, University of Illinois. **Committees:** Editorial Reviewer, 1954–58; Television, 1941–42, 1946–49; Television Systems, 1949–58. **Awards:** Modern Pioneer Award, National Association of Manufacturers, 1940; Stuart Ballantine Medal, Franklin Institute, 1948; David Sarnoff Gold Meal, SMPTE, 1954.

KELLY, Mervin J. (M'25—F'38), President, Bell Telephone Laboratories, Inc., 463 West St., New York, N.Y.
Born: February 14, 1894, Princeton, Mo. B.S., 1914, Missouri School of Mines and Metallurgy, Rolla; M.S., 1915, University of Kentucky; Ph.D., 1918, University of Chicago; D.Eng., 1936, University of Missouri; D.Sc., 1946, University of Kentucky; LL.D., 1954, University of Pennsylvania; D.Eng., 1955, New York University; D.Eng., 1955, Polytechnic Institute of Brooklyn. D.Sc., 1957, University of Pittsburgh; D.Honoris Causa, 1957, University of Lyons. **Committees:** Vacuum Tubes, 1927–31. **IRE Representative:** ASA Technical Commiteee, Vacuum Tubes, 1930. **Awards:** Air Force Association Trophy, 1953; Presidential Certificate of Merit; Industrial Research Institute Medal, 1954; Christopher Columbus International Communication Prize, 1955. Air Force Exceptional Service Award, 1957.

KENNEDY, Maurice E. (A'41—SM'47—F'56), Director and Chief Engineer, Department of Communications, Los Angeles County, 234 N. Main St., Los Angeles 12, Calif.
Born: September 8, 1907, Galva, Ill. **Committees:** Professional Groups, 1955–58. **Professional Groups:** Administrative Committee, Vehicular Communications, 1954–58. **IRE Representative:** WESCON, *vice-chairman, 1950;* Technical Societies Council, 1947–48.

KETO, John E. (A'38—SM'46—F'48), Technical Director, Wright Air Develpoment Center, Wright-Patterson Air Force Base, Ohio.
Born: June 9, 1909, Maynard, Mass. E.E., 1932, M.S., 1935, University of Cincinnati. **Committees:** Awards, 1956–58; Wave Propagation, 1948–52. **Professional Groups:** Aeronautical and Navigational Electronics, *chairman, 1951.* **Sections:** Dayton, *chairman, 1946–47.* **Awards:** Presidential Medal of Merit, 1946.

KILGORE, G. Ross (A'30—M'40—SM'43—F'57), Manager, Applied Research Department, Westinghouse Electric Corporation, P.O. Box 746, Baltimore 3, Md.
Born: January 31, 1907, Fremont, Neb. B.S.(E.E.) University of Nebraska, 1928, M.S.(E.E.), 1931, University of Pittsburgh. **Committees:** Electron Devices, 1952–54. **Professional Groups:** Administrative Committee, Electron Devices, 1953, 1956–58.

KILLIAN, Thomas J. (A'47—SM'47—F'51), Deputy Chief and Chief Scientist, Office of Naval Research, Washington 25, D.C.
Born: August 4, 1904, Schenectady, N.Y. B.S., M.S., 1926, Massachusetts Institute of Technology; M.A., 1927, Ph.D., 1929, Princeton University. **Committees:** Nuclear Studies, 1947–51. **Awards:** Regional Prize, AIEE, 1936.

KIMBALL, Charles N. (A'34—M'40—SM'43—F'52), President, Midwest Research Institute, Kansas City, Mo.
Born: April 21, 1911, Boston, Mass. B.E.E., 1931, Northeastern University; S.M., 1932, Sc.D., 1934, Harvard University. **Committees:** Awards 1956–58; Mobile Communication Systems, 1950–56; Railroad and Vehicular Communication, 1945–50. **Sections:** Kansas City, *vice-chairman, 1941-43.*

KING, Ronold W. P. (A'30—SM'43—F'53), Gordon McKay Professor of Applied Physics, Cruft Laboratory, Harvard University, Cambridge 38, Mass.
Born: September 19, 1905, Williamstown, Mass. B.A., 1927, M.S., 1929, University of Rochester; Ph.D., 1932, University of Wisconsin. **Committees:** Antennas, 1944–47; Papers Review, 1952–53; Transmitters, 1944–45; Transmitters and Antennas, 1942–44. **IRE Representative:** Harvard University, 1954.

KINMAN, Thomas Hilary (M'29—SM'43—F'57), Consultant, Semiconductor Material Engineering Department, The British Thomson-Houston Company, Ltd., Rugby, Warwickshire, England.
Born: January, 1894, London, England. 1910–20 Signal School, Portsmouth; Portsmouth Technical College, England. **Awards:** Member of the Order of the British Empire, 1944. Institution Premium, Institution of Electrical Engineers, London, 1956.

KLEEN, Werner J. (SM'50—F'57), Dr. Phil. Nat. Habil., Head, Electron Tube Development, Siemens and Halske, St. Martinstrasse, 76, Munich 8, Germany.
Born: October 29, 1907, Hamburg, Germany. Dr.Phil.Nat., 1931, Dr.habil., 1940, University of Heidelberg. **Committees:** Electron Tubes, 1955–58. **Awards:** Medal of Svenska Teknologföreningen, Stockholm, 1950; Honorary Member Instituto Nacional de Electrónica, Madrid, 1952; Gauss-Weber Medal, University of Göttingen, 1955; Honorary Professor, Technische Hochschule, Munich, 1956.

KLOEFFLER, Royce G. (SM'46—F'53), Professor, Electrical Engineering, Kansas State College, Manhattan, Kan.
Born: June 18, 1890, Armada, Mich. B.S.(E.E.), 1913, University of Michigan; S.M., 1930, Massachusetts Institute of Technology.

KNOBLAUGH, Armand F. (A'33—M'44—SM'54—F'58), Professor of Physics, University of Cincinnati.
Born: June 1903 Cincinnati, Ohio, B.S.(Eng.), 1925, M.A. 1927, Ph.D., 1929 University of Cincinnati.

KNOWLES, Hugh S. (A'25—F'41), Consulting Engineer; President and Director of Research, Industrial Research Products, 9400 Belmont Ave., Franklin Park, Ill.; President, Knowles Electronics.
Born: September 23, 1904, Hynes, Iowa. A.B., 1928, Columbia University. **Committees:** Annual Review, 1938–41; Board of Editors, 1945–53; Editorial Reviewer, 1954–55; Electroacoustics, 1936–41, 1946–47, 1953–55, *chairman, 1938–42;* Papers, 1941; Papers Procurement, 1942–43; Regular Papers, 1941; Standards, 1938–42; Symbols, 1940–41, 1943–48. **Sections:** Chicago, *chairman, 1934–35.* **IRE Representative:** ASA Sectional Committee (Z24) on Acoustical Measurement and Terminology, 1954–56.

KNOX, James B. (A'34—SM'46—F'51), Manager, Engineering Department, Technical Products Division, RCA Victor Company, Ltd., 1001 Lenoir St., Montreal 30, P.Q., Canada.
Born: November, 1910, Winnipeg, Man., Canada. **Committees:** Radio Transmitters, 1947–53.

KOCH, Winfield R. (A'28—SM'48—F'54), Engineer, RCA-Victor TV Division, Camden 2, N.J.
Born: December 23, 1903, Omaha, Neb. B.S.(E.E.), 1925, University of Minnesota. **Committees:** Receivers, 1951–58. **Awards:** Modern Pioneer Award, National Association of Manufacturers, 1940.

KOCK, Winston E. (SM'45—F'52), Director & General Manager, Bendix Research Laboratories, Bendix Aviation Corp., P.O. Box 5115, Detroit 35, Mich.
Born: December 5, 1909, Cincinnati, Ohio, E.E., 1932, M.S. (Physics), 1933, University of Cincinnnati; Ph.D., 1934, University of Berlin; D.Sc. (Honorary) 1952, University of Cincinnati. **Committees:** Administrative, 1956, Antennas, 1946–48, *alternate, 1946–47, 1947–48;* Antennas and Waveguides, 1950–51; Editorial Reviewer, 1953–58; Papers Review, 1951–53. **Professional Groups:** Audio, *chairman, 1955;* Administrative Committee, 1955. **Awards:** Outstanding Young Electrical Engineer, Eta Kappa Nu, 1938.

KOEHLER, Glenn (A'27—M'43—SM'43—F'56), Professor of Electrical Engineering, University of Wisconsin, Madison 6, Wis.
Born: November 30, 1894, Van Wert, Ohio. B.S., 1918, University of Illinois; M.S., 1928, University of Wisconsin. **Committees:** Education, 1946, 1951–56. **IRE Representative:** University of Wisconsin, 1941–57.

KOGA, Issac (SM'54—F'57), Professor of Electrical Communications, Electrical Engineering Department, School of Engineering, Tokyo University, Bunkyo-ku, Tokyo, Japan.
Born: December, 1899, Tosu City, Saga Province, Japan. B.E., 1923, Ph.D.(Eng.), 1930, Tokyo University. **Sections:** Tokyo, *vice-chairman, 1957–58;* Papers Committee, *chairman, 1956–57.* **Awards:** Asano Memorial Prize, 1934; Army Technical Prize, 1939; Japan Academy of Science Prize, 1948; Memorial Prize, Institute of Electrical Communication Engineers of Japan, 1950; Medal of Honor, Japanese National Government, 1956.

KOHL, Walter H. (A'35—M'39—SM'43—F'58), Research Associate and Lecturer, Electronics Laboratories, Stanford University, Stanford, Calif.
Born: January 22, 1905, Kitzingen, Bavaria, Germany. Dipl. Ing., 1928, Dr. Ing., 1930, Technische Hochschule, Dresden, Germany.

KOMPFNER, Rudolf (F'50), Director of Electronics and Radio Research, Bell Telephone Laboratories, Inc., Murray Hill, N.J.
Born: May 16, 1909, Vienna, Austria, Engineering Diploma, 1933, Technical College, Vienna; D. Phil., Oxford University. **Committees:** Editorial Reviewer, 1954–58. **Professional Groups:** Administrative Committee, Electron Devices, 1955. **Awards:** Duddell Medal, Physical Society, London, 1955.

KORMAN, Nathaniel I. (S'38—A'39—SM'45—F'56), Chief Systems Engineer, Missile and Surface Radar Department, Radio Corporation of America, Borton Landing Rd., Moorestown, N.J.
Born: February 23, 1916, Providence, R.I. B.S.(E.E.), 1937, Worcester Polytechnic Institute; M.S.(E.E.), 1938, Massachusetts Institute of Technology. **Awards:** Charles A. Coffin Fellowship, 1937; Award of Merit, RCA, 1951.

KRAUS, John D. (A'32—M'43—SM'43—F'54), Professor, Electrical Engineering and Astronomy; Director, Radio Observatory, Ohio State University, Columbus 10, Ohio.
Born: June 28, 1910, Ann Arbor, Mich. B.S., 1930, M.S., 1931, Ph.D., 1933, University of Michigan. **Committees:** Board of Editors, 1940–52. **Sections:** Detroit, *chairman, 1940.*

KUPER, J. B. Horner (A'37—SM'45—F'54), Department Chairman, Brookhaven National Laboratory, Upton, N.Y.
Born: November 5, 1909, New York, N.Y. B.A., 1930, Williams College; Ph.D., 1938, Princeton University. **Committees:** Board of Editors, 1947–53; Editorial Reviewer, 1954–57; Instruments and Measurements, 1949–50; Nuclear Studies, 1948–49. **Professional Groups:** Nuclear Science, Administrative Committee, 1949–54. **Awards:** Fellow, American Physical Society, 1950.

LACK, Frederick R. (A'20—F'37), Vice-President, Western Electric Company, Inc., 120 Broadway, New York 5, N.Y.
Born: July 18, 1895, Eastbourne, England. S.B., 1925, Harvard University. **IRE Offices:** Director, 1940, 1946–47. **Committees:** Appointments, 1948; Awards, 1941, 1948; Board of Editors, 1946; Electronics, 1936–41; Executive, 1947; Fiscal, 1947–48; National Convention, 1947; Nuclear Studies, 1948–49; Office Practices, 1947; Papers, 1942–45; Special Publication Fund, 1947; Tellers, 1940. **IRE Representative:** ASA Board of Directors, 1945–51; RMA-IRE Coordinating Committee, 1948.

LAFFERTY, James (M'46—SM'48—F'54), Manager, Physical Studies Section, General Electric Research Laboratory, The Knolls, Schenectady, N.Y.
Born: April 27, 1916, Battle Creek, Mich. B.S. (Engr. Physics), 1939; M.S. (Physics), 1940; Ph.D.(E.E.), 1946, University of Michigan.

LAMB, James J. (A'28—SM'48—F'54), Executive Staff Consultant, Remington Rand, Division of Sperry Rand Corporation, Wilson Ave., South Norwalk, Conn.
Born: November 30, 1900, Michigan, N.D. B.S.(E.E.), 1922, Catholic University of America. **Committees:** High Frequency Receivers, 1929–30; Nomenclature, Symbols and Definitions, 1929–30; Papers Review, 1948–53; Radio Transmitters and Antennas, 1929–30; Symbols, 1929–30.

LAMSON, Horatio W. (A'15—M'27—F'33)(L), Engineer, General Radio Company, 275 Massachusetts Ave., Cambridge, Mass.; Faculuty Member, Northeastern University, Boston, Mass.
Born: January 2, 1893, Somerville, Mass. S.B., 1915, Massachusetts Institute of Technology; A.M., 1917, Harvard University. **Sections:** Boston, *chairman, 1937–39.*

LANDON, Vernon D. (A'27—M'29—SM'43—F'51), Research Engineer, RCA Laboratories Division, Princeton, N.J.
Born: May, 1901, Denver, Colo. Attended Detroit Junior College, 1920. **Committees:** Frequency Modulation, 1941–47; Information Theory and Modulation System, 1952–56; Modulation Systems, 1947–52; Papers Review, 1947–52.

LANGLEY, Ralph H. (A'12—M'16—F'29)(L), Consulting Engineer, 18 Prescott Ave., Bronxville, N.Y.
Born: January 5, 1889, New York, N.Y. E.E., 1913, Columbia University, Assistant Secretary, 1913. **Committees:** Admissions, 1945; Awards, 1934; Bibliography, 1930–32; New York Program, 1934; Radio Receivers and Parts, 1930–31; Radio Telegraph and Receiver Terminology, *chairman, 1924–25;* Registration of Engineers, 1940–41; Sections, 1930–33, 1935; Standardization, 1924–28; Standards, 1934–35; Wave Length Regulation, 1916–17. **Sections:** Cincinnati, *chairman, 1929–30.*

LAPORT, Edmund A. (A'25—M'27—SM'43—F'53), Director of Communications Engineering, Radio Corporation of America, 30 Rockefeller Plaza, New York 20, N.Y.
Born: July 2, 1902, Nashua, N.H. **Committees:** Annual Review, 1946–47; Policy Development, 1948; Radio Transmitters, 1946–48, *chairman, 1947–48;* Standards, 1946–56. **Sections:** Montreal, *chairman, 1940–43;* NNJ, *vice-chairman, 1955–56.* **IRE Representative:** ASA Electrical Standards Committee, 1948–52; U. S. National Committee of the International Electrotechnical Commission, 1949–51.

LAW, Harold B. (SM'46—F'52), Research Engineer, RCA Laboratories Division, Princeton, N.J.
Born: September 7, 1911, Douds, Iowa. B.S., 1934, Kent State University; M.S., 1936, Ph.D., 1941, Ohio State University. **Committees:** Editorial Reviewer, 1954–58. **Awards:** Television Broadcasters' Association Award, 1946; IRE Vladimir K. Zworykin Television Prize, 1955.

LAW, Russell R. (A'34—M'40—SM'43—F'53), Director, New Product Development, Hughes Products, Los Angeles International Airport, Los Angeles 45, Calif.
Born: January 11, 1907, Hampton, Iowa. B.S., 1929, M.S., 1931, Iowa State College; D.S., 1933, Harvard Engineering School. **Committees:** Editorial Reviewer, 1954–58; National Convention, 1956; Solid State Devices, *vice-chairman, 1956–57.* **Professional Groups:** Electron Devices, *vice-chairman, 1956, chairman, 1957.*

LEARNED, Vincent R. (A'38—M'40—SM'47—F'55), Director of Research and Development, Electronic Tube Division, Sperry Gyroscope Company, Great Neck, L.I., N.Y.
Born: January 21, 1917, San José, Calif. B.S.(E.E.), 1938, University of California; Ph.D., 1943, Stanford University. **Committees:** Editorial Reviewer, 1955–58; National Convention, 1954; Tellers, 1952–53, *chairman, 1953.* **Sections:** Long Island, *chairman, 1953;* Awards Committee, 1955–56; *chairman, 1956–57.*

LEDERER, Ernest A. (M'28—SM'43—F'55), Chief Engineer, Westinghouse Electric Corporation, Elmira, N.Y.
Born: January 25, 1895, Prague, Austria. Ph.D., 1920, University of Vienna. **Awards:** Modern Pioneer Award, N.M.A., 1940.

LEE, Reuben (A'32—SM'45—F'54), Consulting Engineer, Electronics Division, Westinghouse Electric Corporation, P.O. Box 746, Baltimore 3, Md.
Born: November, 1902, Shirland, Derbyshire, England. B.S. (E.E.), 1924, West Virginia University.

LEEDS, Laurance M. (A'30—M'40—SM'43—F'57), Consulting Engineer, General Electric Company, Technical Products Department, Syracuse, N.Y.
Born: October, 1906, Tulsa, Okla. B.S.(E.E.), 1934, Rutgers University. **Committees:** Television, 1940–47.

LEHDE, Pendleton E. (A'14—F'27)(L), President, Pendleton Terminal Corporation, 1050 Constance St., New Orleans, La.; President Electron Equipment Company; President, Sunshine Buildings, Inc.
Born: October 2, 1892, New Orleans, La. B.E., 1914, M.E.E., 1926, Tulane University. **Committees:** Membership, 1927–29. **Sections:** New Orleans, *chairman, 1928–33.*

LEHOVEC, Kurt (SM'52—F'56), Head, Research Section and Semiconductor Laboratory, Sprague Electric Company, Marshall St., North Adams, Mass.
Born: June 12, 1918, Ladowitz, Czechoslovakia, Ph.D., 1940, Prague University. **Awards:** Fellow, American Physical Society, 1954.

LEIFER, Meyer (A'46—M'48—SM'50—F'55), Manager, Microwave Component Laboratories, Sylvania Electric Products, Inc., Mountain View, Calif.
Born: April 18, 1914, New York, N.Y. B.S., 1933, Brooklyn College; M.A., 1935, Columbia University. **Committees:** Papers Review, 1951–53. **Sections:** San Francisco, *treasurer, 1955–56, vice-chairman, 1956–57, chairman, 1957–58.*

LEVERENZ, Humboldt W. (SM'54—F'56), Assistant Director of Research, RCA Laboratories, Princeton, N.J.
Born: July 9, 1909, Chicago, Ill. B.A. (Chemistry), 1930, Stanford University. **Awards:** Frank P. Brown Medal, Franklin Institute, 1954.

LEWIS, George (A'12—M'15—SM'43—F'51)(L), Retired. Formerly Assistant Vice-President, International Telephone and Telegraph Corporation, 67 Broad St., New York, N.Y.
Born: September 15, 1887, Media, Pa. M.E.I., 1911, Bliss School of Applied Science. **IRE Offices:** Manager, 1918–19, 1923, 1926; Director, 1935. **Committees:** Admissions, 1929–30, 1942; Awards, 1935; Electronics, 1936–39; Facsimile, 1939–41; New York Program, 1935–36, *chairman, 1935;* Public Relations, 1947–48; Standardization, 1916–17, 1919–20, 1925–26, 1928–31; Symbols, 1940–41; Television, 1939–42; Vacuum Tubes, 1929–30.

LEWIS, Willard D. (A'44—SM'52—F'54), Director of Switching Research, Bell Telephone Laboratories, Inc., Murray Hill, N.J.
Born: January 6, 1915, Augusta, Ga. A.B. (Physics), 1935, Harvard University; B.A.(Math), 1938, Oxford University; Ph.D. (Theoretical Physics), 1941, Harvard University. **Committees:** Editorial Reviewer, 1955–58. **Awards:** Naval Ordnance Development Award, United States Navy, 1946; Rhodes Scholarship, 1935.

LIBBY, Tyng M. (A'14—M'16—SM'43—F'55), Telecommunications Consultant, 1808 N. 40 St., Seattle 3, Wash.
Born: August 9, 1889, Kingman, Kan. **Sections:** Seattle, *secretary-treasurer, 1917, chairman, 1927.* **Awards:** Bailey Medal, U. S. Navy, 1907.

LIDDEL, Urner (SM'49—F'55), Biophysicist, National Institutes of Health, Bethesda, Md.
Born: September 3, 1905, Butler, Mo. B.A., 1926, Central College; Ph.D., 1941, George Washington University. **Committees:** Awards, 1956–58; Nuclear Studies, 1948–49. **Professional Groups:** Medical Electronics, *vice-chairman, 1957–58.* Nuclear Science, *vice-chairman, 1950–51, secretary, 1953–54.* **IRE Representative:** ASME Glossary Review Board (Nuclear Physics), *alternate, 1952.*

LINDENBLAD, Nils E. (M'34—SM'43—F'48), Research Engineer, RCA Laboratories Division, Princeton, N.J.
Born: October 30, 1895, Norrkoping, Sweden. M.E., 1915, Norrkoping Polytechnic Institute; E.E., 1919, Royal Institute of Technology, Stockholm. **Committees:** Antenna Subcommittee, 1940–41. **Awards:** Modern Pioneer Awards, National Association of Manufacturers, 1940; RCA Laboratories Award for Pioneering in Slot Antennas, 1947; War Department Citation for Patriotic Service in Position of Trust and Responsibility, 1947; RCA Laboratories Award for Development of Thermoelectric Refrigerator, 1955 and for Advances in Electronic Cooling, 1956.

LINDER, Ernest G. (A'40—SM'49—F'55), Administrator, Electronic Research Laboratory, Princeton, N.J.
Born: May 16, 1902, Waltham, Mass. B.A., 1925, M.S., 1927, University of Iowa; Ph.D., 1931, Cornell University.

LINDSAY, William W., Jr. (A'24—M'26—F'39), Research and Development Scientist, Military Operations Research Division, Lockheed Aircraft Corporation, Burbank, Calif.; Consulting Engineer, 230 S. Thurston Ave., Los Angeles 49, Calif.
Born: November 16, 1899, Overbrook, Pa. Privately educated, equivalent "Doktor Ingenieur" degree. **Committees:** Nominations, 1942; Transmitters, 1946. **Sections:** Los Angeles, *secretary-treasurer, 1928–30, chairman, 1940–41.*

LITTLE, Donald G. (A'20—M'27—F'29), Retired. 408 Old Orchard Road, Baltimore 29, Md.
Born: May 17, 1893, Kalamazoo, Mich. B.S.(E.E.), 1917, University of Michigan. **Committees:** Board of Editors, 1944–53; Meetings and Papers, 1928–29; Radio Transmitters and Antennas, 1929–30; Standardization, 1931–32; Standards, 1932–33; Transmitters and Antennas, 1936–39. **Sections:** Baltimore, *chairman, 1951.* **Awards:** Fellow, American Institute of Electrical Engineers.

LITTON, Charles V. (A'25—SM'44—F'47), President, Litton Engineering Laboratories, P.O. Box 949, Grass Valley, Calif.
Born: March 13, 1904, San Francisco, Calif. A.B., 1924, E.E., 1925, Stanford University. **Committees:** Editorial Reviewer, 1954; Papers, 1945; Papers Review, 1946–53. **Sections:** San Francisco, *chairman, 1932–33.*

LLEWELLYN, Frederick B. (A'23—F'38), Assistant to President, Bell Telephone Laboratories, Inc., 463 West St., New York 14, N.Y.
Born: September 16, 1897, New Orleans, La. M.E., 1922, Stevens Institute of Technology; Ph.D., 1928, Columbia University. **IRE Offices:** President, 1946; Director, 1939–48. **Committees:** Administrative Committee of the Board of Editors, 1951–53; Awards, 1942, 1947–48, *chairman, 1947;* Awards Coordination, 1956–58; Board of Editors, 1949–53; Constitution and Laws, 1947, 1950; Electronics, 1939–44; Editorial Administrative, 1946–53; Editorial Reviewer, 1954–58; Executive, 1942–44, 1946, *chairman, 1946;* Finance, 1948–51; Fiscal, 1947–48; IRE-IEE International Liaison, 1947, 1949, 1958; Investment, 1946; Membership, 1941, 1949–50; Membership Solicitation Policy, 1945; Nominations, 1944, 1947–48; Office Quarters, 1947; Papers, 1932–46, *vice-chairman, 1940–42, chairman, 1943–46;* Policy Advisory, 1952–53; Policy Development, 1949–51, *chairman, 1951;* Professional Groups, 1948; Public Relations, 1950; Symbols, 1940–41. **IRE Representative:** ASA Electrical Standards Committee, 1948–55; National Research Council, Division of Engineering and Industrial Research, 1948–56; United States National Committee of the International Electrotechnical Commissions, 1949–54; International Liaison Committee, 1947, 1949, 1955–57. **Awards:** IRE Morris Liebmann Memorial Prize, 1935.

LODGE, William B. (A'34—M'37—SM'43—F'49), Vice-President, Station Relations and Engineering, CBS Television, 485 Madison Ave., New York 22, N.Y.
Born: August 17, 1907, Whitemarsh, Pa. B.S., 1930, M.S., 1931, Massachusetts Institute of Technology. **Committees:** Annual Review, 1946–49; Antennas, 1944–45; Awards, 1946; Transmitters, 1944–45; Transmitters and Antennas, 1940–41; Winter Technical Meeting, 1946.

LOOMIS, Alfred L. (M'28—SM'43—F'44), President, Loomis Institute for Scientific Research, 14 Wall St., New York, N.Y.
Born: November 4, 1887, New York, N.Y. A.B., 1909, Yale University; LL.B., 1912, Harvard University; D.Sc., 1932, Wesleyan University; M.Sc., 1933, Yale University; LL.D., 1941, University of California. **Awards:** John Price Wetherill Medal, The Franklin Institute, 1934; Member, National Academy of Science.

LOUGHLIN, Bernard D. (A'40—M'45—SM'53—F'55), Electronic Research Consultant, Little Neck Road, Huntington, L.I., N.Y.
Born: May 19, 1917, New York, N.Y. B.E.E., 1939, E.E., 1945, Cooper Union Institute of Technology; M.S.(E.E.), 1946, Stevens Institute of Technology. **Committees:** Modulation Systems, 1947–49; Papers Review, 1948–50; Radio Receivers, 1948–51. **Awards:** IRE Vladimir K. Zworykin Television Prize, 1952; SMPTE David Sarnoff Gold Medal Award, 1955.

LOUGHREN, Arthur V. (A'24—M'29—SM'43—F'44), Vice-President, Applied Research Division, Airborne Instruments Laboratory, 160 Old Country Rd., Mineola, L.I., N.Y.
Born: September 15, 1902. Rensselaer, N.Y. B.A., 1923, E.E., 1925, Columbia University. **IRE Offices:** Director, 1952–58; President, 1956. **Committees:** Admissions, 1931–33; Appointments, 1956, *chairman, 1957;* Awards, 1949–55; Awards Coordination, 1955–57, *chairman, 1957;* Editorial Board, 1957; Editorial Reviewer, 1954; Executive, 1955–57, *chairman, 1956;* Finance, 1953, 1955–57; Membership, 1934; Nominations, 1957, *chairman, 1958;* Papers Procurement, 1947–50; Policy Advisory, 1953–54, *chairman, 1954, 1958;* Radio Receivers, 1927–28; Standards, 1947–48; Television, 1940–46; Vacuum Tubes, 1927–28. **IRE Representative:** Joint Technical Advisory Committee, 1951–55, *chairman, 1953–54.* **Awards:** Fellow, Society of Motion Picture and Television Engineers; Fellow American Institute of Electrical Engineers; IRE Morris Liebmann Memorial Prize, 1955; SMPTE David Sarnoff Gold Medal Award, 1953; U. S. Navy Certificate of Commendation, 1947.

LUBCKE, Harry R. (A'26—M'32—SM'43—F'51), Consulting Engineer and Registered Patent Agent, 2443 Creston Way, Hollywood 28, Calif.
Born: August 25, 1905, Alameda, Calif. B.S., 1929, University of California. **Committees:** Building Fund, 1945; Papers Review, 1946–47. **Awards:** Academy of Television Arts and Sciences Award, 1951; "Best Branch Paper" Award, Institute of Electrical Engineers, 1930; Certificate of Commendation, U. S. Navy, World War II; Certificate, War Department (U. S. Army), World War II.

LUCK, David G. C. (M'46—SM'50—F'51), Aviation Staff Engineer, Radio Corporation of America, Camden, N.J.
Born: July, 1906, Whittier, Calif. B.S., 1927, Ph.D., 1932, Massachusetts Institute of Technology.

LYONS, Harold (SM'50—F'58), Head, Atomic Physics Department, Research Laboratories, Hughes Aircraft Company, Culver City, Calif.
Born: February 16, 1913, Buffalo, N.Y. B.A.(Physics), 1933, University of Buffalo; M.A.(Physics), 1935, Ph.D.(Physics), 1939, University of Michigan. **Committees:** Joint AIEE-IRE Committee on High Frequency Measurements, *vice-chairman, 1950.* **Awards:** Washington Academy of Sciences Award, 1952; U. S. Department of Commerce Gold Medal, 1949; Arthur S. Fleming Government Award, 1949; National Bureau of Standards Superior Accomplishment Award, 1949; First Prize, AIEE Prize Paper Competition, Washington, D.C., 1949; O.S.R.D.-N.D.R.C. Certificate of Effective Service, 1945; University of Buffalo Citation, 1957.

MacDONALD, William A. (A'19—M'26—SM'43—F'53), Chairman and Director, Hazeltine Corporation, Little Neck, L.I., N.Y.
Born: December, 1895, New York, N.Y. Attended University of Paris, 1918–19. **Committees:** Radio Receivers and Parts, 1930–31; Standardization, 1930–31. **Awards:** Certificate of Merit, U. S. Government, 1947; Corporate Member, Institution of Engineers, Australia.

MacKINNON, Keith Abbott (SM'46—F'49), Consulting Engineer, P.O. Box 542, Ottawa, Ont., Canada.
Born: September, 1905, Kingston, Ont., Canada. B.Sc.(E.E.), 1926, B.Sc.(Physics), 1928, M.Sc.(Physics), 1929, Queens University. **Committees:** Antennas, 1946–49. **Sections:** Ottawa, *chairman, 1947.*

MALOFF, Ioury G. (M'27—F'36), Development Engineer, Radio Corporation of America, Cherry Hill, Camden 8, N.J.
Born: June 3, 1899, Vladivostok, Russia. **Committees:** Bibliography, 1928; Papers Procurement, 1947–50; Receiving Sets, 1928; Standardization, 1928; Tellers, 1940.

MALTER, Louis (A'37—SM'45—F'52), Chief Engineer, Semiconductor Division, Radio Corporation of America, Somerville, N.J.
Born: April 28, 1907, New York, N.Y. B.S., 1926, College of the City of New York; M.A., 1931, Ph.D., 1936, Cornell University. **Committees:** Electron Tubes, 1947–48; Electron Tubes and Solid State Devices, 1949–50; Papers Review, 1947–49. **IRE Representative:** Semiconductor Devices Research Conference, 1956–57, *chairman, 1957;* Semiconductor Devices, 1957. **Awards:** Fellow, American Physical Society.

MANSON, Ray H. (M'23—F'50)(L), Retired. 373 Beresford Rd., Rochester 10, N.Y.
Born: August 25, 1877, Bath, Me. B.S.(E.E.), 1898, E.E., 1901, D.Eng., 1933, University of Maine. **IRE Offices:** President, 1931; Manager, 1927–30; Director, 1931–33. **Committees:** Awards, 1932, 1940; Bibliography, 1930; Electro-Acoustic Devices, 1930; Nominations, 1929–30, 1932, 1934, 1940, *chairman, 1932;* Public Relations, 1940, 1947–48; Regular Papers, 1941; Standardization, 1926–31; Television and Facsimile, 1936–39; Tellers, 1932–33. **IRE Representative:** ASA Electrical Standards Committee, 1936–39.

MARCUVITZ, Nathan (S'36—A'37—VA'39—M'55—SM'57—F'58), Professor, Polytechnic Institute of Brooklyn, Microwave Research Institute, 55 Johnson St., Brooklyn 1, N.Y.
Born: December 29, 1913, Brooklyn, N.Y. D.E.E., 1947, Polytechnic Institute of Brooklyn. **Committee:** Editorial Reviewer, 1954–58.

MARKS, William S., Jr. (A'44—SM'44—F'52), Chief Scientist, Army Electronic Proving Ground, Ft. Huachuca, Ariz.
Born: March 18, 1900, Nashville, Tenn. B.S.(E.E.), 1929, Louisiana State University.

MARRISON, Warren A. (M'28—SM'43—F'58), Member of Technical Staff, The Ramo-Wooldridge Corporation, 5500 W. El Segundo Blvd., Los Angeles 45, Calif.
Born: May, 1896, Inverary, Ont., Canada. B.Sc., 1920, Queen's University; M.A., 1921, Harvard University: D.Sc.(Honorary), 1953, Queen's University. **Awards:** Gold Medal of the British Horological Institute, 1947; The Tompion Gold Medal, The Worshipful Company of Clockmakers of The City of London, 1955.

MARSHALL, Charles J. (J'31—A'33—SM'45—F'55), Staff Electronic Engineer, Aerial Reconnaissance Laboratory, Wright Air Development Center, Wright-Patterson Air Force Base, Ohio.
Born: March 27, 1912, San Antonio, Tex. B.S.(E.E.), 1939, E.E., 1946, University of Cincinnati. **IRE Offices:** Director, 1954–55. **Committees:** Nominations, 1955; Professional Groups, 1957. **Sections:** Dayton, *secretary, 1948–50, vice-chairman, 1949–50, chairman, 1950–51;* National Conference on Aeronautical Electronics, *secretary, 1948–50, president, 1950–51, director, 1955–57.*

MARSTEN, Jesse (J'17—A'18—M'25—SM'43—F'57), Senior Vice-President, International Resistance Company, 401 N. Broad St., Philadelphia, Pa.
Born: January 1, 1897, Budapest, Hungary. B.S., 1917, College of the City of New York. **Committees:** Papers Procurement, 1945–46.

MARTIN, Daniel W. (M'50—SM'54—F'57), Assistant Chief Engineer, The Baldwin Piano Company, 1801 Gilbert Ave., Cincinnati, Ohio.
Born: November, 1918, Georgetown, Ky. A.B., 1937, Georgetown College; M.S., 1939, Ph.D., 1941, University of Illinois. **Committees:** Editor, IRE *Transactions on Audio,* 1953–55. **Sections:** Cincinnati, *secretary, 1952–53, vice-chairman, 1954–55, chairman, 1955–56.* **Professional Groups:** Audio, Administrative Committee, 1954–57, *chairman, 1956–57;* Awards Committee, *chairman, 1955.* **Awards:** Fellowship, Acoustical Society of America.

MARVIN, Harry B. (M'31—SM'43—F'50), Retired. 485 Buckingham Ave., Syracuse 10, N.Y.
Born: August, 1894, Charleston, Pa. B.S.(E.E.), 1915, M.S.(E.E.), 1925, Union College. **Committees:** Admissions, 1940; Awards, 1940; Frequency Modulation, 1940–46; Papers, 1940; Papers Procurement, 1946–50.

MASON, Warren P. (A'36—VA'39—F'41), Research Engineer, Bell Telephone Laboratories, Inc., Murray Hill, N.J.
Born: September 28, 1900, Colorado Springs, Colo. B.S.(E.E.), 1921, University of Kansas; M.A., 1924, Ph.D., 1928, Columbia University. **Committees:** Editorial Reviewer, 1954–58; Papers Procurement, 1947–50; Papers Review, 1947–53; Piezoelectric Crystals, 1940–58, *vice-chairman, 1951–52, chairman, 1953–55;* Standards, 1953–55.

MATHES, Richard E. (J'22—A'24—SM'46—F'57), Manager, Equipment Department, Ballistic Missile Division, Burroughs Research Center, Paoli, Pa.
Born: April, 1902, Minneapolis, Minn. B.S.(E.E.), 1924, University of Minnesota.

MATHIEU, Gaston L. (F'58), Personal Assistant to S. E. Senatore Marconi, Marconi's Wireless Telegraph Co., Ltd. Electra House, Victoria Embankment, London WC 2, England.
Born: July 1, 1889, Namur, Belgium.

MAUCHLY, John W. (A'42—M'56—F'57), Director, Applications Research Center, Remington Rand Univac, 2300 W. Alleghany Ave., Philadelphia 29, Pa.
Born: August 30, 1907, Cincinnati, Ohio. Ph.D.(Physics), 1932, Johns Hopkins University. **Awards:** Potts Medal, Franklin Institute, 1949.

MAYER, Harry F. (A'36—SM'47—F'56), Manager, Advanced Electronics Center, General Electric Company, Tompkins County Airport, Ithaca, N.Y.
Born: January 19, 1912, Indianapolis, Ind. B.S.(E.E.), 1932, M.S.(E.E.), 1933, Purdue University. **Committees:** Papers Review, 1946–51. **Sections:** Rome-Utica, *vice-chairman, 1954–55, chairman, 1955–56.* **Awards:** Certificate of Commendation, U. S. Navy, 1947.

McARTHUR, Elmer D. (M'42—SM'43—F'45), Manager, High-Frequency Electronics Section, General Electric Research Laboratory, P.O. Box 1088, Schenectady, N.Y.
Born: May 3, 1903, Salamanca, N.Y. B.S.(E.E.), 1925, M.S. (Physics), 1948, Union College. **Committees:** Board of Editors, 1945–53; Editorial Reviewer, 1954–58; Fellow, 1958.

McCULLOUGH, Jack A. (A'39—SM'52—F'53), Vice-President and Treasurer, Eitel-McCullough, Inc., 798 San Mateo Ave., San Bruno, Calif.
Born: November 25, 1907, San Francisco, Calif. **Awards:** Civilian Distinguished Service Medal, U. S. Navy, 1950.

McCUTCHEN, Brunson S. (A'21—M'26—F'32)(L), 89 Olden Lane, Princeton, N.J.; Chairman of Board, Applied Science Corporation of Princeton; Owner and President, Communication Measurements Laboratory, Inc.
Born: November 20, 1892, North Plainfield, N.J. Lit.B., 1915, E.E., 1917, Princeton University.

McELRATH, George (M'29—SM'43—F'56), Manager, Broadcast Central, National Broadcasting Company, 30 Rockefeller Plaza, New York 20, N.Y.
Born: January 23, 1899, Marlboro, N.Y. **Committees:** National Convention, 1947–48.

McELROY, Paul K. (A'25—M'27—F'31), Design Engineer, General Radio Company, 275 Massachusetts Ave., Cambridge 39, Mass.
Born: August 7, 1899, Toledo, Ohio. A.B., 1920, A.M., 1921, Harvard University. **Committees:** Membership, 1940. **Sections:** Boston, *secretary, 1939–41.* **Professional Groups:** Reliability and Quality Control, Administrative Committee, 1951–58, *vice-chairman, 1955–58,* Editor of *Transactions, 1957–58,* Component Parts, Administrative Committee, 1957. **IRE Representative:** ASA Sectional Committee (C83) on Components for Electronic Equipment, 1954–58.

McFARLANE, Maynard D. (A'26—M'42—SM'43—F'56), Research Scientist, Robertshaw-Fulton Controls Company, Santa Ana Freeway & Euclid Ave., Anaheim, Calif.
Born: August 12, 1895, London, England. **Awards:** Fellow, American Institute of Electrical Engineers; Fellow, American Association for the Advancement of Science; Certificate of Appreciation, U. S. Armed Forces.

McILWAIN, Knox (A'31—M'40—SM'43—F'48), Manager, Special Products Division, Burroughs Research Center, Paoli, Pa.
Born: September 4, 1897, Philadelphia, Pa. B.S., 1918, Princeton University; B.S.(E.E.), 1921, E.E., 1930, University of Pennsylvania. **Committees:** Administrative Committee of the Board of Editors, 1951–53; Admissions, 1944–45; Board of Editors, 1946–53; Circuits, 1944–45; Editorial Administrative, 1949–53; Editorial Reviewer, 1954–58; Education, 1945; Electroacoustics, 1936–46; Electronics, 1936–39; Handbooks, 1945–48; Papers, 1942–45; Standards, 1945–46. **Sections:** Philadelphia, *chairman, 1935–36.* **IRE Representative:** National Television Systems Committee, Panel 8, 1940–43.

McKINLEY, Donald W. R. (A'39—SM'46—F'48), Assistant Director, Radio and Electrical Engineering Division, National Research Council, Ottawa, Ont., Canada.
Born: September 22, 1912, Shanghai, China. B.A., 1934, M.A., 1935, Ph.D., 1938, University of Toronto. **Sections:** Ottawa—Ontario, *chairman, 1946–47;* **IRE Representative:** Canadian National Committee for U.R.S.I., *chairman, 1951–58.* **Awards:** Fellow, American Physical Society; Fellow, Royal Society of Canada; Order of the British Empire.

McNALLY, James O. (J'24—A'26—SM'44—F'57), Assistant Director of Development, Electron Devices, Bell Telephone Laboratories, Inc., Mountain Ave., Murray Hill, N.J.
Born: July 1, 1903, Fredericton, N.B., Canada. B.S.(E.E.), 1924, University of New Brunswick.

McRAE, James W. (A'37—F'47), Vice-President, Western Electric Company and President, Sandia Corporation, Sandia Base, Albuquerque, N.M.
Born: October 25, 1910, Vancouver, B.C., Canada. B.S.(E.E.), 1933, University of British Columbia; M.S., 1934, Ph.D., 1937, California Institute of Technology. **IRE Offices:** Director, 1950–56; President, 1953. **Committees:** Appointments, 1950, *chairman, 1955;* Awards, 1948–50; Board of Editors, 1946–52; Editorial Board, 1954; Executive, 1950–54, *chairman, 1953;* Finance, 1952 (ex officio, 1953), 1954; Nominations, 1954–57, *chairman, 1955;* Policy Development, 1948; Tellers, *chairman, 1948.* **Sections:** New York, *chairman, 1948–50.* **Awards:** Eta Kappa Nu, Honorable Mention, 1943; Legion of Merit, War Department, 1945.

MEACHAM, Larned A. (A'38—SM'45—F'48), Station Development Engineer, Bell Telephone Laboratories, Inc., 463 West St., New York 14, N.Y.
Born: September, 1908, Denver, Colo. B.S.(E.E.), 1929, University of Washington; Certificate of Research, 1930, Cambridge University. **Committees:** Board of Editors, 1946–52; Information Theory and Modulation Systems, 1952–58; Modulation Systems, 1949–52. **Awards:** Eta Kappa Nu, Outstanding Young Electrical Engineer, 1939.

MERTZ, Pierre (SM'44—F'50), Engineer, Bell Telephone Laboratories, Inc., 463 West St., New York 14, N.Y.
Born: April, 1897, Paris, France. A.B., 1918, Ph.D., 1926, Cornell University. **Committees:** Editorial Reviewer, 1954–58; Facsimile, 1939–56, *vice-chairman, 1957–58;* Papers Procurement, 1945–50; Television Picture Element, 1954–58. **Awards:** Army-Navy Certificate of Appreciation, Department of Defense, 1948; Army Certificate of Appreciation, Technical Industrial Intelligence Committee, Joint Chiefs-of-Staff, 1951; Fellow, Society of Motion Picture and Television Engineers.

METCALF, George F. (A'34—M'38—F'42), General Manager, Missile and Ordnance Systems Department, Defense Electronics Division, General Electric Company, 3198 Chestnut St., Philadelphia 4, Pa.
Born: December 7, 1906, Milwaukee, Wis. B.S.(E.E.), 1928, Ph.D.(Eng.), 1956, Purdue University. **IRE Offices:** Associate Editor, 1926–28. **Committees:** Board of Editors, 1946–53; Editorial Administrative, 1949–50; Electronics, 1936–42; Papers Review, *chairman, 1949–53;* Professional Groups, 1953; Tellers, 1948–49, *chairman, 1949.*

MIEHER, Walter W. (A'40—M'44—SM'51—F'54), Chief Engineer, Air Armament Division, Sperry Gyroscope Company, Great Neck, L.I., N.Y.
Born: October 30, 1916, St. Louis, Mo. B.S., 1938, Washington University. **Committees:** Antennas, 1947–49, *alternate, 1947;* Antennas and Wave Guides, 1947–50. Awards, 1957–58. **Sections:** Long Island, *vice-chairman, 1952–53.*

MIESSNER, Benjamin F. (A'37—F'37), President, Miessner Inventions, Inc., Van Buren Rd., Morristown, N.J.
Born: July 27, 1890, Huntingburg, Ind. Attended United States Naval Electrical School, 1908–09; Attended Purdue University, 1913–16.

MILLAR, Julian Z. (A'30—SM'45—F'56), Assistant Vice-President, Development and Research, Western Union Telegraph Company, 60 Hudson St., New York 13, N.Y.
Born: July 3, 1901, Mattoon, Ill. B.S.(E.E.), 1924, University of Illinois. **Committees:** Annual Review, *chairman, 1953–54;* IRE Convention Technical Program, *chairman, 1955;* Standards, 1953–54; Tellers, 1951–52, *chairman, 1952.* **Professional Groups:** Communications Systems, *chairman, 1954–55.*

MILLER, Burton F. (J'24—A'26—SM'44—F'56), Vice-President and Director, Communications Division, The Ramo-Wooldridge Corporation, 5500 W. El Segundo Blvd., Los Angeles 45, Calif.
Born: July, 1905, Milwaukee, Wis. B.S.(E.E.), 1926, M.S.(Physics), 1927, Ph.D.(Physics), 1929, University of Wisconsin. **Awards:** Two Technical Achievement Awards, Academy of Motion Picture Arts and Sciences, 1947.

MILLER, John H. (A'19—M'25—SM'43—F'50), Vice-President and Consultant, Weston Electrical Instrument Corporation, 614 Frelinghuysen Ave., Newark 5, N.J.
Born: June 6, 1893, Oak Park, Ill. B.S.(E.E.), 1915, University of Illinois. **Committees:** Institute Sections, 1928; Sections, 1933–34, 1938–39, 1941–44, *chairman, 1940.* **Sections:** Chicago, *chairman, 1927–29, secretary, 1929–30.* **IRE Representative:** ASA Subcommittee (C42.6) on Electrical Instruments, 1948–51.

MILLER, John M. (A'17—F'20)(L), Retired. c/o Robt. W. Miller, 6535 Abbington Dr., Washington 21, D.C.
Born: June, 1882, Hanover, Pa. B.A., 1904, M.A., 1907, Ph.D., 1915, Yale University. **Awards:** Distinguished Civilian Service Award, United States Navy, 1945; IRE Medal of Honor, 1953; Medal of Honor, Institute of Electrical Engineers, 1953.

MILLER, Stewart E. (M'46—SM'53—F'58), Assistant Director of Guided Wave Research, Bell Telephone Laboratories, Inc., P.O. Box 107, Red Bank, N.J.
Born: September 1, 1918, Milwaukee, Wis. B.S., 1941, M.Sc., 1941, Massachusetts Institute of Technology. **Committees:** Editorial Reviewer, 1954-58. **Awards:** U. S. Naval Ordnance Development Award, 1945.

MILLMAN, Jacob (A'41—SM'49—F'58), Professor of Electrical Engineering, Columbia University, 116 St., and Broadway, New York 27, N.Y.
Born: May 17, 1911, Russia. B.S., 1932, Ph.D., 1935, Massachusetts Institute of Technology. **Awards:** Fellow, American Physical Society, 1946.

MIMNO, Harry R. (A'31—VA'39—M'55—F'58), Gordon McKay Professor of Applied Physics, Harvard University, Cambridge, Mass.
Born: May 8, 1900, Chicago, Ill. E.E., Rensselaer Polytech, 1921; A.M., 1926, Ph.D., 1932, Harvard University. **Awards:** Fellow, American Physical Society; Fellow, American Academy.

MINTON, John P. (F'39), Retired. 245 Waverly St., Menlo Park, Calif., Research Adviser, Magnolia Petroleum Company, Field, Research Department, Dallas, Tex.; Research Associate, 1952–55. Department of Physics, University of California, Berkeley, Calif.
Born: November 7, 1889, Wapella, Ill. Engineering, 1910, Bradley University; B.S., 1912, Massachusetts Institute of Technology; Ph.D., 1921, University of Chicago; D.Sc. (Honorary) Bradley University, 1955. **Committees:** Electroacoustic Devices, 1927–28; Membership, 1941–43. **Awards:** Fellow in Physics, National Research Council, University of Chicago, 1921–22; Fellow, American Physical Society; Distinguished Alumni Award, Bradley University, 1953.

MITTELMANN, Eugene (A'38—SM'44—F'57), Consulting Engineer, 549 W. Washington, Chicago 6, Ill.
Born: May 29, 1903, Pressburg, Hungary. E.E., 1927, Vienna Institute of Technology; Ph.D., 1931, University of Vienna. **Committees:** Industrial Electronics, 1946–51, *vice-chairman, 1951–58;* Instrumentation and Control, *chairman, 1955–58;* Methods of Measurements, *chairman, 1951–57.* **Professional Groups:** Industrial Electronics, *chairman, 1950–54;* Administrative Committee, 1950–58. **Awards:** Special Award, American Congress of Physical Therapy, 1940.

MOE, Robert E. (S'33—A'35—SM'46—F'55), Manager of Engineering, Receiving Tubes Department, Electronic Components Division, General Electric Company, Owensboro, Ky.
Born: April 2, 1912, Appleton, Wis. B.S.(E.E.), 1933, University of Wisconsin. **Committees:** Papers Review, 1946–49. **Sections:** Connecticut Valley, *secretary, 1943, chairman, 1944;* Syracuse, *secretary, 1947;* Evansville, Owensboro, *chairman, 1950.* **Awards:** U. S. Navy Certificate of Commendation, 1947.

MOLLER, Rolf (SM'54—F'56), c/o Fernseh GMBH, Darmstadt, Germany.
Born: July 25, 1906, Altona, Germany, Dr. rer. nat., 1930, Hamburg University. **Awards:** President, Fernseh-Technische Gesellschaft, 1953.

MONTGOMERY, Alexander W. (M'31—SM'43—F'54), Director and Joint General Manager, Standard Telephones and Cables, Ltd., Connaught House, 63 Aldwych, London, W.C.2, England.
Born: December 14, 1896, Manchester, Lancashire, England. B.Sc., Tech., 1921, Manchester College of Technology. **Awards:** Order of the British Empire, 1945.

MOORE, John R. (SM'52—F'58), Vice-President and General Manager, Autonetics, a Division of North American Aviation, Inc., 9150 E. Imperial Highway, Downey, Calif.
Born: July 5, 1916, St. Louis, Mo. B.Sc.(M.E.), 1937, Washington University.

MOORE, Robert C. (F'55), Section Engineer, TV Division, Philco Corporation, Tioga & C Sts., Philadelphia 34, Pa.
Born: January 3, 1912, Pontiac, Ill. B.S.(E.E.), 1933, University of North Dakota; M.S.(E.E.), 1934, Massachusetts Institute of Technology; B.A., 1936, Oxford University.

MORGAN, Howard K. (A'27—M'41—SM'43—F'57), Director of Commercial Aviation Systems, Bendix Aviation Corporation, Fisher Building, Detroit 2, Mich.
Born: February, 1906, New York, N.Y. B.S.(E.E.), 1929, University of California. **Committees:** Navigation Aids, 1947, 1950–51; Papers, 1941; Papers Procurement, 1942–43; Regular Papers, 1941. **Sections:** Kansas City, *chairman, 1941–43.* **Awards:** Radio Technical Commission for Aeronautics Citation.

MORLOCK, William J. (A'43—SM'46—F'57), General Manager, Technical Products Department, Industrial Electronics Division, General Electric Company, Syracuse, N.Y.
Born: July, 1908, McKeesport, Pa. B.E.E., 1930, Ohio State University. **Committees:** Professional Groups, 1957. **IRE Representative:** ASA Subcommittee (Z57.1) on Magnetic Recording, 1948–51.

MORRIS, Robert M. (A'26—M'42—SM'43—F'57), Radio Facilities Engineer, American Broadcasting Company, 7 W. 66 St., New York 23, N.Y.
Born: January 18, 1902, Washington, D.C. **Committees:** Frequency Modulation, 1941–42; Meetings and Papers, 1930; Membership, 1936; Papers Review, 1947–48; Standardization, 1929–30; Standards, 1938–41; Video Techniques, 1951–57. **Awards:** Exceptional Merit Medal, War Department, 1945.

MORRISON, John F. (A'29—M'36—SM'43—F'51), Technical Staff, Bell Telephone Laboratories, Inc., Morristown Rd., Whippany, N.J.
Born: March 14, 1906, Buffalo, N.Y. **Committees:** Annual Review, 1945–46; Antennas, 1944–45; Awards, 1951–54; Radio Transmitters, 1945–47, *chairman, 1945–6;* Standards, 1945–46; Transmitters, 1944–45; Transmitters and Antennas, 1938–44. **Professional Groups:** Aeronautical and Navigational Electronics, *vice-chairman, 1955.* **Sections:** Northern New Jersey Subsection, *chairman, 1951.*

MORTON, George A. (A'39—SM'46—F'51), Associate Director, Physical-Chemical Laboratory, RCA Laboratories, Radio Corporation of America, Princeton, N.J.
Born: March 24, 1903, New Hartford, N.Y. B.S., 1926, M.S., 1928, Ph.D., 1932, Massachusetts Institute of Technology. **Committees:** Measurements and Instrumentation, 1951–58; Nuclear Studies, 1948–49; Nuclear Techniques, *chairman, 1955–58;* Standards, 1955–58. **IRE Representative:** ASA Planning Committee on Nuclear Standards, 1955–58. **Awards:** Certificates of Commendation, Bureau of Ships, National Defense Research Council, United States Air Force; Overseas Premium Award, Institute of Electrical Engineers, 1937–38.

MORTON, Jack A. (A'36—SM'49—F'53), Director of Device Development, Bell Telephone Laboratories, Inc., Murray Hill, N.J.
Born: September 4, 1913, St. Louis, Mo. B.S., 1935, Wayne University; M.S., 1936, University of Michigan; D.Sc.(Honorary), 1954, Ohio State University; D.Sc.(Honorary), 1956, Wayne University. **Committees:** Electron Tubes, 1946–49; Electron Tubes and Solid State Devices, 1949–53; Electronics, 1943–46; Membership, 1943–44; Papers Review, 1953; Vacuum Tubes, 1945–46. **Awards:** Honorable Mention, Eta Kappa Nu, 1945; Alumni Award, Wayne University, 1951; University of Michigan Centennial Award, 1953.

MORTON, Paul L. (A'43—SM'45—F'55), Professor, Electrical Engineering Division, University of California, Berkeley 4, Calif.
Born: May 14, 1906, Silao, Guadalajara, Mexico. B.S.(E.E.), 1931, University of Washington; M.S.(E.E.), 1938, Massachusetts Institute of Technology; Ph.D., 1943, University of California.

MOSELEY, Francis L. (A'33—SM'47—F'57), President, F. L. Moseley Company, 409 N. Fair Oaks, Pasadena, Calif.
Born: August 2, 1908, St. Paul, Minn. **Committees:** Navigation Aids, 1948–49; Papers Review, 1946–48, 1950–52. **IRE Representative:** ANTC, 1948. **Sections:** Dayton, *vice-chairman, 1943;* Pasadena Subsection, *vice-chairman, 1955.* **Awards:** Flight Safety Foundation Award, 1955.

MOUNTJOY, Garrard (A'37—M'40—SM'43—F'50), Assistant to the Executive Vice-Presidenet, A.R. & T. Electronics, Inc., 5 St. & Cornish, North Little Rock, Ark.
Born: October 21, 1905, Boscobel, Wis. B.S., 1929, Washington University. **Committees:** Awards, 1956; Papers Review, 1953; Receivers, 1942–58; Television, 1945–48. **Sections:** Rochester, *secretary, 1948–49, vice-chairman, 1950–51, chairman, 1952–53.* **IRE Representative:** ASA War Standards Committee on Methods of Measuring Radio Noise, 1945–48. **Awards:** Modern Pioneer Award, National Association of Manufacturers.

MUMFORD, William W. (A'30—SM'46—F'52), Technical Staff Member, Bell Telephone Laboratories, Inc., Whippany, N.J.
Born: June 17, 1905, Vancouver, Wash. B.A., 1930, Willamette University. **Committees:** National Convention Program, 1950–57; Professional Groups, 1956. **Professional Groups:** Microwave Theory and Technique, Administrative Committee, *secretary, 1952, vice-chairman, 1953, chairman, 1954.* **Awards:** Burghart Prize, 1926, Willamette University.

MURRAY, Albert F. (A'20—M'26—F'38), Consulting Electronic and Television Engineer, 4900 Hillbrook Lane, N.W., Washington 16, D.C.
Born: June 22, 1894, Decatur, Ala. B.A., 1915, Maryville College; B.S., 1918, Harvard University; S.B., 1918, Massachusetts Institute of Technoolgy; D.Sc., 1939, Maryville College. **IRE Offices:** Director, 1936–39. **Committees:** Awards, 1936; Electronics, 1937–41; Institute Sections, 1929–30, 1936; Membership, 1929–39; Papers, 1934–45; Papers Procurement, 1947–50; Papers Review, 1946–53; Television, 1939–46; Television and Facsimile, 1936–39; Television Systems, 1949–58. **Sections:** Philadelphia, *chairman, 1937–38.*

NERGAARD, Leon S. (A'29—M'38—SM'43—F'52), Research Engineer, RCA Laboratories Division, Princeton 5, N.J.
Born: September 2, 1905, Battle Lake, Minn. B.S.(E.E.), 1927, University of Minnesota; M.S.(E.E.), 1930, Union College; Ph.D. (Physics), 1935, University of Minnesota. **Committees:** Annual Review, 1948–50; Electron Devices, 1952–55; Electron Tubes, 1946–48, *vice-chairman, 1948;* Electron Tubes and Solid State Devices, *chairman, 1949–51;* Electronics, 1940–45; Measurement and Instrumentation, 1952; Standards, 1949–51; Vacuum Tubes, 1945–46. **Professional Groups:** Electron Devices, 1953–55, *vice-chairman, 1953, chairman, 1953–54.* **IRE Representative:** ASA Sectional Committee (C60) on Standardization of Electron Tubes, 1949–56; ASA Subcommittee (C42.14) on Electron Tubes, 1952–53.

NEWHOUSE, Russell C. (A'30—M'39—SM'43—F'56), Director of Military Systems Development, Bell Telephone Laboratories, Inc., Whippany Rd., Whippany, N.J.
Born: December 17, 1906, Clyde, Ohio. B.E.E., 1929, M.Sc.(E.E.), 1930, Ohio State University. **Professional Groups:** Aeronautical and Navigational Electronics, *secretary-treasurer, 1956, vice-president, 1957.* **Awards:** Guggenheim Fellowship, Ohio State University, 1929; Lawrence Sperry Award, Institute of the Aeronautical Sciences, 1938.

NICHOLS, William A. (A'29—M'42—SM'43—F'55), Assistant Chief Engineer, Canadian Broadcasting Corporation, 5253 Decarie Blvd., Montreal, P.Q., Canada.
Born: November 14, 1903, Toronto, Ont., Canada. B.A.Sc., 1928, University of Toronto. **Committees:** Membership, 1940. **Sections:** Montreal, *secretary, 1939–42.*

NIWA, Yasujiro (A'53—F'54), President, Tokyo Electrical Engineering College, 2, 2-chome, Kanda-Nishikicho, Chiyoda-Ku, Tokyo, Japan.
Born: April 1, 1893, Matsusaka, Miye Prefecture, Japan. Doctor of Engineering, 1926, Tokyo University. **IRE Offices:** Vice-

President, 1957; Director, 1957. **Sections:** Tokyo, *vice-chairman, 1955–56, chairman, 1957–*. **Awards:** President, the Institute of Communication Engineers of Japan, 1942–43; President, Japan Radio Society, 1943–44; President the Institute of Electrical Engineers of Japan, 1950–51; President, Television Society of Japan, 1954–56; President, Acoustical Society of Japan, 1957; Asano Prize from the Institute of Electrical Engineers of Japan, 1929; Imperial Prize from Japan Society of Invention, 1932; Imperial Prize from Japan Academy, 1937; Medal of Merits from the Institue of Communication Engineers of Japan, 1942; Order of Rising Sun, Japanese Government, 1940; Medal of Cultural Merits, Japan Broadcasting Association, 1956.

NOBLE, Daniel E. (A'25—SM'44—F'47), Director and Executive Vice-President in Charge of Industrial, Semiconductor and Military Electronic Divisions of Motorola, Inc., 4545 Augusta Blvd., Chicago, Ill.

Born: October 4, 1901, Naugatuck, Conn. B.S., 1929, University of Connecticut. D.Sc.(Honorary), 1957, Arizona State College. **IRE Offices:** Director, 1957–58. **Committees:** Annual Review, 1941–43, 1946–47; Appointments, 1958; Frequency Modulation, *chairman, 1940–43;* Mobile Communication Systems, 1950–56; Nominations, 1958; Papers Procurement, 1942–43, 1947, 1949–50; Policy Advisory, 1958; Railroad and Vehicular Communication, 1945–47, 1949–50, *chairman, 1945–48;* Regular Papers, 1941; Standards, 1940–43, 1946–47. **Sections:** Connecticut Valley, *chairman, 1938.*

NOBLE, Harrell V. (A'34—M'35—SM'43—F'58), Technical Director, Electronic Components Laboratory, Wright Air Development Center, Air Research and Development Command, USAF, Wright-Patterson Airforce Base, Ohio.

Born: April, 1907, Noblesville, Ind. B.S.(E.E.), 1929, Purdue University.

NOIZEUX, Pedro J. (A'30—F'47), Assistant General Manager, Transradio Internacional, Compania Argentina de Telecommunicaciones, San Martin, 379, Buenos Aires 4, Argentina.

Born: 1900, France. **Sections:** Buenos Aires, Founder, 1939, *chairman, 1941–42.*

NORTH, Dwight O. (A'35—M'38—SM'43—F'43), Research Engineer, RCA Laboratories Division, Radio Corporation of America, Princeton, N.J.

Born: September 28, 1909, Hartford, Conn. B.S., 1930, Wesleyan University; Ph.D., 1933, California Institute of Technology. **Committees:** Awards, 1948; Board of Editors, 1946–53; Editorial Reviewer, 1954; Papers, 1944–45.

NORTH, Harper Q. (A'51—SM'51—F'57), President, Pacific Semiconductors, Inc., 10451 W. Jefferson Blvd., Culver City, Calif.

Born: January 24, 1917, Los Angeles, Calif. B.S., 1938, California Institute of Technology; M.S., 1940, Ph.D., 1947, University of California at Los Angeles. **Committees:** Editorial Reviewer 1954–58. **Professional Groups:** Electron Devices, *treasurer, 1952–53;* **IRE Representative:** Electron Devices, Pacific Coast IRE Convention, Long Beach, *program chairman, 1952;* Electron Devices, Los Angeles Chapter, *organizer* and *chairman, 1952;* Technical Papers Committee, Electron Devices, WESCON, Los Angeles, *chairman, 1954;* Session on Solid State Devices, WESCON, San Francisco, *chairman, 1955;* Papers Study and Procurement, Electron Devices, *co-chairman, 1955–56.* New York IRE National Convention, Transistor Session, *chairman, 1955.* **Awards:** Fellow, American Physical Society.

NORTON, Kenneth A. (A'29—M'38—SM'43—F'43), Chief, Radio Propagation Engineering Division, Central Radio Propagation Laboratory, National Bureau of Standards, Boulder, Colo.

Born: February 27, 1907, Rockwell City, Iowa, B.S., 1928, University of Chicago. **Committees:** Administrative Committee of the Board of Editors, 1951–53; Awards, 1957; Board of Editors, 1951–53; Editorial Administrative, *alternate, 1949–50, 1951;* Editorial Reviewer, 1955–57; Fellow, 1958; Navigation Aids, 1950–54; Papers Procurement, 1949–50; Papers Review, 1946–51; Radio Wave Propagation, 1942–46; Radio Wave Propagation and Utilization, 1947–49; Wave Propagation, 1937–42, 1949–55. **Awards:** Stuart Ballantine Medal of the Franklin Institute, 1954; Fellow, American Physical Society; Fellow, American Association for the Advancement of Science; Fellow, American Institute of Electrical Engineers.

NOTTINGHAM, Wayne B. (A'37—SM'46—F'56), Professor of Physics, Massachusetts Institute of Technology, Cambridge, 39, Mass.

Born: April, 1899, Tipton, Ind. B.S.(E.E.), 1920, M.A., 1926, Princeton University; E.E., 1929, Purdue University; Ph.D., 1929, Princeton University. **Committees:** Editorial Reviewer, 1954–58; Professional Groups, 1948. **Awards:** Louis E. Levy Medal, Franklin Institute, 1932.

NYQUIST, Harry (A'39—SM'47—F'52), Retired, 1954, as Assistant Director of Systems Studies, Bell Telephone Laboratories, Inc., 463 West St., New York 14, N.Y.

Born: February 7, 1889, Nilsby, Sweden. B.S.(E.E.), 1914, M.S., 1915, University of North Dakota; Ph.D., 1917, Yale University.

O'CONNELL, James D. (SM'53—F'57), Chief Signal Officer (Major General U.S.A.), Department of the Army, Office of the Chief Signal Officer, Room 2 E 254, The Pentagon, Washington 25, D.C.

Born: September 25, 1899, Chicago, Ill. B.S., 1922, U. S. Military Academy; M.S., 1930, Yale University. **Awards:** Poor Richard Club, Silver Medal, 1956; Legion of Merit.

OHL, Russell S. (A'24—M'25—SM'43—F'55), Radio Research Engineer, Bell Telephone Laboratories, Inc., P.O. Box 107, Red Bank, N.J.

Born: January 31, 1898, Macungie, Pa. B.S. in Ech.E., 1918, Penn State University; Post Graduate, University of Maryland, 1918; Post Graduate, University of Colorado, 1921-22.

OLIVE, Gordon W. (A'29—VA'39—F'51), Retired. R.R. #2, Gananoque, Ont., Canada; Formerly Director General of Engineering, Canadian Broadcasting Corporation.

Born: March 18, 1898, Montreal, P.Q., Canada. Attended McGill University, 1919–22. **Committees:** Frequency Modulation, 1946–47; Modulation Systems, 1947–48.

OLIVER, Bernard M. (A'40—M'46—SM'53—F'54), Vice-President, Research & Development, Hewlett-Packard Company, 275 Page Mill Rd., Palo Alto, Calif.

Born: May, 1916, Santa Cruz, Calif. B.S., 1935, Stanford University; M.S., 1936, Ph.D., 1940, California Institute of Technology. **Committees:** Editorial Reviewer, 1954–58. **Sections:** San Francisco, *treasurer, 1953–54, vice-chairman, 1954–55, chairman, 1955–56.* **IRE Representative:** Joint IRE-AIEE Committee on High Frequency Measurements, 1955–56; WESCON Board of Directors, 1956.

OLSON, Harry F. (A'37—VA'39—SM'48—F'49), Director, Acoustical Laboratory, RCA Laboratories Division, Radio Corporation of America, Princeton, N.J.

Born: December, 1902, Mount Pleasant, Iowa. B.E., 1924, M.S., 1925, E.E. (Professional, 1932), Ph.D., 1928, University of Iowa. **Committees:** Annual Review, 1949–51; Board of Editors, 1940–53; Editorial Reviewer, 1954–58; Electroacoustics, 1932–58, *chairman, 1934–39;* Papers Procurement, 1943–47; Standards, 1934–39. **Professional Groups:** Audio, *chairman, 1957–58.* **IRE Representative:** ASA Sectional Committee on Acoustical Measurements and Terminology, 1940–51, *alternate, 1952–56;* ASA Sectional Committee on Graphical Symbols and Abbreviations for Use on Drawings, 1949–50. **Awards:** Fellow, American Physical Society; Fellow Acoustical Society of America; Fellow, Audio Engineering Society; Fellow, Society of Motion Picture and Television Engineers; President, Acoustical Society of America, 1952–53; John H. Potts Medal, Audio Engineering Society, 1952; Samuel

L. Warner Medal, Society of Motion Picture and Television Engineers, 1955; John Scott Medal of the City of Philadelphia, 1956; Achievement Award of the Professional Group on Audio of the Institute of Radio Engineers, 1956.

O'NEILL, George D. (A'28—SM'46—F'49), Research Engineer, Sylvania Electric Products, Inc., Bayside, L.I., N.Y.
Born: July, 1900, Montclair, N.J. B.S., 1924, University of Michigan. **Committees:** Board of Editors, 1952–53; Editorial Reviewer, 1954–58; Electron Devices, 1945–57, *vice-chairman, 1951–52, chairman, 1952–54;* Electron Tubes, 1946–49, 1955–57; Electronics, 1936–46; Standards, 1952–54; Vacuum Tubes, 1945–46. **Professional Groups:** Electron Devices, 1951–54, *chairman, 1951–52.* **IRE Representative:** ASA Subcommittee (C42.14) on Electron Tubes, 1954.

OSBORNE, Harold S. (A'14—M'29—SM'43—F'45)(L), Consulting Engineer, 379 Highland Ave., Upper Montclair, N.J.
Born: August 1, 1887, Fayetteville, N.Y. B.S., 1908, Eng.D., 1910, Massachusetts Institute of Technology. **Committees:** Standardization, 1926–29.

OSWALD, Arthur A. (A'19—M'25—F'28)(L), Retired from Bell Telephone Laboratories, Inc., Home: 2 West Lane, Maplewood, N.J.
Born: March 3, 1891, Lake Linden, Mich. B.S.(E.E.), 1916, E.E., 1927, Illinois Institute of Technology. **Committees:** Papers Procurement, 1942–43; Regular Papers, 1941; Standardization, 1925–26.

OUIMET, J. Alphonse (A'39—SM'44—F'52), General Manager, Canadian Broadcasting Corporation, P.O. Box 806, Ottawa, Ont., Canada.
Born: June 12, 1908, Montreal, P.Q., Canada. B.A., 1928, St. Mary's College; B.E.E., 1932, McGill University. **Committees:** Education, 1944; Television, 1946–49; Television Systems, 1949–53. **Sections:** Montreal, *chairman, 1942–43.* **Awards:** Ross Medal, 1948, Engineering Institute of Canada.

OXLEY, Allan B. (A'25—M'33—SM'46—F'53), Chief Engineer, RCA-Victor Company, Ltd., 1001 Lenoir St., Montreal, P.Q., Canada.
Born: July 7, 1901, London, England. **IRE Offices:** Director, 1951–52, 1957–58. **Committees:** Awards, 1953–56; Membership, 1953–56; Nominations, 1952–53; Policy Advisory, 1957–58. **Sections:** Toronto, *chairman, 1934–35;* Montreal, *chairman, 1939–40, 1949–50.* **Awards:** Member, Corporation of Professional Engineers of Quebec, Canada, 1953–54.

PACKARD, David (S'34—A'41—SM'47—F'48), President, Hewlett-Packard Company, 275 Page Mill Rd., Palo Alto, Calif.
Born: September 7, 1912, Pueblo, Colo. A.B., 1934, E.E., 1939, Stanford University. **Committees:** Awards, 1949; Instruments and Measurements, 1949–50. **Sections:** San Francisco, *secretary, 1943–44, chairman, 1945–46.*

PACKARD, Lucius E. (M'41—SM'43—F"57), Vice-President and Chairman of the Board, Technology Instrument Corporation of California, 7229 Atoll Ave., North Hollywood, Calif.
Born: January 21, 1914, Somerville, Mass. B.S.(E.E.), Massachusets Institute of Technology. **Committees:** Appointments, 1955. Sections, 1946–47, **Professional Groups:** New England Radio Engineering Meeting, *first chairman, 1947.* **Sections:** Chicago, *secretary, 1945–46;* Boston, *vice-chairman, 1950, chairman, 1951–52;* North Atlantic Region, *regional director, 1954.*

PAGE, Chester H. (SM'48—F'56), Consultant to Director, National Bureau of Standards, Washington 25, D.C.
Born: November 13, 1912, Providence, R.I. A.B., 1934, Sc.M., 1934, Brown University; Ph.D., 1937, Yale University. **Committees:** Circuits, 1949–58, *vice-chairman, 1950–51, chairman, 1951–54;* Editorial Reviewer, 1954–58; Electronic Computers, 1948–51; Papers Review, 1951–53; Standards, 1951–56. **Professional Groups:** Circuit Theory, *chairman, 1953–54;* Coordinator, *vice-chairman, 1956–58.* **Awards:** Certificate for Exceptional Service, Bureau of Ordnance; Gold Meal Award, Department of Commerce; Certificate of Appreciation, War Department, O.S.R.D.

PAGE, Robert M. (SM'45—F'47), Director of Research, United State Naval Research Laboratory, Washington 25, D.C.
Born: June 2, 1903, St. Paul, Minn. B.Sc., 1927, Hamline University; M.S., 1932, George Washington University; D.Sc. (Honorary), 1943, Hamline University. **Committees:** Board of Editors, 1946–53; Editorial Reviewer, 1954–58. **Sections:** Washington, *treasurer, 1955–56, secretary, 1956–57, vice-chairman, 1957–58.* **Awards:** Citation O.S.R.D., 1946; Presidential Certificate of Merit, 1947; Distinguished Civilian Award, United States Navy, 1945; IRE Harry Diamond Memorial Award, 1953, Stewart Ballentine Medal, Franklin Institute, 1957.

PALMER, Winslow (S'38—A'41—SM'50—F'56), Engineering Section Head, Sperry Gyroscope Company, Great Neck, L.I., N.Y.
Born: July, 1912, New Brunswick, N.J. B.S., 1937, University of Hawaii; E.E., 1939, Stanford University. **Committees:** Modulation Systems, 1951–54. Navigation Aids, 1951–58, *vice-chairman, 1954–56, chairman, 1957–58;* **Awards:** Certificate of Commendation, U. S. Navy, 1947.

PAN, Wen Y. (A'41—SM'46—F'58), Manager, Radio Corporation of America, Cherry Hill, Camden, N.J.
Born: July 15, 1912, Soochow, China. B.Sc., 1935, Chao-Tung University; E.E., 1939, Ph.D., 1940, Stanford University. **Awards:** Award of Merit, by Ministry of Communications of the Chinese Government, 1937; Honorary Member, by Veteran Wireless Operators Association, 1947.

PARKER, Henry W. (SM'48—F'52), Professional Engineer, 4043 172 St., Flushing 58, L.I., N.Y.
Born: Brooklyn, N.Y. B.S.(E.E.), New York University. **Committees:** Electronics, 1935–45; Industrial Electronics, 1944–58; Papers Review, 1944–53.

PAYNE, Leonard S. (M'16—SM'43—F'49)(L), Retired. Room 523, Marconi House, London, England.
Born: February 28, 1886, London, England.

PETER, Rolf W. (A'47—SM'52—F'58), Director, Physical and Chemical Research Laboratory, RCA Laboratories, Princeton, N.J.
Born: August 20, 1920, Zurich, Switzerland. Dipl. E.E., 1944, Ph.D., 1948, Swiss Federal Institute of Technology. **Committees:** Editorial Reviewer, 1954–58.

PETERSON, Arnold P. G. (S'34—A'38—SM'46—F'58), Engineer, General Radio Company, 22 Baker Ave., West Concord, Mass.
Born: August 7, 1914, DeKalb, Ill. B.Eng., 1934, University of Toledo; M.Sc., 1937, Dr.Sc., 1941, Massachusetts Institute of Technology. **Committees:** Measurements and Instrumentation, 1949–54; Papers Review, 1946–52, Sound Recording and Reproduction, 1950–53. **Awards:** Fellow, Acoustical Society of America, 1951.

PETERSON, Harold O. (A'22—M'31—F'41), Associate Laboratory Director, RCA Laboratories Division, Radio Corporation of America, 140 Moriches Rd., Riverhead, L.I., N.Y.
Born: November 3, 1899, Blair, Neb. B.Sc.(E.E.), 1921, Doctor of Engineering (Honorary), 1951, University of Nebraska. **Committees:** Advisory Committee to the National Bureau of Standards, 1954–56; Aircraft Receivers, 1930–31; Board of Editors, 1944–53; Editorial Reviewer, 1954–58; Industrial Electronics, 1947–51; Instruments and Measurements, 1949–50; Papers, 1934–44; Radio Receivers, 1936–48; Radio Wave Propagation, 1942–45; Radio Wave Propagation and Utilization, 1945–49; Standards, 1934–35; Transmitters and Antennas, 1936–37; Wave Propagation, 1937–42, 1949–56. **Awards:** Modern Pioneer Award, National Association of Manufacturers, 1940.

PETRILLO, Salvatore E. (A'42—F'56), Director of Engineering, U. S. Army Signal Engineering Laboratories, Ft. Monmouth, N.J.
Born: July, 1909, Waterbury, Conn. B.S.(E.E.), 1930, Yale University. **Sections:** Monmouth Subsection, *vice-chairman, 1948.* **Awards:** Legion of Merit, Department of the Army, 1945.

PETTIT, Joseph M. (S'39—A'40—M'45—SM'46—F'54), Professor of Electrical Engineering and Associate Dean of Engineering, Electronics Research Laboratory, Stanford University, Stanford, Calif.
Born: July 15, 1916, Rochester, Minn. B.S., 1938, University of California. E.E., 1940, Ph.D., 1942, Stanford University. **IRE Offices:** Director, 1954–55. **Committees:** Editorial Reviewer, 1954–55; Education, 1949–58, *chairman, 1955–56;* Fellow, 1958; Policy Advisory, 1954–55; Radio Receivers, 1946–52. **Sections:** Palo Alto, *chairman, 1951–52.* **IRE Representative:** Stanford University, 1948–51. **Awards:** Electronics Achievement Award, Region 7, 1952; Presidential Certificate of Merit, U. S. Government, 1949.

PICKERING, William H. (A'41—SM'49—F'55), Director, Jet Propulsion Laboratory, California Institute of Technology, 4800 Oak Grove Dr., Pasadena 3, Calif.
Born: December 24, 1910, Wellington, New Zealand. B.S., 1932, M.S., 1933, Ph.D., 1936, California Institute of Technology. **Committees:** Editorial Reviewer, 1954–58; Education, 1949–51; Papers Review, 1946–53. **IRE Representative:** California Institute of Technology, *alternate, 1941–42, 1950–52.* **Awards:** Commendation for Meritorious Civilian Service, U. S. Air Force; Fellow, American Rocket Society, James Wyld Award, American Rocket Society.

PIERCE, JOHN A. (SM'45—F'47), Senior Research Fellow, Cruft Laboratory, Harvard University, Cambridge 38, Mass.
Born: December 11, 1907, Spokane, Wash. B.A., 1937, University of Maine. **Committees:** Annual Review, 1948–49; Editorial Reviewer, 1954–57; Navigation Aids, 1947–50, *chairman, 1948–50;* Radio Wave Propagation and Utilization, 1945–49; Standards, 1949; Wave Propagation, 1949–50, 1956–58. **Awards:** Fellow, American Academy of Arts and Sciences; Fellow, American Association for the Advancement of Science; IRE Morris Liebmann Prize, 1953; President's Certificate of Merit, 1948; Thurlow Award (Institute of Navigation), 1947.

PIERCE, John R. (S'35—A'38—SM'46—F'48), Director of Research, Electrical Communications, Bell Telephone Laboratories, Inc., Murray Hill, N.J.
Born: March 27, 1910, Des Moines, Iowa. B.S., 1933, M.S., 1934, Ph.D., 1936, California Institute of Technology. **IRE Offices:** Editor, 1954–55; Director, 1954–55. **Committees:** Editorial Board, *chairman, 1954–55;* Executive, 1954–55; Papers Procurement, *second vice-chairman, 1943.* **Awards:** Eta Kappa Nu, Outstanding Young Electrical Engineer, 1942; IRE Morris Liebmann Memorial Prize, 1947.

PIORE, Emanuel R. (A'38—M'42—SM'43—F'50), Director of Research, International Business Machines Corporation, 590 Madison Ave., New York 22, N.Y.
Born: July 19, 1908, Wilno, Russia. B.A., 1930, Ph.D., 1935, University of Wisconsin. **IRE Offices:** Director, 1951. **Committees:** Awards, 1949. **Professional Groups:** Nuclear Science, Administrative Committee, 1953, *vice-chairman, 1955.*

PIPES, Louis A. (M'52—SM'54—F'58), Professor of Engineering, University of California, Los Angeles 24, Calif.
Born: October 22, 1910, Mexico City, Mexico. B.S., 1933, M.Sc., 1934, Ph.D., 1936, California Institute of Technology.

POCH, Waldemar J. (A'28—VA'39—SM'48—F'56), Administrator, Technical Analysis, Radio Corporation of America, Front & Cooper, Camden, N.J.
Born: July, 1905, London, England. B.S.(E.E.), 1928, University of Michigan; M.S., 1934, University of Pennsylvania. **Committees:** Annual Review, 1950–51; Audio and Video Techniques, 1948–49; Editorial Reviewer, 1954–57; Standards, 1951–56; Video Techniques, 1949–56, *vice-chairman, 1949–51, chairman, 1951–55.* **IRE Representative:** IRE-RETMA-SMPTE-NARTB Committee for Inter-Society Coordination (Television), 1954–58.

PODOLSKY, Leon (A'30—M'46—SM'53—F'57), Technical Assistant to the President, Sprague Electric Company, Marshall St., North Adams, Mass.
Born: November, 1910, Philadelphia, Pa. E.E., 1934, Drexel Institute of Technology. **Committees:** Activities, 1955–57; Professional Groups, 1955–58. **Professional Groups:** Administrative Committee, Component Parts; Scholarship Committee. **Awards:** ASA War Standards Award, 1946; Certificate of Commendation, U. S. Navy, 1947; IRE-RETMA Fall Meeting Award, 1956; Fellow, AIEE, 1956.

POLKINGHORN, Frank A. (A'25—F'38), Technical Staff, Bell Telephone Laboratories, Inc., Whippany, N.J.
Born: July 23, 1897, Holbrook, Mass. B.S., 1922, University of California. **IRE Offices:** Director, 1957–58. **Committees:** Admissions, 1943–48, *vice-chairman, 1945–48;* High-Frequency Receivers, 1930–31; National Convention, 1948; Nominations, 1958; Policy Advisory, 1957–58; Radio Receivers, 1932–34; Sections, 1941–45. **Sections:** Northern New Jersey Subsection, *vice-chairman, 1953–54;* Northern New Jersey Section, *chairman, 1954–55.* **IRE Representative:** ASA Sectional Committee on Radio, 1935–38. **Awards:** Honorary Member, Denki Tushin Gakkai. (Institute of Electrical Communication Engineers of Japan).

PONTE, Maurice J. H. (SM'48—F'54), Managing Director, Compagnie Générale de Télégraphie Sans Fil, 79 Boulevard Hausmann, Paris, France.
Born: April, 1902, Voiron, Isère, France, Sciences Doctorship, Ecole Normale Supérieure of Paris (Sciences Division). **IRE Offices:** Vice-President, 1954; Director, 1954.

POPPELE, J. R. (A'30—M'39—SM'43—F'50), Consulting Television and Radio Engineer, 9 Crest Circle, South Orange, N.J.; Member Advisory Board, Voice of America, U. S. Information Agency.
Born: February 4, 1898, Newark, N.J. **IRE Offices:** Director, 1947. **Committees:** Building Fund, 1945–46; Facsimile, 1940, 1943; Membership, 1939–40; National Convention, 1947; New York Program, 1940; Papers, 1942–45; Papers Procurement, 1942–43; Public Relations, 1943–46; Regular Papers, 1941.

POTTER, James L. (A'31—SM'44—F'57), Professor and Chairman, Electrical Engineering Department, Rutgers State University, College of Engineering, New Brunswick, N.J.
Born: December 4, 1905, Carthage, Mo. B.S., 1928, M.S., 1930, E.E., 1939, Kansas State College. **Committees:** Education, 1955–57. **Sections:** Princeton, *secretary-treasurer, 1945–55, vice-chairman, 1955–56; chairman, 1956;* Education Subcommittee of Education Committee, *chairman, 1955–56.* **IRE Representative:** Rutgers University, 1941–54. **Awards:** First Prize Paper, Science Division National American Institute of Electrical Engineers Winter Convention, 1954.

POTTER, Ralph K. (A'25—M'26—F'41), Retired. Dogwood Dr., Route No. 17, Morristown, N.J.
Born: October 1, 1894, Elgin, Ill. B.S., 1917, Whitman College; E.E., 1923, Columbia University. **Committees:** Awards, 1944; Papers, 1931–41.

POUNSETT, Frank H. R. (A'26—SM'44—F'47), Assistant General Manager, Canadian Radio Manufacturing Corporation, Ltd., 11-17 Brentcliffe Rd., Toronto 17, Ont., Canada.
Born: September 12, 1904, London, England, B.A.Sc., 1928, University of Toronto. **IRE Offices:** Director, 1949–50. **Committees:** Awards, 1952; Canadian Building Fund and Auditor, 1945; Membership, 1951–52; Nominations, 1948–50, 1955–56; Radio Receivers, 1946–52. **Sections:** Toronto, *chairman, 1945–46.*

PRATT, Haraden (A'14—M'17—F'29)(L), Vice-President, Dualex Corporation, Wake Robin Lane, Stamford, Conn.
Born: July 18, 1891, San Francisco, Calif. B.S., 1914, University of California. **IRE Offices:** President, 1938; Treasurer, 1941–42; Secretary, 1943–58; Director, 1935–57. **Committees:** Admissions, 1937; Annual Review, 1937; Appointments, *chairman, 1947;* Awards, 1937–41, 1944–45, 1948, *vice-chairman, 1945, chairman, 1939, 1948;* Board of Editors, 1941–53; Building Fund Administrator, 1947–48; Constitution and Laws, 1941, 1950–51; Editorial Administrative, 1947–50; Executive, *vice-chairman, 1941–42, secretary, 1943–58;* Fiscal, 1947–48, *chairman, 1947, 1955–57;* History, *chairman, 1954–58;* Investments, 1944–46; New York Program, 1933, 1935–37, *chairman, 1936–37;* Nominations, 1936, 1941–43, 1947–48, 1952–56, *chairman, 1943, 1947;* Office Quarters, 1947; Policy Development, 1950–51, *chairman, 1950;* Preparedness, *chairman, 1940–41;* Radio Transmitters and Antennas, 1930; Standardization, 1928–31; Standards, 1932, 1934–37, *chairman, 1934–35;* Tellers, *chairman, 1936.* **IRE Representative:** ASA Sectional Committee (C42) on Definition of Electrical Terms, 1936–46, 1949–55; ASA Sectional Committee on Definitions of Technical Terms, 1930; ASA Board of Directors, 1939–41; ASA Sectional Committee on Radio, 1936–48; Joint Technical Advisory Committee, 1948–51; Radio Technical Planning Board, 1944–48, *chairman, 1945–48.* **Awards:** IRE Medal of Honor, 1944.

PREISMAN, Albert (M'38—SM'43—F'53), Vice-President in Charge of Engineering, Capital Radio Engineering Institute, 3224 16 St., N.W., Washington 10, D.C.; Consulting Engineer.
Born: February 8, 1901, New York, N.Y. A.B., 1922, E.E., 1924, Columbia University. **Committees:** Education, 1950–55; Membership, 1943–46; Papers Review, 1948–53. **Professional Groups:** Audio, *chairman, 1957–58.*

PRESSLEY, Jackson H. (A'20—F'31), Retired. 1036 San Diego Rd., Santa Barbara, Calif.
Born: June 8, 1896, Rio Vista, Calif. B.S.(E.E.), 1920, University of California. **Committees:** Radio Receivers, 1933–34.

PRICE, Lloyd M. (A'31—SM'46—F'49), Sales and Consultant, 185 Poplar Plains Rd., Toronto 7, Ont., Canada.
Born: August, 1897, St. Thomas, Ont., Canada. B.A.Sc., 1923, University of Toronto. **Committees:** Electron Tubes, 1946–47. **Sections:** Toronto, *Secretary, 1934–35, chairman, 1935–36.*

PRIEST, Conan A. (A'24—M'38—SM'43—F'47), Director, Electronics Division, Onondaga Pottery Company, Syracuse, N.Y.
Born: August 11, 1900, Solon, Me. B.S.(E.E.), 1922, E.E. (Professional), 1925, University of Maine. **IRE Offices:** Director, 1953–54. **Committees:** Board of Editors, 1941–53. **Professional Groups:** Industrial Electronics, *secretary, 1954–58.* **Sections:** Syracuse, *chairman, 1947.*

PUGSLEY, Donald W. (A'39—M'45—SM'46—F'52), Manager, Parts and Special Products Engineering, General Electric Company, Syracuse, N.Y.
Born: December, 1912, Salt Lake City, Utah. B.S.(E.E.), 1935, University of Utah; M.S.(E.E.), 1954, Syracuse University. **Committees:** Radio Frequency Interference, 1956; Television, 1945–49; Television Systems, 1949–58. **Sections:** Syracuse Chapter, Professional Group on Engineering Management, *vice-chairman, 1955–56, chairman, 1956–57.* **Professional Groups:** National Administrative Committee, Professional Group on Broadcast and Television Receivers, 1958. **Awards:** Eta Kappa Nu, Outstanding Young Electrical Engineer, (Honorary Mention), 1944.

PUNCHARD, John C. R. (A'37—SM'45—F'53), Manager, Belleville Plant, Northern Electric Company, Ltd., 250 Sidney St., Belleville, Ont., Canada.
Born: April 13, 1911, Toronto, Ont., Canada. B.S., 1933, University of Toronto. **IRE Offices:** Awards, 1957. **Committees:** Awards, 1957. Radio Transmitters, 1947–51; **Sections:** Montreal, *secretary, 1941–44, chairman, 1946–47;* Canadian Council, I.R.E., *secretary, 1947–53;* Bay of Quinte, *chairman, 1955–56.*

QUARLES, Donald A. (M'41—SM'43—F'54), Deputy Secretary of Defense, Room 3E-924, Pentagon Building, Washington 25, D.C.
Born: July 30, 1894, Van Buren, Ark. A.B., 1916, Yale University; Doctor of Engineering (Honorary), 1953, University of Arkansas; D.Eng.(Honorary), 1955, New York University; D.Sc.(Honorary), 1956, Grinnell College; D.Sc.(Honorary), 1956, Stevens Institute; LL.D.(Honorary), 1957, Yale University. **Awards:** AIEE, Director and Past President.

QUARLES, Lawrence R. (M'42—SM'43—F'52), Dean of Engineering, Thornton Hall, University of Virginia, Charlottesville, Va.
Born: January 26, 1908, Charlottesville, Va. B.S.E., 1929, Ph.D.(Physics), 1935, University of Virginia. **Committees:** Awards, 1956; Education, 1949–56; Policy Development, 1948. **Sections:** North Carolina-Virginia, *chairman, 1946–47;* **IRE Representative:** University of Virginia, 1943–50.

RABINOW, Jacob (SM'54—F'56), President, Rabinow Engineering Company, 7212 New Hampshire Ave., Washington 12, D.C.
Born: January 8, 1910, Kharkov, Russia. B.E.(E.E.), 1933, E.E., 1934, College of the City of New York. **Awards:** Exceptional Service Award, Department of Commerce, 1949; Certificate of Merit, 1948; Naval Ordnance Development Award, 1945; Certificate of Commendation, National Defense Research Council, 1954; Certificate of Appreciation, War Department, 1949.

RADFORD, William H. (A'41—SM'45—F'54), Professor of Electrical Communications, Massachusetts Institute of Technology; Associate Director, Lincoln Laboratory, Massachusetts Institute of Technology, 77 Massachusetts Ave., Cambridge 39, Mass.
Born: May, 1909, Philadelphia, Pa. B.S., 1931, Drexel Institute of Technology; M.S., 1932, Massachusetts Institute of Technology; D.Eng.(Honorary), Drexel Institute of Technology, 1957. **Committees:** Editorial Reviewer, 1954–58; Education, 1945–48, *chairman, 1947–48;* Membership, 1947–48. **Sections:** Boston, *chairman, 1947.* **Professional Groups:** Joint Technical Advisory Committee, *vice-chairman, 1956.* **IRE Representative:** Massachusetts Institute of Technology, 1941–54.

RAGAZZINI, John R. (A'41—M'46—SM'52—F'55), Professor of Electrical Engineering, Columbia University, Engineering Bldg., New York 27, N.Y.
Born: January 3, 1912, New York, N.Y. B.S., 1932, E.E., 1933, College of the City of New York; M.A., 1938, Ph.D., 1941, Columbia University. **IRE Offices:** Director, 1953–54. **Committees:** Appointments, 1954; Audio and Video Techniques, 1948–49; Board of Editors, 1946–53; Editorial Administrative, 1948–50; Editorial Reviewer, 1954–58; Education, 1949–55; Modulation Systems, 1951–53; Nominations, 1953–54; Policy Advisory, 1954–55; Sound Recording, 1949–50. **Sections:** New York, *secretary, 1946–47, vice-chairman, 1948–49.* **IRE Representative:** Columbia University, 1945–52; ASA Subcommittee (Y10.14) on Nomenclature Feedback Control Systems, 1951–53.

RAJCHMAN, Jan A. (SM'46—F'53), Member Research Staff, RCA Laboratories, Princeton, N.J.
Born: August 10, 1911, London, England. Dipl.E.E., 1935, Dr. Sc., 1938, Swiss Federal Institute of Technology. **Committees:** Editorial Reviewer 1954–58; Electronic Computers, 1948–58; Papers Review, 1950–52, 1954–58. **Awards:** Levy Medal Franklin Institute, 1948.

RAMBERG, Edward G. (M'53—SM'53—F'55), Research Physicist, RCA Laboratories Division, Princeton, N.J.
Born: June 14, 1907, Florence, Italy. B.A., 1928, Cornell University; Ph.D., 1932, University of Munich, Germany.

RAMEY, Robert A., Jr. (M'46—F'58), Manager, New Products Engineering Department, Westinghouse Electric Corporation, P.O. Box 10596, Pittsburgh 35, Pa.
Born: December 14, 1918, Wayne, W.Va. B.S.(E.E.), 1943, M.Sc., 1945, Dr.Sc., 1948, University of Cincinnati. **Awards:** Basic Science Committee Best Paper Award, AIEE, 1951.

RAMO, Simon (A'38—SM'44—F'50), President, Space Technology Laboratories, Division of The Ramo-Wooldridge Corporation, Los Angeles, Calif.; Research Associate, California Institute of Technology, Pasadena, Calif.
Born: May, 1913, Salt Lake City, Utah. B.S., 1933, University of Utah; Ph.D., 1936, California Institute of Technology. **Committees:** Board of Editors, 1946–53; Editorial Reviewer, 1954–55; Papers, 1941–45. **Awards:** Electronic Achievement Award, Pacific Region, IRE, 1953; Eta Kappa Nu Honorable Mention, 1941; Raymond E. Hackett Award, 1955; W. Rupert Turnbull Memorial Award, IAS 1956 International Meeting.

RANGER, Richard H. (F'37)(L), President, Rangertone, Inc., 73 Winthrop St., Newark 4, N.J.
Born: June 13, 1889, Indianapolis, Ind. B.S., 1911, Massachusetts Institute of Technology. **Committees:** Meetings and Papers, 1928–30; New York Program, *chairman, 1930–32;* Papers, 1931–33. **Sections:** Northern New Jersey, Membership Committee, *chairman, 1954–55;* Program Committee, *chairman, 1956–58.*

RAPPAPORT, George (A'41—M'44—SM'46—F'56), Vice-President, Government Electronics Division, Emerson Radio and Phonograph Corporation, 1140 East West Highway, Silver Spring, Md.
Born: December 7, 1919, New York, N.Y. B.E.(E.E.), 1941, City College of New York; M.S.(E.E.), 1947, Ohio State University. **IRE Offices:** Director, 1954–56. **Committees:** Annual Review, 1948–52; Membership, 1954–56; Sections, 1950–51; Standards, 1949–52. **Sections:** Dayton, *secretary, 1947–48, chairman, 1948–49.* **Professional Groups:** Aeronautical and Navigational Electronics, *chairman, 1952.*

RATCLIFFE, John A. (M'29—A'32—F'53), Cavendish Laboratory, Cambridge, England.
Born: December, 1902, Bacup, Lancashire, England. M.A., 1927, Cambridge. **Awards:** Fellow of the Royal Society.

RAYMOND, Richard C. (SM'52—F'58), Manager, Technical Military Planning Operation, General Electric Company, 735 State St., Santa Barbara, Calif.
Born: August, 1917, Spokane, Wash. B.S. (Physics), 1938, State College of Washington; Ph.D. (Physics), 1941, University of California.

REICH, Herbert J. (A'26—M'41—SM'43—F'49), Professor of Electrical Engineering, Dunham Laboratory, Yale University, New Haven, Conn.
Born:: October, 1900, Staten Island, N.Y. M.E., 1924, Ph.D. (Physics), 1929, Cornell University. **IRE Offices:** Director, 1944, 1948–51. **Committees:** Admissions, 1944–46; Appointments, 1950; Awards, 1948; Board of Editors, 1943–53; Constitution and Laws, 1949–50; Education, 1945–53, *chairman, 1949–51;* Electron Tubes, 1946–49, 1956–58; Electron Tubes and Solid State Devices, 1949–53; Electronics, 1941–46; Vacuum Tubes, 1945–46. **IRE Representative:** University of Illinois, 1941–43; Yale University, 1948–50. **Awards:** Fellow, American Physical Society; Fellow, American Institute of Electrical Engineers.

REID, John D. (A'41—M'44—SM'46—F'49), Executive Vice-President, A.R.&T. Electronics, Inc., P.O. Box 370, North Little Rock, Ark.
Born: March, 1907, Morristown, N.J. Attended University of Pennsylvania, 1925–28. **IRE Offices:** Director, 1950–51. **Committees:** Awards, 1951–54; Board of Editors, 1947–51; Editorial Administrative, 1949–50; Membership, 1949–50; Papers Procurement, 1945–49, *chairman, 1948–49;* Papers Review, 1946; Policy Development, 1950–51; Professional Groups, 1948, 1950; Receivers, 1946–58, *vice-chairman, 1950–56.* **Sections:** Cincinnati, *chairman, 1946–47;* Little Rock, *chairman, 1957–58.* **IRE Representative:** National Electronics Conference, Board of Directors, 1950–51. **Awards:** Naval Ordnance Development Award, United States Navy, 1945; Presidential Certificate of Merit, 1948.

REINARTZ, John L. (M'32—SM'43—F'58), Capt. U.S.N.R., Retired. Manager, Amateur Service Department, Eitel-McCullough, Inc., San Bruno, Calif.
Born: March 6, 1894, Crefeld, Germany. **Awards:** Silver Cup, Second District Radio Council, 1923.

RETTENMEYER, Francis X. (A'26—M'29—SM'43—F'44), Engineering Department, Philco Corporation, Wissahickon Ave. Philadelphia 44, Pa.
Born: July 27, 1904, Kendrick, Okla. B.S.(E.E.), 1925,, University of Colorado. **Committees:** Administrative Committee of the Board of Editors, 1951–53; Board of Editors, 1946–53; Editorial Administrative, 1951–53; Membership, 1938–40; Papers, 1942–45; Papers Procurement, 1947–49; Publicity, 1939; Public Relations, 1941–42; Radio Receivers, 1936–37; Radio Receivers and Parts, 1929–30; Sections, 1936.

REUKEMA, Lester E. (A'30—SM'46—F'51), Professor of Electrical Engineering, 123 Cory Hall, University of California, Berkeley, Calif.
Born: August 31, 1891, Chicago, Ill. B.S., 1922, M.S., 1924, Ph.D., 1926, University of California. **Sections:** San Francisco, *secretary, 1946–47, vice-chairman, 1947–48, chairman, 1948–49.* **Awards:** Fellow, American Institute of Electrical Engineers, 1946.

RIBLET, Henry J. (A'45—M'55—F'58), President, Microwave Development Laboratories, Inc., 92 Broad St., Wellesley 81, Mass.
Born: July 21, 1913, Calgary, Alberta, Canada. B.S., 1935; M.A., 1937; Ph.D., 1939, Yale University. **Committees:** Editorial Reviewer, 1954–58.

RICE, Stephen O. (SM'47—F'53), Member of Technical Staff, Bell Telephone Laboratories, Inc., 463 West St., New York, N.Y.
Born: November, 1907, Shedds, Ore. B.S., 1929, Oregon State College. **Committees:** Papers Review, 1947.

RICHARDSON, Avery G. (A'25—M'29—SM'43—F'56), Manager Technical Services, Federal Telecommunication Laboratories, Inc., 500 Washington Ave., Nutley 10, N.J.
Born: March, 1901, Brooklyn, N.Y. E.E., 1924, Brooklyn Polytechnic Institute. **Committees:** Navigation Aids 1954–58. **Sections:** Northern New Jersey Subsection, *secretary, 1950, chairman, 1952.* **Awards:** Certificate of Commendation, U. S. Navy; National Defense Research Council Award.

RICHARDSON, William G. (A'36—SM'45—F'55), Director of Engineering, Canadian Broadcasting Corporation, 140 Wellington St., Ottawa, Ont., Canada.
Born: December 5, 1903, Watford, Ont., Canada. B.S.(E.E.), 1926, Queen's University.

RICHMOND, Harold B. (A'14—M'23—F'29)(L), Retired. Formerly Chairman of the Board, General Radio Company, 100 Memorial Drive, Cambridge 42, Mass.
Born: March 22, 1892, Medford, Mass. S.B., 1914, Massachusetts Institute of Technology; D.Eng. (Honorary), 1947, Norwich University. **Committees:** Admissions, 1940; Nominations, 1940; Preparedness, 1940–41; Public Relations, 1947–48; Registration of Engineers, *chairman, 1940–43;* Standardization, 1928–31. **Awards:** Presidential Medal for Merit, Guided Missiles Development, 1947; Highest Honor Award, Scientific Apparatus Makers Association.

RICHTER, Walther (SM'44—F'53), Consulting Electrical Engineer, 8575 N. Hawthorne Rd., Milwaukee 17, Wis.
Born: May 17, 1900, Heidelberg, Germany. B.S., 1923, Institute of Technology, Karlsruhe, Germany. **Committees:** Industrial Electronics, 1947–58; Papers Procurement, 1946. **Professional Groups:** Instrumentation, Administration Committee, 1954–55; Industrial Electronics, Administrative Committee, 1952–55. **Awards:** Fellow, American Institute of Electrical Engineers, 1942.

RIDENOUR, Louis N. (SM'52—F'55), Assistant General Manager for Research and Development, Missile Systems Division, Lockheed Aircraft Corporation, Sunnyvale, Calif.

Born: November 1, 1911, Montclair, N.J. B.S., 1932,, University of Chicago; Ph.D., 1936, California Institute of Technology. **Committees:** Board of Editors, 1946. **Awards:** Bronze Star, 1946; President's Medal for Merit, 1948; Citation of Honor Award, Air Force Association, 1951.

RINIA, Herre (SM'51—F'54), Director of Research, Philips Research Laboratories, Kastanjelaan, Eindhoven, Netherlands.
Born: March 30, 1905, Cornwerd, Friesland, Netherlands. M.A. (E.E.), 1928, Delft Institute of Technology. **IRE Offices:** Vice-President, 1956; Director, 1956. **Awards:** Member, Koninklijke Nederlandse Akademie van Wetenschappen, 1948.

RIVES, Tom C. (SM'48—F'54), Director of Syracuse University Research Corporation, Bldg. B-5, Colvin Lane, Syracuse 10, N.Y. (Collendale).
Born: December 3, 1892, Montgomery, Ala. B.S.(E.E.), 1916, E.E., 1917, Alabama Polytechnic Institute; M.S., 1927, Sheffield Scientific School, Yale University. **Committees:** Professional Groups, 1958. **Professional Groups:** Engineering Management, 1951–54, *chairman, 1953–54;* Aeronautical and Navigational Electronics, *vice-chairman, 1956;* Administrative Committee, Military Electronics, 1957–58; Nominating Committee, Engineering Management, *chairman, 1957–58.*

ROBERTS, Walter van B. (A'22—F'29), Retired. 155 Hodge Rd., Princeton, N.J., Consultant, Radio Corporation of America.
Born: November 13, 1893, Titusville, Pa. B.S., 1915, E.E., 1917, Ph.D., 1924, Princeton University. **Committees:** Use of the Transmission Unit, 1928.

ROCHESTER, Nathaniel (S'41—A'43—M'46—SM'49—F'58), Manager, Information Research, International Business Machines Corporation, Research Laboratory, Yorktown, N.Y.
Born: January 14, 1919, Buffalo, N.Y. B.Sc.(E.E.), 1941, Massachusetts Institute of Technology. **Committees:** Technical Committee on Electronic Computers, 1948–55; *vice-chairman, 1950–51; chairman, 1951–52;* Subcommittee on Definitions, 1951–54, *chairman, 1952–54;* Task Group on Pulse Definitions, 1952.

ROCKWELL, Ronald J. (A'25—M'31—SM'43—F'45), Vice-President in Charge of Engineering, Crosley Broadcasting Corporation, 140 W. 9 St., Cincinnati, Ohio.
Born: February 5, 1904, Omaha, Neb. B.S.(E.E.), 1927, Iowa State College; E.E. (Professional), 1946. **Committees:** Electroacoustics, 1951–55; Sections, ex-officio, 1938–39. **Sections:** Cincinnati, *chairman, 1938–39.*

ROETKEN, Alfred A. (A'29—M'40—SM'43—F'53), Research Engineer, Bell Telephone Laboratories, Inc., Mountain Ave., Murray Hill, N.J.
Born: October, 1902, Covington, Ky. B.S.(E.E.), 1927, M.S., 1929, Ohio State University.

ROHDE, Lothar (M'55—F'56), Owner and Technical Director, Rhode and Schwartz, 7 Tassiloplatz, Munich 9, Germany.
Born: October 4, 1906, Leverkusen, Germany. Ph.D., 1931, University of Jena; Dr. Ing., 1953 (Honorary), Technische Hochschule, Munich, Germany.

ROSE, Albert (A'36—M'40—SM'43—F'48), Physicist; RCA Laboratories, Princeton, N.J.
Born: March, 1910, New York, N.Y. A.B., 1931, Ph.D. (Physics), 1935, Cornell University. **Committees:** Editorial Reviewer, 1954. **Awards:** Journal Award, Society of Motion Picture Engineers, 1946; IRE Morris Liebmann Memorial Prize, 1946; Television Broadcasters Association Award, 1945.

ROSE, George M., Jr. (A'31—M'38—SM'43—F'54), Manager, Receiving Tube Advanced Development, Tube Division, Radio Corporation of America, 415 S. 5 St., Harrison, N.J.
Born: November 22, 1907, Nashville, Tenn. B.S.(E.E.), 1928, University of North Carolina. **Committees:** Admissions, 1954–58, *chairman, 1955–56.* **Awards:** Modern Pioneer Award, National Association of Manufacturers, 1940.

ROYDEN, George T. (A'19—M'27—F'33), Engineer, Mackay Radio and Telegraph Company, 67 Broad St., New York 4, N.Y.
Born: June 20, 1895, Fort Clark, Tex. A.B., 1917, Engineer, 1924, Stanford University. **IRE Offices:** Director, 1946. **Committees:** Admissions, 1941–48, *chairman, 1943–48;* Awards, 1946; Constitution and Laws, 1944, 1949–50; Convention Record, 1953–56; National Convention, 1946; New York Program, 1938–42; Professional Groups, 1952–53; Sections, 1941–45. **Professional Groups:** Communications Systems, *chairman, 1952–53,* Administrative Committee, 1952–55. **Sections:** San Francisco, *chairman, 1933–34.*

ROYS, Henry E. (A'27—SM'47—F'55), Manager of Engineering, RCA Victor Record Division, Indianapolis, Ind.
Born: January 7, 1902, Beaver Falls, Pa. B.S. (E.E.), 1925, University of Colorado. **Committees:** Audio and Video Techniques, 1948–49; Editorial Reviewer, 1954–58; Papers Review, 1947–53; Sound Recording and Reproducing, 1949–56, *chairman, 1949–52;* Standards, 1950–52; Video Techniques, 1949–50. **IRE Representative:** ASA Sectional Committee (Z57) on Standards for Sound Recording, 1951–56, *chairman, 1957–58;* EIA Phonograph Combinations and Home Recordings (R7), *chairman, 1956–58.* **Awards:** Fellow, Audio Engineering Society, 1953; Fellow, Acoustical Society of America, 1954. IRE PGA Achievement Award, 1957; The Emile Berliner Award, Audio Engineering Society, 1957.

RUSSELL, John B. (A'36—SM'45—F'58), Manager, Electronics Laboratory, General Electric Company, Syracuse, N.Y.
Born: March 10, 1907, Boston, Mass. B.S., 1928, M.Sc., 1931, D.Sc., 1950, Massachusetts Institute of Technology. **Committees:** Circuit Theory, 1944, 1947–51, *vice-chairman, 1948–49;* Electronics, 1943, 1954–56; Education, 1958. **Sections:** Syracuse, *chairman, 1958.* **Awards:** Fellow, AIEE; Fellow, New York Academy of Sciences.

RUST, William M., Jr. (SM'47—F'53). Assistant Chief Geophysicist, Humble Oil & Refining Company, 1200 Main, Houston 2, Tex.
Born: January, 1907, Liberty, Tex. B.A., 1928, M.A., 1929, Ph.D., 1931, The Rice Institute. **IRE Offices:** Director, 1951–52. **Committees:** Awards, 1953–55, *chairman, 1954;* Awards Coordination, 1955–56, *chairman, 1956;* Constitution and Laws, *chairman, 1958;* Professional Groups, 1953–56, 1958. **Awards:** President, Society of Exploration Geophysics, 1945.

RYAN, Francis M. (J'14—A'17—M'26—F'40), Radio Engineer, American Telephone and Telegraph Company, 195 Broadway, New York 7, N.Y.
Born: February 4, 1895, Seattle, Wash. B.S.(E.E.), 1919, University of Washington. **Committees:** Admissions, 1939; Meetings and Papers, 1930; New York Program, 1930; Papers, 1931–36; Railroad and Vehicular Communication, 1945–46; Tellers, 1938. **Professional Groups:** Communication Systems, *chairman, 1956.* **IRE Representative:** Aeronautic Radio Research, Department of Commerce, 1930; Liaison Committee on Aeronautic Radio Research, 1936, 1939–41.

RYBNER, Jorgen C. F. (A'25—SM'47—F'53), Professor, Ostervoldgade 10 G, Copenhagen K, Denmark.
Born: November 26, 1902, Frederiksberg, Denmark. M.S.(E.E.), 1926, Royal Technical University of Denmark. **IRE Offices:** Vice-President, 1951. **Awards:** President, Danish National Committee of URSI, 1948; Member, Danish Academy of Technical Sciences, 1937.

RYDER, John D. (A'29—SM'45—F'52), Dean, College of Engineering, Michigan State University, East Lansing, Mich.
Born: May 8, 1907, Columbus, Ohio. B.E.E., 1928, M.S., 1929, Ohio State University; Ph.D., 1944, Iowa State College. **IRE Offices:** President, 1955; Director, 1952–57; Editor, 1958. **Committees:** Appointments, 1954–57 (Ex-officio, 1955), *chairman, 1957;* Editorial Board, 1956, *chairman, 1958;* Editorial Reviewer,

1954–58; Education, 1945–46, 1949–58, *chairman, 1953–54;* Executive, 1954–57, *chairman, 1955;* Finance, 1954–57; Membership Relations Coordinator, 1954–57; Nominations, 1956–58, *chairman, 1957;* Papers Review, 1948–53; Policy Advisory, 1952–53, *chairman, 1953;* Professional Groups, 1956. **Professional Groups:** Education, *chairman, 1957–58.* **Sections:** Des Moines-Ames, *vice-chairman, 1948.*

RYDER, Robert M. (SM'45—F'57), Transistor Development Engineer, Bell Telephone Laboratories, Inc., Mountain Ave., Murray Hill, N.J.
Born: March, 1915, Yonkers, N.Y. B.S., 1937, Ph.D., 1940, Yale University. **Committees:** Advanced Developments, 1944–46; Conference Committee on Electron Tube Research, 1948–50, *chairman, 1951;* Editorial Reviewer, 1954–57; Electron Devices, 1949–56, *vice-chairman, 1952–54;* Electron Tubes, 1948–49; Semiconductor Devices, *chairman 1949–53;* Task Force on Unit Definitions and Tests, *chairman, 1947–51.* **IRE Representative:** IRE-AIEE Committee on Noise Definitions, 1951.

SALINGER, Hans W. G. (A'37—SM'46—F'51), Technical Advisor to the Director of Research, Farnsworth Electronic Company, 3700 E. Pontiac St., Fort Wayne, Ind.
Born: April 1, 1891, Berlin, Germany. Ph.D., 1915, University of Berlin. **Committees:** Papers Procurement, 1947–50. **Sections:** Fort Wayne, *chairman, 1949–50.*

SALISBURY, Winfield W. (SM'44—F'47), Director, Zenith Radio Research Corporation, Salisbury Laboratory, Redwood City, Calif.
Born: December 27, 1903, Carthage, Ill. A.B., 1926, University of Iowa; D.S. (Honorary), 1950, Cornell College. **Committees:** Education, 1946; Nuclear Studies, 1948–50; Papers Review, 1946; Railroad and Vehicular Communications, 1945–48. **Sections:** East Bay Subsection, *chairman, 1953–54.*

SALZBERG, Bernard (J'25—A'30—M'38—SM'43—F'52), Chief Scientist, Research and Engineering Division, Airborne Instruments Laboratory, Inc., 160 Old Country Rd., Mineola, L.I., N.Y.
Born: July 22, 1907, New York, N.Y. E.E., 1929, M.E.E., 1933, D.E.E., 1941, Polytechnic Institute of Brooklyn. **Committees:** Electronics, 1943–46; Membership, 1938–46. **Awards:** IRE Harry Diamond Memorial Award, 1955.

SAMUEL, Arthur L. (A'24—VA'39—SM'44—F'45), Research Advisor, International Business Machines Corporation, Poughkeepsie, N.Y.
Born: December 5, 1901, Emporia, Kan. A.B., 1923, College of Emporia; S.B., 1925, S.M., 1926, Massachusetts Institute of Technology; D.Sc. (Honorary), 1946, College of Emporia. **Committees:** Annual Review, 1950–51; Editorial Reviewer, 1955–58; Electronics, 1944–45; Electron Tubes, 1946–47; Electron Tubes and Solid State Devices, 1949–54, *vice-chairman, 1950–51, chairman, 1951–52;* Papers Review, 1952–53; Research, 1949–50; Standards, 1951–52; Symbols, 1950–52; Vacuum Tubes, 1945. **Sections:** Mid Hudson Subsection, *chairman, 1951–52.* **Awards:** Paper Award, 1937.

SAMUELSON, Robert E. (SM'45—F'57), Engineering Manager, Motorola, Inc., Western Military Electronics Center, 8201 E. McDowell Rd., Phoenix, Ariz.
Born: February, 1911, St. Paul, Minn. B.Sc.M.E., 1933, University of Minnesota; M.S.(E.E.), 1947, Ph.D.(E.E.), 1949, Northwestern University. **Sections:** Phoenix, *chairman, 1952–53.*

SANDRETTO, Peter C. (A'30—M'40—SM'43—F'54), Vice-President and Technical Director, Federal Telecommunication Laboratories, 500 Washington Ave., Nutley, N.J.
Born: April, 1907, Pont Canavese, Italy. Graduate, 1927, Joliet Junior College; B.S.(E.E.), 1930, E.E., 1938, Purdue University. **Committees:** Annual Review, 1950–51; Board of Editors, 1944–52; Industrial Electronics, 1947–48; Membership, 1940; Navigation Aids, 1946–55, *chairman, 1950–54;* Papers, 1942–44; Papers Procurement, 1942–43; Professional Groups, 1952–54; Regular Papers, 1941; Standards, 1950–54. **Professional Groups:** Aeronautical and Navigational Electronics, 1952–53, *vice-chairman, 1952.* **Sections:** Chicago, *secretary-treasurer, 1940.* **Awards:** Bronze Star, 1945; Brigadier General, U. S. Air Force Reserve, 1950.

SARNOFF, David (A'12—M'14—F'17)(L), Chairman of the Board and Chief Executive Officer, Radio Corporation of America, 30 Rockefeller Plaza, New York, N.Y.; Board Chairman, RCA Communications, Inc.; Director, National Broadcasting Co., Inc.
Born: February 27, 1891, Uzlian, Minsk, Russia. D.Sc. (Honorary), 1927, St. Lawrence University; D.Sc. (Honorary), 1935, Marietta College; D.Lit. (Honorary), 1935, Norwich University; D.C.S. (Honorary), 1938, Oglethorpe University; D.Sc. (Honorary), 1939, Suffolk University; LL.D. (Honorary), 1946, Jewish Theological Seminary; LL.D. (Honorary), 1946, Bethany College; D.C.S. (Honorary), 1948, Boston University; LL.D. (Honorary), 1950, John Carroll University; L.H.D. (Honorary), 1950, University of Louisville; D.Sc. (Honorary), 1952, Pennsylvania Military College; LL.D. (Honorary), 1952, University of Pennsylvania; LL.D. (Honorary), 1953, Fairleigh Dickinson College, D.Eng. (Honorary), 1953, Drexel Institute of Technology; LL.D. (Honorary), 1954, University of Southern California; LL.D. (Honorary), 1954, Pratt Institute; D.Sc. (Honorary), 1955, University of Notre Dame; LL.D. (Honorary), 1955, Fordham University; LL.D. (Honorary), Dropsie College, 1957; LL.D. (Honorary), University of Rhode Island, 1957. **IRE Offices:** Secretary, 1915–17; Director, 1915–17; Manager, 1918–20. **Committees:** Constitutional Amendments, 1915; Financial Matters, 1915; Increase of Membership, 1916–18; Publicity, 1915–19, *chairman, 1916–19;* Wave Length Regulation, 1916–17. **Sections:** San Francisco Representation, 1915. **Awards:** Peter Cooper Medal for Advancement of Science, 1949; Grand Medal of Association des Ingénieurs-Docteurs of France, 1950; National Chairman, 1951, Red Cross Fund Campaign; Appointed Brigadier General, Honorary Reserve, Army of U. S., 1951; Honorary Life Member, Engineers Club of Philadelphia, 1952; Honorary Fellow, Weismann Institute of Science, Rehovoth, Israel, 1952; Member of Honor Société Française des Ingénieurs Téchniciens du Vide, 1953; IRE Founders Award, 1953; First Keynoter Award, National Association of Radio-Television Broadcasters, 1953; Medal of Merit, Liaison Center, Professional Engineers and Inventors of France, 1954; Gold Medal, The Hundred Year Association of New York, 1955; James Forrestal Memorial Medal of National Security Industrial Association, 1956; U. S. Army Medal for Exceptional Civilian Service, 1956; Certificate of Appreciation, Illuminating Engineering Society, 1956; Gold Pin Award, Radio Pioneers, 1957; Life Member (Honorary), IRE, Australia, 1957.

SCHADE, Otto H. (M'40—SM'43—F'51), Staff Engineer, RCA Tube Department, Radio Corporation of America, 415 S. 5 St., Harrison, N.J.
Born: April 27, 1903, Schmalkalden, Germany. Attended Technische Hochschule, Berlin-Carlottenberg, 1922–24; D.E.E. (Honorary), 1953, Renssalaer Polytechnic Institute. **Committees:** Editorial Reviewer, 1954–58. **Awards:** David Sarnoff Gold Medal, 1951; Fellow, Society of Motion Picture and Television Engineers, 1951; Modern Pioneer Award, National Association of Manufacturers, 1940; IRE Morris Liebmann Memorial Prize, 1950; RCA Victor Award of Merit, Radio Corporation of America, 1946.

SCHAIRER, Otto S. (M'43—SM'43—F'57), Consultant, 89 Battle Rd., Princeton, N.J.
Born: October 7, 1879, Saline, Mich. A.B., 1901, B.S.(E.E.), 1902, Honorary Doctor of Engineering, 1942, University of Michigan.

SCHELDORF, Marvel W. (A'36—SM'45—F'58), Engineering Consultant, Andrew Corporation, 363 E. 75 St., Chicago 19, Ill.
Born: February 15, 1902, Westside, Iowa. B.Sc.(E.E.), 1923, Iowa State College. **Committees:** Antennas, 1946–50; Papers Review, 1946–51.

SCHELKUNOFF, Sergei A. (A'40—F'44), Assistant Director of Mathematical Research, Bell Telephone Laboratories, Inc., Murray Hill, N.J.
Born: January 27, 1897, Sumara, Russia. B.A., 1923, M.A., 1923, State College of Washington; Ph.D., 1928, Columbia University. **Committees:** Annual Review, 1947–48; Antennas, 1945–49; Antennas and Wave Guides, 1949–51; Editorial Reviewer, 1954; Papers, 1942–45; Papers Review, 1946; Radio Wave Propagation and Utilization, 1945–47, *chairman, 1947–48;* Standards, 1947–48. **IRE Representative:** ASA Sectional Committee (C61) on Electric and Magnetic Magnitudes and Units, 1949–58. **Awards:** Stuart Ballantine Medal, Franklin Institute, 1949; IRE Morris Liebmann Memorial Prize, 1942.

SCHELLENG, John C. (A'23—M'25—F'28), Retired. Formerly Director of Radio Research, Bell Telephone Laboratories, Inc., Holmdel, N.J.
Born: November 12, 1892, Freeport, Ill. A.B., 1915, Cornell University. **Committees:** Annual Review, 1937–38; Antennas, 1944–49; Antennas and Wave Guides, 1949–50; Awards, 1943; Handbook, 1945–46; Methods of Testing Apparatus, Equipment and Devices, 1929–30; Radio Transmitters, 1945–48; Standardization, 1931–32; Standards, 1936–37; Transmitters, 1944–45; Transmitters and Antennas, 1936–45, *chairman, 1936–38.* **IRE Representative:** ASA Definitions Co-ordinating Committee, 1948; ASA Sectional Committee (C42) on Definitions of Electrical Terms, 1948–50; ASA Subcommittee (C42.13) on Communications, 1948–58; Joint IRE-AIEE-ASA (C42) Definitions Co-ordinating Committee, 1949–51.

SCHLEIMANN-JENSEN, Arne (A'45—SM'47—F'48), Owner, Schleimann-Jensen Laboratoriet, Klingsta Skogsväg 26, Danderyd, Sweden.
Born: July 27, 1906, Randers, Denmark. Radio and Telephone Course, Royal Technical University of Denmark, 1925–31.

SCHLESINGER, Kurt (A'41—SM'51—F'54), Head, Television Research Department, Motorola, Inc., 4545 W. Augusta Blvd., Chicago 51, Ill.
Born: April, 1906, Berlin, Germany. Dipl. Eng., 1928; Doctor of Engineering Physics, 1929, Technische Hochschule, Berlin. **Professional Groups:** Broadcast and Television Receivers, Administrative Committee, 1953–55. **Sections:** Chicago, *vice-chairman, 1953–54.*

SCHMIT, Dominic F. (A'25—M'38—SM'43—F'51), Vice-President, Product Engineering, Radio Corporation of America, Camden, N.J.
Born: August 30, 1902, Port Washington, Wis. B.S.(E.E.), 1923, University of Wisconsin.

SCHMITT, Otto H. (SM'44—F'55), Professor, Zoology and Physics (Biophysics), University of Minnesota, Minneapolis 14, Minn.
Born: April 6, 1913, St. Louis, Mo. B.A., 1934, Ph.D., 1937, Washington University. **Professional Groups:** Medical Electronics, *vice-chairman, 1954–55.* **Awards:** Sigma Xi Award, 1935; National Research Council Fellowship, 1937; Sir Halley Stewart Fellowship, 1938; Government Citation, 1950; Fellow, American Physical Society, 1953.

SCHOLZ, Carl E. (M'26—SM'43—F'56), Vice-President and Chief Engineer, American Cable and Radio Corporation, 67 Broad St., New York 4, N.Y.
Born: November 29, 1894, Campbell, Calif. B.A.(M.E.), 1917, Stanford University. **Committees:** Admissions, 1939, 1944–47; Constitution and Laws, 1938–40; Membership, 1934–40, *chairman, 1938–39;* Sections, 1938–40; Standardization, 1928–29; Tellers, 1941–44, *chairman, 1943–44.* **Awards:** Fellow, American Institute of Electrical Engineers, 1955.

SCHOOLEY, Allen H. (A'35—SM'47—F'54), Associate Director of Research for Electronics, Naval Research Laboratory, Washington 25, D.C. During 1956, Research Adviser, Ministerio da Marinha, Rio de Janeiro, Brazil.
Born: December, 1909, Terril, Iowa. B.S.(E.E.), 1931, Iowa State College; M.S.(E.E.), 1932, Purdue University. **Professional Groups:** Engineering Management, Washington, D.C., Chapter, *vice-chairman, 1953–54, chairman, 1954–55.* **Sections:** Washington, D.C., *secretary, 1955–56, vice-chairman, 1956–57, chairman, 1957–58,* Organizer of Rio de Janeiro, Brazil Section in 1956. **Awards:** Fellow AAAS, 1950; Navy Distinguished Civilian Service Award, 1946.

SCHRADER, Harold J. (A'31—M'38—SM'43—F'54), Staff Engineer, Defense Electronic Products, RCA, Camden, N.J.
Born: May 2, 1900, Schuyler, Neb. Attended University of Nebraska, 1919–23. **Sections:** Philadelphia, *chairman, 1938–39, secretary, 1942–44.*

SCHREIBER, Ernst H. (A'28—M'32—SM'43—F'57), Staff Engineer, Television and Radio Program Services, Pacific Telephone and Telegraph Company, 747 S. Hill St., Los Angeles 55, Calif.
Born: August 22, 1900, Chicago, Ill. A.B. (Physics), 1922, M.A. (Physics), 1923, University of California. **Sections:** Los Angeles, *chairman, 1932–33.*

SCHRENK, Matthew H. (SM'46—F'57), Deputy Development Coordinator, Department of the Navy, Office of Naval Research, 17th St. & Constitution Ave., Washington 25, D.C.
Born: September 6, 1902, Naperville, Ill. B.A., 1922, North Central College; M.A., 1926, Syracuse University. **Professional Groups:** Administrative Committee, Military Electronics, 1957. **Sections:** Washington, *acting vice-chairman, 1952;* Membership Committee, *chairman, 1953.* **Awards:** Presidential Certificate of Merit, 1946; Fellow, American Physical Society, 1952.

SCHROEDER, Alfred C. (A'38—SM'46—F'54), Color Television Research Engineer, RCA Laboratories, Princeton, N.J.
Born: February 28, 1915, West New Brighton, N.Y. B.S., M.S., 1937, Massachusetts Institute of Technology. **Awards:** Radio Corporation of America Laboratory Awards, 1947, 1950, 1951, 1952.

SCHUCK, O. Hugo (A'34—M'44—SM'49—F'57), Director of Aeronautical Research, Minneapolis-Honeywell Regulator Company, 2600 Ridgway Rd., Minneapolis 13, Minn.
Born: September 20, 1909, Philadelphia, Pa. B.S.(E.E.), 1931, M.S.(E.E.), 1932, Elect. Eng., 1938, University of Pennsylvania. **Sections:** Twin Cities, *vice-chairman, chairman, 1947.* **Awards:** Certificate of Appreciation, U. S. Navy, Department of Defense, 1947.

SCHULZ, Elmer H. (A'38—SM'46—F'58), Assistant Director, Armour Research Foundation of Illinois Institute of Technology, 10 W. 35 St., Chicago 16, Ill.
Born: October, 1913, Lockhart, Tex. B.S.(E.E.), 1935, M.Sc. (E.E.), 1936, University of Texas; Ph.D., 1946, Illinois Institute of Technology. **IRE Offices:** Director, 1958. **Committees:** Education, 1945; Industrial Electronics, 1949–56. **Awards:** Fellow, AIEE, 1950.

SCHWARZ, Bertram A. (M'29—SM'43—F'55), Technical Assistant to the General Manager, Delco Radio Division, General Motors Corporation, Kokomo, Ind.
Born: July 16, 1901, Cambridge, Mass.

SCOTT, Hermon H. (M'35—SM'43—F'52), President and Director of Engineering, Hermon Hosmer Scott, Inc., 111 Powdermill Rd., Maynard, Mass.
Born: March 28, 1909, Somerville, Mass. B.S., 1930, M.S., 1931, Massachusetts Institute of Technology. **Committees:** Audio Techniques, 1950–53, *vice-chairman, 1950–52;* Board of Editors, 1950–53; Editorial Reviewer, 1954; Electroacoustics, 1941–46. **Sections:** Boston, *vice-chairman, 1948–49, chairman, 1949–50.* **Awards:** Fellow, Acoustical Society of America; Fellow, Audio Engineering Society; John Potts Memorial Medal, 1951.

SCOTT, James C. W. (M'47—F'57), Chief Superintendent, Telecommunications Establishment, Defense Research Board, Department of National Defense, Ottawa, Ont., Canada.
Born: March 1, 1904, Havre, France. B.Sc., 1930, University of Washington. **Committees:** Wave Propagation, 1956–58. **Sections:** Ottawa, *chairman, 1951.* **Professional Groups:** Canadian National Committee for URSI, *secretary, 1951–53;* Canadian Commission on Ionosphere for URSI, *chairman, 1951–57.*

SCOTT-TAGGART, John (A'18—F'35), Wynwood, Beaconsfield, Buckinghamshire, England.
Born: May 27, 1897, Bolton, Lancashire, England.

SEDDON, Carl J. (A'41—SM'53—F'58), Upper Atmosphere Consultant, Naval Research Laboratory, Washington 25, D.C.
Born: December, 1911, Schenectady, N.Y. B.S.(E.E.), 1933, B.Sc. (Physics), 1934, Union College; M.A., 1936, University of Buffalo. **Awards:** RESA Award in Pure Research, 1956.

SEELEY, Stuart W. (M'40—SM'43—F'43), Director, Industry Service Laboratory, RCA Laboratories Division, Radio Corporation of America, 155 E. 24 St., New York 10, N.Y.
Born: June 23, 1901, Chicago, Ill. B.S.(E.E.), 1925, Michigan State College. **Committees:** Admissions, 1944–48; Awards, 1949; Board of Editors, 1947–53; Circuits, 1944–48; Editorial Reviewer, 1954–58; Education, *chairman, 1958;* Modulation Systems, 1947–51; Professional Groups, 1948; Receivers, 1950–58. **Awards:** Modern Pioneers Award, 1940; War Department Citation, 1947; IRE Morris Liebmann Memorial Prize, 1948.

SEELY, Samuel (A'39—SM'45—F'55), Professor and Head, Department of Electrical Engineering, Case Institute of Technology, Cleveland 6, Ohio.
Born: May 7, 1909, New York, N.Y. E.E., 1931, Polytechnic Institute of Brooklyn; M.S., 1932, Stevens Institute of Technology; Ph.D., 1936, Columbia University. **IRE Offices:** Director, 1957–58. **Committees:** Editorial Reviewer, 1954–57; Education, 1955–57, *chairman, 1957–58;* Papers Review, 1946–57; Policy Advisory, 1957–58. **Sections:** Syracuse, *secretary-treasurer, 1950, secretary, 1951, chairman, 1952.* **IRE Representative:** University of Syracuse, 1949; Joint AIEE-IRE Student Activities Coordination Committee, 1957. **Awards:** Army-Navy Certificate of Appreciation, 1947.

SELVIDGE, Harner (A'31—M'40—SM'43—F'58), Staff Engineer, Bendix Aviation Corporation, 117 E. Providencia St., Burbank, Calif.
Born: October 16, 1910, Columbia, Mo. B.S., 1932, M.Sc., 1933, Massachusetts Institute of Technology; S.M., 1934, S.D., 1937, Harvard University. **Committees:** Papers Review, 1944–53; Professional Groups, 1951–54. **Professional Groups:** Nuclear Science, *chairman, 1950; secretary-treasurer, 1951–53.* **Awards:** Naval Ordnance Development Award, 1945, Navy Department, USN.

SHACKELFORD, Benjamin E. (A'23—M'26—F'38)(L), 743 Mosswood Ave., Orange, N.J.
Born: August 12, 1891, Richmond, Mo. A.B., 1912, A.M., 1913, University of Missouri; Ph.D., 1916, University of Chicago. **IRE Offices:** President, 1948; Director, 1945–50, 1953–55. **Committees:** Appointments, 1948; Awards, 1941, 1943–44, 1950; Bibliography, 1930–31, *chairman, 1930;* Board of Editors, 1937–40; Building Fund, *chairman, 1944–45;* Constitution and Laws, 1946–47, *chairman, 1947;* Convention Policy, 1947–50; Education, 1949; Executive, 1948–49, *chairman, 1948;* Frequency Modulation, 1942–46; Institute Sections, 1929–34, *chairman, 1933;* Meetings and Papers, 1929; National Convention, 1947; New York Program, 1941–42; Nominations, 1949–50; Papers, 1932–36; Papers Procurement, 1942–43; Planning, 1947; Policy Development, 1949–50, *chairman, 1949;* Professional Groups, 1950; Sections, 1943–45, 1949–50; Special Papers, *chairman, 1940–41;* Special Publications Fund, 1947; Standardization, 1931–32; Standards, 1932–33; Winter Technical Meeting, *chairman, 1944.* **IRE Representative:** ASA Sectional Committee on Definition of Electrical Terms, Subcommittee on Vacuum Tubes, 1936, 1939–48; ASA Sectional Committee on Vacuum Tubes for Industrial Purposes, 1936, 1939–48.

SHANK, Robert J. (S'37—A'39—SM'49—F'58). Vice-President, Engineering, Hughes Aircraft Company, Culver City, Calif.
Born: March 19, 1914, LaJunta, Colo. A.B., 1935, Goshen College; B.Sc.(E.E.), 1937, Purdue University. **Sections:** Dayton NCAE, Director, 1955–57. **Professional Groups:** Administrative Committee, Aeronautical and Navigational Electronics, 1956–58; Airborne Electronics, 1951–53.

SHANON, Claude E. (S'36—M'48—SM'49—F'50), Research Mathematician, Bell Telephone Laboratories, Inc., Murray Hill, N.J. Visiting Professor, Massachusetts Institute of Technology, 1956.
Born: April, 1916, Petoskey, Mich. B.S.(E.E.), 1936, University of Michigan; S.M.(E.E.), 1940, Ph.D. (Mathematics), 1940, Massachusetts Institute of Technology. **IRE Representative:** IRE-AIEE Committee on Noise Definitions, 1949–51. **Awards:** Alfred Nobel Prize, AIEE, 1940; IRE Morris Liebmann Memorial Prize, 1949; Stuart Ballantine Medal, Franklin Institute, 1955.

SHARPLESS, William M. (A'28—M'38—SM'43—F'58), Radio Research Engineer, Bell Telephone Laboratories, Inc., P.O. Box 107, Red Bank, N.J.
Born: September, 1904, Minneapolis, Minn. B.Sc.(E.E.), 1928, E.E., 1951, University of Minnesota. **Sections:** New York, Executive Committee, 1956–57. **Professional Groups:** Liaison for Antennas and Propagation, Microwave Theory and Techniques; National Symposium on Microwave Techniques, 1956.

SHAW, George R. (M'40—SM'43—F'54), Chief Engineer, Tube Division, Radio Corporation of America, 415 S. 5 St., Harrison, N.J.
Born: December 13, 1895, Frederick, Md. A.B., 1915, M.A., 1916, Washington and Lee University; Ph.D., 1920, University of Wisconsin.

SHAW, Henry S. (A'17—M'21—F'35)(L), Retired. 3048 Renatta Dr., Largo, Fla.
Born: November 29, 1884, Boston, Mass. A.B., 1906, Harvard University.

SHEA, Richard F. (A'29—M'32—SM 43—F'54), Consulting Engineer-Electronics, Power Plant Equipment, Knolls Atomic Power Laboratory, General Electric Company, Schenectady, N.Y.
Born: September 13, 1903, Boston, Mass. B.S., 1924, Massachusetts Institute of Technology. **Committees:** Admissions, 1947–48; Annual Review, 1950–51; Editorial Reviewer, 1954–58; Papers Review, 1953; Radio Receivers, 1946–56, *vice-chairman, 1948–49, chairman, 1949–51;* Radio Frequency Interference, 1955; Standards, 1949–57, *vice-chairman, 1954–56.* **Sections:** Connecticut Valley, *secretary, 1943, vice-chairman, 1944, chairman, 1945;* Syracuse, *vice-chairman, 1952, chairman, 1953.* **IRE Representative:** ASA Subcommittee (C42.6) on Electrical Instruments, 1958.

SHELDON, John L. (SM'53—F'56), Staff Research Manager, Electrical Products Division, Corning Glass Works, Corning, N.Y.
Born: September, 1904, Battle Creek, Mich. B.S., 1935, Battle Creek College; M.S., 1938, Ph.D., 1940, University of Michigan. **Committees:** Admissions, 1955–56, *chairman, 1957–58.* **Sections:** Elmira-Corning, *vice-chairman, 1953–54, chairman, 1954–55.*

SHEPHERD, James E. (A'36—SM'44—F'48), Manager Electronic Tube Division, Sperry Gyroscope Company, Great Neck, L.I., N.Y.
Born: May 29, 1910, Houston, Tex. A.B.(Physics, E.E.), 1932, M.A.(E.E.), 1933, University of Missouri; M.S., 1935, D.Sc. (Communication Engineering), 1940, Harvard University. **IRE Offices:** Director, 1948–50. **Committees:** Admissions, 1945; Awards, 1951–53; Constitution and Laws, *chairman, 1949–50;* Convention Policy, *chairman, 1947–50;* Membership, 1943; National Convention, 1947–48, *chairman, 1947;* Sections, 1946–52; Tellers, 1946–47; Winter Technical Meeting, *vice-chairman, 1945–46.* **Sections:** New York, *secretary-treasurer, 1943–44, vice-chairman, 1945–47, chairman, 1947–49.*

SHEPHERD, William G. (A'42—SM'49—F'52), Professor and Head, Electrical Engineering, University of Minnesota, Minneapolis 14, Minn.
Born: August 28, 1911, Fort William, Ont., Canada. B.S.(E.E.), 1933, Ph.D., 1937, University of Minnesota. **Committees:** Electron Devices, 1952–56, *vice-chairman, 1954–56;* Electron Tubes, 1955–58; Electron Tubes and Solid State Devices, 1951–52. **Professional Groups:** Electron Devices, Administrative Committee, 1955–58.

SHOCKLEY, William (SM'51—F'55), Director, Shockley Semiconductor Laboratory of Beckman Instruments, Inc., 391 S. San Antonio Rd., Mountain View, Calif.
Born: February 13, 1910, London, England, B.S., 1932, California Institute of Technology; Ph.D., 1936, Massachusetts Institute of Technology; D.Sc.(Honorary), 1955, University of Pennsylvania; D.Sc.(Honorary), 1956, Rutgers University. **Awards:** IRE Morris Liebmann Award, 1952; Medal of Merit, War Department, 1946; Citation of Honor, Air Force Association, 1951; Oliver E. Buckley Solid State Physics Prize, American Physical Society, 1953; Certificate of Appreciation, U. S. Army, 1953; Comstock Prize, National Academy of Sciences, 1954; Nobel Prize in Physics, 1956.

SHOUPP, William E. (SM'45—F'51), Technical Director, Westinghouse Atomic Power Department, P.O. Box 355, Pittsburgh, Pa.
Born: October 5, 1908, Troy, Ohio. B.A., 1931, Miami University; M.A., 1933, Ph.D., 1937, University of Illinois. **Committees:** Nuclear Studies, 1948–50; Papers Procurement, 1949–50; Professional Groups, 1955. **Professional Groups:** Nuclear Science, *chairman, 1956–57.* **IRE Representative:** ASA Nuclear Standards Board. **Sections:** Pittsburgh, *chairman, 1946–47.*

SILING, Philip F. (M'40—SM'43—F'51), Director, RCA Frequency Bureau, 30 Rockefeller Plaza, New York 20, N.Y. and 1625 K St., N.W., Washington 6, D.C.
Born: August 14, 1897, Oil City, Pa. Ph.B., 1917, Yale University. **Committees:** National Convention, *vice-chairman, 1947;* Nominations, 1946; Winter Technical Meeting, 1946. **IRE Representative:** Joint Technical Advisory Committee, 1948–58, *chairman, 1948.*

SILVER, Samuel (M'46—SM'50—F'54), Professor of Engineering Science, and Director of the Electronics Research Laboratory, Division of Electrical Engineering, Cory Hall, University of California, Berkeley 4, Calif.
Born: February, 1915, Philadelphia, Pa. A.B., 1935, M.A. 1937, Temple University; Ph.D.(Physics), 1940, Massachusetts Institute of Technology. **Professional Groups:** Commission on Radio Waves and Circuits, International Scientific Radio Union, *president, 1954–57.* **Sections:** San Francisco, *Director, 1956–58.* **Awards:** Guggenheim Fellowship, John Simon Guggenheim Memorial Foundation, 1953–54.

SILVERMAN, Daniel (A'42—SM'51—F'53), Exploration Research Director, Pan American Petroleum Corporation, P.O. Box 591, Tulsa, Okla.
Born: June 24, 1905, Montreal, P.Q., Canada. B.S., 1927, University of California, M.S., 1929; Sc.D., 1930, Massachusetts Institute of Technology. **Committees:** Papers Procurement, 1947–50. **Sections:** Tulsa, *chairman, 1951–52.* **Awards:** Heller Travelling Fellow, 1928–30, University of California; Medallist, 1927.

SIMON, Emil J. (IRE Charter Member)(M'12—F'15)(L), Consulting Engineer, 50 Church St., New York 7, N.Y.
Born: October 25, 1888, New York, N.Y. Attended Columbia University, 1905–09. **IRE Offices:** Secretary, 1912–14; Director, 1912–14; Manager, 1915. **Committees:** Publicity, 1913, 1915; Specifications for Steamship Radio Equipment, 1914–15; Standardization, 1914–15.

SINCLAIR, Donald B. (J'30—A'33—M'38—SM'43—F'43), Vice-President, General Radio Company, 275 Massachusetts Ave., Cambridge 39, Mass.
Born: May 23, 1910, Winnipeg, Man., Canada. S.B., 1931, S.M., 1932, Sc.D., 1935, Massachusetts Institute of Technology. **IRE Offices:** President, 1952; Treasurer, 1949–50; Director, 1945–54, 1958. **Committees:** Admission, 1948; Antennas, 1944–47; Appointments, *chairman, 1954;* Awards, 1951; Editorial Reviewer, 1955–58; Executive, 1948–50, 1952–53, *vice-chairman, 1949–50, chairman, 1952;* Finance, ex-officio, 1949–50, 1952–53; Membership, 1947–48, 1953–56; National Convention, 1949; Nominations, 1948, 1953–54, *chairman, 1954;* Papers, 1941–45; Papers Procurement, 1945–46; Planning, 1947; Radio Transmitters, 1945–46; Special Publication Fund, 1947; Television, 1940–46; Transmitters, 1944; Transmitters and Antennas, 1941–44. **Professional Groups:** Administrative Committee Engineering Management, 1957. **IRE Representative:** Radio Technical Planning Board, 1947, *alternate, 1946;* Joint IRE-AIEE Co-ordination Committee, 1952 (ex-officio). **Awards:** Fellow, American Institute of Electrical Engineers; President's Certificate of Merit, 1948.

SINCLAIR, George (A'37—SM'46—F'54), Professor (President, Sinclair Radio Laboratories, Ltd.), Electrical Building, University of Toronto, Toronto 12, Ont., Canada.
Born: November, 1912, Hamilton, Ont., Canada. B.Sc., 1933, M.Sc., 1935, University of Alberta; Ph.D., 1946, Ohio State University. **Committees:** Antennas, 1945–49; Antennas and Wave Guides, 1946–57; Awards, 1956–58; Editorial Reviewer, 1954–58; Education, 1951–58; Papers Review, 1951–53; Wave Propagation. 1946–55; Wave Propagation and Utilization, 1946–49. **Professional Groups:** Antennas and Propagation, *chairman, 1951;* Administrative Committee, Microwave Techniques, 1957–58. **IRE Representative:** University of Toronto, 1948–58; Technical Program Committee, Canadian IRE Convention, *chairman, 1956–57;* Canadian IRE Convention, *general chairman, 1958.* **Sections:** Toronto. *vice-chairman, 1950, chairman, 1951.* **Awards:** U. S. War and Navy Departments, Certificate of Appreciation, 1948.

SINNETT, Chester M. (SM'52—F'55), Manager, Advanced Development Engineering Section, RCA-Victor TV Division, Camden 8, N.J.
Born: January 19, 1900, Livermore Falls, Me. B.S.E.E., 1924, University of Maine. **Sections:** Philadelphia, *secretary-treasurer, 1950, chairman, 1952.*

SKELLETT, A. Melvin (M'44—SM'50—F'56), Director of Research, Tung-Sol Electric, Inc., 200 Bloomfield Ave., Bloomfield, N.J.
Born: July 14, 1901, St. Louis, Mo. A.B., 1924, M.S., 1927, Washington University; Ph.D., 1933, Princeton University. **Committees:** Accounting 1949–50; Awards, 1950; Membership, 1949–50; Papers Procurement, 1945–46. **Sections:** Northern New Jersey, *chairman, 1956–57.*

SKIFTER, Hector R. (A'31—M'36—SM'43—F'51), President, Airborne Instruments Laboratory, Mineola, L.I., N.Y.
Born: March 4, 1901, Austin, Minn. B.A., 1922, Sc.D., 1945, Saint Olaf College. **Committees:** Navigation Research and Development Board, *chairman, 1950–51.* **Awards:** Presidential Certificate of Merit, 1947.

SLATTERY, John J. (J'29—A'30—SM'46—F'56), Manager, West Coast Operations, Government and Industrial Divisions, The Magnavox Company, West Los Angeles, Calif.
Born: August 2, 1909, East Orange, N.J. B.S.(E.E.), 1930, Villanova College; M.S.(Physics and Math.), 1949, Stevens Institute of Technology. **Professional Groups:** Engineering Management, *secretary, 1955–56.* **Awards:** Legion of Merit, U. S. Army, 1945.

SLEPIAN, Joseph (SM'45—F'45), Retired. 1115 Lancaster St., Pittsburgh 18, Pa.
Born: February 11, 1891, Boston, Mass. A.B., 1911, A.M., 1912, Ph.D., 1913, Harvard University; Dr. Eng. (Honorary), 1949, Case Institute of Technology; Dr. Sc. (Honorary) 1955, University of Leeds. **Awards:** AIEE Award, 1933; Benjamin Garver Lamme Medal, 1942, AIEE; Edison Medal, 1948, AIEE; John Scott Medal, 1932; Member, National Academy of Science, 1941.

SMALE, J. A. (F'58), Engineer-in-Chief, Cable and Wireless Ltd., London, England.
Born: February 16, 1895, Lydney, England. B.Sc.(E.E.), 1914, Bristol University. **Awards:** Commander of the Order of the British Empire, 1953.

SMITH, Carl E. (A'30—M'39—SM'43—F'55), Proprietor, Carl E. Smith Consulting Radio Engineers, 4900 Euclid Ave., Cleveland 3, Ohio. President, Cleveland Institute of Radio Electronics and Smith Electronics, Inc.
Born: November 18, 1906, Eldon, Iowa. B.S.(E.E.), 1930, Iowa State College; M.S.(E.E.), 1932, E.E., 1936, Ohio State University. **Committees:** Board of Editors, 1946–53; Editorial Reviewer, 1954–58; Industrial Electronics, 1956–58; Professional Groups, 1955. **Professional Groups:** Industrial Electronics, *secretary, 1951–54, vice-chairman, 1954–56, chairman, 1956–57.* **Sections:** Cleveland, *chairman, 1940–41.* **Awards:** War Department Commendation for Exceptional Civilian Service, 1946; Fellow, American Institute of Electrical Engineers, 1956.

SMITH, David B. (A'35—SM'44—F'48), Vice-President, Research, Philco Corporation, Tioga & C. Sts., Philadelphia 34, Pa.
Born: December 3, 1911, Newton, N.J. S.B., 1933, S.M., 1934, Massachusetts Institute of Technology. **IRE Offices:** Director, 1947. **Committees:** Frequency Modulation, 1940–47; Membership, 1949–51; Public Relations, 1947–48; Special Publications Fund, 1947; Television, 1942–49; Television Systems, 1949–58. **Sections:** Philadelphia, *chairman, 1945–46.* **IRE Representative:** IRE-RMA Problem No. 2 Committee.

SMITH, J. Ernest (A'37—SM'47—F'55), Vice-President and Director of Engineering, Datamatic Corporation, 151 Needham St., Newton Highlands 61, Mass.
Born: July 9, 1908, Carrollton, Mo. B.A. 1932, Jamestown College; M.E.E., 1944, Polytechnic Institute of Brooklyn. **Committees:** Annual Review, 1949–50; Membership, 1929–35, 1937–40; Papers Procurement, 1947–48; Papers Review, 1949–53; Radio Transmitters, 1949–50.

SMITH, Newbern (A'41—SM'46—F'52), Research Engineer, University of Michigan Engineering Research Institute, Willow Run Laboratories, Ypsilanti, Mich.
Born: January 21, 1909, Philadelphia, Pa. B.S.(Eng.), 1930, M.S.(Eng.), 1931, Ph.D.(Physics), 1935, University of Pennsylvania. **Committees:** Administrative Committee of the Board of Editors, 1951–53; Board of Editors, 1951–53; Editorial Administrative, 1949–51; Professional Groups, 1948; Standards, 1952–56; Wave Propagation, 1948–56, *chairman, 1952–55.* **Professional Groups:** Antennas and Propagation, *chairman, 1950.* **Awards:** IRE Harry Diamond Memorial Award, 1952.

SMITH, Phillip H. (A'34—SM'46—F'52), Technical Staff, Bell Telephone Laboratories, Inc., Morristown Rd., Whippany, N.J.
Born: April 29, 1905, Lexington, Mass. B.S.(E.E.), 1928, Tufts College. **Committees:** Antennas, 1946–49; Antennas and Wave Guides, 1949–58, *vice-chairman, 1953–54, chairman, 1954–55;* Standards, 1954–56. **Professional Groups:** Antennas and Propagation, *secretary-treasurer, 1953–54.*

SMITH-ROSE, Reginald L. (SM'44—F'44), Director of Radio Research, Department of Scientific and Industrial Research, Radio Research Station, Ditton Park, Slough, Buckinghamshire, England.
Born: April 2, 1894, London, England. B.Sc., 1914, M.Sc., 1922, Ph.D., 1923, D.Sc., 1926, Imperial College of Science and Technology. **IRE Offices:** Vice-President, 1948; Director, 1948. **Committees:** Radio Wave Propagation, 1944–45; Radio Wave Propagation and Utilization, 1945–49; Wave Propagation, 1949–58. **IRE Representative:** IRE-IEE International Liaison Committee, 1955–58. **Awards:** Student Premium, 1917; Wireless Premium, 1925, 1938, 1939; Duddell Premium, 1942, Institution of Electrical Engineers, London; Coronation Medal, 1937, 1953; United States Medal of Freedom with Silver Palm, 1947; Fellow, City and Guilds Institute, 1951; Commander of the Order of the British Empire, 1952.

SMULLIN, Louis D. (S'39—A'40—SM'51—F'57), Associate Professor Electrical Engineering, Massachusetts Institute of Technology, 77 Massachusetts Ave., Cambridge, Mass.
Born: February 5, 1916, Detroit, Mich. B.S.(E.E.), 1936, University of Michigan; M.S., 1939, Massachusetts Institute of Technology. **Committees:** Editorial Reviewer, 1954–58. **Awards:** Army-Navy Certificate of Appreciation, 1948.

SMYTH, John B. (SM'52—F'56), Smyth Research Associates, 3555 Aero Court, San Diego 11, Calif.
Born: June 8, 1914, Pembroke, Ga. B.S., 1934, M.S., 1937, University of Georgia; Ph.D., 1942, Brown University. **Committees:** Wave Propagation, 1956–58. **Professional Groups:** Antennas and Propagation, Editor of *Transactions,* 1957–58. **Awards:** Electronics Achievement Award, Seventh Region, IRE, 1954.

SNOW, Harold A. (A'24—VA'39—F'56), Senior Project Engineer, Federal Telecommunication Laboratories, Inc., 500 Washington Ave., Nutley, N.J.
Born: October, 1898, Santa Barbara, Calif. B.S.(E.E.), 1921, George Washington University.

SORIA, Rodolfo M. (S'38—A'43—M'46—SM'49—F'58), Vice-President, Engineering, Amphenol Electronics Corporation, 1830 S. 54 Ave., Chicago 50, Ill.
Born: May 16, 1917, Berlin, Germany. B.S.(E.E.), 1939, M.S.,(E.E.), 1940, Massachusetts Institute of Technology; Ph.D.(E.E), 1947, Illinois Institute of Technology. **Committees:** Antennas and Waveguides, 1950–51. **Sections:** Chicago, *treasurer, 1954–55; vice-chairman, 1955–56; chairman, 1956–57.* **Professional Groups:** Component Parts, Administrative Committee, 1955–58, *chairman, 1956–58.* **IRE Representative;** National Electronics Conference, 1952–54; International Electrotechnical Commission, Advisor on high frequency cables and connectors, Philadelphia, 1954.

SOUTHWORTH, George C. (M'26—F'41), Technical Consultant, 19 Williams Rd., Chatham, N.J.
Born: August 24, 1890, Little Cooley, Pa. B.S., 1914, Grove City College; Ph.D., 1923, Yale University; Sc.D.(Honorary), 1931, Grove City College. **Committees:** Circuit Elements, 1928–29; Meetings and Papers, 1930; Papers, 1931–34; Standardization, 1928. **Awards:** Louis Levy Medal, Franklin Institute, 1946; IRE Morris Liebmann Memorial Prize, 1938; Stuart Ballantine Medal, Franklin Institute, 1947.

SPANGENBERG, Karl R. (A'34—SM'45—F'49), Professor, Electrical Engineering; Associate Director, Electronics Research Laboratory, Stanford University, Stanford, Calif.
Born: April, 1910, Cleveland, Ohio. B.S.(E.E.), 1932, M.S.(E.E.), 1933, Case Institute of Technology; Ph.D., 1937, Ohio State University. **Committees:** Awards, 1950; Education, 1946, 1949–51; Electron Tubes, 1955; Membership, 1941; Papers, 1943–45; Papers Procurement, 1942–43, 1945; Regular Papers, 1941. **Sections:** San Francisco, *secretary, 1940–42, chairman, 1943–44.* **IRE Representative:** Stanford University, 1942–47.

SPEAKMAN, Edwin A. (A'43—M'44—SM'48—F'54), Vice-President and General Manager, Fairchild Guided Missiles Division, Wyandanch, L.I., N.Y.
Born: August 14, 1909, Gratz, Pa. B.S., 1931, Haverford College. **Committees:** IRE Symposium on Components, Planning Committee, 1950. **Professional Groups:** Military Electronics, National Administrative Committee, 1955–57. **Awards:** Associate Fellow, Institute of Aeronautical Sciences, 1953; Naval Civilian Service Award, 1947; Naval Citation, U. S. Navy, 1948.

SPENCER, Percy L. (A'53—SM'53—F'55), Senior Vice-President and General Manager, Microwave and Power Tube Division, Raytheon Manufacturing Company, Waltham 54, Mass.
Born: July 9, 1894, Howland, Me. Sc.D.(Honorary) 1950, University of Massachusetts. **Awards:** Naval Ordnance Development Award, 1945; USN Certificate of Commendation, 1947; USN Distinguished Public Service, 1949; Fellow, American Academy of Arts and Sciences, 1955.

SPITZER, Edwin E. (A'28—M'38—SM'43—F'56), Manager, Engineering, Industrial Tube Products, Radio Corporation of America, Lancaster, Pa.
Born: February, 1905, Fitchburg, Mass. B.S., 1926, M.S., 1927, Massachusetts Institute of Technology. **Committees:** Papers Review, 1946–52. **Sections:** Lancaster Subsection, *vice-chairman, 1950–51, chairman, 1951–52.*

STEEL, W. Arthur (M'19—SM'43—F'50)(L), Director, Standard Telephones and Cables Manufacturing Company, Ltd., 9600 St. Lawrence Blvd., Montreal, P.Q., Canada.
Born: November, 1890, Castleton, Ont., Canada. B.A.Sc., 1915, Toronto University. **Committees:** Broadcast, 1936–37. **Sections:** Ottawa, *chairman, 1945–46.*

STEEN, Jerome R. (A'36—M'36—SM'43—F'50), Division Manager of Quality Control, Sylvania Electric Products, Inc., 100 Sylvan Rd., Woburn, Mass.
Born: June 29, 1901, West Bloomfield, N.Y. B.S.(E.E.), 1923, University of Wisconsin. **Committees:** Annual Review, 1948–49; Editorial Reviewer, 1954–58; Electron Tubes, 1946–47; Electronics, 1944–45; Instruments and Measurements, 1949–50; Measurements and Instrumentation, 1950–55; Papers Review, 1948–55; Professional Groups, 1950–52; Standards, 1948–51; Symbols, 1945–47; Vacuum Tubes, 1945–46. **IRE Representative:** ASA Sectional Committee (C67) on Standardization of Voltages—Preferred Voltages—100 Volts and Under, 1951–53 (No IRE Voting Representative; Liaison, 1954, 1958). **Awards:** Fellow, American Society for Quality Control.

STERLING, George E. (M'41—SM'43—F'49), Communications and Electronics Engineering Consultant, Peak's Island, Portland, Me. Federal Communications Commission Commissioner, Retired.
Born: June 21, 1894, Portland, Me.

STEVENS, Archie M. (A'12—M'25—F'31)(L), Radio Engineer, 539 Prospect Ave., Mamaroneck, N.Y.
Born: September 22, 1887, Glidden, Iowa. A.B., 1909, Leland Stanford Junior University. **Sections:** Buenos Aires, *chairman, 1940.*

STODDART, Richard R. (SM'45—F'58), President, Stoddart Aircraft Radio Co., Inc., 6644 Santa Monica Blvd., Hollywood 38, Calif.
Born: December 1, 1900, New York, N.Y.

STONE, Ellery W. (A'14—M'16—F'24), Rear Admiral, United States Naval Reserve; President and Director, American Cable and Radio Corporation; President and Director, All America Cables and Radio, Inc.; President and Director, The Commercial Cable Company; President and Director, Mackay Radio and Telegraph Company; Vice-President and Director, International Telephone and Telegraph Corporation; Director, International Marine Radio Company, Ltd., (England). 67 Broad St., New York, N.Y.
Born: January 14, 1894, Oakland, Calif. **Committees:** Meetings and Papers, 1930; Membership, 1925. **Awards:** Grand Officer, Crown of Italy, 1944; United States Army Distinguished Service Medal, 1945; Knight Commander of the British Empire, 1945; Knight of Grand Cross of St. Maurice and St. Lazarus, Italian Government, 1945; Knight of Grand Cross, San Marino, 1946; United States Navy Distinguished Service Medal, 1946; Marconi Medal of Achievement, VWOA, 1953.

STRAITON, Archie W. (M'47—SM'49—F'53), Professor of Electrical Engineering and Director, Electrical Engineering Research Laboratory, Department of Electrical Engineering, University of Texas, Austin, Tex.
Born: August, 1907, Arlington, Tex. B.S.(E.E.), 1929, M.A., 1931, Ph.D., 1939, University of Texas. **IRE Offices:** Director, 1953–54. **Committees:** Appointments, 1954; Awards, 1956–58; Editorial Reviewer, 1955–58; Education, 1955–58; Nominations, 1953–54. Policy Advisory, 1953–54; Wave Propagation, 1949–58. **IRE Representative:** University of Texas, 1947–50.

STRATTON, Julius A. (M'42—SM'43—F'45), Chancellor and Acting President, Massachusetts Institute of Technology, Cambridge 39, Mass.
Born: May 18, 1901, Seattle, Wash. S.B., 1923, S.M., 1925, Massachusetts Institute of Technology; Sc.D., 1927, Technische Hochschule, Zurich, Switzerland; D.Eng.(Honorary) 1955, New York University; D.Sc. (Honorary), 1957, St. Francis Xavier University; LL.D.(Honorary), 1957, Northeastern University. **IRE Offices:** Director, 1948–51, 1954. **Committees:** Annual Review, 1945–46; Appointments, 1948; Board of Editors, 1946–53; Editorial Board, 1954–55; Education, 1945; IRE-IEE International Liaison, 1949, 1958; Membership, 1947–48; Policy Development, 1949–51; Professional Groups, 1954; Radio Wave Propagation and Utilization, 1945–48, *chairman, 1945–47;* Standards, 1945–46. **Awards:** Presidential Medal for Merit, 1946; IRE Medal of Honor, 1957.

STRONG, Charles E. (A'25—M'27—SM'43—F'49), Chief Radio Engineer, Standard Telephones and Cables, Ltd., Oakleigh Rd., New Southgate, N. 11, London, England.
Born: November, 1898, Omagh, Tyrone County, Northern Ireland. B.A., 1922, Trinity College, Dublin; B.A.I., 1922, University of Dublin. **Awards:** Officer of the Order of the British Empire, 1947.

STRUTT, Max J. O. (SM'46—F'56), Professor, Director, Institute of Advanced Electrical Engineering, Swiss Federal Institute of Technology, Zurich, Switzerland.
Born: October, 1903, Surakarta, Java, Indonesia. E.E., 1926, D.Tech.Sc., 1927, Institute of Technology, Delft, Holland. **Awards:** Doctor honoris causa, Institute of Technology, Karlsruhe, Germany, 1950; Gauss Medal, Brunswick (Germany) Society of Sciences, 1954; Honorary Member, Brunswick Society of Sciences, 1955.

SUITS, Chauncey G. (SM'55—F'56), Vice-President, Director of Research, General Electric Company, The Knolls, Schenectady, N.Y.
Born: March 12, 1905, Oshkosh, Wis. B.A., 1927, University of Wisconsin; D.Sc., 1929, Nat. Technische Hochschule, Zurich, Switzerland; D.Sc.(Honorary), 1944, Union College; D.Sc.(Honorary), 1946, Hamilton College, D.Eng.(Honorary), 1950, Rensselaer Polytechnic Institute; D.Sc.(Honorary), 1955, Drexel Institute of Technology. **Awards:** America's Young Man Award, 1940; His Majesty's Medal for Service in the Cause of Freedom, 1948; Medal for Merit, U. S. Government, 1948; Silliman Lecturer, Yale University, 1952.

SULZER, Peter G. (A'46—M'55—SM'56—F'58), Consulting Engineer, 5526A Dorsey Lane, Washington 16, D.C.
Born: August 3, 1922, Media, Pa. B.S.(E.E.), 1948, M.Sc.(E.E.), 1949, Pennsylvania State College.

SUNSTEIN, David E. (M'44—SM'51—F'58), President, General Atronics Corporation; Vice-President, Atronic Products, Inc., One Bala Ave., Bala-Cynwyd, Pa.
Born: July 29, 1918, Pittsburgh, Pa. B.S.(E.E.), 1940, Massachusetts Institute of Technology. **Committees:** Editorial Reviewer, 1955–58. **Awards:** Army-Navy Individual Merit Certificate, U. S. Navy, 1945.

SWINYARD, William O. (A'37—M'39—SM'43—F'45), Vice-President and Chief Engineer, Hazeltine Research, Inc., 5443 W. Diversey Ave., Chicago 39, Ill.
Born: July 17, 1904, Logan, Utah. B.S., 1927, Utah State University. **IRE Offices:** Director, 1945–46. **Committees:** Annual Review, 1947–48; Education, 1945–48; National Convention, 1947; Radio Receivers, 1946–54, 1954–56, *chairman, 1946–48, vice-chairman, 1956–57;* Sections, 1945–50, *chairman, 1946–47;* Standards, 1947–48. **IRE Representative:** National Electronics Conference, *president, 1946; chairman of the board, 1947;* TASO Panel 2, *chairman.* **Sections:** Chicago, *secretary 1943–44; chairman, 1944–45.*

SYKES, Roger A. (A'41—M'42—SM'43—F'57), Transmission Apparatus Engineer, Bell Telephone Laboratories, Inc., Whippany Rd., Whippany, N.J.

Born: February 17, 1908, Windsor, Vt. B.S., 1929, M.S., 1930, Massachusetts Institute of Technology; 1930–34, Columbia University. Committees: Piezoelectric Crystals, 1945–48, *vice-chairman, 1948–51, chairman, 1951–56,* 1957; Standards, 1951–54.

SZEGHO, Constantin S. (A'41—SM'51—F'52), Vice-President In Charge of Research, The Rauland Corporation, 4245 N. Knox Ave., Chicago 41, Ill.
Born: March 15, 1905, Hungary. Dr. of Engineering, 1932, Institute of Technology, Aachen, Germany; E.E., 1928, Institute of Technology, Munich, Germany. **Committees:** Papers Review, 1952–53.

SZIKLAI, George C. (A'41—M'43—SM'43—F'55), Assistant to the Vice-President, Engineering, Westinghouse Electric Corporation, Pittsburgh 30, Pa.
Born: July 9, 1909, Budapest, Hungary. Absolutorium, 1928, University of Budapest. **Committees:** Administrative Committee of the Board of Editors, 1951–53; Board of Editors, 1951–53; Editorial Administrative, 1951–53; Editorial Reviewer, 1954–58; Papers Review, 1949–50. **Sections:** Princeton, *secretary-treasurer, 1953–54, vice-chairman, 1954–55, chairman, 1955–56.* **Awards:** Radio Corporation of America Laboratories Awards, 1947, 1951, 1952.

TANK, Franz (A'31—F'49), Professor of High-Frequency Techniques and Physics, Swiss Federal Institute of Technology, Sternwartstrasse 7, Zurich, Switzerland.
Born: March, 1890, Zurich, Switzerland. Ph.D., 1915, University of Zurich; Rector, Swiss Federal Institute of Technology, 1943–47; President, Swiss National Committee URSI, 1950; President, Swiss Electrotechnical Institution, 1952. **IRE Offices:** Vice-President, 1955; Director, 1955.

TANNER, Robert H. (A'38—SM'48—F'58), Assistant Superintendent, Development Engineering, Northern Electric Company, Ltd., 250 Sidney St., Belleville, Ont., Canada.
Born: July 22, 1915, London, England. B.Sc., 1935, Imperial College of Science, University of London.

TAYLOR, A. Hoyt (M'16—F'20)(L), Retired. 691 W. 12 St., Claremont, Calif.
Born: January 1, 1879, Chicago, Ill. B.S., 1902, Northwestern University; Ph.D., 1909, University of Göttingen, Germany; D.Sc.(Honorary), 1953, University of North Dakota. **IRE Offices:** President, 1929; Director, 1929–31. **Committees:** Awards, 1928–31: Institute Sections, 1928; Meetings and Papers, 1928. **Sections:** Washington, *chairman, 1919–28.* **Awards:** John Scott Medal and Premium, Board of City Trustees, Philadelphia, 1942; Presidential Medal of Merit, 1944; IRE Morris Liebmann Memorial Prize, 1927; IRE Medal of Honor, 1942, Pioneer Award, Professional Group on Aeronautical and Navigational Electronics, 1952.

TAYLOR, Charles H. (M'13—F'15)(L), 390 Riverside Dr., New York 25, N.Y.
Born: August 22, 1875, Uxbridge, Middlesex, England. **Committees:** Antenna Terminology, *chairman, 1924–25;* Membership, 1925; Sections, 1925; Standardization, 1914–21, 1924–25.

TEAL, Gordon K. (SM'53—F'56), Assistant Vice-President, Director of Research, Texas Instruments, Inc., 6000 Lemmon Ave., Dallas 9, Tex.
Born: January 10, 1907, Dallas, Tex. A.B., 1927, Baylor University; Sc.M., 1928, Ph.D., 1931, Brown University. **Committees:** Editorial Board, 1958; Editorial Reviewer, 1955–58; Section Publications, *chairman, 1957.* **Sections:** Dallas-Fort Worth, *secretary, 1953–54, vice-chairman, 1955–56;* Dallas, *chairman, 1956–57.*

TEARE, Benjamin R., Jr. (A'41—SM'45—F'51), Dean, College of Engineering and Science, Carnegie Institute of Technology, Pittsburgh, Pa.
Born: January, 1907, Menomonie, Wis. B.S.(E.E.), 1927, M.S., 1928, University of Wisconsin; D.Eng., 1937, Yale University. **Committees:** Education, 1944. **Sections:** Pittsburgh, *vice-chairman, 1942–43; chairman, 1943–44.* **IRE Representative:** Carnegie Institute of Technology, 1944–45. **Awards:** George Westinghouse Award, American Society for Engineering Education, 1947.

TELLEGEN, B. D. H. (SM'52—F'55), Scientific Advisor, Philips Research Laboratories, Eindhoven, Netherlands; Professor, Electrical Engineering, Technical University, Delft, Netherlands.
Born: June 24, 1900, Winschoten, Netherlands. E.E., 1923, Technical University, Delft, Netherlands. **Awards:** Honorary Member, Netherlands Radio Institution, 1951; Honorary Life Member, Institution of Radio Engineers, Australia, 1953; Gold Research Medal, Royal Netherlands Institution of Engineers, 1954.

TERMAN, Frederick E. (A'25—F'37), Provost and Dean of School of Engineering, Stanford University, Stanford, Calif.
Born: June 7, 1900, English, Ind. A.B., 1920, Engineer, 1922, Stanford University; Sc.D., 1924, Massachusetts Institute of Technology; Sc.D.(Honorary), 1945, Harvard University; Sc.D. (Honorary), 1950, University of British Columbia; 1955, Syracuse University. **IRE Offices:** President, 1941; Vice-President, 1940; Director, 1940–43, 1948–49. **Committees:** Admissions, 1940; Annual Review, 1946–47; Appointments, 1949; Awards, 1940, 1942–43; Constitution and Laws, 1944–47; Education, 1949–50; Handbook, 1945–48; Membership, 1939–40, 1942, 1949–50; *chairman, 1942;* Nominations, 1943, 1948–49, 1951, 1953, 1955, *chairman, 1951;* Policy Development, 1948–50; Professional Groups, 1948; Research, *chairman, 1945–49;* Standards, 1934–41, 1946–7. **Sections:** San Francisco, *secretary, 1931–32, chairman, 1939–40.* **IRE Representative:** Stanford University, 1941; National Research Council, Division of Engineering and Research, 1943–46. **Awards:** Medal of Honor, Institute of Radio Engineers, 1950.

THAYER, Gordon N. (SM'47—F'51), Vice-President, Operations, Ohio Bell Telephone Company, 750 Huron Rd., Cleveland 15, Ohio.
Born: October 6, 1908, Delta, Colo. Stevens Institute of Technology, 1926–30, M.E., 1946.

THOMAS, Henry P. (A'39—VA'39—M'44—SM'47—F'51), Engineer, Communication Products Department, General Electric Company, Syracuse, N.Y.
Born: May, 1904, Boston, Mass. B.A., 1925, M.S., 1927, Harvard University. **Committees:** Editorial Reviewer, 1954–58; Papers Review, 1946–53; Radio Wave Propagation, 1942–46; Wave Propagation, 1940–41. **Awards:** Coffin Award, General Electric Company, 1948.

THOMPSON, Leland E. (A'35—SM'44—F'57), Engineer, Radio Corporation of America, Camden, N.J.
Born: September 18, 1905, Creighton, Neb. B.S.(E.E.), 1929, University of South Dakota.

TINUS, William C. (A'31—M'36—SM'43—F'51), Vice-President, Bell Telephone Laboratories, Inc., Whippany, N.J.
Born: October 18, 1905, Chicago, Ill. B.S.(E.E.), 1928, Dr. of Engineering (Honorary), 1954, Texas Agricultural and Mechanical College. **Committees:** Board of Editors, 1946–53.

TOLMIE, John R. (J'15—A'18—M'32—SM'43—F'55), Retired. 1624 Boren Ave., Seattle, Wash. Formerly Staff Supervisor, Pacific Telephone & Telegraph Co.
Born: March 19, 1897, Seattle, Wash. B.S.(E.E.), 1919, M.S. (E.E.), 1923, University of Washington. **Sections:** Seattle, *secretary, 1919–20, chairman, 1923–24.*

TOTH, Emerick (SM'48—F'58), Head of Radio Techniques Branch, U. S. Naval Research Laboratory, Washington 25, D.C.
Born: June, 1905, New York, N.Y. B.S.(E.E.), 1927, Newark College of Engineering. **Awards:** Meritorious Civilian Service Award, USN, 1946.

TOWN, George R. (A'37—SM'44—F'50), Executive Director, Television Allocations Study Organization, 808 Warner Bldg., 13 & E Sts., N.W., Washington, D.C.
Born: May 26, 1905, Poultney, Vt. E.E., 1926, D.Eng., 1929, Rensselaer Polytechnic Institute. **IRE Offices:** Director, 1949–53.

Committees: Appointments, 1952; Awards, 1948–49; Education, 1945–48; Frequency Modulation, 1946–47; Membership, 1953–55; Papers Procurement, 1947–50. **Sections:** Rochester, *secretary, 1942–44, chairman, 1944–46.*

TOWNER, Orrin W. (A'24—M'29—SM'43—F'58), Director of Engineering, WHAS, Inc., 525 W. Broadway, Louisville 2, Ky.
Born: March 29, 1903, Peterson, Iowa. A.A.(Eng.), 1924, Jr. College of Kansas City; B.Sc.(E.E.), 1927, E.E., 1933, University of Kansas. **Committees:** Broadcast Transmission Systems Group, *chairman, 1949.* **Awards:** Presidential Certificate of Merit, 1948.

TRAVIS, Irven (SM'46—F'53), Vice-President of Research and Engineering, Burroughs Corporation, 6071 Second Ave., Detroit 32, Mich.
Born: March, 1904, McConnellsville, Ohio. B.S.(E.E.), 1926, Drexel Institute of Technology; M.S.(E.E.), 1928, Sc.D.(E.E.), 1938, University of Pennsylvania. **Committees:** Fellow, 1958: **Sections:** Philadelphia, *vice-chairman, 1933–34.* **Awards:** Alumni Citation, Drexel Institute of Technology; Commendation, U. S. Navy, 1946.

TREVOR, Bertram A. (A'29—M'38—SM'43—F'53), Engineer, Member of Technical Staff, Radio Corporation of America, Princeton, N.J.
Born: February, 1906, Ithaca, N.Y. E.E., 1928, Cornell University. **Committees:** Frequency Modulation, 1946–47; Membership, 1943–46; Modulation Systems, 1947–52; *vice-chairman, 1948–50, chairman, 1950–51;* Papers Review, 1946–53; Standards, 1950–51.

TUPPER, Bertram R. (A'36—SM'46—F'54), Chief Engineer of the British Columbia Telephone Company, 1955 Wylie St., Vancouver 10, B.C., Canada.
Born: April 15, 1906, Vancouver, B.C., Canada. B.S., 1928, University of British Columbia. **Sections:** Vancouver, *chairman, 1950.*

TURNER, George S. (A'22—M'28—SM'43—F'57), Chief, Field Engineering and Monitoring Bureau, Federal Communications Commission, Washington 25, D.C.
Born: June 25, 1900, Independence, Mo. L.L.M., 1939, Atlanta Law School. **Committees:** Membership, 1927. **Sections:** Atlanta, *secretary, 1938–39, vice-chairman, 1940.*

TURNER, Hubert M. (A'14—M'30—F'37)(L), Associate Professor-Emeritus of Electrical Engineering, Yale University, New Haven, Conn.
Born: July 20, 1882, Hillsboro, Ill. B.S., 1910, M.S., 1915, University of Illinois. **IRE Offices:** President, 1944; Director, 1933–46. **Committees:** Admission, 1936, 1939–43, *chairman, 1941–42;* Annual Review, 1937–40, 1943–44; Awards, 1934, 1938–41, *chairman, 1934, 1940;* Bibliography, 1930–31; Circuit Elements, *chairman, 1927–28;* Constitution and Laws, 1936–43, *chairman, 1936–40;* Executive, *chairman, 1944;* Investments, 1944–46; Meetings and Papers, 1929; Nominations, 1938, 1941, 1945, *vice-chairman, 1945;* Papers, 1932–44; Papers Procurement, 1942–43; Preparedness, 1940–41; Regular Papers, 1941; Sections, 1952; Standardization, 1926–32; Standards, 1932–38, 1940–48; Symbols, 1940–44, 1946–48, *chairman, 1940–45;* Tellers, 1940. **IRE Representative:** Yale University, 1941–47; ASA Subcommittee on Letter Symbols for Radio, 1936–54; ASA Electrical Standards Committee 1939–46; ASA Sectional Committee (C-18) on Specifications for Dry Cells and Batteries, 1936–51; ASA Subcommittee on Communication Symbols of Sectional Committee on Graphical Symbols and Abbreviations for Use on Drawings, 1939–48; ASA Sectional Committee (Y-10) on Letter Symbols, *chairman, 1940–58;* United States National Committee of the International Electrotechnical Commission, 1944–48; Technical Advisor, U. S. National Committee, International Electrotechnical Commission, Letter Symbols, 1946–57; Chief Delegate, United States National Committee on Letter Symbols for Electrical Quantities, International Electrotechnical Commission, Paris, France, 1950; Philadelphia, 1954; Stockholm, 1958; United States Paper Committee, World Power Conference, London, 1950.

TUSKA, Clarence D. (A'14—M'41—SM'43—F'57), Staff Consultant, Patents, Radio Corporation of America, David Sarnoff Research Center, Princeton, N.J.
Born: August 15, 1896, New York, N.Y. B.S., 1919, Trinity College; L.L.B., 1934, La Salle Extension University.

TUTTLE, W. Norris (A'26—SM'46—F'49), Engineering Consultant, General Radio Company, 22 Baker Ave., West Concord, Mass.
Born: March 29, 1902, Croton-on-Hudson, N.Y. A.B., 1924, S.M. (Electrical Communication Engineering), 1926, Ph.D. (Physics), 1929, Harvard University. **Committees:** Annual Review, 1949–51; Circuits, 1944–58, *chairman, 1949–51;* Editorial Board, 1954–58; Education, 1953–58; Papers Review, 1948–52; Policy Development, 1948–50; Standards, 1949–51. **Awards:** Medal of Freedom, War Department, 1946.

TUVE, Merle A. (A'45—F'45), Director, Department of Terrestrial Magnetism, Carnegie Institution of Washington, 5241 Broad Branch Rd., N.W., Washington 15, D.C.
Born: June 27, 1901, Canton, S.D. B.S., 1922, A.M., 1923, University of Minnesota; Ph.D., 1926, Johns Hopkins University; D.Sc., 1948, Case Institute; D.Sc., 1949, Kenyon College; D.Sc., 1949, Williams College; D.Sc., 1950, Johns Hopkins University; D.Sc., 1953, University of Alaska. **Awards:** Fellow, American Physical Society; American Academy of Arts and Sciences; National Academy of Sciences; American Philosophical Society; American Association for the Advancement of Science Prize, 1931; Presidential Medal for Merit, 1946; Research Corporation Award, 1947; John Scott Award, 1948; Comstock Prize, 1949; Commander of the Order of the British Empire, 1949; Howard N. Potts Medal, Franklin Institute, 1950; Outstanding Achievement Medal, University of Minnesota, 1950.

TYSON, Benjamin F. (S'36—A'39—VA'39—SM'49—F'58), Engineering Manager, Sylvania Electric Products, Inc., 208-20 Willets Point Blvd., Bayside, L.I., N.Y.
Born: November 18, 1913, Chatham, N.J. M.E., 1935, M.Sc., 1937, Stevens Institute of Technology. **Committees:** Tellers, 1954–56, *chairman, 1955;* Video Techniques, 1951–55. **Awards:** Certificate of Commendation, Bureau of Ships, U.S.N., 1947.

ULLRICH, Edward H. (M'26—F'39), Standard Telephones and Cables, Ltd., Connaught House, Aldwych, London, W.C.2, England.
Born: December 8, 1894, Cardiff, Wales. Mechanical Sciences Tripos, 1921, Christ's College, Cambridge, England. **Committees:** Membership, 1927. **Awards:** Institution Premium, Institution of Electrical Engineers, 1936.

ULREY, Dayton (A'28—M'40—SM'43—F'50), Consultant, 324 Suwanee Ave., Ballantine Manor, Sarasota, Fla.
Born: September, 1884, North Manchester, Ind. B.A., 1911, M.A., 1912, Indiana University; Ph.D., 1917, Stanford University. **Committees:** Electronics, 1936–37; Papers, 1940–45; Papers Review, 1946–52.

VAN ATTA, Lester C. (M'42—SM'43—F'52), Head, Technical Information and Education, Hughes Aircraft Company, Culver City, Calif.
Born: April 18, 1905, Portland, Ore. B.A., 1927, Reed College; M.S., 1929, Ph.D., 1931, Washington University. **Committees:** Antennas, 1945–48, *vice-chairman, 1948–49;* Antennas and Waveguides, 1949–51, *chairman, 1949–50, 1950–51;* Awards, 1953; Editorial Reviewer, 1954–58; Membership, 1953; Papers Review, 1951–53; Professional Groups, 1951–58, *vice-chairman, 1953;* Research, 1946–47, 1949–51; Standards, 1949–51. **Professional Groups:** Antennas and Propagation, Administrative Committee, 1951–55, *chairman, 1949–50.*

VAN DER POL, Balthasar (M'20—F'29)(L), Director, International Radio Consultative Committee (C.C.I.R.), Palais Wilson, Geneva, Switzerland. Retired. 10 Zydeweg, Wassenaar, Netherlands.
Born: January 27, 1889. D.Sc., 1919, Utrecht. **IRE Offices:** Vice-

President, 1934; Director, 1945. **Committees:** Electronics, 1936–41; Meetings and Papers, 1929; Wave Propagation, 1937–40. **Awards:** Honorary Member, Netherlands Radio Society, 1920; Knight, Order of the Orange Nassau, 1927; IRE Medal of Honor, 1935; Knight, Order of the Netherlands Lion, 1946; Member, Dutch Royal Society, 1946; Honorary President, Union Radio-Scientifique Internationale (U.R.S.I.), 1952; Valdemar Poulsen Gold Medal, Danish Academy of Technical Sciences, 1953; Doctor, honoris causa, Technical University, Warsaw, 1956.

VAN DER ZIEL, Aldert (SM'49—F'56), Professor of Electrical Engineering, University of Minnesota, Minneapolis 14, Minn.
Born: December 12, 1910, Zandeweer, Groningen, Netherlands. B.A. (Physics and Math.), 1930, M.A. (Physics and Math.), 1933, Ph.D. (Physics and Math.), 1934, University of Groningen.

VAN DEUSEN, George L. (SM'46—F'58), Major General, U. S. Army, Retired. Consultant, RCA Institutes, Inc., 350 W. 4 St., New York 14, N.Y.
Born: February 10, 1888, Passaic, N.J. B.Sc., 1909, United States Military Academy; M.Sc., 1921, Yale University. **Committees:** Annual Review, 1950–52. **Awards:** Distinguished Service Medal, U. S. Army, 1946.

VAN DYCK, Arthur F. (IRE Charter Member) (A'12—M'18—F'25)(L), Retired, 516 Bougainvillea Lane, Vero Beach, Fla.
Born: May 20, 1891, Stuyvesant Falls, N.Y. Ph.B., 1911, Yale University. **IRE Offices:** President, 1942; Manager, 1930–32; Director, 1932–35, 1939–44. **Committees:** Admissions, 1930–34, 1937–40, 1943, *chairman, 1932–33, 1940 1943;* Annual Review, 1937–39, 1943–44, *chairman, 1937–40;* Awards 1934, 1940, 1952–53; Bibliography, 1930–32; Constitution and Laws, 1933–34, 1943; Executive, 1942–43, *chairman, 1942;* Nominations, 1932, 1951; New York Program, 1934–35, 1939–40, *chairman, 1934;* Papers, 1940; Papers Procurement, 1942–43; Public Relations, 1940–41, 1943–46, *chairman, 1941;* Registration of Engineers, 1940; Regular Papers, 1941; Research, 1946–47; Standards, 1933–36; Tellers, 1932–33, 1935, *chairman, 1935.* **IRE Representative:** ASA Sectional Committee (Z-17) on Preferred Numbers, 1936, 1939–55; ASA Sectional Committee (Z-67) on Standardization of Voltage—Preferred Voltages 100 Volts and Under, 1949–50; Wesleyan University, 1958. **Awards:** Legion of Merit, 1946; Modern Pioneer Award, National Association of Manufacturers, 1940.

VAN DYKE, Karl S. (A'15—M'26—SM'43—F'44)(L), Professor of Physics, Wesleyan University, Scott Laboratory, Middletown, Conn.
Born: December 8, 1892, Brooklyn, N.Y. B.S., 1916, M.S., 1917, Wesleyan University; Ph.D., 1921, University of Chicago. **Committees:** Admissions, 1929; Annual Review, 1941, 1949–51; Board of Editors, 1933–40, 1947–53; Editorial Reviewer, 1957–58; Meetings and Papers, 1929–31, *chairman, 1929;* Membership, 1942–47; Papers, 1932–33, 1944–45; Papers Procurement, 1945–48; Papers Review, 1946; Piezoelectric Crystals, 1940–43, 1945–58, *chairman, 1940–42, 1949–51;* Standards, 1941, 1949–51. **Sections:** Connecticut Valley, *secretary-treasurer, 1927, chairman, 1934–35.* **IRE Representative:** Wesleyan University, 1955–57.

VARIAN, Russell H. (A'40—SM'51—F'52), Chairman, Board of Directors, Varian Associates, 611 Hansen Way, Palo Alto, Calif.
Born: April 24, 1898, Washington, D.C. A.B., 1925, M.A., 1927, Stanford University; Dr. Eng. (Honorary), 1943, Polytechnic Institute of Brooklyn. **Awards:** Fellow, American Physical Society; John Price Wetherill Medal, Franklin Institute, 1950.

VILLARD, Oswald G., Jr. (S'38—A'41—SM'51—F'57), Professor, Electrical Engineering, Stanford University, Stanford, Calif.
Born: September 17, 1916, Dobbs Ferry, N.Y. B.A., 1938, Yale University; E.E., 1943, Ph.D., 1949 Stanford University. **Committees:** Editorial Reviewer 1955–58. **Sections:** Palo Alto Subsection, *chairman, 1952.* **Awards:** Outstanding Young Bay Area Engineer, Bay Area Engineers' Week Committee, 1955; IRE Morris Liebmann Memorial Prize, 1957.

VOLLUM, Howard (SM'50—F'55), President, Tektronix, Inc., P.O. Box 831, Portland 7, Ore.
Born: May 31, 1913, Portland, Ore. B.A., 1936, Reed College; Sc.D. (Honorary), 1953, Portland University. **IRE Offices:** Director, 1955. **Sections:** Portland, *chairman, 1954–55.* **Awards:** Legion of Merit, 1945; Oak Leaf Cluster, 1946.

WAIDELICH, Donald L. (S'37—A'39—SM'44—F'58), Professor of Electrical Engineering, University of Missouri, Columbia, Mo.
Born: May 3, 1915, Allentown, Pa. B.Sc.(E.E.), 1936, M.Sc., 1938, Lehigh University; Ph.D., 1946, Iowa State College. **Committees:** Education, 1952–57. **Awards,** Eta Kappa Nu Award, 1946; Fulbright Award, U. S. Government, 1951–52.

WALLACE, Robert L., Jr. (SM'53—F'56), Director of Transmission Research, Bell Telephone Laboratories, Inc., Murray Hill, N.J.
Born: February 21, 1916, Coolidge, Tex. B.A. (Physics), 1936, M.A. (Physics), 1939, University of Texas. **Committees:** Editorial Reviewer, 1954–58.

WANG, Chao Chen (A'43—SM'49—F'57), Department Head, Microwave Tube Research, Sperry Gyroscope Company, Great Neck, L.I., N.Y.
Born: October 20, 1914, Changchow, Kiangsu, China, B.S., 1936, Chiao-Tung University, Shanghai; S.M., 1938, Sc.D., 1940, Harvard University. **Committees:** Editorial Reviewer, 1955–58.

WARNECKE, Robert R. (SM'48—F'50), Director, Electronics and Atomistics Research Department, Compagnie Générale de Télégraphie Sans Fil, Domaine de Corbeville, B.P. N° 10, Orsay, Seine et Oise, France.
Born: November, 1906, Tours, France, Doctor, 1933, University of Paris. **Committees:** Electron Tubes, 1955–56. **Awards:** Henri Becquerel Prize, Academy of Sciences of Paris, 1945; Ancel Prize, French Society of Electricians, 1943; Blondel Medal, 1951; D'Aumale Prize, Academy of Sciences of Paris, 1952; IRE Morris Liebmann Memorial Prize, 1954; Member, French Society of Physics; French Society of Electricians; Society of Radioelectricians (President of the "Microwaves Section").

WATKINS, Dean A. (A'47—M'48—S'49—A'51—SM'55—F'58), Professor, Stanford University, Stanford, Calif.
Born: October 23, 1922, Omaha, Neb. B.S., 1944, Iowa State College; M.Sc., 1947, California Institute of Technology; Ph.D., 1951, Stanford University. **Committees:** Electron Tube Research Conference; Technical Program Committee, 1955–57; Editorial Reviewer, 1955–58. **Awards:** IRE Seventh Region Achievement Award, 1957.

WATSON-WATT, Sir Robert (SM'46—F'47), Governing Director, Sir Robert Watson-Watt and Partners, Ltd., London, S.W. 1, England: President, Adalia, Inc., New York, Adalia, Ltd., Montreal and London, England; Chairman, Adalia Computations, Ltd., Suite 810, 1410 Castle Bldg., Montreal, P.Q., Canada.
Born: April 13, 1892, U.K., C.B. D.Sc., LL.D., **IRE Offices:** Vice-President, 1950; Director, 1950. **Awards:** Hughes Medal of the Royal Society of London, 1948; Presidential Medal for Merit, U. S., 1946; Valdemar Poulsen Gold Medal, Danish Academy of Technical Sciences, 1947; Elliott Cresson Medal of the Franklin Institute, 1957. Fellow of the Royal Society.

WAYNICK, Arthur H. (A'43—SM'46—F'57), Professor and Head, Electrical Engineering Department, Director, Ionosphere Research Laboratory, Pennsylvania State University, University Park, Pa.
Born: November 9, 1905, B.S., 1935, M.S., 1936, Wayne University; 1937–39, University of Michigan Electronics Institute and Cambridge University, England; Sc.D., 1943, Harvard University. **Committees:** Professional Groups, 1954; Wave Propagation, 1949–57, **Professional Groups:** Propagation, *chairman, 1952.* **IRE Representative:** National Bureau of Standard Advisory

Committee, 1958; U.S.A. Technical Program Committee, 12th URSI General Assembly, *chairman*. **Awards:** Navy Ordnance Development Award, 1945; Office of Scientific Research and Development Award, 1945; Guggenheim Fellow, Cambridge University, England, 1954–55, Distinguished Alumni Award, Wayne State University, 1957.

WEBB, Richard C. (A'41—M'46—SM'56—F'58), President, Colorado Research Corporation, 4697 E. Evans Ave., Denver 22, Colo.
Born: September 2, 1915, Omaha, Neb. B.Sc.(E.E.), 1937, University of Denver; M.Sc.(E.E.), 1944, Ph.D., 1951, Purdue University. **Committees:** Editorial Reviewer, 1953–54. **Sections:** Denver, *vice-chairman, 1955–56; chairman, 1956–57*. **Awards:** RCA Laboratories Awards, 1947, 1949.

WEBER, Ernst (M'41—SM'43—F'51), President, Polytechnic Institute of Brooklyn, 99 Livingston St., Brooklyn 1, N.Y.; President, Polytechnic Research & Development Company, Inc., 202 Tillary St., Brooklyn 1, N.Y.
Born: September 6, 1901, Vienna, Austria. Dipl. Eng(E.E.), 1924, Technical University, Vienna; Ph.D., 1926 University of Vienna; Sc.D. 1927 Technical University. **IRE Offices:** Director, 1952–58. **Committees:** Administrative Committee of Board of Editors, 1951; Annual Review, 1950–51; Awards, 1952–54, *chairman, 1953–54;* Awards Coordination, 1958; Board of Editors, 1949–53; Circuits, 1949–53; Editorial Administrative, 1949–51; Education, 1944–51; Executive, 1957–58; Finance, 1952; Instruments and Measurements, 1948–52, *chairman, 1949–51;* Membership, 1941–48; National Convention 1947, 1951; Policy Advisory, 1952, 1956; Professional Groups 1951, 1953–58, *vice-chairman, 1954–58;* Standards, 1949–58, *vice-chairman, 1951–53, chairman 1954–56*. **Professional Groups:** Measurements and Instrumentation, *chairman, 1950–52*. **IRE Representative:** ASA Standards Council, 1952–58; ASA Electrical Standards Board, 1958; ASA Acoustical Standards Board, 1958; ASA Sectional Committee (C16) on Radio, 1954–57; chairman, 1958; ASA Subcommittee (C42.6) on Electrical Instruments, 1952–55; C.C.I.R., Executive Committee of U. S. Delegation; United States National Committee, International Electrotechnical Commission, Adviser on Electrical Measuring Instruments (alt. 1952, 1958); United States National Committee, U.R.S.I., 1956–58; Joint Technical Advisory Committee, *vice-chairman, 1955–56, chairman, 1956–57*. **Awards:** Fellow, American Institute of Electrical Engineers; Fellow, American Physical Society; Presidential Certificate of Merit, 1948.

WEBER, Joseph (S'44—M'46—SM'53—F'58), Professor of Electrical Engineering, Electric Engineering Department, University of Maryland, College Park, Md.
Born: May 17, 1919, Paterson, N.J. B.S., 1940, U. S. Naval Academy; Ph.D. (Physics), 1951, Catholic University of America. **Awards:** Scientific Achievement, Washington Academy of Sciences, 1958.

WEBSTER, Edward M. (A'30—M'38—SM'43—F'44), Telecommunications Consultant, 9518 E. Stanhope Rd., Kensington, Md.; Commodore, U. S. Coast Guard (Retired); formerly Commissioner, Federal Communications Commission.
Born: February 28, 1889, Washington, D.C. **IRE Offices:** Director, 1946. **Committees:** Membership, 1940; Public Relations, 1945–46. **Sections:** Washington, *secretary, 1940, chairman, 1942*. **Awards:** Legion of Merit; Marconi Memorial Medal, VWCA, 1950; Distinguished Service Award, Washington Section IRE, 1956.

WEEKS, Paul T. (A'19—M'28—SM'43—F'54)(L), Engineer, Receiving and Cathode Ray Tube Operations, Raytheon Manufacturing Company, 148 California St., Newton, Mass.
Born: November, 1890, Clarksfield, Ohio. A.B., 1913, Oberlin College; Ph.D. 1917, Cornell University. **Committees:** Annual Review, 1938–42; Electronics, 1936–42, *chairman, 1938–42;* Meetings and Papers, 1927–29; Papers, 1938–41; Regular Papers, 1941; Standards, 1938–42. **Awards:** Member, American Physical Society; Fellow, American Association for the Advancement of Science; Naval Ordnance Development Award, 1945.

WEIHE, Vernon I. (SM'45—F'58), Director, Air Traffic Navigation Control Programs, General Precision Equipment Corporation, 777 14 St., N.W., Washington 5, D.C.
Born: March 3, 1909, Louisville, Ky. B.Sc.(E.E.), 1931, Speed Scientific School, University of Louisville. **Professional Groups:** Administrative Committee, Aeronautical and Navigational Electronics, 1956–57. **Awards:** Collier Trophy, Award for Civilian Achievement, 1948.

WEIL, Joseph (M'37—SM'43—F'57), Dean, College of Engineering; Director, Engineering and Industrial Experiment Station; Professor, Electrical Engineering, University of Florida, Gainesville, Fla.
Born: July 19, 1897, Baltimore, Md. 1911-15, Baltimore Polytechnic Institute; B.S.E., 1918, Johns Hopkins University; M.S., 1926, University of Pittsburgh. **Committees:** Fellow, 1958. **Awards:** Presidential Medal, Florida Engineering Society, 1940; Honorable Mention, Florida Engineering Society, 1944; Certificate of Service, Office of Scientific Research and Development, 1945; Naval Ordnance Department Award, 1946; Honorable Membership, Southeastern Metermen's Association, 1948; Distinguished Service Certificate, National Council of State Boards of Engineers, 1955; Outstanding Service Award, Florida Engineering Society, 1956.

WEIMER, Paul K. (A'43—SM'51—F'55), Research Engineer, RCA Laboratories Division, Princeton, N.J.
Born: November 5, 1914, Wabash, Ind. B.A., 1936, Manchester College; M.A., 1938, University of Kansas; Ph.D., 1942, Ohio State University. **Committees:** Editorial Reviewer, 1954–58. **Sections:** Princeton, *secretary, 1956, vice-chairman, 1957*. **Awards:** Television Broadcasters Association Award, 1946.

WEINBERGER, Julius (A'13—F'25), Staff Member, RCA Laboratories Division, Radio Corporation of America, 155 E. 24 St., New York 10, N.Y.
Born: July 22, 1893, New York, N.Y. B.S., 1913, College of the City of New York. **Committees:** Industrial Electronics, 1946–58; Meetings and Papers, 1929; Research, 1946–48. **Awards:** Modern Pioneer Award, National Association of Manufacturers, 1940.

WEIR, Irvin Reed (A'25—M'41—SM'43—F'49), Manager, Engineering Administration C and G.E. Department, General Electric Company, Syracuse, N.Y.
Born: September, 1897, Prairie Creek, Ind. B.S., 1921, E.E., 1932, Rose Polytechnic Institute. **Committees:** Annual Review, 1950–51; Antennas, 1944–45; Radio Transmitters, 1945–58; Transmitters, 1944–45.

WELCH, H. William, Jr. (A'47—SM'52—F'58), Director of Research and Development and Assistant Manager, Military Electronics Division, Motorola, Inc., 8201 E. McDowell St., Phoenix, Ariz.
Born: October 21, 1920, Beardstown, Ill. B.A. (Physics), 1942, DePauw University; M.Sc. (Physics), 1949, Ph.D.(E.E.), 1952, University of Michigan. **Awards:** IRE Browder J. Thompson Memorial Prize, 1952.

WELDON, James O. (A'26—SM'46—F'54), President, Continental Electronics Manufacturing Company, 4212 S. Buckner Blvd., Dallas 27, Tex.
Born: March 15, 1905, Canton, Mo. **Committees:** Editorial Reviewer, 1955–58.

WELLS, Frank H. (A'39—SM'48—F'58), Principal Scientific Officer, United Kingdom Atomic Energy Authority, Atomic Energy Research Establishment, Harwell, Berkshire, England.
Born: March, 1915, London, England. B.Sc. (Eng.), 1935, M.Sc. (Eng.), 1936, Imperial College of Science and Technology.

WELLS, Harry W. (M'36—SM'43—F'53), Chairman, Upper Atmosphere Section, Carnegie Institution of Washington, Department of Terrestrial Magnetism, 5241 Broad Branch Rd., Washington 15, D.C.

Born: January 13, 1907, Washington, D.C. B.S.(E.E.), 1928, E.E., 1937, University of Maryland. **IRE Offices:** Director, 1954–55. **Committees:** Annual Review, 1950–51; Awards, 1953, 1956–58; Nominations, 1955–57; Policy Advisory, 1955; Radio Wave Propagation and Utilization, 1945–48; Wave Propagation, 1949–52, *vice-chairman, 1949–52.* **Professional Groups:** Antennas and Propagation, Editor, 1951–52; United States National Committee, URSI, *chairman.* **Sections:** Washington, *secretary, 1948, vice-chairman, 1949, chairman, 1949–50.* **IRE Representative:** National Research Council, Division of Engineering and Industrial Research. Member, U.S.A. National Committee for International Geophysical Year (ex-officio); National Bureau of Standards Technical Advisory Committee, 1958. **Awards:** Scientific Achievement, Washington Academy of Sciences, 1947.

WENDELL, Edward N. (A'26—M'33—SM'43—F'47), Retired. Marmion Way, Rockport, Mass.
Born: August 11, 1903, Rockport, Mass. B.Sc., 1925, Massachusetts Institute of Technology.

WENDT, Karl R. (A'36—SM'46—F'54), Director, TV Research, International Telemeter Corporation, 2000 Stoner Ave., Los Angeles 25, Calif.
Born: January 1906, Coshocton, Ohio. **Committees:** Papers Review, 1951–53. **Sections:** Buffalo-Niagara, *secretary-treasurer, 1949–50, chairman, 1950–51.* **Awards:** Radio Corporation of America Laboratories, Award, 1947.

WHEELER, Harold A. (A'27—M'28—F'35), Consulting Radio Physicist; President, Wheeler Laboratories, Inc., 122 Cutter Mill Rd., Great Neck, L.I., N.Y.
Born: May 10, 1903, St. Paul, Minn. B.S. (Physics), 1925, George Washington University. **IRE Offices:** Director, 1934, 1940–45. **Committees:** Administrative Committee of the Board of Editors, 1951–53; Annual Review, 1937, 1940–48; Awards, 1942–44, *chairman,* 1943; Bibliography, 1930–32; Board of Editors, 1940–53; Broadcast, 1935–38; Circuits, 1944–47; Editorial Administrative, 1949–52; Editorial Reviewer, 1954–58; Executive, 1943–44; Handbook, *chairman, 1945–48;* Meetings and Papers, 1929–30; Membership, 1941–42; New York Program, 1931; Nominations, 1948; Papers, 1931–33, 1935–39; Papers Procurement, 1942–44; Professional Recognition, 1947; Public Relations, 1940; Radio Receivers, 1936–37, *chairman, 1937–38;* Regular Papers, 1941; Special Papers, 1940–41; Standardization, 1931–32; Standards, 1932–33, 1936–49, *chairman, 1940–45;* Symbols, 1946–47. **Sections:** Long Island Subsection, *chairman, 1948–49.* **IRE Representative:** ASA Sectional Committee (C-42) on Definitions of Electrical Terms, 1948, 1950–51; National Television Systems Committee, *alternate, 1940–43.* **Awards:** Fellow, American Institute of Electrical Engineers; Fellow, Radio Club of America; Modern Pioneer Award, National Association of Manufacturers, 1940; IRE Morris Liebmann Memorial Prize, 1940; United States Navy Certificate of Commendation, 1947.

WHEELER, Lynde P. (F'28), Staff Consultant, Pickard and Burns, Inc., 240 Highland Ave., Needham 94, Mass.
Born: July 27, 1874, Bridgeport, Conn. Ph.B., 1894, Ph.D., 1902, Yale University. **IRE Offices:** President, 1943; Director, 1940–45. **Committees:** Bibliography, 1930–32; Board of Editors, 1930–32; Executive, *chairman, 1943;* Frequency Modulation, 1940–45; Meetings and Papers, 1929–30; Membership Solicitation Policy, 1945; Nominations, 1939, 1942, 1944; Papers, 1931–32, 1934; Papers Procurement, 1942–43; Public Relations, 1945–46; Regular Papers, 1941; Standardization, 1928. **Sections:** Washington, *chairman, 1930–32.* **IRE Representative:** RMA-IRE Co-ordinating, 1943.

WHINNERY, John R. (A'41—SM'44—F'52), Professor, Chairman of Electrical Engineering, University of California, 231 Cory Hall, Berkeley 4, Calif.
Born: July 26, 1916, Read, Delta County, Colo. B.S., 1937, Ph.D., 1948, University of California. **IRE Offices:** Director, 1956, 1957–58. **Committees:** Antennas, 1948–49; Awards, 1952; Board of Editors, 1946–53; Editorial Reviewer, 1954–58; Education, 1956–58; Handbook, 1945–48; Nominations, 1957–58; Papers, 1944–45; Papers Procurement, 1947–50; Policy Advisory, 1958. **Sections:** San Francisco, *secretary-treasurer, 1949–50, vice-chairman, 1950–51, chairman, 1953–54.*

WHITE, Edwin L. (A'24—M'31—SM'43—F'55), Consulting Engineer, 460 Coffee Pot Riviera, St. Petersburg 4, Fla.
Born: July 5, 1896, Valley City, N.D. B.A., 1922, M.S., 1925, George Washington University. **Awards:** Fellow, American Institute of Electrical Engineers, 1947.

WHITE, Warren D. (A'47—SM'48—F'57), Engineering Consultant, Airborne Instruments Laboratory, 160 Old Country Rd., Mineola, L.I., N.Y.
Born: July 7, 1915, Springfield, Mo. B.S., 1936, Drury College; B.S.(E.E.), 1938, Missouri School of Mines and Metallurgy. **Committees:** Editorial Reviewer, 1954–58; Frequency Modulation, 1942–46; Radio Wave Propagation, 1942–46; Transmitters and Antennas, 1942–45. **Professional Groups:** Information Theory, Administrative Committee, 1952–57.

WHITE, William C. (A'15—M'25—F'40)(L), Retired. 1422 Lowell Rd., Schenectady 8, N.Y.
Born: March 24, 1890, Brooklyn, N.Y. E.E., 1912, Columbia University. **IRE Offices:** Treasurer, 1946; Director, 1943–47. **Committees:** Awards, 1944–46, *chairman, 1945;* Bibliography, 1930–32; Board of Editors, 1930, 1944, 1946–53; Education, 1945–46; Executive, *vice-chairman, 1946;* Investments, *chairman, 1946;* Meetings and Papers, 1928–30; Membership, 1947, 1949–54, *chairman, 1953–54;* Nominations, 1933, 1940, 1944–46; Office Practices, 1947; Papers, 1931–44; Papers Procurement, 1944–50; Professional Recognition, *chairman, 1947;* Standardization, 1925–26, 1929–30; Vacuum Tubes, 1927–28. **IRE Representative:** National Electronics Conference, Board of Directors, 1947–50.

WHITTEMORE, Laurens E. (A'16—M'25—F'27)(L), 31 Martindale Rd., Short Hills, N.J.
Born: August 20, 1892, Topeka, Kan. A.B., 1914, Washburn College; M.A., 1915, University of Kansas. **IRE Offices:** Vice-President, 1928; Manager, 1926–27, 1929; Director, 1928, 1935–37. **Committees:** Administrative Committee of the Board of Editors, 1951–53; Annual Review, 1927–40, *chairman, 1940–53;* Awards, 1937, 1948; Bibliography, 1930–32; Board of Editors, 1929–53; Broadcast, 1933–34, 1953; Direction Finding Terminology, *chairman, 1924–25;* Editorial Administrative, 1946–53; Electroacoustic Devices, 1927–28; History, 1956–58; Institute Sections, *chairman, 1926;* Meetings and Papers, 1929; Membership, *chairman, 1925;* Standardization, 1920–32, *chairman, 1926–29;* Standards, 1932–35, 1944–52; Symbols, *chairman, 1944–45;* Tellers, 1934. **IRE Representative:** ASA Sectional Committee on Graphical Symbols and Abbreviations for Use on Drawings, 1939; ASA Sectional Committee on Radio, 1930, 1936, 1939–48; ASA Sectional Committee on Radio Electrical Co-ordination, 1936, 1939–46; ASA Sectional Committee on Standards for Drawings and Drafting Room Practices, 1930, 1936, 1939; ASA Subcommittee on Electrical Abbreviations, Including Radio, 1930; United States National Committee—Advisors on Symbols, 1936, 1939–51.

WIESNER, Jerome B. (S'36—A'40—SM'48—F'52), Professor and Director, Research Laboratory of Electronics, Massachusetts Institute of Technology, 77 Massachusetts Ave., Cambridge 39, Mass.
Born: May 30, 1915, Detroit, Mich. B.S., 1937, M.S., 1938, Ph.D., 1950, University of Michigan. **Committees:** Awards, 1954–55; Board of Editors 1949–53; Editorial Reviewer, 1954–58; Modulation Systems, 1949–50; Nuclear Studies, 1948–49; Professional Groups, 1955; Research, 1949–50. **IRE Representative:** National Bureau of Standards Technical Advisory Committee, 1958.

WILKINS, Arnold F. (A'30—SM'48—F'58), Senior Principal Scientific Officer, Department of Scientific and Industrial Research, Radio Research Station, Ditton Park, Slough, Buckinghamshire, England.
Born: February 20, 1907, Manchester, England. M.Sc.(Tech), 1928, University of Manchester. **Awards:** Officer of the Order of the British Empire, 1942.

WILLIAMS, Albert J., Jr. (A'30—VA'39—SM'49—F'55), Science Advisor, Leeds & Northrup Company, 4901 Stenton Ave., Philadelphia 44, Pa.
Born: February 28, 1903, Media, Pa. B.A.(E.E.), 1924, Swarthmore College. **Awards:** John Price Wetherill Medal, Franklin Institute, 1952.

WILLIAMS, Charles E. (J'15—A'17—M'24—SM'43—F'52), Retired. 4814 38 Ave., N.E., Seattle 5, Wash.
Born: March 15, 1896, Seattle, Wash. **Committees:** Sections, 1925; Standardization, 1929–30. **Sections:** Seattle, *secretary, 1920–24, 1935–36, chairman, 1925–26.*

WILLIAMS, Everard M. (S'36—A'41—SM'44—F'54), Professor and Head, Electrical Engineering, Carnegie Institute of Technology, Schenley Park, Pittsburgh 13, Pa.
Born: February 2, 1915, New Haven, Conn. B.E., 1936, Ph.D., 1939, Yale University. **Committees:** Awards, 1956–57, *chairman, 1958;* Sections, 1947–48. **Sections:** Pittsburgh, *chairman, 1947.* **IRE Representative:** Carnegie Institute of Technology, 1946–51. **Awards:** Presidential Certificate of Merit for Outstanding Civilian Service in World War II; Eta Kappa Nu Award, 1946.

WILLIAMS, Frederick C. (SM'54—F'57), Edward Stocks Massey Professor, Electrical Engineering, University of Manchester, Sandy Lane, Romiley, Cheshire, England.
Born: June, 1911, Romiley, Cheshire, England, B.Sc., 1932, M.Sc., 1933, D.Sc., 1939, Manchester University, England; D.Phil., 1936, Oxford University. **Awards:** Order of the British Empire, 1945; Fellow of the Royal Society, England, 1950; Benjamin Franklin Medal, 1957.

WILLIAMS, Samuel B. (A'47—SM'53—F'57), Consulting Electrical Engineer, 3701 Taylor St., Chevy Chase 15, Md.
Born: May 26, 1881, Dayton, Ohio. M.E.(E.E.), 1905, Ohio State University.

WILLIAMSON, Raymond H. (A'31—M'44—SM'46—F'51), Manager, Engineering Administration, Communication Products Department, General Electric Company, Syracuse, N.Y.
Born: April 6, 1907, Eagle Grove, Iowa. B.S.(E.E.), 1928, Iowa State College; M.S.(E.E.), 1935, Union College. **Committees:** Membership, 1945–56; Papers Procurement, 1947–50. **Sections:** Syracuse, *vice-chairman, 1948–49, chairman, 1949–50.*

WILMOTTE, Raymond M. (M'29—F'38), Consulting Engineer and President, Raymond M. Wilmotte, Inc., P.O. Box 397, Kendall Branch Post Office, Miami, Fla.
Born: August 13, 1901, Paris, France. M.A., 1921, Cambridge University, England. **Committees:** Handbook, 1945–47; Industrial Electronics, 1947–48; New York Program, 1933; Papers, 1932–33; Papers Review, 1946–52; Radio Receivers, 1940–47; Radio Transmitters and Antennas, 1929–30; Sections, 1932; Standardization, 1931; Standards, 1932. **Awards:** Premium for Research, Institution of Electrical Engineers, 1930; Bureau of Ordnance Development Award, 1945.

WILSON, James R. (M'31—SM'43—F'54), Assistant Vice-President, Bell Telephone Laboratories, Inc., Murray Hill, N.J.
Born: December 17, 1894, Spokane, Wash. B.A., 1919, Reed College; M.S., 1920, California Institute of Technology; M.S., 1923, Columbia University. **Committees:** Electronics, 1939–46.

WING, Arthur K., Jr. (J'28—A'30—M'40—SM'43—F'57), Director, Electron Tube Laboratory, Federal Telecommunication Laboratories, 500 Washington Ave., Nutley 10, N.J.
Born: July 1, 1908, New York, N.Y. B.S.(E.E.), 1930, Yale University; M.S.(E.E.), 1931, Massachusetts Institute of Technology. **Committees:** Tellers, 1953. **Professional Groups:** New York, *chairman,* Electron Devices, *1955–56;* General Committee, 2nd Annual Technical Meeting, Electron Devices, *secretary, 1956;* General Committee, 3rd Annual Technical Meeting, Electron Devices, *chairman, 1957;* Administrative Committee, 1955–58.

WINTER, David F. (SM'50—F'58), Chief Engineer, Vice-President and Director of Research, Moloney Electric Company, 5390 Bircher St., St. Louis, Mo.
Born: November, 1920, St. Louis, Mo. B.S.(E.E.), 1942, Washington University; M.Sc., 1948, Massachusetts Institute of Technology.

WINTRINGHAM, William T. (A'26—SM'45—F'51), Engineer in Charge of Visual Systems Research, Bell Telephone Laboratories, Inc., Murray Hill, N.J.
Born: January 18, 1904, Brooklyn, N.Y. B.S.(E.C.E.), 1924, Harvard University. **Committees:** Papers Review, 1948–49; Television Systems, 1953–57, *vice-chairman, 1954–55, chairman, 1955–57.* **Sections:** New York, *treasurer, 1949–50.*

WOLCOTT, C. Frederick, Jr. (J'26—A'28—M'36—SM'43—F'57), Technical Director, Gilfillan Bros., Inc., 1815 Venice Blvd., Los Angeles 6, Calif.
Born: January 11, 1907, Anderson, Ind. Northwestern University. **IRE Offices:** Director, 1957. **Committees:** Appointments, 1957–58; Nominations, 1956; Policy Advisory, 1956, *chairman, 1957;* Receivers, 1946–49. **Sections:** Los Angeles, *secretary, 1941, chairman, 1942;* Nominating Committee, *chairman, 1951;* Sections Relations Committee, *chairman, 1954–56.* **IRE Representative:** Liaison Officer, IRE-WCEMA West Coast Convention, 1948; Registration, *chairman,* West Coast Convention, 1950; Advisory Group, WESCON, *chairman, 1953;* WESCON Convention, *vice-chairman, 1954;* WESCON, Board of Directors, *chairman, 1956.*

WOLFF, Irving G. (A'27—VA'39—F'42), Vice-President, Research, RCA Laboratories, Radio Corporation of America, Princeton, N.J.
Born: July, 1894, New York, N.Y. B.S., 1916, Dartmouth College; Ph.D., 1923, Cornell University. **IRE Offices:** Director, 1952–53. **Committees:** Appointments, 1952; Awards, 1954–56; *chairman, 1955;* Awards Coordination, 1958; Board of Editors, 1946–53; Editorial Reviewer, 1954–58; Education, 1945–46, 1948–52; Electroacoustic Devices, 1920–30; Electronics, 1943–46; Meetings and Papers, 1928–30; Nominations, 1952–54; Papers, 1931–45; Sections, 1937, 1953, *chairman, 1953;* Standardization, 1927–30; Use of Transmission Unit, 1928–29. **Sections:** Philadelphia, *chairman, 1936–37.* **IRE Representative:** ASA Sectional Committee on Acoustical Measurements and Terminology, 1936, 1939. **Awards:** Distinguished Public Service Award, United States Navy, 1949.

WOOLDRIDGE, Dean E. (SM'50—F'54), President, The Ramo-Wooldridge Corporation, 5500 W. El Segundo Blvd., Los Angeles 45, Calif.
Born: May 30, 1913, Chickasha, Okla. B.A., 1932, M.S., 1933, University of Oklahoma; Ph.D. (Physics), 1936, California Institute of Technology. **Awards:** Citation of Honor Award for Outstanding Achievements in Field of Electronic Research and Development, Air Force Association, 1950; National Research Fellowship, California Institute of Technology, 1936; Raymond E. Hackett Award, 1955.

WOOLVERTON, Robert B. (A'13—M'13—F'15)(L), Colonel, United States Army, Retired. 654 12 Ave., San Francisco 18, Calif.
Born: September 22, 1884, Greensboro, Pa. B.S., 1912, Harvard University. **Committees:** Increase of Membership, 1914; Papers, 1915; Publicity, 1915–19. **Sections:** San Francisco, *chairman, 1915.*

WOONTON, Garnet A. (A'40—SM'44—F'51), Macdonald Professor of Physics; Director, Eaton Electronics Research Laboratory; Chairman, Department of Physics, McGill University, Montreal, P.Q., Canada.
Born: July, 1906, London, Ont., Canada. B.A., 1925, M.A., 1931, D.Sc., 1955 University of Western Ontario. **Committees:** Education 1945–46. **Sections:** London, *chairman, 1945.* **IRE Representative:** University of Western Ontario, 1941–47. **Awards:** Fellow, Royal Society of Canada; International Vice-President, URSI.

WRIGHT, Jay W. (A'42—SM'44—F'58), Executive Vice-President, Radio Service Corporation of Utah, Station KSL-KSL-TV, 145 Social Hall Ave., Salt Lake City 11, Utah.
Born: November, 1909, Salt Lake City, Utah. A.B. (Physics),

1935, M.Sc. (Physics), 1936, University of Utah. **Committees:** Antennas, 1946–49; Constitution and Laws, 1940–41; Frequency Modulation, 1946–47; Modulation Systems, 1947–48; Papers, 1942–45; Papers Review, 1946–50; Radio Wave Propagation and Utilization, 1946–49; Wave Propagation, 1949–56. **Awards:** Navy Department Certificate of Appreciation, War Department, 1948.

WYCKOFF, Ralph D. (M'29—SM'43—F'55), Director, Geophysical Development Division, Gulf Research & Development Company, P.O. Box 2038, Pittsburgh 30, Pa.
Born: December 10, 1897, Jacobsville, Mich. B.S.(E.E.), 1920, Michigan State. **Sections:** Pittsburgh, *chairman, 1935–36.* **Awards:** O.S.R.D. Certificate of Appreciation, 1945; War and Navy Departments' O.S.R.D. Certificates of Appreciation, 1946.

YAGI, Hidetsugu (F'53), President, Musashi College of Technology, Todoroki 1, Setagayaku, Tokyo, Japan.
Born: January 28, 1886, Osaka, Japan. M.Eng., 1909, Tokyo University; Dr.Eng., 1919, Tohoku University. **Committees:** Meetings and Papers, 1929; Standardization, 1927–31. **Sections:** Tokyo, *chairman, 1956.*

YOUNG, Charles J. (A'35—SM'45—F'53), Associate Laboratory Director, RCA Laboratories Division, Radio Corporation of America, Princeton, N.J.
Born: December 17, 1899, Cambridge, Mass. B.A., 1921, Harvard University. **Committees:** Annual Review, 1944–47; Board of Editors, 1941–46; Facsimile, 1939–46, 1948–56, *chairman, 1944–47, 1949–50, vice-chairman, 1948–51;* Papers Procurement, 1947; Standards, 1944–47; Television and Facsimile, 1936–39. **Awards:** Modern Pioneer Award, National Association of Manufacturers, 1946.

YOUNG, Leo C. (A'19—M'29—SM'43—F'43)(L), Consultant, Naval Research Laboratory, Washington 25, D.C.
Born: January 12, 1891, Danville, Ill. **Sections:** Washington, *secretary, 1938–39, chairman, 1940.* **Awards:** Presidential Certificate of Merit, 1946, Stuart Ballentine Medal, 1957.

ZADEH, Lotfi A. (S'45—A'47—M'50—SM'56—F'58), Professor of Electrical Engineering, Columbia University, New York 27, N.Y.
Born: February 4, Baku, Russia. B.S., 1942, University of Teheran; M.S., 1946, Massachusetts Institute of Technology; Ph.D., 1949, Columbia University. **Committees:** Editorial Reviewer, 1954–58. **Professional Groups:** Administrative Committee, Circuit Theory, 1954–57.

ZAHL, Harold A. (A'39—SM'46—F'50), Director of Research, U. S. Army Signal Engineering Laboratories, Fort Monmouth, N.J.
Born: August, 1904, Chatsworth, Ill. A.B., 1927, North Central College; M.S., 1929, Ph.D., 1931, State University of Iowa. **IRE Offices:** Director, 1949. **Committees:** Administrative Committee on the Board of Editors, 1951–53; Awards, 1956–58; Board of Editors, 1951–53; Editorial Administrative, 1949–53; Electroacoustics, 1936–37; Electronics, 1943–44. **Awards:** Legion of Merit, Department of the Army, 1945; IRE Harry Diamond Memorial Award, 1954.

ZENNECK, Jonathan A. W. (F'48)(L), Professor, Retired. Althegnenberg, Über Mering 13B, Germany.
Born: April 15, 1871, Ruppertshofen, Wuerttemberg, Germany. D.Sc., 1894, University of Tuebingen, Germany; Dr.Ing. (Honorary), Institute of Technology, Dresden, 1928. **IRE Offices:** Vice-President, 1933, Director, 1933. **Committees:** Standardization, 1915–18, 1927–28. **Awards:** Member, Bavarian Academy of Science, 1917; Gold Medal, Heinrich Hertz Gesellschaft, 1926; Medal of Honor, 1928; Goethe Medal for Art and Science, German Government, 1932; Gauss-Weber Medal, University of Goettingen, 1933; Member, German Aeronautical Academy, 1938; Honorary Member, German Physical Society, 1941; Honorary Member, German Society for Applied Physics, 1941; Corresponding Member, Academy of Science, Goettingen, 1941; Siemens-Stephan Memorial Plate, German Society of Electrical Engineers, 1943; Gold Medal, The City of Munich, 1946; Grashof Medal, Society of German Engineers, 1949; President, Union of German Physical Societies, 1950; Honorary Citizen, Institute of Technology, Stuttgart and Karlsruhe, 1951; Grosses Verdienstkreus des deutsches Verdienstordens, 1952; Honorary President, Deutsches Museum, 1953; Ehrenkunde des Verbands deutschen Elektrotechniker, 1954.

ZOTTU, Paul D. (A'31—M'38—SM'43—F'44), President, Consulting Engineer, Industron Corporation, 55 Needham St., Newton Highlands 61, Mass.
Born: March 22, 1906, Bucharest, Roumania. B.A., 1931, Wesleyan University. **Committees:** Annual Review, 1945–46; Board of Editors, 1943; Industrial Electronics, 1945–47, *chairman, 1945–46;* Membership, 1947–48; Papers Procurement, 1946; Standards, 1945–46. **Awards:** Hyat Award, Plastics Industry.

ZWORYKIN, Vladimir K. (M'30—F'38), Honorary Vice-President, Radio Corporation of America; Technical Consultant, RCA Laboratories, David Sarnoff Research Center, Radio Corporation of America, Princeton, N.J.
Born: July, 1889, Mourom, Russia. E.E., 1912, Petrograd Institute of Technology; Ph.D., 1926, University of Pittsburgh; D.Sc., 1938, Polytechnic Institute of Brooklyn. **Committees:** Board of Editors, 1944–53; Medical Electronics, 1955–56. **Awards:** IRE Medal of Honor, 1951; IRE Morris Liebmann Memorial Prize, 1934; Modern Pioneer Award, National Association of Manufacturers, 1940; Rumford Medal, American Academy of Arts and Sciences, 1941; Overseas Award, British Institution of Electrical Engineers, 1939; War Department Certificate of Appreciation, 1945; Howard N. Potts Medal, Franklin Institute, 1947; United States Navy Certificate of Commendation, 1947; Presidential Certificate of Merit, 1948; Lamme Award, 1948; Gold Medal of Achievement, Poor Richard Club, 1949; Society of Motion Picture and Television Engineer Progress Medal Award, 1951; AIEE Edison Medal, 1952; Fellow, American Institute of Electrical Engineers; Fellow, American Physical Society; Fellow, American Association for the Advancement of Science; Charter Member, Electron Microscope Society of America; Fellow, National Academy of Sciences of U.S.A.; Fellow, American Philosophical Society; Chevalier Cross, French Legion of Honor; Officer of French Academy of Science; the New York Academy of Sciences; Affiliate Member of the Rockefeller Institute for Medical Research.

MEMBERSHIP ROSTER

The following list gives, in alphabetical order, the names of all members except those of student grade, as of May 31, 1958.

A

AAGAARD, JAMES S. (S'48–A'53–M'57), Asst. Prof., Elec. Engrg., Northwestern Univ., Technological Institute, Evanston, Ill.

AALAND, KRIS (S'53–M'56), Elec. Engr., Univ. of California Radiation Lab., Livermore, Calif.

AALTONEN, TIM K. (S'49–A'53), Design & Project Engr., Panoramic Radio Prod., Inc., 10 S. 2nd Ave., Mt. Vernon, N.Y.

AARON, BERTRAM D. (S'40–A'45–M'48–SM'54), Engrg., Sales Consultant, Bomac Labs., Beverly, Mass.; Kearfott Corp., Western Div., Van Nuys, Calif.; Filmohm Corp., New York, N.Y.

AARON, M. ROBERT (S'49–A'52–M'57), Mem. Tech. Staff, Bell Tel. Labs., Murray Hill, N. J.

AARONS, JULES (S'44–A'51–M'58), Physicist, Propagation Lab., Cambridge Research Center, Hanscom Field, Bedford, Mass.

AARONSON, DAVID A. (S'46–A'53), Mem. Tech. Staff, Bell Tel. Labs., Murray Hill, N.J.

AAS, EUGENE A. (A'47–SM'55), Staff Mem., Sandia Corp., Sandia Base, Livermore, Calif.

AAS, HERBERT G. (S'50–A'51–M'56), Elec. Engr., United Aircraft, Research Dept., 400 Main St., East Hartford, Conn.

AASEN, CURTIS L. (S'50–A'51), Electronics Engr., Hqrs., USMC, Washington 25, D.C.

AASEN, MARVIN D. (M'56), 112 Glen Rd., Glen Burnie, Md.

AASGAARD, PER U. (M'54), Production Engr., Canadian Marconi Co., 2442 Trenton Ave., Montreal 16, P.Q., Canada.

ABAJIAN, HENRY B. (M'46), Pres., Westbury Electronics, Inc., 300 Shames Dr., Westbury, L.I., N. Y.

ABASCAL, NESTOR (M'47), Engr., Servomechanisms, Inc., 1000 W. El Segundo Blvd., Hawthorne, Calif.

ABATE, ANTHONY (M'45), Plant Mgr., Melpar, Inc., 11 Galen St., Watertown 72, Mass.

ABATE, JOHN E. (M'56), Project Engr., Astronautics, Kearfott Co., Main St., Clifton, N.J.

ABBASI, ASLAM (S'57–A'58), 225-B N. 34 St., Milwaukee 8, Wis.

ABBE, RYUKEN (A'54), Radio Engr., Toyo Com. Equipment Co., Ltd., 3–484 Tsukagoshi, Kawasaki, Japan.

ABBENANTE, NICHOLAS (M'57), Mech. Engr., Raytheon Mfg. Co., Wayland, Mass.

ABBEY, CHARLES R. (S'54–M'58), Project Engr., Collins Radio Co., 2700 W. Olive Ave., Burbank, Calif.

ABBEY, KIRK (A'46–M'55–SM'56), Design Specialist, Convair, San Diego 12, Calif.

ABBITT, CHARLES W. (A'50–M'55), Maj., USAF, Range Scheduling Officer, Air Force Missile Test Center, Patrick AFB, Fla.

ABBOT, EDWARD A. (A'57–SM'58), Chief, Communications Dept., Emerson Radio & Phonograph Corp., 14 & Coles Sts., Jersey City, N.J.

ABBOTT, CLAUDE C. (M'56), Engr., Northrop Aircraft, Inc., Hawthorne, Calif.

ABBOTT, GEORGE F., JR. (M'56), Mem. Tech. Staff, Bell Tel. Labs., Murray Hill, N.J.

ABBOTT, HENRY H. (M'57), PBX Systems Dev Engr., Bell Tel. Labs., Murray Hill, N.J.

ABBOTT, JOHN R. (S'55–M'56), Research Engr., Hughes Aircraft Co., Culver City, Calif.

ABBOTT, RICHARD B. (A'58), Mktg. Mgr., Electro Prods. Div., Western Gear Corp., Pasadena, Calif.

ABBOTT, WILTON R. (M'45–SM'46), Staff Scientist, Lockheed Missile Systems Div., Palo Alto, Calif.

ABBOUD, FUAD L. (S'50–A'52), Sr. Engr., Sylvania Home Electronics Div., Batavia, N.Y.

ABBOUSHI, AWNI K. (S'53–A'55), Elec. Engr., Programmer on Electronic Computers, GE Co., 100 Woodlawn Ave., Pittsfield, Mass.

ABDUN-NABI, ZAKI (S'50–A'52–M'57), Elec. Engr., Epsco, Inc., 588 Commonwealth Ave., Boston, Mass.

ABEL, ADAM E. (A'41–SM'45), Genl. Mgr., Bendix Radio Div., E. Joppa Rd., Baltimore 4, Md.

ABEL, ALAN O. (A'55–M'56), Sales Engr., Genl. Radio Co., 1000 N. Seward St., Los Angeles 38, Calif.

ABEL, CHARLES F. (A'44), Chief Engr., Wrather-Alvarez Broadcasting, Inc., KFMB-TV-AM, 1405 5 Ave., San Diego 1, Calif.

ABEL, FRED (S'50–A'52–M'57), Project Engr., Andrew Alford Consulting Engrs., 299 Atlantic Ave., Boston, Mass.

ABEL, ROBERT L. (M'56), Chief, Radio & Communications Engrg. Sect., American Trucking Associations, Inc., 1424 16 St., N.W., Washington 6, D.C.

ABEL, WILLIAM G. (A'55–M'56), Staff Mem., MIT Lincoln Lab., Lexington 73, Mass.

ABEL-HARRY, CLIFFORD B. (A'47–M'55), Ultrasonic Engr., Kelvin & Hughes (Industrial), Ltd., 2 Caxton St., London, S.W.1, England.

ABELL, CHARLES S., III, (S'56–M'57), Engr., Westinghouse Elec. Corp., P.O. Box. 746, Baltimore 3, Md.

ABELL, GURDON R. (A'47–M'55), Sr. Electronics Scientist, Avco Research Lab., Revere Beach Pkwy., Everett, Mass.

ABEND, DONALD L. (A'54), Missile Test Engr., Chrysler Corp., Detroit 31, Mich.

ABEND, IRVING J. (M'45), Project Engr., Hammarlund Mfg. Co., 460 W. 34 St., New York 1, N.Y.

ABERCROMBIE, GEORGE D. (A'52), Instr., Communications Equipment, New Equipment Introductory Co., SCEL, Ft. Monmouth, N.J.

ABERER, JOSEPH C. (A'48–M'55), Elec. Engr., Garden City Engrg. Co., 1714 S. Halsted St., Chicago 8, Ill.

ABERNATHY, JAMES L. (S'56–M'57), Research & Dev. Engr., Sperry Electronic Tube Div., Gainesville, Fla.

ABERNATHY, OSCAR R., JR. (S'50–A'51), Engr., Trunk Studies, Genl. Telephone Co. of California, 2020 Santa Monica Blvd., Santa Monica, Calif.

ABERNATHY, THOMAS C. (A'49–M'57), Transmitting Plant Supvr., WSUN & WSUN-TV, St. Petersburg, Fla.

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Cordero, F. (A)

Jacksonville (HUN-3)
Freymuth, J. L., Jr. (M)

Maxwell AFB (ATL-3)
Bolstridge, L. J. (M)
Clancy, J. W. (A)
Lyle, W. H. (SM)
Rehbein, N. W. (A)

Mobile (NO-6)
Baucum, P. G. (M)
Chapin, J. H. (M)
Davis, M. H. (M)
Diamond, J. R. (M)
Evans, B. D. (M)
Givens, V. Y. (M)
Gunthorpe, G. F. (M)
Haeger, J. R. (M)
Harbin, T. F. (M)
Hicks, C. R. (M)
Hutchison, R. (M)
Mahan, O. C. (M)
Molyneux, M., Jr. (M)
Partridge, D. A. (M)
Reither, S. I. (M)
Rountree, J. W. (M)
Seid, H. R. (M)
Van Aller, H. H. (M)

Montgomery (ATL-3)
Elchak, J., Jr. (M)
Hall, C. M. (A)
Hargreaves, L. D. (A)
Hayward, R. M. (A)
Herman, H. (SM)
Holliday, E. M. (M)
Holman, W. S. (M)
Lide, W. C., Jr. (M)
MacDowell, J. E. (M)
Moore, E. F. (M)
Moore, E. G., Jr. (M)
Pope, R. L. (A)
Trukken, H. R. (M)
Voight, R. O. (M)

Newville (Atl-3)
Barefield, C. F. (M)

Prichard (NO-6)
Prewitt, J. L. (M)

Redstone Arsenal (HUN-3)
Ackerman, W. J. (M)
Finch, M. D. (M)
Folkestad, G. T. (M)
Student, S. G., Jr. (M)

Saraland (NO-6)
Rawls, M. L. (M)

Silverhill (NWF-3)
Lacey, H. L. (M)

Tuscaloosa (HUN-3)
Littlefield, J. T. (A)
Ryan, P. J. (A)

University (HUN-3)
Whitehurst, R. N. (A)

Whistler (NO-6)
Chunn, W. B. (M)

ALASKA

Anchorage
Baker, H. O., Jr. (A)
Borisky, A., Jr. (M)
Brodigan, H. F. (A)
Burke, H. E. (M)
De Lung, D. O. (A)
Duncan, J. G. (M)
Fulton, D. A. (M)
Gay, G. L. (A)
George, R. C. (M)
Gray, C. M. (A)
Hutchinson, R. E. (A)
Jekic, W. W. (A)
Johnson, C. A. (M)
Johnson, R. L. (A)
Knox, W. E., Jr. (A)
Lane, C. A. (M)
Lee, W. (M)
Little, J. T. (A)
McKee, W. H. (A)
Park, R. L. (M)
Shaw, W. R. (M)
Silven, J. W. (M)
Smith, C. H. (M)
Walden, J. M. (SM)
Walker, R. E. (M)
Warren, K. A. (A)
Watson, W. A. (M)
Wayer, C. F., Jr. (M)
Wheaton, T. H. (A)
Whittaker, G. A. (A)

Big Mountain
Scott, R. C. (A)

College
Leinbach, H. (M)
Leonard, R. S. (A)
Merritt, R. P. (M)
Owren, L. (M)
Stanley, G. M. (M)
Stiltner, E. (M)
Warman, N. E. (A)

Fairbanks
Edema, J. A. (A)
Kimball, W. H. (A)
Roseer, B. M. (A)
Shurtleff, C. H. (A)
Southall, A. M. (A)

Juneau
Ordonia, J. M. (A)

King Salmon
Banziger, W. T. (M)

Nome
Sundstrom, L. C. (A)

Petersburg
Pierce, E. R. (M)

Ruby
Long, J. E. (A)

Spenard
Browne, C. W. (A)
McCaskill, W. K. (M)
Wright, M. E. (M)

Tin City
Svarczkopf, G. J. (A)

Whittier
Gibson, T. J. (M)

ARIZONA

Benson (FT-H-7)
Blom, B. V. (SM)
Campbell, R. E. (M)
Ehler, W. M. (M)
Johnson, H. G. (A)
Spittle, S. E. (M)

Bisbee (FT-H-7)
Candiello, V. S. (M)
Diehl, F. A. (M)
Homsy, J. H. (SM)
Knowles, E. R. (M)
Orne, L. E. (M)

Douglas (FT-H-7)
Allen, W., Jr. (M)

Flagstaff (PHO-7)
Phillippi, E. C. (M)

Fort Huachuca (FT-H-7)
Albee, M. M. (SM)
Bradski, M. (M)
Brown, G. J. (M)
Buscall, D. C., Jr. (M)
Craig, L. W. (M)
Crawford, A. B., Jr. (M)
Cronin, W. M. (SM)
Day, J. V. (M)
Dillingham, J. H. (M)
Domingue, J. C. (M)
Dyer, S. M. (M)
Fink, M. J. (M)
Flahie, T. J. (M)
Fund, J. L. (A)
Gallant, R. M. (A)
Garcia, V. A. (SM)
Garos, S. J. (A)
Grady, J. H. (M)
Hargrove, B. E. (SM)
Hart, B. H. (SM)
Hogg, F. G. (SM)
Jeys, F. H. (M)
Johnson, R. M. (M)
Kellers, F., III (M)
Kinnie, I. G. (M)
Kundel, K. K. (M)
Lamar, K. (M)
Lenzmer, E. (SM)
Lowy, W. M. (A)
Lundy, W. D. (M)
Lydon, D. A. (A)
Marks, W. S., Jr. (F)
Mayleben, E. F. (M)
Mudgett, A. H. (SM)
Norton, F. R. (M)
Oliver, J. K. (SM)
Park, L. C. (M)
Pawkett, L. E. (M)
Pollock, C. (M)
Renwick, G. J. (M)
Risser, A. K. (M)
Ryason, R. R. (M)
Schmitt, J. W. (M)
Shelton, W. C. (SM)
Silverman, B. S. (A)
Stone, E. P. (M)
Storck, H. C. (M)
Strawn, G. M. (M)
Upton, F. R. (A)
Virden, J. W. (SM)

Fry (FT-H-7)
Blatchley, C. M. (M)

Gilbert (PHO-7)
Norman, H. W. (A)

Glendale (PHO-7)
Bliss, W. P. (M)
Cappon, A. M. (M)
Cooper, G. P. (M)
Davisson, R. R. (A)
Edwards, M. J. (M)
Elbinger, L. P. (SM)
Gaul, E. R. (SM)
Grab, F. W. (M)
Lamb, W. G. (M)
Levine, D. (SM)
Martin, G. L. (A)
Murray, P. W. (A)
Pratt, R. E. (M)
Rhodes, J. F. (M)
Rudolf, S. (M)
Tardiff, R. J. (M)
Wakefield, S. J. (A)

Goodyear (PHO-7)
Ash, H. O. (A)
Blount, E. M. (M)

Hereford (FT-H-7)
Foley, W. R. (SM)
Webster, R. G. (SM)

Kingman (PHO-7)
Hulet, J. F. (A)

Litchfield Park (PHO-7)
Ballantine, J. H. (M)
Belanger, F. (M)
Kelly, K. O. (M)
Robertson, S. D. (SM)

Lowell (FT-H-7)
Stuermer, E. H. (SM)

Luke AFB (PHO-7)
Anelli, R. L. (M)

Mase (PHO-7)
Forrester, R. E. (M)

Mesa (PHO-7)
Howard, J. R. (M)
Sabin, W. D. (M)

Miami (PHO-7)
Herrera, E. A. (M)

Phoenix (PHO-7)
Adams, W. L. (A)
Anderson, W. J. (A)
Austad, R. W. (M)
Bailey, D. C. (A)
Barikmo, H. O. (M)
Baroch, G. F. (M)
Barth, J. A. (M)
Barton, R. W. (SM)
Baum, R. V. (M)
Beck, G. (M)
Benham, M. J. (M)
Bettis, L. W. (A)
Bitter, C. R., Jr. (M)
Blackert, R. O. (M)
Blair, L. R. (M)
Blatchford, R. C. (M)
Boat, R. M. (M)
Boekelheide, A. W. (M)
Bower, F. H. (M)
Bricker, N. P. (A)
Bridge, W. H. (A)
Brown, F. R. (M)
Bucko, B. S. (A)
Burns, J. J. (M)
Burnett, K. N. (A)
Butcher, R. J. (A)
Carden, M. W., Jr. (M)
Carter, D. F. (M)
Carter, P. M. (M)
Chadek, T. J. (M)
Chambers, J. A. (F)
Christman, J. (A)
Clark, C. J. (M)
Clark, G. F. (M)
Clark, R. E. (M)
Cleary, E. P. (M)
Clelland, F. W., Jr. (SM)
Cook, G. W. (M)
Cook, M. F. (M)
Crawfis, E. D., Jr. (SM)
Creighton, A. M., Jr. (SM)
Cubbage, J. F. (M)
Cuckler, V. A. (M)
Culver, J. E. (M)
Cummings, K. C. (SM)
Dalton, D. E. (M)
Dempster, R. J. (M)
Denault, D. R. (M)
Dickson, D. C., Jr. (M)
Diehl, H. A. (M)
Dodge, P. O. (M)
Donovan, J. (A)
Dreste, F. E. (SM)
Drilling, R. E. (M)
Eberhard, E. (SM)
Echols, R. A. (A)
Eckstein, R. J. (M)
Edson, G. L. (SM)
Elliott, R. W. (M)
Ellstrom, R. V. (A)
Elsner, R. W. (SM)
Emmett, J. T. (A)
Engler, A. R. (M)
Esher, M. (A)
Fischer, D. H. (A)
Fitch, W. T. (M)
Foot, N. J. (M)
Freeman, G. H. (A)
Funk, R. E. (M)
Fussell, L. B. (A)
Gamble, G. W. (A)
Gardiner, A. J. (M)
Garrard, R. F. (M)
Gaylor, R. (A)
Gerould, L. D. (M)
Gleichauf, T. J. (M)
Goldstein, R. (M)
Goodman, R. G. (M)
Graham, L. C. (M)
Gravel, J.-P. J. (M)
Greenburg, A. R. (M)
Greer, P. H. (M)
Grimaila, A. G. (M)
Groves, S. (A)
Gundry, J. C. (A)
Hall, R. M. (M)
Hallen, J. (A)
Ham, N. C. (M)
Hammond, J. R. (A)
Hans, M. F. (M)
Hansburg, M. (M)
Hansen, R. O. (A)
Harris, T. L. (M)
Hartel, C. F., Jr. (M)
Hartig, E. O. (SM)
Hartman, R. E. (A)
Helber, C. (M)
Hembise, P. M. (A)
Hempel, R. A. (A)
Hershey, L. M. (SM)
Hickman, J. E. (A)
Hill, R. S. (A)
Hitt, W. R. (SM)
Hittel, L. A., Jr. (M)
Hodson, R. B. (A)
Hoffman, R. Y., Jr. (M)
Hogan, A. W. (M)
Hogan, C. L. (SM)
Hooper, W. O. (A)
Hopper, B. (M)
Hostetter, J. M. (M)
Hubiak, D. D. (M)
Hume, A. S. (SM)
Hummels, D. R. (A)
Huntington, R. C. (A)
Ittenbach, L. J., Jr. (A)
Jacobsen, A. B. (SM)
Janezic, J. J. (A)
Jensen, R. E. (M)
Jones, A. C. (A)
Kees, H. (SM)
Kelley, H. M. (M)
Kemmeries, F. D. (SM)
Kerr, J. L. (M)
Kettlety, R. W. (M)
Kidwell, W. M. (SM)
Kline, A. J., Jr. (M)
Klontz, W. C. (M)
Knowles, W. N. (M)
Koster, C. A. (M)
Krohn, C. A. (M)
Kulesza, G. G. (A)
Landers, E. L. (M)
La Prade, G. L. (A)
Larson, M. A. (A)
Lasher, C. C. (SM)
Lee, J. E. (M)
Lindsay, J. D. G. (M)
Liska, R. W. (M)
Love, A. W. (M)
Lowenstein, J. F. (M)
Lundy, C. (SM)
MacMillian, T. S. (M)
Madland, G. R. (M)
Mattausch, A. J. (M)
Maynard, F. B. (SM)
McCary, R. O. (M)
McClanathan, G. L. (M)
McCrary, D. E. (A)
McElroy, G. E. (SM)
McFaul, Z. F. (A)
McGovern, M. J. (M)
Midgard, A., Jr. (A)
Miller, L. E. (A)
Mills, T. L. (M)
Montgomery, E. B. (A)
Moore, G. F. D. (M)
Morgan, H. L. (M)
Morrison, F. (M)
Moss, C. H., Jr. (A)
Nelson, J. L. (M)
Nicholas, J. C. (SM)
Nichols, R. H., Jr. (M)
Nichols, N. F. (A)
Nielson, L. C. (M)
Noon, J. R. (M)
Nordle, L. (SM)
Nyswander, R. E. (M)
Oldfield, H. R., Jr. (SM)
Oliver, D. S. (M)
O'Sullivan, M. J. (M)
Paden, A. R. (M)
Palmerson, P. J. (M)
Parmet, B. S. (SM)
Peabody, S. J. (M)
Pennington, R. J. (M)
Petersen, C. C. (M)
Peterson, M. E. (M)
Peterson, R. K. (A)
Phillips, T. A. (M)
Phipps, J. P. (M)
Porter, E. C. (M)
Porter, K. W. (M)
Pringle, D. L. (M)
Prochoda, R. (M)
Propster, C. H., Jr. (A)
Putman, W. G. (A)
Ranck, C. A. (A)
Reak, D. L. (M)
Reece, O. A. (M)
Reeves, D. B. (SM)
Reque, S. G. (M)
Reynolds, J. E. (A)
Reynolds, R. H., Jr. (SM)
Rice, R. B. (M)
Ringo, K. A. (SM)
Risk, W. P., Jr. (M)
Robbins, E. R. (A)
Roberts, R. E. (M)
Robinson, R. D. (SM)
Romans, C. N. (M)
Rook, C. W. (M)
Ross, H. M. (M)
Ross, J. M. (SM)
Russell, W. F. (M)
Sabel, A. R. (M)
Sabol, R. W. (SM)
St. Thomas, G. F. (M)
Samuelson, R. E. (F)
Sanborne, J. M. (M)
Sanneman, R. W. (M)
Saxon, W. R. (M)
Schaffner, G. (M)
Schauer, H. L. (M)
Schoephoerster, D. J. (M)
Scrafford, R. L. (M)
Shaffer, W. H. (M)
Shaner, J. R. (A)
Shaver, J. W. (A)
Shepard, E. S., Sr. (M)
Shower, E. G. (SM)
Shumway, K. J. (A)
Sittner, W. R. (SM)
Smith, A. L. (M)
Smith, L. R. (M)
Sokoloff, P. W. (SM)
Solem, R. J. (M)
Staats, R. U. (A)
Steele, E. L. (SM)
Stevens, C. R. (M)
Stokely, R. G. (M)
Stubbe, L. H. (A)
Sutter, C. G. (M)
Symons, D. M. (M)
Taras, S. M. (M)
Thomson, M. E. (A)
Thurmond, F. S. (A)
Tillman, W. F. (M)
Tinsley, C. G. (M)
Toberman, A. J. (SM)
Trego, D. G. (SM)
Tregub, B. G. (M)
Trotter, G. C. (M)
Vandiveer, P. R. (M)
Van Ness, B. O. (M)
Vecchio, E. A. (M)
Vlasak, W. R. (A)
Voigts, W. H. (A)
Waldvogel, J. (M)
Ward, S. A. (M)
Warriner, B. (SM)
Washburn, R. P. (SM)
Weaver, W. B. (M)
Weiler, J. H. (M)
Welch, H. W., Jr. (F)
Whitaker, W. H., Jr. (M)
White, E. A. (M)
Wiley, C. A. (M)
Wilhelm, R. L. (A)
Wilson, C. T. (M)
Winkler, M. R. (M)
Witt, R. P. (M)
Wittenburg, C. W. (A)
Woodside, W. J. (A)
Wooley, R. L. (SM)
Wunderlich, L. J. (A)
Yost, R. R., Jr. (M)
Zusman, D. (M)

Prescott (PHO-7)
Henson, H. W. (M)

Scottsdale (PHO-7)
Attwood, S. W. (M)
Barber, W. S. (M)
Barowsky, I. (M)
Barrow, D. M. (A)
Bebow, R. W. (M)
Berens, G. F. (SM)
Bracken, W. H. (M)
Bremmer, R. A. (M)
Brown, D. W. (M)
Chittenden, W. R. (A)
Coppock, R. A. (M)
Cusack, J. A. (M)
Dahl, W. E. (M)
Deerhake, F. M. (SM)
Dimucci, V. A. (M)
Diven, L. (SM)
Edwards, E. D. (M)
Englund, R. A. (M)
Estes, C. L. (SM)
Evans, D. C. (M)
Flickinger, W. J. (A)
Gabrielsen, F. T. (M)
Gabrielson, R. G. (A)
Gaunt, A. E. (M)
Gilpin, D. J. (M)
Gosswiller, R. O. (M)
Gray, G. E. (M)
Greeb, M. E. (M)
Green, H. H. (M)
Groth, E. J., Jr. (SM)
Hale, R. E. (A)
Hall, T. G. (A)
Hinsdale, J. G. (SM)
Hyder, H. R., III (SM)
Jacobi, G. T. (SM)
Kelting, W. M., Jr. (A)
Kneale, A. T. (M)
Knight, W. H. (M)
Knowles, C. H. (M)
Koch, J. G. (M)
Kret, D. B. (M)
Krueger, E. C. (M)
Kulb, B. A. (M)
Marion, T. M. (SM)
McKee, R. M. (A)
Minard, R. E., Jr. (A)
Mitton, D. V. (A)
Murray, M. W. (M)
Oates, H. W. (M)
Olson, J. B. (M)
Paine, J. A. (A)
Pine, C. C. (M)
Quinn, T. J., Jr. (A)
Raile, J. D. (M)
Rice, C. T. (SM)
Richman, M. A. (M)
Roehr, W. D. (M)
Row, R. J. (A)
Shannon, C. V. (M)
Shapiro, M. D. (M)
Sherko, R. J. (M)
Simpson, E. J. (A)
Stearns, W. P. (A)
Steele, R. B. (M)
Strong, D. E. (A)
Vilips, V. V. (A)
Waller, K. L. (M)
Wilkinson, C. O. (SM)
Winlund, E. S. (M)
Woolsey, R. A. (M)
Wurzburger, R. R. (M)

Sierra Vista (FT-H-7)
Coe, J. C. (SM)
Cork, L. E. (M)
Dell'Amico, J. D. (M)
Evjen, H. M. (SM)
Grady, G. E. (A)
Greeg, R. C. (M)
Hess, H. J. (M)
Inman, F. W. (A)
Jantz, M. A. (M)
McComber, C. A. (M)
Montasser, A. S. (M)
Newman, W. P. (A)
Perry, W. S., Jr. (M)
Sherbundy, C. D. (A)
Ternow, H. G. (M)
Treese, M. E. (A)
Walther, G. P. (M)

Sonoita (TUC-7)
Le Gendre, H. P. (M)

Tempe (PHO-7)
Adler, B. (A)
Ammerman, D. W. (SM)
Andrews, R. C. (A)
Board, C. Z. (A)
Busler, J. C. (A)
Cachelin, D. B. (A)
Clark, P. S. (A)
Collmer, R. C. (M)
Cronshey, R. W. (M)
Cuccio, A. B. J. (M)
Gaines, W. M. (SM)
Harkins, D. (A)
Hausman, D. I. (A)
Heaton, G. C. (M)
Helman, D. (M)
Lowney, S. W. (A)
Mayes, T. L., Jr. (M)
McCoy, E. C. (A)
Merritt, C. H. (SM)
Miragtia, J. F. (A)
Morton, D. E. (M)
Thibodeau, L. E. (A)
Weiss, H. (M)

Tolleson (PHO-7)
Wood, A. E. (A)

Tombstone (FT-H-7)
Ferguson, L. N. (A)
Pappas, J. (A)

Tucson (TUC-7)
Ajeman, M. S. (M)
Aldrich, J. L. (A)
Althouse, J. E. (M)
Anderson, M. A. (A)
Anderson, W. H. (A)
Andres, W. F. (M)
Armstrong, A. C. (A)
Balk, S. (M)
Bard, W. E. (A)
Bayless, C. R. (M)
Becker, C. L. (A)
Becker, S. (SM)
Bersbach, A. J. (SM)
Bialkowski, M. (M)
Blanchard, J. W. (M)
Blattman, L. A. (M)
Boulay, P. F. (M)
Boutin, C. U. (M)
Breeding, C. S. (SM)
Britton, J. W., Jr. (M)
Brown, H. W. (A)
Brown, T. R., Jr. (M)
Bundy, R. C. (SM)
Burch, E. C. (M)
Byrd, R. E. (A)
Carnevale, A. D. (A)
Chinnock, R. S. (M)
Cinquemani, A. P. (M)
Clark, H. L. (SM)
Clark, M. R. (M)
Clinton, A. B. (M)
Cole, J. E. (A)
Constantinides, J. S. (A)
Cook, W. E. (M)
Cooper, R. N. (M)
Crone, R. L. (SM)
Daly, W. E. (M)
Davis, R. G. (M)
De Bolt, A. L. (M)
Dickey, W. S. (SM)
Dlouhy, F. W. (M)
Donaldson, J. W. (M)
Doulgas, H. T. (M)
Dunn, E. J. (M)
Dusterdick, H. G. E. (M)
Eddy, R. C. (M)
Enloe, H. L. (M)
Featherston, J. R. (A)
Fessler, A. L. (M)
Finley, W. S. (M)
Forcier, R. A. (SM)
Ford, J. W. (M)
Fraser, D. W. (SM)
Friedman, M. F. (A)
Gartner, J. K. (M)
Gibbings, J. F. (M)
Gillespie, C. M., Jr. (M)
Glaesser, E. (M)
Gravell, A. J. (M)
Hangartner, J. E. (M)
Hanson, K. L. (M)
Hausenbauer, C. R. (M)
Haville, D. (M)
Hessemer, R. A., Jr. (M)
Hildreth, D. E. (A)
Hoehn, A. J., Jr. (SM)
Holladay, J. A. (M)
Houck, G. A. (M)
Howland, R. L. (A)
Hudgings, D. W. (SM)
Jackson, J. J. (M)
Janza, F. J. (SM)
Jorden, B. W., Jr. (M)
Kajiwara, Y. (A)
Kallmann, G. T. (M)
Kasten, J. W. (M)
Kenna, L. A. (M)
Kenney, B. D. (A)
Kernkamp, C. F. (A)
Knickerbocker, J. L. (M)
Koenig, W. A. (SM)
Koerner, H. (M)
Lappi, U. T. (A)
Larson, R. D. (M)
Leifheit, S. E. (A)
Lester, P. (M)
Lindenberg, E. C. (SM)
Little, D. E. (M)
Lynn, R. B. (A)
Manhart, R. A. (SM)
Marston, E. J. (A)
Martin, R. E. (M)
Martinson, G. O. (M)
McClellan, J. P. (M)
McGehee, W. W. (M)
McMullen, A. L. (M)
McSpadden, W. R., Jr. (M)
Mearls, W. J. (M)
Meyer, C. J. (M)
Meyer, R. J. (A)
Michalk, E. R. (M)
Miller, F. G. (SM)
Miller, R. J. (M)
Morris, W. J. (A)
Nielson, R. M. (A)
Nozick, S. (M)
Pascoe, D. (M)
Patterson, R. L. (M)
Perkins, A. N. (M)
Perkins, B. M. (A)
Perper, L. (SM)
Pestell, G. A. (SM)
Peterson, G. R. (M)
Pierce, E. P., Jr. (M)
Pinol, D. G. (M)
Ream, S. M. (M)
Reinecke, B. E. (SM)
Richards, D. W. (A)
Rogers, P. H. (M)
Russell, G. M. (SM)
Russell, P. E. (SM)
Schenck, G. C. (M)
Sinclair, G. W. (M)
Skinner, B. S., Jr. (M)
Smith, J. (A)
Spillane, J. K. (M)
Spogen, L. R., Jr. (M)
Stewart, H. E. (SM)
Stock, G. B. (A)
Storie, D. E. (M)
Stultz, L. R. (M)
Svien, A. J. (SM)
Swafford, J. E. (M)
Swartz, A. (A)
Tamminga, E. D. (A)
Taylor, C. K. (M)
Tihkan, G. (A)
Wade, J. A. (M)
Walker, G. A. (SM)
Walker, R. L. (M)
Walsh, L. R. (A)
Ware, H. W., Jr. (SM)
Watson, C. L. (A)
Wendahl, R. E. (A)
Wendt, R. B. (M)
Whatley, W. W. (A)
Whiteman, C. O. (M)
Wilde, N. (SM)
Williamson, A. K. (A)
Wilson, L. A., Jr. (M)
Wipff, F. P. (M)
Wozniak, J. R. (A)
Wright, K. F. (M)

Warren (FTH-7)
Harris, J. R. (A)

Winslow (PHO-7)
Hart, P. C. (A)

Yuma (PHO-7)
Powers, F. W. (A)

ARKANSAS

Cabot (LR-6)
Cordrey, E. E. (SM)

El Dorado (LR-6)
Barr, J. C. (M)
Sorrells, W. E. (A)

England (LR-6)
McClanahan, W. J. (A)

Fayetteville (LR-6)
Cannon, W. W. (M)
Green, J. W., Jr. (SM)
Lewis, F. W. (M)
Raible, R. W. (A)

Fort Smith (LR-6)
Duvall, G. (M)

Gravette (LR-6)
Durkee, J. D. (M)

Hope (LR-6)
Klipsch, P. W. (SM)

Jacksonville (LR-6)
Conklin, R. N. (M)

Judsonia (LR-6)
Green, N. R. (A)

Little Rock (LR-6)
Dillaplain, V. L. (SM)
Duncan, J. M. (A)
Edwards, J. M. (A)
Ellefson, G. E., Jr. (A)
Hammil, R. B. (M)
Hegar, E. A. (SM)
Kunkel, W. E. (A)
McDonald, A. E. (A)
Meness, W. (A)
Raedels, F. S., Jr. (A)
Reid, J. D. (F)
Warren, D. (A)
Weber, R. A. (M)
Wilson, F. J. (M)
Winn, D. L. (SM)
Wylie, J. E. (M)

Luxora (LR-6)
Edwards, J. L. (A)

Malvern (LR-6)
Beem, R. M. (SM)
Nider, M. E. (M)

North Little Rock (LR-6)
Lowery, H. J. (M)
Meyer, J. A. (A)
Mountjoy, G. (F)
Reed, A. L. (A)
Scott, G. H. (SM)

Pine Bluff (LR-6)
Basinger, E. G. (M)

Scott (LR-6)
McRae, J. P. (A)

Searcy (LR-6)
Bennett, H. W. (M)

Siloam Spring (LR-6)
Flanagan, J. R. (M)
Smith, C. E. (M)

Springdale (LR-6)
Anderson, M. K. (M)

Stuttgart (LR-6)
Burrow, W. R. (A)

Texarkana (SHR-6)
Beal, L. S. (A)

West Memphis (LR-6)
O'Bryant, R. O. (M)

CALIFORNIA

Agnew (SF-PA-7)
Duggan, J. E. (M)

Alameda (SF-EB-7)
Bodnar, L. L. (M)
Colvin, L. D. (M)
Hall, T. D. (M)
Hansen, H. M. (M)
Jensen, P. A., Jr. (M)
McNulty, J. W. (M)
Thompson, E. M. (M)

Alamo (SF-EB-7)
Bundrick, R. J. (A)

Albany (SF-EB-7)
Armstrong, R. S. (M)
Knapp, W. S. (M)
Olivares, J. E., Jr. (A)
Sorensen, R. W. (M)
Williamson, S. R. (M)
Wing, C. (M)

Alhambra (LA-P-7)
Balling, R. A. (M)
Bunker, E. R., Jr. (M)
Cary, H. H. (M)
Fernandez, F. (M)
Gleim, R. A. (M)
Gum, J. D. (M)
Hauerwaas, R. V. (M)
Hoffman, T. S. (A)
Horton, D. K. (M)
Jones, C. E. (M)
Kirk, C. E., Jr. (M)
Ludekens, L. E. (M)
Miller, W. A. (SM)
Seidner, O. R. (M)
Silk, N. R. (SM)
Telleson, N. (M)
Ule, L. A. (SM)
Weeks, A. D. (M)
Whitacre, D. P., Sr. (SM)
Wiker, G. A. (M)

Alondra (LA-7)
Cornell, J. R. (M)

Altadena (LA-P-7)
Acord, J. D. (M)
Alrich, J. C. (M)
Bagley, G. D. (SM)
Biedebach, M. C. (M)
Black, L. (M)
Braun, T. H. (M)
Braun, V. J. (SM)
Bruns, R. A. (M)
Collins, J. A. (M)
Cox, W. F. (A)
Davids, L. H. (M)
Davis, E. F. (M)
Davis, F. W. (A)
Diercks, A. D. (M)
Eichwald, W. F. (M)
Elkin, H. S. (A)
Fearman, E. L. (A)
Gossland, J. K. (SM)
Hare, G. H. (M)
Harker, R. B. (M)
Hartig, D. E. (M)
Heacock, R. L. (A)
Head, N. M., Jr. (M)
Heath, G. F. (M)
Ingall, W. E. (M)
Johnson, H. S. (M)
Jugend, J. (M)
Kalbach, J. F. (SM)
Kimmel, R. O. (M)
Lane, J. H. (M)
Leflang, W. G. (M)
Lewis, R. S. (A)
Linnes, K. W. (M)
Locanthi, B. N. (M)
Lolass, A., Jr. (M)
Lucas, E. D., Jr. (M)
Malling, L. R. (VA)
Marshall, R. (M)
Martel, H. C. (A)
Mathison, R. P. (M)
McCarthy, E. R. (A)
McCotter, G. R. (A)
Morris, R. V. (A)
Neumeyer, B. W. (M)
Pedigo, J. Y. (M)
Ramstedt, C. F. (M)
Riedel, J. C. (M)
Ross, I. (A)
Russell, A. W. (SM)
Schuster, D. (M)
Sem-Sandberg, S. (M)
Sharp, R. S. (A)
Shuey, C. W. (A)
Sink, R. L. (SM)
Sinnette, J. T., Jr. (A)
Slocomb, G. M. (A)
Sternke, E. C. (SM)
Szirmay, S. Z. (A)
Tehan, M. F. (A)
Thurman, R. V. (M)
Vircent, D. A. A. (M)
Watkins, K. S. (A)
West, L. E. (SM)
Westlake, P. R. (M)
Whitney, M. G. (A)
Willhard, W. J. (A)
Younger, U. E. (M)

Anaheim (LA-SA-7)
Acker, W. W. (M)
Alderete, C. T. (A)
Bailey, B. G. (A)
Beck, L. (M)
Bills, G. W. (M)
Brewer, H. E. (M)
Brown, J. H. (M)
Butler, D. S. (A)
Capobianco, J. A. (M)
Chien, K. L. (A)
Clark, T. L. (M)
Combs, M. E. (A)
Comer, F. E. (SM)
Conrad, E. (SM)
Cooney, K. B. (M)
Corvese, R. D. (A)
Cranston, E. M. (A)
Curry, W. S., Jr. (M)
Darringer, R. E. (M)
Doss, R. F. (M)
Doty, R. L. (SM)
Evinger, H. W. (A)
Ewing, D. L. (M)
Flock, D. C. (M)
Geiger, A. E. (M)
Glowacki, W. V., Jr. (M)
Glowalla, J. (SM)
Graham, H. E. (A)
Hinrichs, K. (SM)
Hoffman, M. (SM)
Hornung, J. F. (M)
Horwitz, H. C. (M)
Jacobsen, G. C. (M)
Jenkins, J. F., Jr. (SM)
Jeschke, A. W. (M)
Johnson, R. W. (SM)
Katz, L. (SM)
Kersch, C. J. (M)
King, L. C. (A)
Klein, W. J. J. (M)
Klimowski, F., Jr. (SM)
Kneppper, R. C. (M)
Lewis, J. D. (M)
Lewis, P. H. (M)
Lopez, R. L. (M)
Lulofs, J. R. (M)
Marable, W. T., Jr. (M)
Masin, G. F. (SM)
McCone, G. L. (M)
McFarlane, M. D. (F)
Mellas, A. (M)
Michael, H. (M)
Miller, R. D. (A)
Milligan, H. I. (M)
Morton, W. B., Jr. (M)
Myers, O. D. (A)
Nealey, C. C. (M)
Nielsen, C. L. (M)
Ogata, A. I. (M)
Olson, C. P., Jr. (M)
Pariser, J. J. (M)
Paschal, E. A. (M)
Payne, D. W. (M)
Perkel, D. (M)
Peters, G. (A)
Peterson, C. A. (M)
Peterson, H. C. (A)
Potwardowski, B. (M)
Pride, E. W. (SM)
Ramont, R. L. (A)
Rassier, D. B. (M)
Reamer, E. D. (M)
Redden, E. T. (A)
Reid, H. J. (A)
Rhoad, E. J. (SM)
Robinson, D. E. (A)
Rogers, J. G. (A)
Sargeant, H. I. (SM)
Sawyers, J. H. (M)
Schalk, N. (M)
Schenck, S. R. (A)
Schmitz, J. F. (M)
Shapin, T., Jr. (M)
Sierra, J. G. (M)
Smith, G. C. (A)
Smith, R. R. (SM)
Smith, S. L. (M)
Spencer, G. W. (M)
Squires, J. R. (A)
Stephens, E. J. (A)
Stiegelmar, L. R. (A)
Stone, J. A. (A)
Strickland, W. H. (M)
Tebay, J. E. (M)
Toeppe, W. J., Jr. (M)
Ullrich, W. J. (A)
Vogel, V. H. (M)
Wack, C. B. (A)
Waldron, R. C. (A)
Webster, G. C. (A)
Wendt, J. R. (M)
Wenick, R. L. (A)
Wilbur, D. I. (SM)
Williamson, R. J. (M)
Yerdon, G. W. (SM)
Yowell, C. O. (A)

Angwin (SF-7)
Neilsen, I. R. (M)

Apple Valley (LA-7)
Ball, L. G. (A)
Corlett, H. G. (A)
White, J. L. (M)

Arcadia (LA-P-7)
Anderson, R. I. (A)
Askren, P. S. (A)
Babeaux, A. G. (A)
Backus, R. A. (A)
Chandler, J. A. (A)
Cramer, F. W., Jr. (A)
Dietz, D. P. (A)
Eland, R. C. A. (M)
Fesko, J., Jr. (M)
Fiske, J. J. (M)
Foster, J. F. (M)
Fritz, W. (A)
Galavan, T. P. (A)
Grobecker, A. J. (M)
Hadady, R. E. (M)
Horton, E. J. (M)
Johnson, R. E. (M)
Lang, D. W. (A)
Martin, G. M., Jr. (M)
McLauchlan, J. M. (A)
Mulock, R. B. (M)
Nielsen, J. J., Jr. (SM)
Paquin, J. H. (SM)
Petraglia, N.E. (A)
Pitzer, R. L. (M)
Potter, P. D. (M)
Price, J. F. (M)
Qua, W. C. (A)
Robertson, G. R. (M)
Robinson, L. P. (SM)
Schindler, R. A. (M)
Schwarzmann, W. A. (SM)
Seiler, R. C. (SM)
Shaw, W. C., Jr. (M)
Sorge, B. W. (SM)
Sundberg, G. G. (M)
Swan, M. L. (SM)
Timothy, K. O. (M)
Waldschmidt, N. E. (A)
Walp, R. M. (A)
Whistler, W. J. (M)
Wilson, L. M. (A)

Arlington (LA-OB-7)
Baker, W. L. (M)
Besel, H. W. (M)
Bishop, B. E. (M)
Bogue, H. (A)
Bradshaw, S. R. (SM)
Braman, M. D. (M)
Campbell, F. D. (M)
De La Briandais, R. E. (M)
Galbraith, H. J. (M)
Grinius, L. L. (M)
Hoyt, E. P. (A)
Lott, L. R. (A)
MacAfee, J. W. (M)
Ralatos, P. A. (M)
Todd, B. J. (A)
Witbeck, L. H. (M)

Artesia (LA-SA-7)
Seldeen, D. J. (M)

Atherton (SF-PA-7)
Allison, J. E. (M)
Blanchard, H. P. (M)
Borden, H. C., Jr. (M)
Byrne, P. F. (SM)
Crapuchettes, P. W. (M)
Eldred, W. N. (SM)
Jones, R. M. (SM)
Kane, R. W. (M)
McCullough, J. V. (A)
Moore, N. H. (SM)
Ross, D. H. (M)
Scofield, P. F. (SM)
Walters, G. A. (SM)

Atascadero (LA-SA-7)
Wallace, A. O. (M)

Auburn (SAC-7)
Chesney, A. P. (SM)
Davenport, W. L., Jr. (M)

Azusa (LA-OB-7)
Clark, P. A. (M)
Gispen, S. J. (M)
Jamieson, J. A. (M)
Moss, J. F., Jr. (A)
Torbron, J. T. (M)
Zaxman, B. (M)

Bakersfield (LA-7)
Andress, E. A. (M)
Hoffman, R. D. (A)
Mazziotti, A. J. (A)
Voge, F. (A)
Whiting, W. E. (M)

Balboa (LA-SA-7)
Gardner, R. S. (SM)

Balboa Island (LA-7)
Ehlers, M. W. (A)
Hansen, E. H. (SM)

Baldwin Park (LA-OB-7)
Michie, C. G. (M)

Beaumont (LA-7)
Hotine, W. (M)

Bell (LA-7)
Barquist, W. S., Jr. (M)
Louie, W. (A)
Zelenay, J. (A)

Bellflower (LA-SA-7)
Bean, R. C. (M)
Brannian, W. R. (M)
Cone, R. D. (M)
Creswell, J. C. (A)
Eskridge, T. P. (M)
Maticich, J. R. (M)
Noar, R. (A)
Richter, W. A. (M)
Thompson, M. F. (SM)

Bell Gardens (LA-7)
Adams, R. L. (A)
Rickard, L. D. (A)
Roper, M. M. (M)

Belmont (SF-PA-7)
Bianco, J. D. (M)
Bly, T. S. (M)
Carter, J. M. (SM)
Convery, T. J. (A)
Curphey, D. G. (M)
Damonte, J. B. (M)
Ehrmantraut, H. C. (A)
Ellison, T. A. (M)
Gates, W. F. (M)
Hack, W. L. (A)
Hale, E. H. (A)
Hillesland, C. B. (M)
Huebler, M. A. (M)
Hyne, A. D. (M)
Johnson, R. E. (M)
Johnstone, F. C. (M)
Lee, S. (M)
Leonard, W. D. (M)
Towne, A. E. (M)
Zellmer, N. A. (M)

Berkeley (SF-EB-7)
Acker, R. C. (SM)
Allison, R. W., Jr. (A)
Anderson, J. R. (M)
Angelakos, D. J. (SM)
Anger, H. O. (M)
Baron, A. A. (M)
Bently, D. E. (M)
Binnall, E. P. (M)
Bonner, H. W. (M)
Bourne, H. C., Jr.
Brown, F. W. (M)
Brown, L. E. (M)
Buffum, J. H. (A)
Bullock, J. B. (A)
Chou, T.-L. (M)
Clapp, F. D. (SM)
Cole, C. E. (A)
Cooke, L. G. (M)
Corey, V. B. (M)
Davis, D. D. (M)
Desoer, C. A. (SM)
Ellsworth, R. L. (M)
Evans, F. (SM)
Farly, G. M. (SM)
Fass, S. J. (VA)
Fleming, R. W. (M)
Freeman, E. D. (M)
Freeman, J. R. (A)
George, A. J. (M)
Gerchberg, R. W. (A)
Gill, A. (M)
Goldsmith, A. (M)
Gorham, D. H. (M)
Guilford, E. C. (M)
Harvey, M. J. (M)
Heard, H. G. (M)
Hill, L. O. (A)
Hopkin, A. M. (A)
Hunter, J. (A)
Huskey, H. D. (M)
Iwamoto, I. (M)
Johnson, B. M. (A)
Jorge, C. D. (A)
Jury, E. I. (SM)
Kluver, B. (A)
Kuh, E. S. (M)
Lichtenberg, A. J. (M)
Lippmann, B. A. (SM)
Lutz, I. C. (SM)
Lux, P. A. (M)
Mack, D. A. (SM)
Manabe, S. K. (M)
McCullough, W. R. (M)
Melvin, R. M. (A)
Morris, R. J. (M)
Morton, P. L. (F)
Nankamura, M. (M)
Nelson, W. H. (SM)
Nishizaki, R. (M)
Noller, W. E. (SM)
Oden, D. E. (M)
Ogg, R. D. (M)
Paxson, B. L. (M)
Pederson, D. O. (M)
Pope, J. C. (A)
Poulsen, J. E. (A)
Pritchett, W. (SM)
Rector, R. H. (SM)
Reukema, L. E. (F)
Rudkin, R. L. (M)
Rumsey, V. H. (SM)
Russell, J. A. G. (M)
Rutkin, B. B. (A)
Scott, D. A. (A)
Scott, H. J. (SM)
Shiu, P. D. C. (A)
Silver, S. (F)
Singer, J. R. (M)
Sloan, D. H. (SM)
Smith, A. J. (M)
Smith, B. H. (SM)
Smith, O. J. M. (SM)
Soule, W., Jr. (A)
Strothman, R. A. (M)
Stubbins, W. F. (SM)
Susskind, C. (SM)
Taskett, D. A. (M)
Thomasian, A. J. (M)
Thornton, D. D. (M)
Turner, S. E. (A)
Vogelsberg, F. E. (A)
Von Winkle, W. A. (A)
Westwick, O. B. (M)
Whinnery, J. R. (F)
Williams, C. S. (A)
Windsor, A. A. (M)
Wong, R. B. (M)
Woodyard, J. R. (M)

Beverly Hills (LA-7)
Albin, F. G. (A)
Beamish, J. C. (A)
Cannon, H. L. (A)
Clark, J. D., III (M)
Coil, E. A. (A)
Crawford, A. A. (SM)
Davis, J. F. (M)
Ellis, D. O. (M)
Fisch, M. W. (A)
Frankel, S. (F)
Gianoplus, A. S. (M)
Harmon, W. S. (SM)
Hatch, M. M. (M)
Higdon, R. V. (SM)
Johnson, H. (M)
Korn, I. I. (M)
Krack, J. J. (A)
Leonard, T. J., Jr. (M)
Lichterman, G. (M)
Lieberman, I. J. (A)
Magnuson, R. W. (M)
McWaid, John A. (A)
Moller, J. K. (SM)
Nat, J. H. (A)
Paine, N. W. (M)
Paskusz, G. F. (M)
Pederson, W. O. (M)
Phillips, H. D. (M)
Pourtales, J. R. (A)
Rifkind, J. (A)
Rutherford, C. E. (SM)
Shannon, F. J., Sr. (SM)
Stuckelman, R. M. (M)
Terry, R. L. (SM)
Wager, J. W. (M)
Westman, J. J. (M)
Wilkening, C. F. (M)
Wilson, T. A. (SM)
Winchell, R. W. (M)
Wise, J. A. (M)
Wolcott, C. F. (F)

Bishop (CL-7)
Rudolph, E. (A)

Boron (CL-7)
Poulson, W. A. (M)

Brawley (SD-7)
Korbe, A. J. (M)

Brea (LA-SA-7)
Donner, W. (M)
Kirk, R. J. (M)

Buena Park (LA-SA-7)
Armstrong, T. J. (A)
Brunn, K. R. (A)
Cornelius, W. B. (A)
Cuningham, G. W. (A)
Dampier, W. P. (M)
Demeter, J. P., Jr. (M)
Dooley, R. (M)
Ferwalt, W. H. (A)
Fleischmann, F. A. (A)
Hovda, R. E. (A)
Kemper, D. M. (A)
Nickerson, H. H. (A)
Rose, T. L. (A)
Sisco, W. B. (M)
Sprong, D. C. (M)
Stack, T. K. (M)
Tilkens, G. C. (M)
Underwood, T. W. (A)

Burbank (LA-SF-7)
Ames, B. C. (M)
Askins, J. J., Jr. (A)
Babcock, D. F. (SM)
Baworouski, J. (A)
Beans, J. B. (A)
Bennett, P. L. (M)
Brockway, D. C. (VA)
Brown, C. W. (M)
Bukhdud, J. (A)
Bunce, J. W. (M)
Bush, L. A. (A)
Campbell, D. E. (SM)
Casey, J. D. (M)
Clabaugh, R. G. (M)
Clark, R. W., Jr. (M)
Clarke, F. H., Jr. (SM)
Coe, W. G. (SM)
Coogan, J. H. (A)
Davis, W. K. (M)
Edgerton, A. K. (M)
Everett, F. A. M. (VA)
Fawcett, K. D., Jr. (A)
Fox, C. W. (M)
Fredendall, B. F. (M)
Frieburg, H. E. (A)
Ganzenhuber, J. H. (SM)
Gilbert, E. M. (SM)
Goda, O. S. (A)
Hathaway, J. C. (M)
Hoff, K. (SM)
Holbrook, J. G. (M)
Humphrey, J. F. (M)
Huston, Q. E. (M)
Hutchinson, W. M. (M)
Johnson, L. Z. (M)
Jones, W. F. (M)
Kent, R. C. (SM)
Kriz, K. H. (SM)
Kwiatkowski, S. W. (A)
Lamphear, G. (A)
Lehan, F. W. (SM)
Lewis, H. O. (M)
Markley, J. E., Jr. (A)
Martin, W. R. (SM)
Mather, T. S. (M)
Matthews, C. (SM)
McAdam, J. C. (M)
Merryman, W. R. (M)
Milewski, J. A. (A)
Miller, J. A. (M)
Mintz, F. (M)
Mitchell, J. A. (A)
Monfort, R. A. (SM)
Mont, C. H. (A)
Morioka, F. K. (A)
Mosier, R. R. (SM)
Moss, A. R. (M)
Motley, D. M. (M)
Moyer, J. N. (SM)
Mueller, W. A. (M)
Mullich, G. L. (M)
Myers, J. L. (M)
Nicol, R. A. (M)
Ottoboni, F. G. (A)
Pearlman, J., Jr. (M)
Primozich, F. G. (A)
Quist, R. C. (M)
Romandia, P. R. (A)
Sassman, R. W. (M)
Schreiber, W. F. (M)
Schwartz, H. (SM)
Schwartz, N. A. (M)
Seitz, F. R. (VA)
Sell, D. D. (M)
Selvidge, H. (F)
Shahan, O. (M)
Sigler, H. R., Jr. (SM)
Slingerland, K. D. (M)
Smith, C. A., Jr. (A)
Stewart, E. W. (M)
Taylor, V. L. (M)
Tzschentke, H. A. (M)
Wainscott, D. M. (A)
Walz, D. A. (M)
Warrington, W., Jr. (A)
Weatherford, R. V. (A)
Woodard, T. C. (M)
Woodring, R. L. (A)
Zilm, C. F. (M)

Burlingame (SF-7)
Haines, W. D. (M)
Halina, J. W. (M)
Helseth, R. S. (M)
Long, C. R. (M)
Myers, J. S. (A)
Petitjean, A. E. (A)
Reinartz, J. L. (F)
Reyna, R. C. (M)
Turkot, A. (A)
Wilke, R. R. (SM)
Wunderlich, G. F. (SM)

Calabasas (LA-SF-7)
Clavin, A. (M)
Elliott, R. S. (SM)
Krausz, R. (SM)
Oyster, D. E. (M)
Rosen, S. A. (M)
Schetne, H. A. (M)

Calexico (SD-7)
Aguilar, A. (A)
Lacarra, A. A. (A)

Camarillo (LA-B-7)
Angle, E. E. (M)
Buland, R. N. (M)
Githens, D. P., Jr. (M)
Harvey, J. P. (M)
Jennett, N. E., Jr. (M)
Keller, E. G. (A)
Lund, F. H. (M)

Camino (SAC-7)
Ozment, W. L. (M)

Campbell (SF-7)
Allen, F. K. (M)
Rowley, J. J. (A)
Thompson, A. J. (M)

Canoga Park (LA-SF-7)
Aiken, W. S. (SM)
Alexander, W. L. (M)
Altermatt, R. B. (M)
Angle, S. L. (A)
Ape, F. E. (A)
Baker, B. W. (M)
Barton, R. L. (A)
Bauman, V. R. (A)
Bemis, P. S. (M)
Bertucci, J. F. H. (M)
Bohl, R. J. (M)
Buchholz, C. W. (A)
Cappe, J. W. (M)
Carson, D. G. (M)
Chapman, H. R. (A)
Childs, R. D., III (M)
Cooper, H. V. (M)
Corbin, G. C. (A)
Crawford, D. B. (A)
Cummins, E. L. (A)
Cuttler, W. D. (M)
Davis, K. A. (A)
Deuser, D. A. (M)
Dorrell, V. A., Jr. (M)
Flint, J. C. (A)
Ford, J. P. (SM)
Geary, L. W. F. (SM)
Gebel, J. L. (A)
Gehrke, R. A. (M)
Gleason, M. J. (M)
Glerum, I. L. (A)
Goldstein, A. (M)
Graham, R. F. (M)
Graham, W. (M)
Grant, P. M. (M)
Heald, E. T. (SM)
Hitz, G. D. (M)
Hoefener, C. E. (A)
Hoff, R. G. (M)
Homer, E. G. (M)
Hund, E. (M)
Jacobsen, D. W. (A)
Johnston, M. H. (A)
Kime, K. L. (M)
King, J. E. (A)
Kline, K. H. (SM)
Kohn, I. A. (M)
Kouba, J. T. (A)
Kroeckel, C. H. (M)
Landwald, A. (M)
Laubenstein, R. A. (M)
Leach, H. L. (A)
Makush, W. S. (M)
Mason, A. A. (A)
McAfee, P. (A)
McCurley, E. A. (M)
McKeown, B. F. (A)
Milham, R. F., Jr. (M)
Mogiewer, S. (M)
Mooney, G. F. (A)
Nause, B. M. (M)
Powell, W. K. (M)
Pratt, J. W., Jr. (M)
Putnam, B. G. (M)
Ramsauer, F. J. (A)
Rice, S. M. (M)
Rodine, J. C. (M)
Ross, H. H., Jr. (M)
Ruck, H. C. (M)
Silverstein, M. M. (M)
Sisson, A. R. (SM)
Sutton, W. R. (M)
Tenney, J. E. (M)
Thomas, R. (M)
Trenholm, R. B. (M)
Weatherford, A. V. (M)
Webb, C. A. (A)
Weber, D. R. (M)
Westenhaver, J. L. (M)
Wilson, F. V. (A)
Whitten, G. A. (M)
Wood, R. J., Jr. (A)

Cardiff-By-The-Sea (SD-7)
Casal, F. G. (A)

Carmel (SF-7)
Chitwood, J. S., Jr. (A)
Martinez, H. M. (A)
Pastel, M. P. (M)

Carmel Valley (SF-7)
MacDonald, F. W. (SM)

Carmichael (SAC-7)
Ashley, A. B. (M)
Bills, G. R. (A)
Hajnik, A. T. (A)
Hendrickson, R. J. (M)
Kelliher, J. E. (VA)
Wilson, J. T. R. (M)

Carpinteria (LA-SB-7)
Scholz, P. A. (SM)
Wise, G. C. (A)

Castro Valley (SF-EB-7)
Airhart, R. V. (M)
Diamond, A. M. (M)
Kippenhan, D. O. (A)
Rothman, H. L. (A)

Central Valley (SAC-7)
Maki, P. J. (A)

Chatsworth (LA-SF-7)
Babbe, E. L. (M)
Bowers, E. O. (A)
Shlonsky, L. P. (A)
Smith, J. D. (M)
Weems, S. (A)

Chico (SAC-7)
Clausnitzer, F. W. (A)
Cordray, R. E. (A)
Young, M. E. (A)

China Lake (CL-7)
Afendykiw, M. (M)
Arnold, P. G. (M)
Ashbrook, F. M. (SM)
Atkinson, R. E. (M)
Bell, W. C. (A)
Beresford, D. R. (M)
Berryman, A. R. (A)
Boyle, J. M. (M)
Breitenstein, R. E. (M)
Bryant, L. D. (M)
Carlisle, F. L. (M)
Crawford, J. A. (M)
Creusere, M. C. (M)
Davis, F. H. (M)
Davis, G. W. (M)
De Groot, N. F. (M)
Dember, A. B. (A)
Deyoe, D. C. (M)
Domen, S. L. (M)
Dorsey, S. E. (M)
Ducoff, G. (M)
Everett, J. A. (A)
Farrington, H. W. (A)
Ferris, A. B. (A)
Field, W. A. (M)
Freeman, C. F. (M)
Gates, D. E. (M)
Glatt, B. (A)
Goff, H. C. (M)
Gregory, J. H. (SM)
Harris, J. F. (A)
Heeke, G. D. (M)
Herman, R. W. (M)
Hilker, H. V. V., Jr. (A)
Hummer, R. F. (M)
Jeung, J. L. (A)
Johanboeke, R. B. (M)
Kermode, D. W. (M)
Kim, P. K. S. (M)
Koster, R. A. (A)
Lawrence, R. E. (M)
Loper, W. E. (M)
Lowe, N. (M)
McLane, J. J. (M)
McLean, W. B. (SM)
Merriam, R. T. (M)
Miller, J. H. (M)
Neal, C. L. (M)
Olikkala, E. E. (M)
Ostenso, A. S. (A)
Reins, E. R., Jr. (M)
Robinson, G. G. (M)
Ronning, H. N. (A)
Rosenberg, H. W. (M)
Rountree, W. R. (A)
Seibold, J. M. (M)
Skeeters, R. N. (M)
Smith, R. T. (M)
Stevenson, D. D. (A)
Sykes, L. (A)
Thomas, A. H. (M)
Vore, W. E. (M)
Warr, G. D. (M)
Weber, J. E. (A)
Wickenden, R. C. (A)
Zellmer, W. G. (A)
Zilmer, D. E. (A)

Chula Vista (SD-7)
Butler, B. L. (A)
Chiles, J. R., Jr. (A)
Hart, J. M. (M)
Hauk, G. L. (A)
Rockwood, J. B. (M)
Senn, J. C. (M)
Taylor, W. G. (M)
Varian, R. H. (A)
Wilson, W. R. (M)

Citrus Heights (SAC-7)
Hartman, K. L. (M)
Jones, A. F. (M)

Claremont (LA-OB-7)
Ackerman, F. G. (M)
Agerholm, M. (M)
Andrew, V. J. (F)
Antul, J. J. (SM)
Block, K. A. (M)
Carroll, L. R. (M)
Chrystie, H. (M)
Culver, C. A. (F)
De Baker, J. L. (M)
Depew, H., Jr. (M)
Gaddis, L. W. (M)
Gibbons, T. J. (SM)
Grumbein, P., Jr. (M)
Guay, J. F. (A)
Guinane, J. E. (A)
Hansen, O. B. (M)
Hennings, H. H. (A)
Hostetler, R. R. (M)
Irvine, R. G. (M)
Jacobson, O. M. (M)
Kuntz, G. L. (A)
Lindquist, J. R. (A)
Lloyd, A. T. (M)
McDowell, D. E. (A)
Montgomery, J. D., Jr. (M)
Newbold, R. F. (M)
Pile, D. H. (SM)
Porter, J. W. (A)
Schock, J. O. (SM)
Street, N. C. (M)
Strem, S. E. (M)
Taylor, A. H. (F)
Wildman, R. C. (SM)
Young, C. W. (SM)

Colton (LA-OB-7)
Hollinrake, J. M. (M)

Compton (LA-7)
Bakst, A. A. (A)
Balgenorth, G. V. (M)
Bravo, M. V. (A)
Duarte, S. R. (M)
Hayman, W. H. (M)
Hitterdal, A. B. (M)
Isaacs, J. P. (M)
Layson, W. L. (A)
Moulton, J. A. (M)
Pritchette, T. J. (A)
Schneider, R. L. (M)
Steele, R. W. (M)
Willcocks, S. J. (A)

Concord (SF-EB-7)
Billinghurst, E. M. (M)
Bogdanoff, A. G. (M)
Castanera, T. E. (A)
Clemens, G. W., Jr. (M)
Hyde, W. E., Jr. (M)
Kimes, R. E. (A)
Landeck, O. (A)
Mancuso, W. (A)
Perry, C. L. (M)
Rossi, F. J. (M)
Thomas, C. L. (A)

Corona (LA-OB-7)
Adrian, D. J. (M)
Bastedo, G. R. (SM)
Bell, D. E. (M)
Berry, J. J. (M)
Blank, S. (M)
Bulgerin, H. A. (A)
Burns, J. D. (M)
Dealy, M. E. (A)
Dorn, C. G. (A)
Emerson, R. R. (A)
Espeland, R. H. (M)
Gaddie, G. E. (M)
Ganahl, P. J. (SM)
Gosley, A. W. (M)
Hamilton, R. E. (A)
Harris, E. A., Jr. (M)
Heywood, N. A. (M)
Husten, B. F. (SM)
McCormick, E. M. (SM)
McCroskey, A. A. (SM)
Meggers, W. F., Jr. (M)
Munn, R. E. (M)
Nordseth, M. P. (M)
Peringer, P. (A)
Sakamoto, R. (M)
Scharp, G. A. (A)
Scheets, D. F. (SM)
Snoke, C. E., Jr. (SM)
Strother, C., Jr. (M)
Talbot, R. V. (A)
Van Orsdel, K. A. (M)
Walters, A. W. (M)
Whiteley, T. B. (M)
Weiss, A. (A)
Wieder, H. H. (M)
Wood, B. C. (M)

Corona Del Mar (LA-SA-7)
Goodwin, P. H. Jr. (M)
Koueiter, M. N. (M)
Lynch, F. W. (SM)
Straw, L. J. (M)
Wilderman, L. F. (M)

Coronado (SD-7)
Bowen, C. H. (A)
Franks, B. W. (M)
Garard, E. A. (SM)
Held, R. W. (M)
Leavenworth, R. A. (M)
McDonald, W. H. (M)
Metcalfe, J. D. (M)
Roark, L. A. (M)
Sawicki, M. J. (A)
Sturtevant, H. B., Jr. (A)
Toohill, D. L. (M)

Costa Mesa (LA-SA-7)
Akers, R. (M)
Barges, S. J. (M)
Howard, R. C. (SM)
McClay, M. (M)
Noto, R. (M)
O'Donoghue, H. J., Jr. (M)
Robinett, D. B. (A)
Schneider, S. (A)

Covelo (SF-7)
Brown, E. L. (M)

Covina (LA-OB-7)
Anderson, R. W. (M)
Bertness, P. N. (A)
Bewley, L. L. (A)
Buryn, E. C. (A)
Carlson, H. (A)
Cohen, L. B. (M)
Grossman, J. J. (M)
Janssens, E. L. (SM)
Johnson, C. W. (M)
Johnston, D. L. (A)
Jones, E. L. (M)
Jones, J. G. (VA)
Joyce, J. H. (M)
Kring, J. D., Jr. (M)
Little, B. W. (A)
Lord, D. S. (SM)
Lowe, M. E. (M)
Luty, R. C., Jr. (A)
MacDonald, D. A. (M)
McAllister, M. W., Jr. (A)
Mleczko, E. L. (M)
Neal, F. A. (A)
Powers, K. G. (M)
Rahlf, J. P. (A)
Richmond, C. D. (M)
Skaggs, E. R. (M)
Sylvester, G. E. (M)
Weatherall, T. Q. (M)

Crannell (SF-7)
Kidder, R. T. (A)

Cucamonga (LA-OB-7)
La Porte, R. J. (M)
Penland, C. L. (A)

Culver City (LA-7)
Adcock, M. D. (SM)
Adomian, G. (SM)
Althaus, E. J. (A)
Ankrum, P. D. (M)
Armstrong, H. L. (M)
Bailey, J. C. (M)
Baker, R. E. (M)
Baldwin, L. W. (SM)
Barlow, D. S. (SM)
Barnes, S. H. (M)
Barnett, J. T. (M)
Bateman, L. J. (M)
Bates, D. J. (M)
Bauerschmidt, D. K. (M)
Beecher, D. E. (M)
Benetler, L. E. (M)
Berk, A. D. (SM)
Biegel, E. C. (M)
Birnbaum, G. (M)
Bordelon, S. A., Jr. (M)
Buchman, W. W. (M)
Burns, G. A. (VA)
Byington, P. W. (SM)
Campbell, G., Jr. (M)
Campbell, R. A. (SM)
Chalfin, N. L. (M)
Chernin, M. G. (SM)
Chiaretta, F. L. (M)
Christoffers, W. H. (M)
Clark, M. A. (SM)
Cohen, J. (M)
Cox, H. N. (A)
Craven, W. A., Jr. (M)
Curl, G. W. (A)
Currie, M. R. (SM)
Day, R. A. (A)
De Villier, J. (M)
Dibos, R. A. (M)
Dickey, D. R. (M)
Dirnbach, P. H. (M)
Dodak, M. (M)
Doig, A., Jr. (SM)
Donald, B. L. (M)
Doshay, I. (SM)
Eastman, R. S. (A)
Edmonds, A. (M)
Ellis, J. R., Jr. (M)
Eschner, A., Jr. (SM)
Euler, K. C. (A)
Fafarman, A. (M)
Felber, J. F. (M)
Field, L. M. (F)
Fuller, R. H. (A)
Glaser, P. S. (M)
Gold, A. R. (M)
Goldman, S. J. (A)
Goldstein, S. (M)
Greenberg, E. L. (M)
Griffiths, F. J. (A)
Guptill, H. R. (A)
Hall, N. I. (F)
Hansen, J. M. (SM)
Hansen, R. C. (SM)
Hellwarth, R. W. (M)
Herrnfeld, F. P. (SM)
Hiebert, R. P. (A)
Hiehle, M. E. (SM)
Hill, D. A. (SM)
Hirshson, R. M. (M)
Holmes, J. S. (M)
Hull, R. E. (M)
Hyland, L. A. (F)
Hyneman, R. F. (M)
Jameson, D. C. (SM)
Jerrems, A. S. (SM)
Johnson, D. H. (SM)
Julian, R. S. (SM)
Keller, B. W. (M)
Kelly, D. S. (M)
Kelly, P. M. (M)
Klapp, C. D. (A)
Klein, E. A. (M)
Klein, S. L. (A)
Klestadt, B. (SM)
Knechtli, R. C. (M)
Knowlton, C. S. (M)
Koda, N. J. (M)
Kramer, A. G. (A)
Kreinheder, D. E. (M)
Levin, S. (M)
Livesay, M. A. (SM)
Long, M. C. (M)
Lotterman, C. (A)
Lunn, W. B. (A)
Lym, V. W. (M)
Lyons, H. (F)
Maserjian, J. (M)
Maxey, T. J. (SM)
Mayper, V., Jr. (M)
McCoy, J. G. (M)
McFadden, B. W. (M)
McMullen, W. H. (A)
Medow, A. (A)
Mendel, J. T. (M)
Miwa, T. M. (M)
Miya, K. (A)
Muller, R. S. (M)
Munushian, J. (A)
Nelson, J. S., Jr. (A)
Nevins, J. E., Jr. (SM)
North, H. Q. (F)
Odlum, F. H., Jr. (A)
Olson, R. F. (M)
Parode, L. C. (SM)
Paul, P. F. (M)
Piecha, L. M. (M)
Pitta, G. G. (A)
Platt, W. D. (M)
Plummer, D. (SM)
Proud, W. H. (M)
Purl, O. T. (SM)
Ranftl, R. M. (SM)
Reed, W. P. (M)
Regal, W. J. (A)
Rice, R. P. (M)
Ritchie, W. C., Jr. (M)
Riley, R. L. (M)
Robin, G. W. (A)
Rodgers, V. P., Jr. (M)
Root, Charles S. (SM)
Rubel, J. H. (M)
Santandrea, A. (M)
Savo, T. A. (M)
Schnauss, E. R. (M)
Schoen, S. (M)
Scholnick, S. A. (A)
Schoniau, F. K. (M)
Schwartz, E. V. (M)
Senf, G. A. (A)
Shamban, W. S. (A)
Shank, R. J. (F)
Siepian, P. (M)
Smith, H. M. (SM)
Smith, H. F., Jr. (M)
Solla, A. F. (M)
Stear, E. B. (A)
Stitch, M. L. (SM)
Stone, E. S. (M)
Swanson, G. W. (A)
Talcott, G. P. (SM)
Talle, C. A. (A)
Tang, R. (M)
Tate, W. R. (M)
Tauber, R. W. (M)
Taylor, J. M. (M)
Thomas, A. H., Jr. (M)
Thompson, B. V. (SM)
Tobin, G. C. (A)
Trapeur, R. E. (M)
Vall, A. E. (M)
Van Atta, L. C. (F)
Van Horne, T. B. (M)
Wager, M. C. (M)
Waldron, R. C. (M)
Warren, J. R. (A)
Watanabe, E. (M)
Weber, G. J. (M)
Wegman, R. S. (SM)
Wilcox, C. H. (M)
Williams, J. V., Jr. (SM)
Wilmot, R. D. (M)
Wolfe, L. L., Jr. (M)
Wong, K. L. (M)
Woodruff, M. J. (M)
Young, G. O. (SM)

Cupertino (SF-7)
Anderson, R. A. (M)
Bettendorff, O. A. (M)
Blessing, R. L., Jr. (M)
Bustamante, H. A. (M)
Chesebro, E. L. (M)
Colin, C. B. (M)
Cottrell, C. J. (A)
Forge, C. O. (M)
Forget, T. W. (M)
Gillmeister, F. W. (VA)
Hart, A. L. (M)
Henesian, A. (A)
Henry, E. W. (M)
Holaday, R. E. (A)
Hoover, L. R. (A)
Jeter, I. E. (M)
Norans, M. (M)
Patterson, K. P. (SM)
Perry, R. L. (M)
Rickey, R. G. (A)
Roth, I. (M)
Theisner, W. G. (A)
Varian, R. H. (F)

Cutler (SF-7)
Walston, A. G. (M)

Daly City (SF-7)
Harris, J. M. (A)
Heiley, R. M. (M)
Tudor, B. J. (A)

Danville (SF-EB-7)
Bunn, H. L. (M)
Norris, N. J. (A)

Davis (SAC-7)
Jacob, F. C. (M)

Davis Creek (SAC-7)
Dolan, R. P. (M)

Del Mar (SD-7)
Boelens, J. (A)
Jones, W. C. (M)
Levy, G. S. (M)
Robbins, L. E. (A)
Westerwick, R. A. (M)
Widenmann, J. A. (M)

Del Paso Heights (SAC-7)
Pehrson, C. R. (A)

Denair (SAC-7)
Sayre, M. B. (M)

Descanso (SD-7)
Fralick, S. C. (M)

Diablo (SF-EB-7)
Gallaher, J. F. (SM)

Diamond Springs (SAC-7)
Triplett, H. W. (M)

Downey (LA-SA-7)
Abeyta, J. P., Jr. (M)
Agalsoff, J. (A)
Alfrey, P. R. (M)
Altman, G. G. (M)
Baggao, J. J. (A)
Bashore, C. E. (A)
Beall, A. (M)
Bell, H., Jr. (A)
Bower, J. L. (SM)
Boyer, R. J. (M)
Bruemmer, R. K. (M)
Bunker, R. S. (M)
Butterbaugh, J. N. (M)
Butler, A. G. (M)
Campbell, A. T. (M)
Clements, Z. S. (A)
Cliffgard, A. (M)
Comyns, L. S. (M)
Davis, D. A. (A)
Decker, O. T. (A)
Deutsch, W. F. (M)
Dudler, D. R. (M)
Duncan, D. B. (SM)
Hailey, R. D. (A)
Harper, C. E. (A)
Haynes, J. (M)
Henry, J. L., Jr. (M)
Hochwald, W. (SM)
Hodson, W. G. (SM)
Je Schonek, A. A. (A)
Johnson, M. W. (M)
Kennel, J. M. (SM)
Kilpatrick, L. L. (M)
Kilroy, J. J. (SM)
Knobbe, L. J. (A)
Kukel, J. (M)
Leicester, J. F., III (M)
Markson, J. L. (A)
Marosz, M. J. (M)
Marshall, B. (M)
McDonald, C. E. (A)
Melgaard, J. L. (SM)
Mielke, J. J. (M)

Morgan, V. T. (M)
Nameth, J. F. (A)
Nelson, R. A. (M)
Palmer, W. E. (M)
Phelps, J. F., Jr. (M)
Pollack, M. (SM)
Pope, W. S. (M)
Popp, D. R. (A)
Rasmussen, C. F. (M)
Sandusky, Z. A. (M)
Schmid, R. C. (SM)
Schumann, W. A. (M)
Schwab, B. B. (M)
Shelley, R. G. (SM)
Singleton, H. E. (SM)
Smyth, R. K. (M)
Szabo, J. E. (A)
Tarca, E. L. (A)
Tengelsen, W. E. (M)
Trousdale, R. B. (M)
Varanay, C. J. (M)
Weber, R. L. (M)
White, J. G. (M)
Williams, N. (M)
Wolfe, A. E., Jr. (M)
Wong, D. W. (M)
Worden, D. M. (M)

Duarte (LA-P-7)
Bain, M. B. (M)
Boyle, R. J. (M)
Carney, D. E. (A)
Hooper, P. B. (A)
Lawrence, M. M. (M)
Sear, A. W. (SM)
Sitler, G. W. (A)
Williams, G. E. (A)

East Palo Alto (SF-PA-7)
Foster, J. H. (M)
Iseri, C. H. (A)
Learnard, H. P. (A)
Wye, R. E. (M)

East Whittier (LA-SA-7)
Sorensen, E. G. (M)
Sanders, L. L. (M)

Edwards AFB (CL-7)
Applegate, B. E. (M)
Freeman, W. L. (A)
Howell, F. S. (SM)
Lathrop, R. C. (M)
Lauby, J. W. (M)
Porter, L. K. (M)
Starr, E. A. (M)
Steen, J. E. (M)
Wills, W. L. (M)
Young, D. D. (M)

El Cajon (SD-7)
Alexander, W. G. (SM)
Andersen, G. R. (M)
Bayley, L. B., Jr. (A)
Burton, K. M. (A)
Chazotte, M. M., Jr. (A)
Cunningham, E. E., (M)
Dana, J. J. (M)
Densmore, M. E. (A)
Essen, O. E. (M)
Goulart, S. J. (A)
Gramman, E. G. (M)
Hardy, W. G. (M)
Harris, R. C. (M)
Hawkins, J. K. (M)
Hedrick, W. (A)
Heibeck, H. L. (A)
Howell, J. E. (M)
Jacobson, R. (SM)
Kavanaugh, E. V. (M)
Mason, J. R. (M)
Mayekawa, M. (A)
Moore, J. E. (A)
Oliver, E. F. (A)
Petersen, V. W. (M)
Pitt, C. J. (M)
Quintana, I. M. (M)
Rees, B. A. (A)
Sherburne, C. J. (M)
Smith, G. W. (M)
Steiner, F. A. (M)
Turner, P. M. (M)
Ward, J. P. (M)
Wells, T. C. (A)
Williams, A. A. (A)
Wilson, R. E. (M)

El Centro (SD-7)
Allen, K. J. (A)
Appleton, D. T. (M)
Hesse, J. F. (M)
Planinac, J. W. (M)
Schulze, C. D. (M)

El Cerrito (SF-EB-7)
Dimmick, R. R. (M)
Gray, H. F., Jr. (SM)
Lawrence, M. J. (M)
Maeshner, E. (M)
McClard, H. H. (A)
Olson, J. B. (M)
Patterson, S. J. (A)
Scott, N. B. (A)
Spiegel, L. (M)
Veburg, J. C. (M)
Veltfort, T. E., Jr. (A)
Watson, H. M. (M)

El Granada (SF-PA-7)
Underwood, W. B. (M)

El Monte (LA-P-7)
Atherton, C. A. (A)
Boee, K. W. (M)
Doeleman, H. (SM)
Dolde, L. A. (A)
Thomas, R. L. (M)
Wood, A. M. (A)

El Segundo (LA-7)
Beard, M. R. (SM)
Black, J. (M)
Brendecke, W. H., Jr. (A)
Brett, C. F. (M)
Byck, D. M. (M)
Diamond, P. (SM)
Eaton, C. F. (A)
Ellsworth, A. B. (M)
Funk, J. D. (M)
Garon, R. J. (M)
Ignatowicz, J. B. (M)
Kellogg, C. H. (A)
Linquist, W. I. (A)
Mesak, C. (M)
Monos, S. (M)
Mousel, G. W. (A)
Pedersen, R. J. (M)
Petersen, L. D. (M)
Rodgers, J. W., Jr. (A)
Simpson, C. H. (M)
Smith, C. H., Jr. (M)
Thornley, W. R. (M)

El Sobrante (SF-EB-7)
Corl, J. L. (SM)
Farrell, S. R. (A)
Weinstein, D. A. (A)

El Toro (LA-SA-7)
Burke, R. M. (A)
Mongan, A. J. (M)

Emeryville (SF-EB-7)
Cowley, P. E. A. (M)
Howe, D. H. (M)
Ward, T. C. (A)
Woodworth, J. D. (M)

Encino (LA-SF-7)
Anderson, G. W. (M)
Berwin, T. W. (A)
Brown, B. J. (M)
Cain, G. A. (M)
Clark, F. J. (M)
Dessau, H. R. (M)
Ferber, D. (M)
Gilder, G. (M)
Glaser, P. F. (M)
Golden, B. H. (M)
Goldstick, G. H. (M)
Hadden, F. A. (M)
Hall, R. D. (M)
Hamilton, L. E. (M)
Hepperle, C. M. (SM)
Hoover, J. R. (A)
Huroodo, K. W. (A)
Jur, C. J. (A)
Kalson, N. H. (SM)
Kesselman, M. S. (A)
Lacy, R. R. W. (M)
Mann, A. (A)
McGann, J. G. (SM)
McCusker, R. W. (A)
Mintz, E. (M)
Murphy, M. H. (SM)
Nibbe, G. H. (SM)
O'Halloran, J. F. (SM)
Perrine, C. D., Jr. (A)
Pfeffer, I. (M)
Pischel, E. F. (SM)
Scanlan, J. A. (A)
Schertle, W. B. (A)
Schroder, R. D. (SM)
Scott, H. A. (A)
Seltzer, L. J. (A)
Senf, H. R. (SM)
Sharpe, L. E. (A)
Stewart, R. M. (SM)
Von Buelow, R. (A)
Widell, C. D. (M)

Escondido (SD-7)
Goeppinger, A. L. (M)
Hall, J. T. (M)
Hitney, C. J. (M)
Mulholand, T. C. (A)
Seabaugh, D. A. (M)
Woodward, E. O. (M)

Etna (SAC-7)
Dannenbrink, H. A., Jr. (M)

Eureka (SF-7)
Smullin, W. B. (A)

Fairfax (SF-7)
Gray, G. P. (VA)

Fairfield (SF-7)
Finhill, M. (M)
Martinell, R. E. (M)
Morsy, E. (A)
Walsh, J. F. (A)

Fallbrook (SD-7)
Clark, J. H. (SM)
Thornton, J. W. (M)

Felton (SF-7)
Morris, G. H. (A)

Fields' Landing (SF-7)
Angel, F. F. (A)

Fillmore (LA-B-7)
Alker, C. A. (A)
Renteria, R. (M)

Florin (SAC-7)
Tahara, G. R. (A)

Folsom (SAC-7)
Jenkins, O. D. (A)

Fontana (LA-OB-7)
Riggins, M. R. (A)
Saez, R. G. (M)
Zinn, S. D. (M)

Fort Jones (SAC-7)
Fowler, J. A. B. (M)

Fortuna (SF-7)
McLane, A. R. (M)

Fremont (SAC-7)
Weed, N. M. (M)

Fresno (SF-7)
Bartlett, P. R. (M)
Bird, J. R. (SM)
Foin, O. F., Jr. (M)
Foreman, R. E. (A)
Hancock, J. B. (A)
Lamkin, K. R. (A)
Mealey, K. L. (M)
Whitby, E. R. (M)

Fullerton (LA-SA-7)
Adamson, P. A. (SM)
Baran, P. (A)
Barnes, J. L. (F)
Barter, L. D. (A)
Becher, W. D. (M)
Beekman, R. E. (SM)
Begovich, N. A. (A)
Berger, J. E. (A)
Bishop, J. F. (M)
Bower, G. G. (SM)
Calkins, W. R. (M)
Chaffee, B. J. (M)
Chang, Y. N. (M)
Chapman, C. W. (SM)
Chute, R. D. (M)
Clark, C. M. (M)
Cother, R. H. (A)
Cronin, W. J. (M)
Cunningham, R. E. (A)
Durham, L. G. (M)
Eliades, J. (M)
Elias, J. (M)
Fahnestock, R. J. (M)
Fischer, J. J. (M)
Fischer, P. F. (SM)
Flatten, O. H. (M)
Fletcher, T. C. (M)
Foster, H. E. (M)
Foster, R. A. (M)
Fowler, B. V. (M)
Fursa, A. (M)
Gade, D. W. (SM)
Gayton, C. F., Jr. (A)
Geipel, D. H. (A)
Gray, R. W. (SM)
Green, R. J. (M)
Gunning, W. F. (M)
Harding, G. A. (A)
Hart, M. T. (M)
Hartenstine, R. M. (M)
Heebner, D. R. (M)
Henderson, F. B. (M)
Horrocks, S. W. (M)
Hunt, E. B. (M)
Janeway, R. K. (M)
Jernigan, E. D., Jr. (SM)
Joerger, J. C. (M)
Jones, P. D. (SM)
Kazebee, C. R. (SM)
Kerber, S. M. (M)
Kerr, A. (M)
King, S. (SM)
Knipe, W. M. (A)
Knudsen, A. C. (M)
Kohlenberger, C. W. (M)
Kramer, R. F. (M)
Lessley, T. D. (M)
Lewis, B. G. (M)
Lewis, H. F. (M)
Lewis, K. E. (A)
Lo Cascio, R. J. (M)
Mankinen, E. J. (A)
Mayor, W. G. (A)
McClellan, D. H. (A)
McKinster, R. G. (M)
Meyer, A. W. (A)
Mickelson, J. R. (M)
Moore, J. R. (F)
Morgan, R. C. (SM)
Oatt, R. L., Jr. (M)
Redlich, H. S. (M)
Reed, R. H. (M)
Richter, E. M., Jr. (A)
Roberts, J. H. (A)
Romanelli, J. (M)
Sampson, H. I. (A)
Schmidt, B. F. (M)
Shohara, S. (M)
Silva, L. M. (M)
Smedley, J. A. (A)
Snyder, E. H. (M)
Snyder, R. M. (M)
Sollenberger, T. E. (SM)
Squires, F. B., Jr. (SM)
Stameson, S. A. (A)
Tilley, A. E. (M)
Wood, G. D. (M)
Vail, W. A. (M)
Valentine, R. H. (A)
Walters, W. H. (A)
Way, G. B. (M)
Weber, W. R. (M)
Weir, W. R. (M)
White, L. M. (M)
Wipson, J. W. (A)
Wittels, I. M. (M)
Woods, L. A. (M)
Wulfe, R. F. (M)
Young, C. E. (SM)

Garden Grove (LA-SA-7)
Anton, F. C. (A)
Bertrem, C. J. (A)
Carr, E. A. (M)
Cherney, J. F. (M)
Clithero, W. H., Jr. (A)
Colgan, A. R. (A)
Cresap, W. A. (SM)
Del Duca, A. (M)
Dierken, K. C. (M)
Dolezal, R. T. (A)
Dunklee, L. H. (M)
Eno, R. F. (M)
Frarey, J. L. (M)
Freeman, R. E. (M)
Gebhardt, C. C. (M)
George, R. E. (M)
Hendrick, J., Jr. (M)
Hickman, W. L., Jr. (M)
Hurst, W. F. (A)
Jacklin, E. M. (A)
Jones, R. W. (M)
Jungclas, E. E., Jr. (M)
Kasten, C. L. (M)
Katzenberger, H. S. (M)
Knecht, R. O. (M)
Lind, W. P. N. (M)
Linton, T. B. (M)
Lordan, T. G. (M)
Lucas, F. G. (M)
Ostrem, R. E. (A)
Pares, J. S. (A)
Prather, R. D. (M)
Rabbin, I. G. (M)
Reimherr, R. N. (A)
Sandhu, M. S. (A)
Schiavoni, D. W. (M)
Schnitger, A. W. (M)
Vandal, W. L., Jr. (A)
Wyatt, W. C. (A)

Gardena (LA-9)
Andrews, L. J. (M)
Baker, F. A. (M)
Bartling, M. H. (A)
Berry, D. C. (A)
Boe, D. P. (M)
Boutwell, E. O., Jr. (M)
Brown, W. A. (M)
Buzzelli, T. S. (A)
Campbell, D. A. (M)
Carroll, J. D. (M)
Cohen, M. (A)
Currie, D. E. (M)
Daniel, R. E. (M)
Determan, J. D. (M)
Dillon, M. M. (A)
Dillon, R. S. (M)
Dougherty, C. M. (A)
Doyle, R. E. (M)
Du Vall, W. E. (M)
Ehrlich, M. J. (SM)
Eick, M. K. (A)
Evans, W. S. (M)
Fine, E. (M)
Flynn, F. J. (SM)
Frohman, R. (M)
Fujimoto, Y. (M)
Geisert, F. W. (M)
Ginsburg, S. (M)
Grier, M. B. (SM)
Grimmett, C. A. (SM)
Guffin, R. M. (M)
Hack, N. R. (M)
Halliday, R. G. (M)
Hans, E. (A)
Hargrove, R. O. (A)
Harkins, S. F. (A)
Harris, A. W. (M)
Harvey, G. C. (A)
Hayes, J. E. (M)
Holly, C. M. (A)
Honda, F. S. (M)
Houck, R. D. (M)
Hruby, R. J. (M)
Inouye, G. T. (M)
Johns, J. F. (M)
Kawahara, M. (M
Kelly, K. C. (A))
Kennann, J. E. (A)
Kerster, G. (M)
King, H. E. (SM)
Knopp, G. L. (M)
Kobayashi, R. (M)
Komatsu, G. A. (A)
Krause, C. A. (M)
Lebell, D. (M)
Lee, D. N. (A)
Leuschner, R. H. (M)
Lowe, J. R. (M)
Lutze, D. L. (A)
MacIntyre, R. M. (A)
Magnuson, V. P. (M)
Malbrain, J. P. (A)
Martin, A. P. (M)
Maxson, S. H. (M)
McGhee, R. B. (A)
McGregor, G. L. (A)
McKenzie, J. N. (A)
Middleton, B. A. (M)
Minka, G. F. (M)
Moller, R. T. (M)
Najemnik, G. F. (A)
Nakatsukasa, F. Y. (M)
Nelson, C. E. (SM)
Nishball, J. L. (M)
Nissim, W. (M)
Olsen, L. V. (M)
Osborn, R. H. (A)
Pfeiffer, P. W. (M)
Quick, T. C. (M)
Rose, D. J. (M)
Rothwell, T. L., Jr. (A)
Russo, R. (A)
Sandberg, A. J., Jr. (M)
Schroeder, W. (M)
Seehof, J. M. (M)
Shilowitz, M. (M)
Slaughter, R. G. (A)
Skinner, M. R. (M)
Taber, J. E. (M)
Thompson, W. C., Jr. (M)
Tiller, J. L., Jr. (M)
Tillotson, J. H. (M)
Tong, K. C. (A)
Walker, N. L. (M)
Wallis, M. A. (M)
Walsh, J. F. (M)
Waltmire, W. A. (A)
Webb, J. R. (A)
Wizelman, A. (M)
Worrall, J. W. (M)
Young, G. L. (M)
Zdanowich, C. A. (M)

George AFB (LA-7)
Castellucci, A. H. E. (A)
Fair, E. G. (A)

Glendale (LA-SF-7)
Adams, T. M. (M)
Ambrose, J. R. (SM)
Archer, W. L. (A)
Aseltine, J. A. (M)
Auerbach, M. (A)
Bailey, K. D. (SM)
Bertolet, E.C. (M)
Bible, R. E. (A)
Bridges, R. L. (M)
Brouillette, D. A. (M)
Buchanan, H. R. (M)
Collins, D. L. (M)
Croft, W. F. (A)
Curran, G. W. (SM)
Davis, J. S. (A)
Deutsch, J. (SM)
De Witz, G. H. (SM)
Dixon, A. M. (M)
English, R. B. (M)
Ericson, R. L. (A)
Foodim, C. (SM)
Foster, D. E. (F)
Frilot, R. J. (A)
Gates, H. A. (SM)
Geist, W. K. (M)
Glassford, H. A. (A)
Glaze, R. H. (A)
Griffing, W. R. (A)
Hamilton, H. J. (SM)
Hasche, J. C. (A)
Insalaco, J. J. (M)
Kent, G. R. (A)
Kindt, D. H. (M)
Kiser, A. J. (A)
Koerner, C. T. (SM)
Koontz, R. H. (A)
Krill, C. K. (SM)
Larter, T. C. (SM)
Lienhard, J. T. (A)
Lowry, J. M. (M)
Margolis, J. (M)
Masline, E. J. (M)
Meersman, R. J. (M)
Michael, C. (A)
Newcomb, R. (SM)
Nichols, G. E. (A)
Nuut, A. (M)
Parzl, R. C. (M)
Pope, G. S. (M)
Preesman, G. L. (M)
Royer, R. N. (M)
Russak, A. (A)
Schmidt, L. M. (SM)
Scott, W. F. (M)
Selzer, R. H. (M)
Simpson, B. L. (M)
Smith, C. H., Jr. (M)
Snell, J. L. (M)
Spencer, R. L. (A)
Steele, E. E. (A)
Stefanov, B. (M)
Sweetnam, G. E. (M)
Terkla, M. (A)
Thomas, D. C. (A)
Trostrud, A. T., Jr. (M)
Valette, H. C. (M)
Vallar, T. F. (M)
Whitehead, E. H. (A)
Wight, H. M. (M)
Worden, H. E. (M)

Glendora (LA-OB-7)
Allen, D. H. (SM)
Bennett, J. R. (M)
Brown, W. E., Jr. (A)
Burk, P. O. (M)
Friend, J. Q. (SM)
Gehring, J. E. (M)
Goodman, K. (A)
Grinnell, A. L. (M)
Hodder, W. K. (M)
Kneen, W. (SM)
Kreager, P. H. (M)
McDonald, J. J. (A)
McElwee, J. F. (A)
McGee, H. A. (SM)
Montgomery, D. N. (M)
Porrazzo, R. J. (SM)
Reilly, M. (A)
Schroeder, R. L. (A)
Schultz, R. T. (A)
Schwank, R. T. (A)
Snodgrass, D. D. (M)
Sparling, W. N. (M)
Tallman, C. R. (A)
Van Biene, F. K. (A)
Waltz, D. M. (M)
Wardein, H. E. (M)
Wolfe, C. M. (M)

Goleta (LA-SB-7)
Ainsworth, M. J. (SM)
Bode, D. E. (SM)
Bradley, D. K. (M)
Browder, J. W. (SM)
Glancy, D. R. (M)
Hill, D. R. (M)
McBurney, M. D. (M)
McVay, F. C. (M)
Miller, C. E., Jr. (M)
Paul, A. D. (M)
Ptomey, D. E. (A)
Rauch, S. E. (SM)
Robbins, W. M., Jr. (A)
White, R. L. (M)
Wolthausen, L. H. (A)

Granada Hills (LA-SF-7)
Absher, G. E. (M)
Aleshire, T. S. (M)
Allen, R. J. (M)
Alpine, P. E. (SM)
Batson, D. D. (M)
Bertrand, W. T. (M)
Brock, P. A. (M)
Canfield, L. D. (M)
Carl, R. J. (M)
Cole, B. M. (SM)
Deaux, F. J. (M)
Debel, C. A. (SM)
Dendy, K. H. (SM)
Easley, G. P. (M)
Edwards, R. O. (A)
Entin, A. J. (A)
Felthousen, A. O. (SM)
Fletcher, F. L. (M)
Fuller, F. J. (SM)
Galati, V. J. (A)
Gautney, I. (A)
Gillespie, E. S. (M)
Hagerty, R. L. (A)
Jackson, R. O. (M)
Keiser, J. A. (A)
Linn, H. S. (A)
Lombardo, C. P. (A)
Loveless, R. M. (M)
MacColl, J. B. (A)
Machlis, J. (M)
McDougle, R. H. (M)
Meyer, D. R. (M)
Morrow, H. W. (M)

Midcalf, W. A. (A)
Nelson, G. A. (M)
Norby, H. A. (SM)
Patterson, M. A. (SM)
Pekrul, P. J. (M)
Perlman, M. (M)
Phillips, G. A. (M)
Pierson, G. R. (A)
Reich, J. E. (M)
Robertson, D. C. (SM)
Rudy, E. W. (A)
Seldon, M. (M)
Smith, S. W. (A)
Stoy, K. E., Jr. (A)
Strohm, R. B. (M)
Thomson, B., Jr. (M)
Troutman, A. F. (M)
Valery, N. A. (A)
Walsh, B. L. (M)
Wanlass, S. D. (A)
Watt, E. J. (M)
Welch, W. E. (SM)
Williams, W. E. (M)
Wilson, D. R. (M)

Grass Valley (SAC-7)
Hickerson, R. L. (A)
Litton, C. V. (F)

Grossmont (SD-7)
Applin, R. H. (M)

Hamilton AFB (SF-7)
Adams, C. W. (M)
Garlington, A. R., Jr. (A)
Haines, R. S. (M)
Lord, W. P. (M)
Ritter, F. (M)
Roberts, R. W. (M)

Hanford (SF-7)
Nelson, R. A. (M)

Harbor City (LA-7)
Abbott, C. C. (M)
Hamilton, W. J. (A)
Voith, W. L. (M)

Hawthorne (LA-7)
Abascal, N. (M)
Asnicar, D. V. (A)
Barnes, J. G. (M)
Bettinelli, K. F. (M)
Bryan, D. H. (A)
Cavanagh, J. R. (SM)
Christensen, A. V. (M)
Chu, H. (M)
Clark, G. L. (M)
Connell, A. D. (A)
Eisler, G. (M)
Endo, F. Y. (M)
Erznoznik, F., Jr. (SM)
Evans, B. H. (A)
Faulkner, A. H. (SM)
Frank, J. L. (A)
Galle, H. P. (A)
Garritson, F. K. (A)
Gee, L. C. (M)
Geisert, W. O. (M)
Gerson, H. (A)
Gillespie, D. P. (A)
Girvin, R. A. (M)
Goodell, E. M. (M)
Griffin, J. W. (A)
Hagerty, R. J. (M)
Igram, R. G. (M)
James, E. (M)
Johnson, D. G. (A)
Kaufman, F. H. (M)
Kemp, F. R. (A)
Kincaid, N. L. (A)
King, D. L. (A)
Knoll, D. W. (M)
Langdon, J. G. (M)
Lund, W. W., Jr. (SM)
Mabie, D. E. (M)
MacGarvey, E. R. (M)
Malin, L. J. (A)
McCann, F. A. (M)
Miller, B. C. (M)
Mohr, M. E. (SM)
Nishimura, R. K. (A)
Norsell, H. C. (M)
Ortiz, R. R. (A)
Paschke, M. J. (M)
Pipher, R. W. (SM)
Porter, S. M. (A)
Price, G. O. (A)
Proctor, C. A., Jr. (A)
Rose, D. E. (M)
Rutherford, D. H. (M)
Sagey, W. E. (M)
St. John, E. E. (SM)
Shedd, I. A. (M)
Simpson, J. H. (A)
Smith, E. A. (A)
Stein, S. (M)
Stewart, G. R. (M)
Swan, R. L. (M)
Twohig, P. E. (A)
Van Doorne, J. R. (M)
Weber, J. W. (M)
Wertheim, L. A. (M)
Wilkinson, J. H. (M)
Williams, C. E. (SM)
Woerdemann, H. H. (SM)
Young, J. W., Jr. (A)
Young, W. D. (M)

Hayward (SF-EB-7)
Edson, D. J. (M)
Fort, J. R. (A)
Gausmann, W. H. (A)
Kiyoi, G. T. (M)
Lee, H. P. (A)
Peltz, L. G. (A)
Prosser, T. F. (M)
Rufer, R. P. (M)
Ruzic, J. (A)
Slocum, R. L. (M)
Smith, E. E. (A)

Hermosa Beach (LA-7)
Brown, D. (M)
Clapp, G. V., Jr. (M)
Cleary, J. D. (A)
Clunis, K. (M)
Dennis, P. A. (A)
Develet, J. A., Jr. (A)
Donnelly, J. E. (A)
Jones, L. E. (A)
Keeling, C. J. (M)
Komrosky, G. L. (M)
Lentz, T. (A)
Mann, D. A. (M)
McLaughlin, J. R. (M)
Pierson, J. E. (M)
Stewart, E. A. (A)
Zamites, C. J. (M)

Highland (LA-OB-7)
Pounds, W. H. (A)

Hillsborough (SF-7)
Erickson, L. G. (SM)
Hellman, C. G. (M)
Ogilvie, A. R. (SM)

Hollister (SF-7)
Haruff, J. J., Jr. (A)

Hollydale (LA-SA-7)
Brown, B. L. (A)
Hesgard, N. A. (M)
Stone, L. M. (M)

Hollywood (LA-7)
Benham, E. E. (M)
Benson, A. L. (M)
Binkey, R. A. (M)
Britton, D. D. (M)
Bryant, H. L. (A)
Davis, A. (SM)
De Cristoforo, E. J. (A)
Denechaud, R. G. (VA)
Denney, B. H. (A)
Estkowski, M. H. (A)
Fairbanks, G. G. (M)
Farel, V. M. (SM)
Fischer, B. (SM)
Fugate, K. O. (A)
Garabedian, A. (M)
Garcia, E. M. (M)
Gilbert, J. D. (M)
Glaze, G. O. (M)
Grenier, T. B. (M)
Hudson, C. A. (M)
Hughey, A. H. (A)
Hunter, W. L. (A)
Kellogg, W. A. (M)
Kupfer, R. C. (SM)
Langecker, H. G. F. (A)
Lubcke, H. R. (F)
Luykx, J. D. (A)
Meissner, K. H. (SM)
Miller, G. B. (VA)
Moody, R. C. (SM)
Noorland, M. (SM)
Osick, W. R. (A)
Pape, M. (A)
Pinczower, H. J. (M)
Pro, S. (A)
Regan, E. D. (M)
Riek, F. O., Jr. (A)
Ross, E. H. (M)
Schick, H. G. (M)
Scott, P. (M)
Schroer, R. E. (A)
Small, J. N. (A)
Solomon, B. D. (A)
Stafford, J. W. (M)
Stark, H. P. (A)
Stoddart, R. R. (F)
Taylor, W. U. (M)
Templin, E. W. (SM)
Tesler, A. (M)
Uecke, E. H. (A)
Urey, G. M. (M)
Vinton, B. W. (M)
Werst, H. J. (M)
Wetling, T. C., Jr. (A)
Woltz, R. L. (A)
Woods, H. D. (M)
Yackey, C. H. (M)

Huntington Beach (LA-SA-7)
Rogers, W. J. (M)

Huntington Park (LA-7)
Allen, R. M. (A)
Dowers, A. A. (VA)
Norris, P. P., Jr. (A)
Olson, W. J. (M)
Tingley, R. G. (M)

Indio (LA-7)
Edwards, B. G. (M)

Inglewood (LA-7)
Allison, C. H. (A)
Anderson, A. T. (M)
Arand, E. M. (M)
Arciuch, J. P. (M)
Bar, M., (M)
Barker, R. D. (M)
Beauchamp, E. P. (M)
Beleskas, S. M. (A)
Benedetti, F. J., Jr. (M)
Berling, G. P. (A)
Berry, G. L. (A)
Black, H. L. (M)
Borsch, K. S. (SM)
Boughton, E. M. (M)
Bowlus, M. A. (M)
Box, F. M. (A)
Brands, C. W. (M)
Brown, J. L. (M)
Bryson, J. (M)
Burns, B. E. (A)
Clark, T. C. (SM)
Cox, G. C. (A)
Crickmay, C. J. (M)
Culver, W. L. (A)
Czerwinski, S. D. (M)
Deininger, C. F. (M)
Dewitt, D. D. (M)
Dinsmore, S. H. (M)
Duggan, C. R. (M)
Durand, T. S. (M)
Eads, J. J., Jr. (A)
Ellingboe, J. K. (M)
Ellison, M. Jr. (M)
Enright, F. E. (A)
Fachtmann, R. R. (M)
Galles, C. E. (M)
Gibbons, C. A. (A)
Gillmer, A. H. (SM)
Gluth, N. P. (M)
Goodman, R. L. (M)
Gregory, C. N., Jr. (M)
Hall, G. D. (A)
Hammer, I. W. (M)
Hansen, C. B. (M)
Harrington, L. M. (M)
Holm, W. E. (A)
Howes, R. E. (M)
Hughes, E. S. (A)
Hughes, H. M. (M)
Humphrey, W. L. (M)
Jenkins, L. E. (M)
Jones, W. B., Jr. (SM)
Kayner, H. J. (SM)
Keenan, O. B. (A)
Kellner, M. (A)
Kennedy, F. D. (M)
Kirchoff, W. L. (M)
Kirlin, E. V. (M)
Koeneker, D. B. (A)
Kohlmeyer, R. B. (M)
Kotlarski, J. R. (M)
Kuefler, P. M. (M)
Lachenmeier, G. E. (A)
Lamm, L. M. (A)
Laubach, B. A. (M)
Lawrence, A. F., III (M)
Lee, H. E. (M)
Lewis, D. C. (M)
Lias, R. B. (SM)
Loonam, J. R. (A)
Lorentz, N. A., Sr. (M)
Love, R. R. (M)
Lowrance, L. W. (A)
Luce, R. W. (M)
Lynch, N. F. (A)
MacKenzie, L. G. (A)
Malone, H. L. (A)
Manlove, W. R. (A)
Matthaei, G. L. (M)
Mayberry, L. A. (SM)
McInnis, J. H., Jr. (M)
McKechnie, R. M. (A)
Meader, R. O. (M)
Meier, D. A. (M)
Moore, L. W. (A)
Nelson, F. E. (M)
Noble, J. G. (M)
Noland, J. W. (M)
O'Brien, W. C. (A)
Ota, N. (A)
Patrusky, N. (SM)
Piereson, R. G. (M)
Plaut, A. S. (A)
Potter, R. W. (A)
Prothers, L. T. (M)
Raines, R. F. (M)
Rance, R. (A)
Rea, W. P., Jr. (M)
Redmond, J. G. (M)
Richesson, R. W. (M)
Robinson, J. A. (M)
Roland, L. F. (A)
Ross, W. E. (M)
Rush, T. D. (M)
Ryan, L. E. (M)
Schnoor, J. E. (A)
Schnurr, M. J. (SM)
Seaton, A. F. (A)
Seid, E. (M)
Shumate, M. S. (M)
Silva, W. (M)
Spencer, P. F. (M)
Stevens, J. E. (M)
Stokes, L. S. (M)
Taylor, E. N. (M)
Trew, J. W. (A)
Troetschel, W. O. (M)
Umlauf, E. W. (M)
Wade, J. P. (M)
Walent, P. M. (M)
Wedin, A. G. (SM)
Weiss, B. S. (M)
Whirry, W. L. (M)
White, D. C. (A)
Widenhoefer, J. G. (A)
Willard, D. A. (M)
Williams, H. M. (A)
Winter, J. A. (A)
Womack, R. H. (A)
Wright, H. B. (A)
Wylie, P. A., Jr. (M)
Yancey, S. H. (M)
Zak, E. T. (A)

Inverness (SF-7)
Thompson, H. K. (M)

Irvington (SF-EB-7)
Bennett, R. D. (F)

Isleton (SAC-7)
Hennige, C. W., III (M)

Jackson (SAC-7)
Van Thiel, J. (VA)

Kelseyville (SF-7)
Quarfoot, H. B. (M)

Kentfield (SF-7)
Conrad, R. C. (M)

Kenwood (SF-7)
Hosmer, E. A. (SM)

Kerman (SF-7)
Anson, C. T. (VA)

Kingsburg (SF-7)
Kidd, T. L. (M)

Knights Landing (SAC-7)
Harris, W. B., Jr. (M)

La Canada (LA-P-7)
Barnes, R. B. (M)
Bly, J. R. (M)
Breckenridge, W. G., Jr. (A)
Brewer, D. R. (SM)
Brewer, M. S. (M)
Cane, M. P. (A)
Chase, W. P. (M)
Curtis, H. A. (M)
Ellis, A. R. (SM)
Faris, E. M. (M)
Goodwin, P. S. (SM)
Grill, F. J. (A)
Henry, D. S. (A)
Herron, J. R. (SM)
Higgins, S. F. (M)
Hylkema, C. G. (M)
Kenkel, H. H. (SM)
Keyser, J. H., Jr. (SM)
Koerner, T. W. (M)
Macmillan, R. S. (A)
McFadden, W. C. (M)
Moore, M. H. (M)
Parks, R. J. (M)
Peoples, J. E. (A)
Read, G. W. (M)
Rhoads, J. A. (SM)
Rodine, R. R. (M)
Schor, F. W. (SM)
Seeley, W. M., Jr. (A)
Seufret, F. J., Jr. (SM)
Shadle, P. W. (M)
Sirri, N. (A)
Slaughter, D. W. (M)
Varian, S. B. (SM)
Weil, F. M. (SM)
Whistler, W. B. (A)
Wieland, C. W. (M)
Wolfe, H. (M)

La Crescenta (LA-P-7)
Ermatinger, C. E. (A)
Feland, R. F., Jr. (A)
Gelb, D. G. (M)
Lange, G. E. (A)
Linsley, A. O. (A)
Lorens, C. S. (M)
Maithonis, W. C. (A)
Meyer, H. (M)
Morecroft, J. H., Jr. (SM)
Noland, A. R. (M)
O'Neil, W. T. (M)
Piroumian, M. A. (M)
Reinholtz, W. H. (A)
Stagnaro, J. A. (SM)
Thompson, R. W. (M)

Lafayette (SF-EB-7)
Buchanan, L. R. (M)
Buntenbach, R. W. (M)
Keller, J. E. (M)
Kirsten, F. A. (A)
Krueger, R. E. (M)
Martin, W. L. (M)
Montalbano, M. (A)
Morrison, G. E. (M)
Morrison, K. G. (M)
Nofrey, L. C. (A)
Norton, J. S. (SM)
Steed, W. P. (A)
Waddell, J. F. (SM)

Laguna Beach (LA-7)
Demy, J. C. (M)
Holmes, P. J. (A)
Welch, C. H. (A)

La Habra (LA-SA-7)
Bechtold, I. C. (SM)
Bennett, J. R. (A)
Blake, F. G., Jr. (SM)
Blanton, M. J. (A)
Chester, M. E. (M)
D'Evelyn, R. P. (A)
Gronlund, R. A. (M)
Horst, C. W. (A)
Husman, P. A. (A)
Karsh, H. (M)
Low, L. L. (A)
Polhemus, J. T. (M)
Rollins, R. C. (M)
Rudendall, K. W. (M)
Shade, R. R. (M)
Struve, L. M. (M)
Trorey, A. W. (A)
Unterberger, R. R. (M)

La Jolla (SD-7)
Bentley, A. W. (A)
Bishop, H. O. (SM)
Burgar, D. G. (A)
Chadbourne, H. L. (M)
Cotcher, A. L. (SM)
Erickson, W. A. (M)
Fox, E. M. (M)
Hafstrom, J. R. (SM)
Hamann, O. F. (A)
Hogg, J. A. (SM)
Hydrick, D. F. (A)
Ikerd, H. M. (M)
Jones, C. E. (M)
Langston, J. F. (M)
Liddiard, G. E. (M)
Madsen, R. G. (M)
Markle, R. L. (M)
McLeod, J. H., Jr. (A)
Michael, F. J. (M)
Miller, P. G. (M)
Naive, J. A. (M)
O'Neal, K. R. (M)
Otis, E. J. (M)
Patten, S. F. (SM)
Ritchart, R. C. (M)
Robbins, D. L. (A)
Shaw, F. W. (M)
Storer, W. F. (M)
Theobald, D. J. (M)
Tucker, D. P. (SM)
Vasques, H. A. (M)

Lakeside (SD-7)
Rogers, T. E. (M)

Lakewood (LA-SA-7)
Ashcraft, W. D. (M)
Beard, G. W. (A)
Beau, J. F. (M)
Bonem, E. J. (A)
Cain, G. H., Jr. (M)
Coombs, W. J. (A)
Dahlin, R. K. (A)
Fonda-Bonardi, G. (SM)
Francis, T. F. (A)
Frankiewich, C. (M)
Gerhard, F. H. (M)
Guggenheim, R. W. (M)
Hawley, A. E. (M)
Himler, G. J. (M)
Kaspin, S. (M)
Larsen, R. P. (M)
Lee, R. E. (A)
McConnell, R. W. (M)
McKown, S. J. (M)
Morgan, L. C. (M)
Oehlke, A. E. (M)
Overmier, C. S. (A)
Page, R. K. (M)
Storch, H. (SM)
Walker, H. E. (M)

La Mesa (SD-7)
Ackerman, S. L. (SM)
Adams, R. D. (M)
Ayers, J. L. (M)
Boyce, W. E. L. (M)
Carberry, J. F. (A)
Cary, R. J., Jr. (M)
Clapp, E. B. (M)
Cleveland, W. C., Jr. (SM)
De Mers, E. F. (SM)
Ferner, R. O. (M)
Fisher, H. G. (A)
Foiland, D. F. (SM)
Hill, D. M. (M)
Hulbert, S. G. (M)
Lebduska, R. L. (M)
Loveberg, A. G., Jr. (M)
Lowe, D. M. (M)
Madsen, E. C. (M)
Marsh, W. A. (A)
Mathisen, W. D. (A)
Miller, R. H., Jr. (SM)
Moody, D. G. (M)
Moore, W. E. (M)
Pike, F. R. (M)
Raper, A. J. (A)
Runyan, T. W. (A)
Schart, W. J. (A)
Schick, H. F. (M)
Schmidt, M. A. (A)
Sievers, S. S. (M)
Smith, D. I. (M)
Torrible, A. W. (A)
Trolese, L. G. (SM)
Tweed, G. C., Jr. (M)
Walker, W. D. (A)
Webb, J. A. (M)
Whitaker, J. L. (M)
Wolfe, F. H. (M)

La Mirada (LA-SA-7)
Benjamin, F. (M)
Bruder, R. M. (A)
Cain, E. L. (M)
Carlson, R. S. (M)
Cherney, R. W. (M)
Gaston, J. B. (A)
Gillen, T. W. (M)
Holt, W. L. (A)
Kraemer, W. H. (M)
Kreager, P. C. (A)
Kruger, F. W. (M)
Marsh, S. V. (SM)
Meyers, L. J. (M)
Molloy, J. M. (M)
Myers, W. A. (M)
Parsons, J. H. (M)
Peterson, W. R. (M)
Robertson, S. D. (M)
Simmons, J. W., III (M)
Sward, W. O. (M)
Thompson, K. A. (M)

Lancaster (LA-7)
Adams, W. C. (M)
Barringer, E. E. (M)
Barry, R. N. (M)
Beeman, J. L. (M)
Brown, W. C. (M)
Crane, J. H. (A)
Dalton, R. A. (M)
Douglass, W. D., Jr. (M)
Durham, S. C. (M)
Eckard, P. E. (A)
Eisenman, T. W. (M)
Green, F. W. (M)
Henrikson, A. E. (M)
Higgins, V. M. (A)
Hirman, L. E. (A)
Inskeep, J. Z. (A)
Labno, J. J. (A)
Miller, J. R. (A)
Parks, K. W. (A)
Sehnert, P. J. (M)
Shumate, C. L. (M)
Skene, R. A. (M)
Smith, D. G. (M)
Steinbrenner, E. W. (A)
Wilkes, W. M. (A)

La Puente (LA-OB-7)
Crocker, C. F. (M)
Dyment, R. F. (M)
Green, A. W. (M)
Griffin, D. J., Jr. (M)
Wade, E. P. (M)
Zumba, C. F. (M)

La Verne (LA-OB-7)
Buehler, M. E. (A)
Crofts, G. B. (A)
Flanders, A. E. (M)
Ilgenfritz, N. H. (M)
Nelson, E. K. (M)
Riley, O. V. (M)
Schertz, C. W. (A)
Soward, R. (M)
Terakowski, E. A. (M)

Lawndale (LA-7)
Ahlberg, W. E. (A)
Dye, R. R. (M)
Ellis, J. W. (M)
Hannum, A. J. (SM)
Hollingsworth, V. N. (A)
Linn, D. L. (A)
Milner, L. L. (A)

Parker, H. F. (M)
Pearson, R. E. (M)
Polzin, E. M. (A)
Reading, J. (M)

Lemon Grove (SD-7)
Alam, H. H. (M)
Smith, W. R. (A)

Livermore (SF-EB-7)
Aaland, K. (M)
Aas, E. A. (SM)
Anderson, J. S. (M)
Anderson, S. D. (A)
Bandtel, K. C. (M)
Bostwick, W. E. (M)
Branum, D. R. (M)
Carlson, B. V. (A)
Carstensen, H. K. (M)
Compton, P. D., Jr. (M)
Davis, G., Jr. (M)
De Ley, E. (M)
Dimmick, J. V. (A)
Epps, R. C. (M)
Finnigan, R. E. (M)
Francis, H. D., Jr. (M)
Furnberg, C. M. (M)
Gregson, D. E. (M)
Hamm, T., Jr. (M)
Holladay, G. (A)
Inami, F. K. (M)
Jones, E. D. (M)
Kaifer, R. C. (A)
Katz, J. E. (M)
Kenrich, C. H. (A)
Krause, O. H. (M)
Laudeman, J. A. (M)
Loth, B. M. (M)
McFarlane, H. B. (A)
Molzahn, D. W. (M)
Moore, J. M. (A)
Murnighan, R. J. (A)
Nelson, G. G. (M)
Newton, L. E. (M)
Nugent, T. J., Jr. (M)
Olken, H. (M)
Owren, H. M. (A)
Paulson, C. T. (M)
Phelps, P. L., Jr. (M)
Potthoff, C. M. (M)
Rodrigues, R. M. (M)
Rouse, J. C. (M)
Schreiber, O. W. (M)
Sikorsky, E. (A)
Skinrood, D. A. (SM)
Sorensen, H. D. (A)
Spinella, J. D. (M)
Tockey, R. J. (A)
Walker, H. C. (M)
Werner, R. E. (A)
Whitten, C. L. (M)

Loma Linda (LA-OB-7)
Woods, R. W. (SM)

Loma Mar (SF-7)
Bennion, D. R. (M)

Lomita (LA-7)
Reid, R. E. (A)
Roper, W. J. (M)

Lompoc (LA-SB-7)
Daughton, G. B. (M)
Luce, R. R. (M)

Long Beach (LA-7)
Akers, R. C. (A)
Andersen, E. A. (M)
Andreosky, E. (M)
Ashcraft, A. E., Jr. (M)
Barlow, J. T. (A)
Beamsley, G. V. (A)
Bement, W. A. (M)
Berg, R. L., Jr. (M)
Blakely, L. (A)
Brown, K. H. (M)
Browne, K. R. (A)
Browning, R. N. (A)
Burns, J. J., Jr. (M)
Burr, K. L. (A)
Campora, M. T. (M)
Carey, G. D. (M)
Carlon, C. B. (A)
Chavarria, J. N. (SM)
Cole, B. T. (M)
Conrad, E. G. (A)
Culbertson, G. T. (M)
Dale, E. E. (M)
Dillard, G. B. (A)
Duffy, B. A. (M)
Emery, S. (A)
Enholm, E. C. (M)
Farrand, C. E. (M)
Ferreira, R. (A)
Fether, W. B. (A)
Frieberg, M. (A)
Gall, C. E. (A)
Gardner, F. H. (SM)
Gilmore, D. A. (M)
Grammes, E. G., Jr. (A)
Greaney, E. J. (M)
Hayden, R. J. (A)
Henrion, W. S. (A)
Hetlinger, F. J. (M)
Heyman, E. R. (A)
Howard, R. D. (A)
Jahlmiak, R. (A)
Jenkins, A. F., Jr. (A)
Jimenez, J. W. (M)
Katzman, H. J. (M)
Keppel, R. A. (M)
Kollanse, D. C. (M)
Kroy, W. H., Jr. (M)
Krulish, R. C. (A)
Kubo, E. Y. (M)
Landis, V., Jr. (M)
Linder, C. O. (M)
Loewenstein, C. N. (M)
Luttrell, J. A., Jr. (M)
Mackey, E. F. (M)
Madson, G. A. (M)
McLeod, M. G. (M)
Miller, E. F. (M)
Mitsutomi, T. (A)
Moorhouse, T. R. (A)
Muhlestein, R. W. (M)
Muret, L. G. (M)
Nicholas, R. V., Jr. (SM)
Patterson, G. D. (A)
Pelc, T. (SM)
Pelteson, F. M. (M)
Pentecost, E. E. (M)
Petersen, E. L. (M)
Pinson, J. C. (M)
Poff, A. C., Jr. (A)
Porter, B. W. (M)
Porter, R. J. (A)
Price, E. L. (M)
Proctor, D. W. (M)
Ramer, F. H., Jr. (M)
Reichenthal, A. (M)
Reisner, G. H. (M)
Roberts, H. M., Jr. (M)
Rohland, A. E. (M)
Rumsey, W. E., Jr. (A)
Rupert, M. J. (M)
Salisbury, D. L. (M)
Samuelian, B. (M)
Schmied, W. F., Jr. (M)
Schwab, A. H. (M)
Schwartz, M. J. (M)
Seymour, H. A. (SM)
Siegel, J. C. (M)
Sims, J. L. (M)
Smith, R. G. (A)
Solley, J. C. (M)
Souter, R. E. (M)
Specht, W. A., Jr. (M)
Stearns, W. R. (M)
Stephens, H. M. (A)
Stoll, C. N. (M)
Strasburger, T. J. (A)
Tapp, J. E. (M)
Thomas, P. M. (M)
Thomsen, G. A. (M)
Thresh, J. L. (A)
Trapp, J. A. (SM)
Uebele, G. S. (M)
Ulrich, R. J. (M)
Valo, H. L. (A)
Vulliet, P. O. (M)
Walquist, R. L. (M)
Wilcox, W. R. (M)
Wiley, F. L. (M)
Wiseman, S. D. (M)
Young, J. A. (M)

Los Alamitos (LA-SA-7)
Anderson, F. A. (A)
Hutcherson, J. V. (M)
Romano, A. J. (M)
Swain, P. F. (A)

Los Altos (SF-PA-7)
Abousleman, W. (SM)
Adams, M. B. (SM)
Addleman, L. A. (M)
Aiken, W. R. (M)
Allen, T. L., Jr. (M)
Angst, D. C. (M)
Armstrong, B. H. (M)
Avis, A. J. A. (SM)
Ayres, W. P. (M)
Bagley, A. S. (SM)
Barchenger, B. W. (A)
Beeson, R. H. (M)
Bell, R. E. (M)
Berte, D. W. (M)
Blasi, E. A. (SM)
Blight, A. F., Jr. (M)
Blumberg, M. (M)
Boswau, H. P. (SM)
Bourquin, K. R. (M)
Brown, J. F. (SM)
Bumstead, C. R. (M)
Burgess, J. E. (M)
Burkhard, F. J. (M)
Butterfield, F. E. (M)
Cage, J. M. (SM)
Caryle, J. K. (SM)
Christensen, W. V. (A)
Clements, B. C. (A)
Cogshall, P. D. (M)
Corduan, A. E. (M)
Corson, D. K. (A)
Cox, J. E. (A)
Damron, S. S. (M)
De Young, M. W. (M)
Doak, R. S. (SM)
Doersam, P. D. (SM)
Donnelly, M. E. (M)
Earle, D. H. (M)
Edberg, E. B. (M)
Ehret, R. J. (SM)
Eldredge, E. E. (SM)
Elster, S. (M)
Elwell, C. F. (F)
Everson, C. T. (A)
Ferguson, S. A. (SM)
Ferri, G. (M)
Flugge-Lotz, I. (M)
Freeman, G. V. H. (A)
Gamara, N. J. (M)
Gangnes, A. V. (SM)
Gillett, G. D. (F)
Ginsburg, C. P. (M)
Giulie, J. D. (M)
Good, D. C. (SM)
Hackley, G. E. (SM)
Hanisch, W. R. (M)
Happ, W. W. (SM)
Harrison, H. W. (A)
Hathaway, E. C. (M)
Heintz, R. M., Jr. (M)
Helwig, N. C. (M)
Hiestand, N. P. (M)
Hill, C. M. (A)
Hilton, E. A. (A)
Hix, R. C. (M)
Hodges, E. B. (M)
Hogg, J. E. (M)
Holly, J. A. (M)
Hunter, P. B. (SM)
Hussey, J. G. (M)
Johannesen, O. M. (SM)
Johnson, C. C. (M)
Johnson, L. W. (M)
Johnson, R. T. (M)
Kellogg, H. A. (M)
Kendall, J. W., Jr. (M)
Keyes, J. C. (SM)
Koch, G. E. (M)
Koehler, L. K. (M)
Koning, A. P. (M)
Kruesi, G. G. (M)
Kyle, W. F., Jr. (M)
Larse, G. L. (M)
La Rue, A. D. (SM)
Lauler, L. J. (M)
Lind, J. N. (A)
Lindseth, C. O. (M)
Long, J. A. (M)
Mansur, F. (SM)
Marietta, R. A. (M)
Marshall, N. K. (SM)
Masher, D. P. (M)
May, R. W. (M)
McGuigan, W. D. (SM)
McKee, L. H. (M)
McNaughten, N. K. (M)
Melchor, J. L. (SM)
Metevia, E. E. (A)
Meyer, C. F., Jr. (SM)
Meyer, J. C. (M)
Miller, H. C. (M)
Mills, M. E. (M)
Moreno, T. (M)
Morris, F. W., Jr. (SM)
Morris, G. R. (SM)
Murphy, E. J. (SM)
Myers, W. D. (SM)
Napier, C. J. (SM)
Nawrocki, J. T. (SM)
Nelson, B. E. (M)
Nelson, J. W., Jr. (SM)
Nikonenko, P. V. (SM)
Norgaard, D. E. (SM)
Nurmela, G. E. (A)
Overacker, H. E. (SM)
Pallakoff, O. E. (A)
Palmquist, N. B., Jr. (SM)
Pappas, N. L. (SM)
Patterson, H. R. (SM)
Peshel, R. L. (A)
Peterson, A. M. (M)
Peterson, C. J. (M)
Pfister, G. H. (M)
Price, G. W. (SM)
Pruett, J. W. (M)
Rich, G. C. (SM)
Robinson, J. D. (M)
Rocklitz, H. C. (A)
Rockwell, W. S. (M)
Rockwood, C. G. (M)
Rodgers, J. L. (A)
Romano, V. J. (A)
Sackman, R. (A)
Scharfman, W. E. (A)
Schrock, N. B. (SM)
Secard, E. L. (M)
Sedlacek, W. C. (M)
Serniuk, W. (SM)
Show, O. C. (A)
Sifford, B. M. (M)
Simpson, O. T. (SM)
Smith, C. A. (M)
Smith, D. I. (M)
Soderstrom, H. W. (M)
Soderstrum, J. C. (SM)
Sorensen, R. J. (M)
Sorvaag, C. M. (SM)
Stanley, C. B. (SM)
Stone, J. E. (M)
Summers, J. W. (M)
Sweeney, J. F. (M)
Teall, D. E. (M)
Tetenbaum, S. J. (A)
Thornton, W. M., Jr. (A)
Trumpler, J. H. (M)
Vader, R. L. (SM)
Van Rensselaer, C. (SM)
Varenhorst, V. D. (SM)
Vincent, W. R. (A)
Walters, A. M. (M)
Wambsganss, B. A. (SM)
Ward, C. E. (SM)
Weagent, G. A. (M)
Weber, P. J. (M)
Weismann, R. J. (SM)
Wheeler, G. J. (SM)
Whitacre, R. N. (A)
Whitmer, R. F. (M)
Wholey, W. B. (SM)
Wilder, K. T. (M)
Wilkerson, J. R. (SM)
Wohl, J. (A)
Woolsey, S. W. (M)
Zaphiropoulos, R. (M)

Los Altos Hills (SF-PA-7)
Baker, R. H. (M)
Bowler, G. E. (SM)
Dawley, J. R., Jr. (M)
Hoover, W. G. (M)
Main, W. F., Jr. (M)
McCullough, J. A. (F)
Richter, E. O. (A)
Rockwell, R. G. (SM)
Spitzer, C. F. (SM)

Los Angeles (LA-7)
Aaron, B. D. (SM)
Abel, A. O. (M)
Abernathy, O. R. (A)
Abeson, I. S. (A)
Adachi, T. (SM)
Adler, S. L. (M)
Ahlport, B. T. (M)
Ahrens lorf, R. E. (A)
Albro, P. W. (M)
Alcantara, S. W. (M)
Alexakis, N. G. (M)
Alexander, M. A. (M)
Allee, R. V. (M)
Allen, W. L. (M)
Allgeyer, G. O. (A)
Alper, S. M. (M)
Alperin, N. I. (M)
Ambrosio, A. (M)
Anderson, D. N., Jr. (M)
Anderson, K. W. (SM)
Anderson, R. S. (M)
Anderson, W. J. (M)
Andres, A. J. (M)
Angwin, B. S. (SM)
Anker, E. R. (M)
Antell, S. (M)
Anzel, B. M. (M)
Appleton, H. (A)
Arany, R. (M)
Aristei, J. (M)
Arnold, F. M. (M)
Arnold, J. R. (A)
Arnstein, G. P. (M)
Aroyan, G. F. (M)
Arrowsmith, E. B. (A)
Arsenault, W. R. (M)
Aungst, J. D. (M)
Aurich, W. G. (M)
Ausbourne, R. K. (SM)
Austrian, R. B. (SM)
Avnet, R. H. (A)
Avrech, N. (M)
Ayers, R. D. (M)
Azama, J. T. (M)
Azari, E. (M)
Babin, R. S. (SM)
Bailey, H. J., Jr. (M)
Bailin, L. L. (SM)
Bakeman, D. C. (M)
Baker, C. L. (A)
Baker, J. J. (M)
Baker, M. L. (M)
Baker, R. G. (M)
Balakrishnan, A. (M)
Balden, S. B. (M)
Baldwin, R. C. (M)
Ballard, K. C. (M)
Banks, L. (M)
Banks, R. E. (A)
Barcus, E. D. (SM)
Barkson, J. A. (SM)
Barnett, R. S. (M)
Barr, I. (M)
Barrett, M. J. (M)
Barton, B. H. (M)
Battocletti, J. H. (M)
Batsel, C. N., Jr. (M)
Bauer, W. F. (A)
Bauman, H. W. (M)
Bayley, R. M. (A)
Becker, H. (M)
Beckley, T. L. (M)
Bekey, I. (A)
Bell, A. F. (M)
Bell, R. C. (A)
Bell, W. H. (SM)
Bennett, R. R. (M)
Benning, F. N. (M)
Bennorth, D. W. (A)
Benson, C. E. (M)
Berkson, M. A. (M)
Berman, B. (M)
Bernhard, H. A. (M)
Bernstein, H. L. (M)
Bernstein, P. P. (SM)
Bernstein, R. (M)
Beroza, P. P. (SM)
Berry, B. F., Jr. (M)
Bialek, J. (A)
Bice, W. O. (M)
Bilyeu, R. P. (M)
Bird, R. N. (A)
Blackman, B. G. (SM)
Blake, J. B. (M)
Blodgett, W. G. (A)
Bocast, D. R. (M)
Bodenstein, J. (A)
Boggs, C. A. (SM)
Bohlke, P. G. (SM)
Boling, H. E. (A)
Bomeisler, R. E. (A)
Bonebreak, R. L. (SM)
Bonner, P. R. (M)
Bonness, O. L. (M)
Bonney, L. A. (A)
Boothroyd, J. H. (A)
Booton, R. C. (M)
Borks, M. D. (M)
Bosley, C. T. (M)
Bowman, L. H. (SM)
Boykin, T. R., Jr. (M)
Braden, J. R. (M)
Bradley, J. L. (SM)
Brady, M. E. (M)
Brandt, R. (M)
Bratschun, R. C. (M)
Brauer, G. W. A. (SM)
Braun, E. L. (SM)
Braverman, D. J. (M)
Bravo, A. (M)
Breitwieser, C. J. (F)
Bright, D. C. (SM)
Britton, C. W. (A)
Brooks, W. O. (SM)
Brostrom, K. E. (M)
Brousseau, J. M. (A)
Browdy, A. A. (M)
Brown, F.-R. (M)
Brownstone, N. (M)
Brubaker, G. P., Jr. (M)
Brugman, W. E. (A)
Budnick, J. A. (M)
Burbeck, D. W. (M)
Burch, J. E., Jr. (A)
Burk, W. A. (M)
Burkhardt, G. N. (M)
Burnett, J. R. (SM)
Burnham, J. (M)
Burnsweig, J., Jr. (M)
Burt, R. A. (M)
Bussell, B. (M)
Butler, J. E. (A)
Byrd, D. J. P. (M)
Caglia, A. J. (A)
Cahn, C. R. (M)
Cahn, J. M. (A)
Campbell, F. L. (SM)
Campbell, S. (M)
Campillo, W. J. (M)
Canning, R. G. (M)
Card, J. B. (M)
Cargill, S. E. (A)
Carl, W. J. (M)
Carlile, R. N. (A)
Carlson, C. O. (M)
Carlson, E. H., Jr. (M)
Carlson, H. A. (M)
Carmel, H. H. (A)
Carpenter, L. B. (M)
Carpenter, R. L. (A)
Carr, J. W. (M)
Carson, J. W. (A)
Carter, E. C. (M)
Cataldo, J. T. (M)
Cate, F. M. (M)
Caulkins, D. C. (A)
Chalfant, D. A. (A)
Chamberlain, A. T. (M)
Chamorro, R. D. (M)
Chan, C. F. (M)
Chandler, C. W. (M)
Chang, D. (M)
Chapman, A. C. (M)
Chapsky, J. (M)
Chaput, R. L. (M)
Chater, M. L. (A)
Chew, T. W. (SM)
Chieffo, A. B. (A)
Chow, A. Y. (A)
Christian, B., Jr. (M)
Chudacoff, N. E. (M)
Churchill, O. R. (A)
Cirbo, A. J. (A)
Claar, D. E. (M)
Clanton, R. A. (M)
Clark, A. C. (A)
Clark, B. L. (M)
Clark, D., Jr. (M)
Clark, D. R. (M)
Clark, R. D. (M)
Clark, R. W. (SM)
Clary, W. T., Jr. (SM)
Clock, D. P. (M)
Cloon, R. E. (A)
Coerver, L. E., Jr. (A)
Cohen, M. (A)
Cole, E. M., Sr. (A)
Collins, J. W. (A)
Collins, W. C. (SM)
Colombano, L. (M)
Coltin, A. H. (M)
Conn, R. B. (M)
Conner, D. D. (A)
Considine, J. M. (A)
Conviser, H. (VA)
Cooke, R. M. (M)
Cooper, P. V. (A)
Copeland, W. H. (SM)
Cornwall, E. A., Jr. (M)
Costanza, S. T. (M)
Court, P. R. J. (SM)
Crabb, R. C. (SM)
Crandon, L. H. (SM)
Creutz, P. M. (M)
Crooke, V. E. (SM)
Crossman, T. F. (M)
Crowder, H. A. (SM)
Crown, L. (A)
Cryden, J. (SM)
Culver, W. H. (A)
Cunningham, E. W. (M)
Currie, J. D. (M)
Currie, W. D. (M)
Curtiss, A. N. (SM)
Cutler, M. (SM)
Dains, H. O. (M)
Dalley, D. G. (M)
Dalton, M. M. (A)
Daniels, J. A. (A)
Darling, J. K. (A)
D'Asta, J. (A)
Dautremont, J. L., Jr. (A)
Davenport, E. J. (A)
Davie, W. C. (A)
Davies, L. F. (M)
Davis, A. F. (A)
Davis, E. H. (M)
Davis, H. G., Jr. (M)
Davis, H. (A)
Davis, J. I. (SM)
Davis, J. J. (M)
Davis, M. R. (M)
Dawson, S. L. (A)
Dea, D. Y. F. (SM)
Deen, J. R. (M)
De Forest, L. (F)
De Kimpe, R. A. (M)
De La Garrigue, J. E., Jr. (M)
De Micco, A. (A)
Denny, W. I. (A)
Denton, R. F., Jr. (M)
Depner, D. M. (M)
Derchan H. L. (A)
Dernham, C. R. (M)
Derus, L. M. (A)
Deschamps, T. (M)
Dethlefsen, D. G. (M)
Dexter, G. W. (SM)
Dexter, P. F. (A)
Deyo, R. J. (A)
De Zube, L. H. (M)
Dhanjal, K. S. (M)
Dhein, D. D. (M)
Dibble, T. R. (M)
Di Bias, R. L. (M)
Digby, J. F. (SM)
Dine, F. E. (A)
Dite, W. (A)
Dizinno, R. E. (M)
Dlugatch, I. (SM)
Dobbertin, W. H. (SM)
Doll, E. B. (SM)
Domike, D. A. (SM)
Doolittle, K. H. (A)
Dorratcague, P. E. (M)
Douglas, D. L. (SM)
Dover, J. J. (SM)
Downes, L. C. (SM)
Dresselhouse, P. H. (M)
Drommerhausen, D. G. (SM)
Dudek, M. J. (M)
Dulin, J. J. (M)
Dunnigan, F. A. (SM)
Du Waldt, B. J. (M)
Dye, R. C. (A)
Dyrnes, S. L. (M)
Dzilvelis, A. A. (M)
Eckert, J. A., Jr. (M)
Eckstein, J. (M)
Edelsohn, C. R. (M)
Edgerton, A. D. (M)
Edgerton, D., Jr. (M)
Edson, M. (M)
Edwards, J. N. (A)
Eiermann, R. R. (A)
Einsohn, I. A. (M)
Eisenscher, F. S. (M)
Eisner, W. (M)

Ekparian, J. (M)
Elliott, G. L. (M)
Elliott, P. C., Jr. (M)
Elliott, R. T. (A)
Ellmore, L. F. (M)
Ellsworth, A. B. (A)
Endo, M. T. (SM)
Enenstein, N. H. (M)
Engh, P. B. (SM)
Epstein, R. A. (M)
Erdley, H. F. (M)
Estep, C. R. (VA)
Estrin, G. (M)
Estrin, T. A. (A)
Euler, L. J., Jr. (A)
Evans, G. L. (M)
Evans, H. W. (A)
Evfimenko, A. (A)
Fabian, S. H. (M)
Fatton, G. A. (SM)
Feigus, J. I. (A)
Feldman, N. E. (M)
Feldman, R. E. (M)
Fenn, W. H. (SM)
Fields, L. G. (A)
Finegold, L. (A)
Finley, W. A. (A)
Finney, B. W. (A)
Firle, T. E. (M)
Firth, E. (M)
Fischer, C. H. (A)
Fish, K. L. (A)
Fish, W. Y. (M)
Fishback, K. H. (M)
Fitting, G. M. (A)
Fitzgerald, G. E. (M)
Fitzwater, H. L. (M)
Fleary, W. K. (A)
Fletcher, J. C. (M)
Fling, J. J. (A)
Flock, W. L. (M)
Flowers, W. P. (A)
Floyd, G. W. (A)
Fluhrer, A. C. (A)
Fodor, F. H. (VA)
Ford, R. G. E. (M)
Forrest, C. B. (M)
Fort, J. E. (M)
Foulon, F. (SM)
Foxman, E. (A)
Fraenkel, A. S. (A)
France, R. W. (A)
Francis, J. P. (A)
Fraser, R. H. (M)
Frear, G. C. (M)
Fredricks, I. E. (M)
Freytag, R. C. (A)
Friedman, P. (M)
Frink, F. W. (SM)
Frith, L. O. (M)
Fry, B. L. (A)
Fujimoto, J. (M)
Fujimoto, T. Y. (M)
Fuller, T. D. (M)
Fulmis, M. J. (A)
Futterman, M. (M)
Gabler, R. T. (SM)
Gaines, B. R. (SM)
Gaitan, T. C. (M)
Gallagher, H. E. (M)
Galloway, W. J. (M)
Gamson, E. R. (M)
Gangi, A. F. (M)
Garafalo, J. J. (M)
Garblik, A. M. (SM)
Garcia, E. E. (M)
Garrigus, W. E. (SM)
Gasper, C. A. (A)
Gates, H. P., Jr. (SM)
Gaude, W. G. (M)
Gaylord, R. S. (M)
Gebhardt, H. W., Jr. (M)
Geer, W. (SM)
Geiger, A. A. (M)
Geissinger, G. I. (M)
Geiman, D. S. (A)
Genco, F. (M)
Gerardi, F. R. (A)
Gerlough, D. L. (M)
Gertsch, E. P. (SM)
Gertz, J. S. (A)
Ghose, R. N. (SM)
Gibbs, L. C. (A)
Gichtin, A. L. (A)
Giddis, A. R. (A)
Giese, C. (M)
Gilbert, H. L. (A)
Gilson, R. J. (SM)
Gladstone, B. E. (M)
Glaser, D. C. (A)
Gloor, R. D. (M)
Goff, R. H. (M)
Gogolinski, J. A. (A)
Golbert, S. A. (A)
Gold, D. (M)
Goldenstern, G. M. (SM)
Goldman, H. (SM)
Goodell, C. E. (SM)
Goodrich, P. E. (A)
Goldman, S. (M)
Goodwin, F. E. (M)
Goodwin, J. W. (A)
Goodykoontz, J. R. (SM)
Gordon, A. I. (M)
Gordon, G. (A)
Goris, E. N. (M)
Gorman, J. M. (M)
Gossland, S. (A)
Gottier, T. L. (SM)
Gould, E. W. (M)
Gould, R. E. (M)
Gourrich, G. E. (M)
Gozzi, E. J. (M)
Grabbe, E. M. (A)
Graham, J. M., Jr. (M)
Grant, E. W. (M)
Gray, W. H. (M)
Gray, W. W. (M)
Green, J. S. (SM)
Greenbaum, M. (M)
Greenfield, A. R. (M)
Gregory, E. M. (M)
Gregory, G. D. (M)
Greif, H. D. (M)
Griest, R. H. (SM)
Griffith, M. H. (VA)
Griffiths, R. W. (M)
Grigg, R. W. (M)
Griggs, J. R. (SM)
Grignon, L. D. (SM)
Grimes, W. J. (A)
Griswold, T. W. (M)
Gross, I. (M)
Gruen, W. J. (F)
Gudmundsen, R. A. (SM)
Guerrero, E. S. (SM)
Guiness, H. A. (A)
Gunny, E. R. (A)
Gurske, V. P. (A)
Gutcheon, W. Y. (M)
Guthrie, W. R. (A)
Guyer, E. (A)
Haag, E. J. (M)
Haas, R. W. (A)
Haberland, E. R. (M)
Habra, J. H. (M)
Haeff, A. V. (F)
Hageman, D. H. A. (A)
Hahn, A. C. (M)
Haines, C. S. (M)
Hale, H. E. (A)
Halenbeck, A. D. (A)
Hall, E. C. (M)
Hall, K. A. (M)
Hall, T. S. (M)
Hamilton, R. F. (A)
Hammond, N. B. (A)
Hance, H. V. (SM)
Haniah, H. M. (A)
Hanover, P. N. (M)
Hansen, H. R. (M)
Hansen, Q. P. (M)
Harberts, H. H. (A)
Hardin, R. H. (M)
Harpenau, R. L. (M)
Harrigan, B. R. (A)
Harrington, V. L. (M)
Harris, J. W. (SM)
Harrison, W. (A)
Hart, P. R. (A)
Hart, R. C. (M)
Hart, T. J. (M)
Hartman, R. H. (M)
Hassel, R. R. (M)
Hassencahl, L. J. (M)
Hata, F. T. (M)
Hayashida, B. N. (M)
Hayata, T.-A. (M)
Hayes, W. T. (A)
Haymond, H. R. (M)
Haywood, V. M. (M)
Hecht, B. (SM)
Heilfron, J. (A)
Heim, F. A. (M)
Heimiller, R. C. (A)
Heinke, C. B. R. (M)
Helland, J. C. (SM)
Henderson, M. C. (M)
Hendricks, M. (A)
Hendrix, C. E. (A)
Henry, J. A. (M)
Herrick, T. A., Jr. (M)
Hershberger, W. D. (F)
Hetland, G., Jr. (M)
Higashi, A. K. (A)
Higashi, P. (M)
Hill, C. R. (SM)
Hill, D. M. (M)
Hilliard, W. R. (M)
Hilliard, J. K. (F)
Hilsdale, F. A. (A)
Himes, R. (M)
Hirschfield, G. A. (M)
Hoffman, L. A. (M)
Hoffman, H. L. (SM)
Holcomb, D. R. (SM)
Holdsworth, D. M. (A)
Holland, J. E. (A)
Holley, A. E. (M)
Holley, H. G., Jr. (M)
Holliday, I. M. (SM)
Holmes, F. M., Jr. (M)
Holmes, J. L. (M)
Holt, D. G. (M)
Holthenrichs, P. D. (M)
Hom, F. M. (SM)
Honey, J. F. (SM)
Hoo, E. (A)
Hook, W. R. (M)
Hopkins, R. C. (M)
Horton, B. W. (A)
Horvath, J. S. (M)
Hosbach, G. H. (A)
Howard, J. J. (A)
Howard, R. A., Jr. (M)
Hoy, E. C. (M)
Hughes, F. (M)
Hughes, G. R. (M)
Hultberg, D. E. (M)
Humphries, D. H. (M)
Hunt, C. R. (A)
Huntley, W. P. (A)
Iannelli, E. (M)
Imhoff, J. J. (SM)
Ingrassia, F. S. (M)
Ireland, R. O. (A)
Izuel, A. G. (M)
Jackman, R. W. (M)
Jackson, B. B. (M)
Jackson, J. A. (M)
Jackson, K. R. (SM)
Jacob, D. M. (SM)
Jacobi, W. J. (M)
Jacobs, J. E. (SM)
Jacobson, R. E. (M)
Jaffe, R. M. (M)
Jahns, E. R. (SM)
Jamieson, H. W. (SM)
Jamison, J. W., Jr. (M)
Jamison, R. S. (A)
Jarrett, H. F. (M)
Jeffrey, H. S. (M)
Jeffs, C. R., Jr. (A)
Jensen, H., Jr. (M)
Jensen, R. D. (M)
Jensen, S. K. (M)
Jepsen, T. L. (M)
Jevons, L. O. (M)
Johanson, E. H. (A)
Johnson, G. (SM)
Johnson, R. E. (M)
Johnson, R. M. W. (SM)
Johnson, W. A. (M)
Jones, D. (A)
Jones, L. E. (M)
Jones, R. M. (A)
Jordan, K. E. (A)
Joseph, H. (A)
Jurmain, J. H. (M)
Kaar, I. J. (F)
Kado, R. T. (M)
Kagan, M. F. (SM)
Kahne, L. (A)
Kalibjian, R. (M)
Kane, P. M. (M)
Kaneko, G. S. (A)
Kanner, R. H. (M)
Kappler, M. O. (SM)
Karplus, W. J. (M)
Karr, P. R. (SM)
Karstad, K. (SM)
Karwan, H. P. (M)
Kasai, G. S. (M)
Kassing, G. M. (A)
Kato, M. M. (M)
Kato, P. S., Jr. (A)
Kaufman, A. B. (M)
Kaufman, S. (M)
Kawafuchi, P. M. (M)
Kawahata, B. I. (M)
Kawana, H. Y. (A)
Kawano, K. (M)
Keast, D. N. (M)
Kehn, D. G. (SM)
Keeran, R. V. (SM)
Kehrer, H. R. (M)
Kelt, H. A. (M)
Kelly, D. A. (SM)
Kelly, R. D. (M)
Kelsey, D. L. (A)
Kelso, J. M. (SM)
Kemanis, G. (M)
Kennedy, C. B. (M)
Kennedy, F. M. (SM)
Kennedy, M. E. (F)
Kerfoot, B. P., Jr. (SM)
Kibler, P. J. (SM)
Kiernan, E. F. (SM)
Kiesel, R. H. (M)
Kilchenman, L. U. (A)
Kilpatrick, H. N. (A)
Kim, B. (M)
Kimball, M. A. (A)
Kinaga, T. (M)
Kind, D. E. (M)
Kind, D. E. (M)
King, C. F. (M)
King, C. G., Jr. (M)
King, E. F. (SM)
King, E. N. (M)
King, R. E., Jr. (SM)
Kinsell, W. L. (SM)
Kircher, R. J. (SM)
Kirsch, H. A. (M)
Kishi, F. H. (M)
Kitabayashi, T. (A)
Klammer, R. W. (M)
Klapper, E. (A)
Klein, F. A. (M)
Klein, G. H. (A)
Klein, H. E. (M)
Klein, W. S. (M)
Kleinfelder, D. S. (M)
Kline, M. B. (SM)
Kline, R. L. (A)
Knaul, J. E. (M)
Knauss, R. G. (M)
Knell, E. A. (M)
Knudson, J. A. (M)
Kobayashi, J. T. (M)
Kober, B. K. (M)
Kodera, C. F. (M)
Koski, L. H. (M)
Koukol, J. F. (SM)
Kovach, L. D. (A)
Kovensky, D. J. (M)
Krafft, W. R. (SM)
Krausz, C. (A)
Krawiec, J. L. (M)
Krebs, J. H. (A)
Kroemer, J. R. (A)
Krone, I. (M)
Kros, K. W. J. (M)
Kruger, B. E. (M)
Kryske, L. E. (M)
Kummelshuh, K. J. (M)
Kurahashi, D. K. (M)
Kuratani, K. K. (A)
Kurek, N. B. (M)
Kuretich, J. W. (SM)
Kurkjian, L. H. (M)
Lader, L. J. (SM)
La Face, D. T. (M)
Lambert, J. D. (M)
Lambros, J. G. (M)
Lance, A. L. (M)
Landman, R. M. (A)
Landon, R. B. (M)
Lane, C. A. (M)
Lark, E. J. (M)
Larks, S. D. (M)
Larney, J. L. (A)
Larson, D. E. (M)
Lash, E. (M)
Latimer, D. T., Jr. (M)
Latt, H. A. (M)
Lavin, J. H. (M)
La Violette, R. F. (A)
Law, R. R. (F)
Lawlor, R. C. (SM)
Lee, E. K. (M)
Lee, E. C. F. (M)
Lee, L. K. (SM)
Lee, R. L. (M)
Lee, R. M. (M)
Leedy, C. A. (M)
Leeking, A. M. (M)
Le Grand, C. (M)
Leish, J. (A)
Leitch, W. S. (SM)
Leitner, R. G. (SM)
Leng, R. B. (SM)
Leonard, G. F. (M)
Leventis, G. T. (M)
Levine, A. (M)
Levine, L. (A)
Levinson, R. M. (A)
Le Von, M., Jr. (M)
Levonian, P. V. (A)
Levy, E. C. (M)
Levy, M. S. (M)
Levy, P. G. (M)
Lew, C. (SM)
Lew, H. W. (A)
Lewi, J. B. (SM)
Lewis, R. A., Jr. (M)
Libaw, W. H. (A)
Lichtman, S. W. (SM)
Lichty, J. R. (M)
Lieberknecht, J. A. (A)
Lieberman, J. L. (A)
Liebeskind, J. A. (M)
Lim, H. (M)
Lind, H. V. (M)
Lindenberg, S. (M)
Lindholm, P. A. (A)
Lindsay, W. W., Jr. (F)
Linhart, T. F., Jr. (A)
Lipman, C. E. (M)
Lissauer, S. (SM)
Littenberg, W. (M)
Lockwood, R. A. (A)
Looney, B. W. (SM)
Loop, H. L. (M)
Losh, S. J. (M)
Lou, C. B. (M)
Louapre, M. E. (M)
Love, C. E. (M)
Lovejoy, R. E. (SM)
Lowell, R. J. (M)
Lowitz, G. E. (SM)
Loy, V. S. (A)
Lucas, A. (A)
Luce, D. W. (M)
Ludwig, D. E. (A)
Lund, R. E. (M)
Lund, W. W. (M)
Lushinsky, G. A. (A)
Lusk, J. R. (M)
Luth, P. A., Jr. (M)
Lutz, S. G. (SM)
Lyons, L. J. (A)
Macaluso, F. A. (A)
Mac Crone, C. R. (A)
Magid, M. (SM)
Maguire, J. P. (M)
Maguire, W. W. (M)
Maher, R. A. (SM)
Mallon, T. A. (A)
Mancini, U. S. (M)
Manderfeld, E. C. (SM)
Manly, R. (A)
Manner, H. (A)
Manov, F. S. (A)
Mar, W. A. (A)
Margol, L. (M)
Margolin, J. (M)
Margolis, M. (M)
Margowsky, H. M. (M)
Markowitz, S. (A)
Markowski, E. (M)
Marshall, F. C. (M)
Marshank, D. N. (A)
Martin, L. B. (A)
Mason, C. W. (SM)
Massey, M. T. (M)
Masuda, H. B. (M)
Mathews, E. (M)
Mathews, W. E. (SM)
Matsubara, G. S. (M)
Matsumoto, T. E. (A)
Matuszewski, H. E. (M)
Maure, D. R. (SM)
Mautner, L. (SM)
McAllister, J. T. (A)
McCaldin, J. O. (SM)
McCaron, S. J. (M)
McCarthy, J. W. (M)
McCharles, J. R. (M)
McClung, R. R. (M)
McCoy, R. E. (SM)
McCrate, J. G. (M)
McDonald, W. W. (M)
McGaughey, J. R. (SM)
McIntyre, G. F. (A)
McKenzie, J. A. (A)
McKinney, D. J. (M)
McKinney, N. P. (M)
McLean, J. D. (SM)
McRuer, D. T. (SM)
McVey, B. D. (M)
McVey, I. M. (M)
Mead, C. E. (M)
Meerschaert, C. M. (M)
Meier, E. H. (SM)
Meisels, G. (SM)
Meissinger, H. F. (M)
Melnick, R. A. (M)
Menetrey, W. R. (M)
Menold, G. A. (M)
Merrill, H. M. (M)
Messner, G. P. (M)
Metcalf, D. E. (M)
Mettler, R. F. (M)
Meyer, J. C. (M)
Meyers, R. C. (A)
Michels, L. S. (M)
Micka, E. Z. (M)
Migliaccio, A. (M)
Mikkelson, M. E. (A)
Milby, B. C. (M)
Miller, D. S. (A)
Miller, R. A. (M)
Miller, R. W. (A)
Miller, T. (M)
Miller, W. B. (SM)
Millstone, S. D. (M)
Mintzer, A. I. (M)
Mirakentz, A. (A)
Mitchell, B. B. (M)
Mitchell, C. A., II (A)
Mitchell, H. F., Jr. (M)
Mitchell, J. M. (A)
Miyata, J. J. (M)
Mockbee, R. L. (M)
Modlinski, W. M. (M)
Molnar, A. W. (M)
Monroe, J. C. (M)
Moore, R. T. (M)
Moore, W. J. (A)
Moreno, C. A. (SM)
Morrison, R. (M)
Morrison, S. C. (A)
Morrow, C. T. (M)
Moskalo, V. G. (M)
Moss, J. F. (A)
Mount, T. E. (A)
Mueller, G. E. (SM)
Mueller, G. J. (SM)
Mueller, W. M. (M)
Mullin, J. T. (M)
Munger, J. C. (M)
Munson, J. E. (SM)
Murai, A. I. (M)
Murakami, E. T. (M)
Murgatroyd, R. T. (A)
Murray, R. M. (SM)
Myer, J. H. (SM)
Myers, K. E. (M)
Nagel, R. (M)
Nakamura, M. (M)
Nakatsu, G. V. (M)
Nash, H. (A)
Neal, F. R. (A)
Nedland, E. H. (A)
Neelands, R. (M)
Nelson, C. E. (M)
Nelson, H. L. (A)
Nelson, K. L. (A)
Neumann, J. W. (A)
Newhoffer, F. L. (A)
Newhouse, G. H. (M)
Newton, C. P. (M)
Nichols, C. A. (SM)
Nichols, F. J. (M)
Niebuhr, J. E. (M)
Nisenoff, N. (M)
Nishihara, M. (M)
Nordstrom, G. J. (SM)
Norton, J. L. (M)
Norwood, L. R. (SM)
Norwood, V. T. (SM)
Notvest, R. A. (M)
Nourse, R. B. (M)
Nusbaum, R. E. (M)
Nuttall, H. V. (SM)
Nutten, D. C. (M)
Oberholtz, L. P. (M)
Oberholtzer, J. M. (M)
O'Brian, E. D. (A)
O'Connor, G. J. (M)
Ogawa, K. (M)
Oglesby, W. D. (M)
O'Hara, C. L. (A)
Okafuji, S. (A)
Okimoto, J. Y. (M)
Okino, T. Y. (M)
Oleesky, S. S. (SM)
Olson, N. L. (A)
Olson, R. E. (M)
Olson, T. H. (M)
Orr, J. A. (A)
Ort, D. L. (A)
Oslake, J. J. (M)
Ota, T. T. (M)
Otoide, J. K. (A)
Otoshi, T. Y. (M)
Ovitt, M. D. (M)
Padwa, M. N. (A)
Palmer, D. L., Jr. (A)
Pamler, R. G. (M)
Papas, C. H. (M)
Parisky, R. N. (A)
Parker, A. T. (M)
Parker, M. S. (M)
Parkinson, R. W. (A)
Parsons, G. W. (A)
Pascoe, T. S. (M)
Pateuk, C. J. (M)
Patton, W. L. (M)
Paul, D. I. (M)
Pedersen, C. R. (M)
Pelta, E. R. (A)
Perez, A. A. (M)
Perkins, L. G. (M)
Perkins, L. M. (M)
Perry, E. D. (A)
Perry, R. H. (M)
Perry, W. C. (A)
Peterson, D. A. (A)
Peterson, E. J. (M)
Peterson, N. J. (M)
Pett, L. E. (M)
Pew, J. M. (SM)
Phifner, H. J. (A)
Philipson, L. L. (M)
Phillips, A. H. (A)
Phinizy, R. B. (M)
Pidhayny, D. D. (M)
Pieper, R. P. (M)
Pierce, C. G. (SM)
Pinckney, C. B. (M)
Pipes, L. A. (F)
Plass, S. (M)
Poppen, L. W. (M)
Post, G. (M)
Pound, A. E. (M)
Premo, A. F., Jr. (M)
Price, R. L. (SM)
Pritchard, C. A. (M)
Prout, D. B. (M)
Pugh, M. D. (M)
Quan, J. (A)
Quan, N. (M)
Quinn, R. F. (M)
Quinn, T. B. (A)
Quirk, R. W. (SM)
Radant, M. E. (M)
Rainville, L. E. (M)
Rajasekhar, P. S. (M)
Ramo, S. (F)
Ramos, A. A. (M)
Rappaport, R. B. (M)
Rath, E. D. (M)
Rau, E. C. (M)
Rauschkolb, A. J. (A)
Raymond, J. L. (M)
Reber, E. E. (M)
Redding, F. W., Jr. (M)
Redwood, R. C., Jr. (A)
Reed, A. C. (A)
Reed, A. C. (M)
Regnier, N. J. (M)
Reidel, J. E. (A)
Reimer, R. N. (M)
Reiner, O., Jr. (A)
Reinsch, F. J. (M)
Reiter, G. S. (M)
Rescoe, J. M. (SM)
Reynolds, G. W. (SM)

Rich, A. P. (M)
Richards, E. S. (A)
Richards, W. S. (VA)
Richman, I. (M)
Rickords, T. J. (M)
Riewald, R. J. (M)
Riser, C. R. (M)
Rist, A. E. (SM)
Rittersbacher, J. E. (M)
Roach, W. E. (A)
Robb, E. J. (M)
Roberts, A. N. (M)
Roberts, P. S. (M)
Robinson, J. H., III (A)
Robinson, P. (A)
Robinson, W. H. (M)
Rocks, J. K. (A)
Rockwell, R. E. (A)
Rodman, N. (M)
Rodriguez, P. T. (M)
Rogers, T. A. (M)
Roka, E. G. (A)
Roney, R. K. (M)
Rosa, G. N. (M)
Rose, W. (A)
Rosenstein, A. B. (M)
Rosenthal, R. N. (M)
Rosman, A. S. (A)
Ross, D. H. (M)
Ross, W. L. (M)
Roth, A. R. (M)
Rowlands, B. O. (SM)
Rubinstein, R. (A)
Ruderman, M. (M)
Rudich, R. (M)
Rudin, M. B. (A)
Ruhman, S. (SM)
Ruiz, M. L. (M)
Rumble, B. E. (M)
Rupp, V. T. (A)
Ruppenthal, W. (A)
Rush, J. M. (M)
Russell, W. T. (SM)
Rutishauser, R. W. (M)
St. John, R. P. (M)
Sakai, Y. (M)
Sakamoto, R. T. (M)
Salmi, T. W. (M)
Saltzberg, B. (SM)
Samuelson, H. R. (A)
Samulon, H. A. (SM)
Sander, W. B. (M)
San Vicente, R. (M)
Saturensky, G. (SM)
Saul, R. S. (M)
Sautter, P. J. (A)
Saworotnow, I. P. (M)
Sawyer, G. E. (VA)
Saylor, W. R. (SM)
Schaefer, J. H. (M)
Schaefer, W. C. (A)
Schaffer, A., Jr. (A)
Schapiro, H. A. (A)
Scharfeld, L. P. (A)
Schauweeker, H. E. (M)
Schilling, M. O. (M)
Schlesinger, R. J. (M)
Schmid, A. A. (M)
Schmidt, L. W. (A)
Schneberger, E. J. (M)
Schoenduve, H. W. (A)
Schonbrun, L. M. (M)
Schonheinz, E. J. (SM)
Schott, F. W. (M)
Schreiber, E. H. (F)
Schroer, P. E. (A)
Schultz, P. R. (M)
Schulz, P. (A)
Schuster, D. H. (M)
Schwartz, A. (A)
Schwartz, B. (M)
Schwartz, W. L. (M)
Sciuto, F. A. (A)
Scoffone, R. G. (M)
Scope, S. (M)
Scott, A. W. (M)
Scott, R. G. (M)
Scott, W. H., Jr. (M)
Scoville, R. R. (SM)
Sedin, J. W. (A)
Segal, R. E. (M)
Segel, D. L. (A)
Seidman, J. J. (SM)
Selleck, R. S. (M)
Semel, D. (A)
Semeniuk, B. G. (M)
Sensiper, S. (SM)
Sepmeyer, L. W. (SM)
Setzer, L. E. (SM)
Shallon, S. C. (SM)
Shanahan, E. F. (M)
Shaw, R. G. (M)
Shearer, R. W. (M)
Shelton, R. E. (M)
Sher, B. L. (M)
Shestag, L. N. (M)
Shigemoto, J. M. (A)
Shimabukuro, F. I. (M)
Shimabukuro, G. T. (A)
Shimizu, K. (M)
Shoemaker, H. M. (A)
Shook, G. R. (M)
Shore, H. G. (M)
Shore, J. D. (M)
Shoulders, H. D. (M)
Shrum, L. R. (A)
Shuler, M. H. (M)
Shulsinger, J. (M)
Sibllio, R. A. (M)
Sidlo, G. J. (M)
Sigal, B. C. (M)
Sigmon, L. C. (SM)
Signer, R. M. (M)
Silliman, W. B. (M)
Silvers, A. (M)
Simon, A. (SM)
Simpson, W. P. (SM)
Sinn, G. (A)
Sion, E. (M)
Sizemore, L. E. (M)
Skelton, P. (M)
Skoller, M. (SM)
Slogar, J. W. (M)
Smead, H. J. (M)
Smith, A. W. (M)
Smith, C. C. (M)
Smith, G. F. (SM)
Smith, H. A. (M)
Smith, R. T. (A)
Smuckler, E. J. (SM)
Snapp, K. M. (A)
Snell, H. R. (M)
Snitzer, T. L. (M)
Snow, V. M. (M)
Sodaro, J. F. (SM)
Soderlund, A. G. (M)
Sollars, R. C. (M)
Somers, F. J. (SM)
Sommer, J. G. (M)
Soux, L. B. (M)
Spector, A. N. (M)
Spellmire, R. J. (M)
Sperbeck, J. H. (A)
Sperling, P. (SM)
Spriestersbach, R. C. (M)
Sprinz, E. (M)
Stackhouse, A. (M)
Stager, D. N. (M)
Stahl, J. (M)
Stan, J. (A)
Stankevich, P. A., Jr. (A)
Stanton, R. S. (M)
Staudhammer, J. (M)
Stearns, G. W. (M)
Stearns, L. D. (A)
Steenson, B. O. (M)
Stein, R. L. (M)
Steinberg, R. (A)
Steinkolk, R. B. (M)
Stellmacher, D. D. (SM)
Stephenson, R. G. (SM)
Steward, M. H. (M)
Steward, R. H. (A)
Stewart, A. A. (A)
Stewart, R. K. (A)
Stockhoff, K. C. H. (M)
Stone, C. A. (A)
Stone, D. (M)
Stone, D. (M)
Stone, R. J. (M)
Stork, J. E. (M)
Stout, T. M. (SM)
Stover, D. R. (M)
Strandberg, J. E. (SM)
Strieby, M. (M)
Strumwasser, E. (M)
Stuart-Williams, R. (M)
Stuver, H. J. (A)
Sussman, R. J. (M)
Swanson, E. R. (SM)
Swiger, J. M. (A)
Szerlip, A. (SM)
Tajima, G. K. (SM)
Takahashi, A. Y. (M)
Takahashi, K. (A)
Talbot, J. J. (M)
Tanielian, G. (A)
Tarot, A. (A)
Tatsugawa, S. (M)
Taylor, E. K. (M)
Taylor, J. C. (M)
Taylor, V. (A)
Teichmann, T. D. (M)
Tellez, J. M. B. (M)
Terzian, R. C. (M)
Teske, J. A. (M)
Theodore, C. (M)
Thoma, F. J. (M)
Thomas, D. L. (M)
Thompson, G. L. (M)
Thompson, R. B. (M)
Thomson, H. C. (M)
Thorensen, R. (M)
Thorne, M. F. (A)
Tindall, K. V. (M)
Tinsley, W. E. (M)
Titlebaum, B. M. (M)
Toeppen, M. K. (SM)
Toffler, J. E. (M)
Toman, J. R. (M)
Tomash, E. (SM)
Tomikawa, K. B. (A)
Tompkins, J. S. (A)
Tondreau, H. J. (M)
Tracey, B. P. (A)
Trainer, R. E. (M)
Trapp, R. R. (M)
Trautman, D. L. (SM)
Triplett, W. R. (SM)
Troeger, F. R. (M)
Tudor, J. E. (A)
Turn, R. (M)
Tyson, G. (A)
Udalov, S. (M)
Uncapher, K. W. (A)
Underwood, W. H. (M)
Unger, I. L. (M)
Urlovic, W. C. (A)
Vaiciunas, A. A. (M)
Valadez, F. D. (M)
Valliant, J. G. (M)
Van Curen, V. (M)
Vant Hull, L. L. (M)
Van Winkle, D. M. (SM)
Vargas, R., Jr. (M)
Veach, C. W. (SM)
Vega, C. J. (A)
Velasco, B. M. (M)
Venator, T. J. (M)
Veneklasen, P. S. (M)
Vesser, W. C. (M)
Villa, R. (A)
Vincent, B. T., Jr. (M)
Vincent, L. R. (A)
Visotsky, V. M. (A)
Vitzelio, R. B. (A)
Von Lanken, J. R. (M)
Vorndran, J. W. (A)
Wachowski, H. M. (SM)
Wada, J. Y. (M)
Waksman, A. (M)
Walker, E. S. (M)
Wall, J. E. (A)
Wallace, D. C. (M)
Waller, R. W. (M)
Walley, B. (SM)
Walsh, J. S. (A)
Walthers, G. A. (A)
Wang, F.-B. (M)
Ward, R. A. (M)
Ware, C. H. (A)
Warren, W. B. (M)
Warshaw, M. (M)
Waters, W. P. (SM)
Weber, F. V. (A)
Weglein, R. D. (SM)
Weinberg, L. (SM)
Weinberger, H. L. (SM)
Weindorf, D. R. (M)
Weiner, E. L. (M)
Weingarten, R. (M)
Weis, W. G. (M)
Weiss, P. H. (SM)
Welborn, K. M. (A)
Weldon, J. C. (M)
Welge, V. (SM)
Welliver, C. L. (M)
Wells, J. H., Jr. (M)
Welty, R. M. (M)
Wendel, D. R. (M)
Wendt, K. R. (F)
Wenters, R. L. (M)
Werts, L. C. (M)
Wessel, R. E. (M)
West, J. E. (A)
Wheelon, A. D. (M)
Whiston, R. W. (M)
White, C. R. (M)
White, W. H. (M)
Whitten, M. G. (A)
Wiggins, E. T. (M)
Wiley, C. A. (M)
Wilke, W. E. (A)
Willis, M. R. (A)
Wills, C. F. (M)
Wilson, A. E. (A)
Wilson, H. G. (M)
Wilson, L. W. (SM)
Wilson, W. E. (A)
Wingard, C. G. (M)
Winston, H. (SM)
Winters, B. C. (M)
Winters, M. N. (M)
Wires, G. A. (M)
Witherwax, H. E. (M)
Witten, E. L. (M)
Wolff, A. F. (A)
Wolfson, H. (M)
Wollrich, A. E. (M)
Wong, D. S. (M)
Wong, E. C. (M)
Wong, F. (A)
Wong, H. (M)
Wong, H. Y. (M)
Woo, C. (M)
Wood, G. D. (A)
Wooldridge, D. E. (F)
Woster, S. H., Jr. (M)
Wrestler, G. R. (M)
Wright, P. B. (A)
Wybrow, E. (SM)
Yasuda, J. K. (M)
Yatskin, G. C. (SM)
Yoder, D. R. (M)
Yonemoto, N. (M)
York, R. L. (M)
Young, R. D. (M)
Zacharias, R. (M)
Zander, T. A. (M)
Zeh, R. J. (SM)
Zeoli, G. W. (SM)
Ziegler, R. M. (M)
Zilliman, J. R. (A)
Zimmerman, F. M. (A)

Los Banos (SF-7)
Hunt, M. D. (A)

Los Gatos (SF-7)
Brooks, H. B. (SM)
Craddock, W. O. (M)
Critchlow, A. J. (M)
De Vault, R. L. (M)
Drake, J. M. (M)
Eliezer, D. E. (A)
Glass, F. W. (M)
Goddard, W. A. (M)
Goetz, J. A. (M)
Heintz, R. M. (F)
Henschke, R. A. (M)
Hummel, K. H., Jr. (A)
Jaffe, J. S. (M)
McEuen, A. H. (M)
McLaughlin, J. A. (M)
McQuade, E. J. (M)
Meidell, P. I. (A)
Mills, J. J. (M)
Morrison, H. L. (M)
Orrick, R. L., Jr. (M)
Publicover, J. V. (A)
Schultz, O. T. (SM)
Stoner, F. E. (SM)
Sund, H. E. (M)
Vinding, J. P. (A)
Wear, C. L. (A)
Wilds, R. B. (M)

Lynnwood (LA-7)
Audick, G. C. (A)
Davidson, J. K. (A)
England, R. E. (M)
Gerken, G. H. (M)
Holtrichter, J. (M)
Miller, D. E. (M)
Roth, E. L. (M)
White, A. A. (M)

Malibu (LA-7)
Dill, J. M. (A)
Hudspeth, T. (A)
Knowles, W. S. (SM)
Koontz, D. E. (A)
Lewis, D. E. (A)
Perlman, D. (M)
Savory, W. A. (M)
Smiley, E. L. (M)
Taylor, F. N. (M)
Yearsley, W. A. C. A. (M)

Manhattan Beach (LA-7)
Andrews, L. A. (M)
Beachler, R. R., Jr. (SM)
Booth, F. T. (A)
Borgeson, P. W. (M)
Buell, F. D. (A)
Burke, H. W. (M)
Clapp, R. W. (SM)
Clay, J. D. (M)
Conklin, J. L. (M)
Curtis, C. W. (M)
Curtis, E. I. (M)
Destabelle, R. (A)
Dobbins, W. E. (M)
Drake, W. E. (M)
Ellis, A. (M)
Evans, J. C. (M)
Fisk, J. W. (M)
Fountain, J. G. (A)
Frost, F. K. (A)
Frysinger, E. B. (M)
Fuhrman, T. A. (A)
Fulton, A. S. (M)
Garrett, L. A. (M)
Glascock, R. D. (M)
Graham, J. D. (M)
Gregory, H. D. (M)
Gustafson, L. A. (M)
Hansen, J. R. (A)
Hell, J. F. (M)
Hiekel, W. H. (A)
Highstrete, B. A. (A)
Hollis, R. D. (A)
Hoving, H. R. (M)
Kelly, R. S. (M)
Kirkland, V. D. (A)
Knittle, D. L. (A)
Le Moin, F. M. (A)
Lepper, R. (M)
Levy, S. N. (M)
Lodge, H. L. (M)
Martin, E. H. (M)
Martin, R. A. (M)
McCann, M. J. (A)
McElroy, C. M. (M)
Moore, J. M. (M)
Mullins, W. H. (M)
Norsell, P. E. (A)
Obray, D. C. (A)
Orr, W. D. (M)
O'Toole, J. B. (M)
Putter, K. (M)
Rodman, S. B. (M)
Rousseau, A. L. (M)
Russell, W. J. (M)
Ryan, W. R., Jr. (M)
Shoemaker, H. L. (A)
Sinclair, J. G., Jr. (SM)
Sloan, A. B. (M)
Smith, W. B. (M)
Sokol, J. L. (M)
Sparling, A. J. (A)
Spring, L. K. C. (A)
Starkey, M. J. (M)
Stodder, D. J. (A)
Straube, G. F. (M)
Sur, J. (M)
Swarthe, E. (SM)
Tallon, W. J. (A)
Thrall, L. L. (A)
Tucker, V. L. (A)
Vandegrift, R. B. (SM)
Van Velzer, V. C. (M)
Vutz, P. (M)
Walters, R. F. (A)
Washburn, D. M. (M)
Washington, L. P., Jr. (A)
Webb, J. O. (M)
Welcome, W. W. (M)
Whelan, D. E. (SM)
Wooldridge, E. J. (M)
Young, R. G. (A)

Manteca (SAC-7)
Arwine, R. (A)

Mare Island (SF-7)
Rue, A. K. (A)

Martinez (SF-EB-7)
Bumpass, R. C. (A)

Mar Vista (LA-7)
Allen, B. G. (A)
Appelman, J. F. (A)
Hanna, R. E. (M)

Mather AFB (SAC-7)
McCormack, E. J. (A)
Thompson, W. R. (M)

McClellan AFB (SAC-7)
Clark, R. N. (M)

Menlo Park (SF-PA-7)
Alcorn, C. L. (SM)
Ault, C. E. (M)
Ayer, W. E. (SM)
Badger, G. N. W. (M)
Baer, J. A. (SM)
Bailey, H. M. (A)
Barnard, G. A., III (SM)
Barnes, C. W., Jr. (SM)
Benedict, D. L. (SM)
Berg, M. R. (M)
Bliss, J. C. (M)
Bogley, P. C. (M)
Bothun, R. B. (M)
Brennan, P. A. (M)
Brierly, F. A. (M)
Brodersen, L. K. (M)
Brown, O. H. (SM)
Cameron, E. G. (SM)
Carswell, I. (M)
Carter, E. F. (F)
Christie, T. A., Jr. (SM)
Clarke, L. G. (SM)
Cohn, S. B. (SM)
Connor, T. J. (A)
Cox, B. (SM)
Crane, H. D. (SM)
Cullen, D. E. (M)
Curtis, E. C. (A)
Cromack, J. C. (M)
De Liban, R. (M)
Demere, R. M., Jr. (M)
Dodge, C. A., Jr. (A)
Dorsett, J. W., Jr. (M)
Dry, J. H. (A)
Dunbar, A. S. (SM)
Durfey, G. K. (A)
Dyce, R. B. (M)
Eitel, W. W. (F)
Elam, J. M. (M)
Eldredge, K. R. (SM)
Elliott, H. F. (F)
Evans, W. E., Jr. (SM)
Fisher, L. L. (M)
Fitterer, C. E. (M)
Fleenor, E. G. (M)
Fleig, W. J. (M)
Gano, L. D. (A)
Gardiner, K. W. (A)
Gellerman, R. F. (M)
Gould, R. G. (SM)
Gray, E. E. (M)
Greco, N. A. (A)
Green, C. A. (A)
Griffith, C. G. (M)
Grow, R. W. (A)
Hall, E. G. (M)
Haruyama, B. K. (M)
Hayes, M. H., Jr. (SM)
Henderson, K. W. (M)
Hennies, S. R. (M)
Hirotsu, G. S. (M)
Hoffman, R. J. (A)
Holt, W. W. (M)
Honey, R. C. (SM)
Housholder, D. B. (SM)
Huggins, R. A. (SM)
Johnson, R. R. (M)
Jones, E. D. (M)
Jones, E. M. T. (SM)
Kaar, J. M. (M)
Kamphoefner, F. J. (SM)
Kautz, W. H. (M)
Kebby, M. H. (M)
Kennedy, H. D. (M)
King, R. C. (M)
Lansinger, J. M. (M)
Leadabrand, R. L. (M)
Kruse, C. J. (M)
Lennert, F. G., Jr. (SM)
Light, R. H. (A)
Long, R. A. (M)
Lucke, W. S. (SM)
Luckenbach, R. R. (M)
Lynch, W. M. (M)
Marshall, D. (M)
Masters, D. W. (M)
Mattern, M. F. (M)
Matthew, T. B. (M)
McKey, D. B. (SM)
McWhorter, M. M. (A)
Meader, H. W. (A)
Meisling, T. H. (SM)
Melville, R. W. (M)
Meyer, H. M., Jr. (A)
Monson, J. E. (M)
Moore, E. J. (SM)
Moore, L. (M)
Morita, T. (SM)
Morrin, T. H. (SM)
Mosley, R. B. (M)
Muehlner, J. W. (SM)
Nelson, R. A. (M)
Noe, J. D. (SM)
North, D. O. (A)
Notthoff, A. P., Jr. (M)
Olson, H. D. (A)
Orr, J. E. (M)
Pappas, R. L. (SM)
Parsons, W. L. (M)
Patton, W. R. (M)
Paulsen, W. C. (A)
Petrak, J. R. (SM)
Popaduk, G. F. (M)
Porro, E. D. (M)
Post, E. A. (SM)
Presnell, R. I. (M)
Priedigkeit, J. H. (SM)
Rice, P. J., Jr. (SM)
Ridley, F. E. (SM)
Ritter, E. W. (SM)
Robbiano, P. P. (M)
Rock, A. J. (M)
Rosen, C. A. (SM)
Rosenthal, G. W. (M)
Salmon, V. (SM)
Schlobohm, J. C. (A)
Senise, J. T. (A)
Sherk, P. M. (M)
Scarborough, D. S. (M)
Sharp, E. D. (M)
Silhavy, W. M. (A)
Sleeper, G. E., Jr. (SM)
Sphar, C. H. (VA)
Stansch, H. C. (A)
Stolaroff, M. J. (M)
Stoltz, P. G. (M)
Symons, R. S. (M)
Tanner, R. L. (SM)
Taylor, N. J. (M)
Templeton, T. H. (SM)
Thille, R. W. (M)
Travis, L. J., Jr. (M)
Trumbull, A. F. (A)
Valdes, L. B. (SM)
Vallarino, A. R. (M)
Vane, A. B. (M)
Vartanian, P. H., Jr. (SM)
Vassiliadis, A. (A)
Wallner, R. A. (M)
Whitby, O. (SM)
Whitehorn, R. M. (A)
Willoughby, D. E. (A)
Willrodt, M. J. (M)
Wing, R. Y. (M)
Winkelman, R. E. (M)
Worley, O. C. (M)
Yoder, E. R. (M)
Zukin, A. S. (M)

Mentone (LA-OB-7)
Simmons, V. J., Jr. (A)

Merced (SF-7)
Hintz, H. F. (A)
Pinsky, B. (A)
Sweeley, G. K. (A)
Trost, V. E. (A)

Milpitas (SF-PA-7)
Zobel, F. J., Jr. (M)

Millbrae (SF-7)
Bean, T. C. (M)
Brichta, E. C. (A)
Calvert, C. C. (A)
Moore, K. A. (M)

Murdock, C. E. (M)
Reed, J. M. (M)
White, H. A. (M)

Mill Valley (SF-7)
Behringer, D. S. (M)
Carnuccio, J. N. (M)
Davidson, J. D. (A)
Feeney, W. G. (M)
Harbidge, E. A. (A)
Jacobs, H. N. (M)
Kotzum, J. (A)
McFadden, R. R. (M)
Smith, H. H. (M)
Vreeland, R. W. (M)

Miramar (SD-7)
Niemi, L. T. (M)

Mission San Jose (SF-EB-7)
Hostetter, D. M. (M)
McGee, M. E. (M)

Modesto (SAC-7)
Bates, W. H., Jr. (VA)

Mojave (CL-7)
Notar, C. A. (A)

Monrovia (LA-P-7)
Ambrose, E. G. (A)
Apple, J. S. (M)
Bell, N. W. (M)
Brandes, R. A. (M)
Bremner, D. S. (A)
Gillespie, H. R., Jr. (M)
Goodman, F. R. (M)
Hawes, R. C. (A)
Jackson, F. J. (M)
Kielty, D. T. (M)
Lawler, R. H. (M)
Livezey, J. A. (M)
Lothringer, R. C. (M)
McGill, J. J. (A)
Petry, C. B. (SM)
Pfund, E. T., Jr. (M)
Skelrik, R. M. (M)
Speck, G. (M)
Tong, S. R. (M)

Montara (SF-7)
Booker, J. P. (M)

Monta Vista (SF-7)
Evans, K. R. (M)
Hochman, D. (SM)
Patience, D. L. (M)

Montebello (LA-7)
Emerson, R. W. (A)

Monterey (SF-7)
Anderson, R. W. (M)
Bauer, W. M. (M)
Chaney, J. G. (SM)
Church, R. (A)
Dickinson, D. B. (M)
Frey, A. R. (SM)
Giet, G. R. (SM)
Glasgow, R. S. (F)
Hoisington, D. B. (SM)
Klamm, C. F., Jr. (M)
Marmont, G. H. (M)
Murray, R. P. (M)
Norris, W. E. (M)
Oler, C. B. (SM)
Riggin, J. D. (M)
Rightmyer, J. M. (M)
Rothauge, C. H. (M)
Smith, W. C. (M)
Spears, R. W. (M)
Williams, R. G. (M)
Wilson, O. B., Jr. (M)
Wilson, R. V., Jr. (A)

Monterey Park (LA-7)
Bacon, W. L. (A)
Brown, S. P. (A)
Carlin, J. H. (M)
Crippen, C. F. (SM)
Fucile, F. B. (M)
Kaluger, M. M. (M)
Kliment, P. (A)
Kopp, E. H. (M)
Leff, B. (M)
Lockhart, R. W. (SM)
Perry, J. T. (M)
Shenk, J. W. (M)
Smith, R. A. (M)
Stanton, G. (M)

Montrose (LA-P-7)
Bronstein, L. M. (A)
Bullock, R. E. (M)
Christilaw, J. S. (M)
Cox, J. A. (M)
Jensen, A. K. (M)
McClure, G. E. (M)

Moraga (SF-EB-7)
Tibbetts, D. R. (SM)

Morgan Hill (SF-7)
Allgaier, J. R. (A)
Yoshii, H. (A)

Morro Bay (LA-SB-7)
Waltz, K. E. (M)

Mountain View (SF-PA-7)
Aden, A. L. (SM)
Aitchison, D. C. (M)
Allen, S. E., Jr. (M)
Ashman, R. R. (M)
Beard, C. I. (SM)
Bellamy, J. L. (SM)
Bert, J. E. (A)*
Bettner, K. J. (A)
Blachman, N. M. (SM)
Blickensderfer, J. A. (SM)
Booth, R. F. (M)
Borghi, R. P. (A)
Bradley, E. J. (A)
Brede, D. W. (M)
Brennan, J. J. (M)
Bridgman, A. D., Jr. (M)
Broekemeier, A. E. (M)
Burley, C. H. (M)
Cancio, P. (A)
Card, A. A. (M)
Caryotakis, G. (M)
Chang, N.-C. (M)
Clark, C. B. (M)
Clifton, J. K. (M)
Clinton, W. R. (M)
Cooley, R. E. (M)
Corbell, P. I., Jr. (M)
Cross, H. V. (M)
Davis, J. H. (M)
Davis, R. A. (SM)
Diessner, O. G. (M)
Dilley, L. E. (A)
Dore, B. V. (M)
Drake, A. L., Jr. (M)
Dudley, C. P., Jr. (A)
Efting, H. J. (M)
Eggers, R. E. (M)
Fanjul, E. L. (M)
Farlow, C. C. (M)
Fire, P. (M)
Fischgrund, H. (M)
Fitzgerald, P. M. (M)
Flowerday, T. W. (M)
Forster, R. L. (M)
Franklin, L. R. (M)
Frincke, P. O. (M)
Gaenzle, J. B. (M)
Garberson, J. R. (A)
Garriott, O. K. (A)
Gates, J. P. (M)
Geppert, D. V. (SM)
Goodwin, V. D. (M)
Graham, R. E. (M)
Gray, K. B. (A)
Greener, A. E. (M)
Gregorian, R. P. (M)
Grimm, R. A. (SM)
Gunn, T. L. (M)
Haag, M. W. (M)
Hargrove, P. E. (A)
Henden, J. R. (M)
Heslop, M. D. (M)
Hofmeister, L. A. (A)
Horsley, G. S. (M)
Howard, A. B. (A)
Hughes, F. J. (SM)
Humphries, J. (M)
Hunter, L. W. (M)
Hupfer, D. L. (M)
Ihly, F. J. (M)
Isaak, M. E. (M)
Jackman, C. A. (M)
Jipp, J. (M)
Joste, T. R. (M)
Kelch, J. E. (A)
Kelch, R. D. (M)
Kessinger, H. E. (A)
Klein, W. F. (M)
Knapp, R. L. (M)
Koski, T. H. (M)
Lamberty, B. J. (M)
Lee, R. J. (A)
Leifer, M. (F)
Lincoln, E. T. (A)
Lundstrom, O. C. (M)
Maccono, F. J. (SM)
MacKenzie, M. H. (M)
Manebo, T. W. (M)
Manlger, L. L. (M)
Mansur, D. W. (M)
Mathers, G. C. (M)
McAlister, W. H. (A)
McClintock, R. K. (SM)
McMullin, N. D. (SM)
McMurtry, B. J. (M)
Medlin, J. E. (A)
Meinheit, C. E. (M)
Melton, J. F. (A)
Metz, N. J. (M)
Miller, M. R. (M)
Nord, R. H. (M)
Nyden, R. C. (SM)
Oberg, E. A. (A)
O'Neill, J. R. (M)
Pace, N. M. (M)
Palmer, D. L. (A)
Palmer, R. N. (SM)
Patch, C. S. (SM)
Pauley, T. N. (A)
Peters, D. W. (M)
Peters, E. O. (A)
Pfost, R. F. (M)
Pramann, R. F. (M)
Ramsay, W. R. (M)
Randall, K. K. (M)
Regenos, K. M. (A)
Reis, C. S. (A)
Rice, B. G. (M)
Rice, J. E., Jr. (M)
Rinaudo, R. F. (A)
Roder, A. (A)
Roney, E. L. (SM)
Roumbanis, T. (M)
Rowe, R. M. (M)
Ruddock, K. A. (M)
Sah, C.-T. (M)
Sarquis, R. H. (A)
Saunders, C. L. (M)
Schiffman, B. M. (M)
Schoderbek, J. J. (A)
Shapiro, M. A. (M)
Shockley, W. (F)
Siegel, F. G. (M)
Skonal, E. N. (SM)
Sperry, A. B. (A)
Stone, H. R. (A)
Storer, T. S. (M)
Suddjian, S. L. (M)
Swanson, C. A. (M)
Swiadek, S. F. (SM)
Taylor, J. J. (A)
Thon, W. H. (SM)
Tomlin, W. T. (M)
Tracy, T. J. R. (M)
Turenchalk, H., Sr. (M)
Twersky, V. (M)
Van Zuuk, D. A. (M)
Vehn, R. E. (M)
Walden, L. H. (M)
Walker, L. F. (M)
Weissman, J. G. (SM)
Wesenberg, C. M. (M)
Wheeler, W. R. (M)
Wickersham, A. F., Jr. (M)
Wilntol, W. (A)
Wilson, A. L. (M)
Wing, I. (M)
Winn, C. B. (A)
Wittenberg, E. C. (M)
Woodward, R. F. (A)
Wright, R. B., Jr. (M)
Wunderman, I. (A)
Yamada, D. A. (A)
Young, R. K. (M)
Zimmerman, H. G. (A)

Mount Wilson (LA-P-7)
Knight, J. B., Jr. (SM)
Livingston, W. C. (A)

Napa (SF-7)
Buice, G. S. (M)
Guyton, C. W. (M)
Mingst, H. C. (SM)
Morgenstern, H. S. (A)
Morris, W. S. (M)
Roberts, W. L. (M)
Shelton, R. G. (M)
Shephard, C. S. (A)
Sorensen, A. G. (A)

New Almaden (SF-7)
Perham, D. M. (SM)

Newport Beach (LA-SA-7)
Barton, D. C. (M)
Ceccarini, R. E. (M)
Cole, F. H. (VA)
Diamond, A. (M)
Ducati, A. C. (A)
Gehlke, D. A. (SM)
Helperin, J. (A)
Herbert, C. (SM)
Hood, H. E. (A)
Pregler, R. A. (M)
Slagle, W. R. (M)

Norco (LA-OB-7)
Brown, L. B. (A)

North Fork (SF-7)
Pearson, D. R. (M)

North Highlands (SAC-7)
Driggs, L. O. (A)

North Hollywood (LA-SF-7)
Allen, F. W. (M)
Bailey, F. W. (M)
Barnett, R. I., Jr. (M)
Beaudine, D. M. (M)
Berns, H. L. (A)
Bindewald, E. K. (M)
Bookee, J. R. (M)
Brewster, R. A. (M)
Brown, R. M. (A)
Buckley, J. R. (M)
Burkart, E. H., Jr. (A)
Burrell, J. E. (A)
Campbell, B. K. (A)
Chester, W. H. (SM)
Clayton, J. F. (SM)
Cochran, E. D. (M)
Combes, R. M. (SM)
Compton, R. L. (M)
Craven, T. E. (M)
Curtis, J. P. (A)
Daniel, R. L. (SM)
Danner, D. H. (M)
Davis, R. L. (M)
Dickerson, D. H. (M)
Dobson, T. M. (A)
Droesch, F. A., III (A)
Farnsworth, H. D. (SM)
Filbert, W. B. (M)
Filizola, V. F. (M)
Fogle, J. A. (M)
Fuller, C. L. (M)
Fuller, R. E. (A)
Garbowitz, L. (A)
Gardner, L. B. (M)
Gilroy, J. W. (M)
Gonsett, F. R. (SM)
Gottmer, G. W. (M)
Gove, E. L. (SM)
Haigh, W. B. (M)
Harrison, W. H. (M)
Hedene, T. H. (SM)
Helper, R. E. (M)
Hickman, D. D. (A)
Horning, T. D. (A)
Hughes, R. L. (A)
Hughes, W. A. (SM)
Huntsman, H. F. (M)
Jensen, K. K. (SM)
Kanarek, J. J. (M)
Kidd, L. G. (M)
Krinsky, S. S. (A)
Kubicek, G. B. (M)
Lagomarsini, G. C. (M)
Laslo, M. Z. (M)
Lauritzen, L. (M)
Leonard, N. E. (M)
Levine, S. E. (A)
Looney, J. M., Jr. (M)
Loski, R. R. (A)
Louie, P. Y. (M)
Lyons, L. F. (SM)
Marshall, N. P. (M)
Martin, R. F. (M)
Merrill, J. A. (A)
Molloy, C. T. (SM)
Momjian, E. A. (A)
Montgomery, D. R. (M)
Moore, V. (SM)
Morgan, R. L. (M)
Muir, H. M. (A)
Neely, N. B. (M)
Newton, W. P. (M)
Oliverio, A. P. (M)
Olson, O. P. (A)
Rathburn, R. H. (M)
Ripplinger, T. L. (M)
Rupnik, G. F. (M)
Sadler, B. L. (M)
Schieke, P. F. (M)
Schneider, W. J., Jr. (M)
Schollard, R. J. (M)
Seplow, S. (M)
Shon, A. (A)
Sloan, C. S. (A)
Sperling, R. D. (A)
Stalford, W. E. (M)
Stumpf, R. J. (M)
Sullivan, J. R. (M)
Sumner, T. B. (A)
Swenson, A. N., Jr. (M)
Taylor, E. H. (A)
Thomas, F. M. (M)
Vanous, P. J. (M)
Vodovoz, E. (A)
Ward, B. M., Jr. (M)
Warner, D. E. (SM)
Watanabe, K. (M)
Weaver, J. H. (M)
Wichmann, T. F. (M)
Winkler, J. L. (A)
Winter, F. J., Jr. (A)
Wise, D. O., Jr. (M)
Witt, R. E. (SM)
Wolf, M. B. (M)
Wolman, L. L. (M)
Zeitzew, H. (M)

Northridge (LA-SF-7)
Adams, P. R. (SM)
Bartholomew, R. J. (A)
Bass, L. J. (M)
Berlin, W. N. (M)
Boland, C. D. Jr., (M)
Burton, E. B. (A)
Chang, B. (M)
Clements, L. E. (M)
Coleman, H. B. (A)
Daush, A. A., Jr. (M)
Deming, A. F. (M)
De Voll, J. L. (M)
Doelz, M. L. (SM)
Fortecue, G. H. (A)
Greenwood, P. E., Jr. (SM)
Guarrera, J. J. (SM)
Hamilton, R. E. (SM)
Hammond, J. G. (SM)
Icenbice, P. J. (SM)
Karpenske, C. D. (A)
Kline, S. R. (A)
Lane, A. B. (M)
Lazarus, A. (M)
Lester, W. R. (M)
Levine, A. J. (A)
Liu, F. F. (M)
Mancini, A. R. (M)
Marsh, K. W. (SM)
McCuaig, J. E. (M)
Morrissey, D. J. (M)
Olson, A. B. (SM)
Ottinger, D. P., Jr. (A)
Paganelli, A. C. (M)
Palm, A. W. (M)
Paulos, L. B. (M)
Paulson, E. T. (SM)
Phillips, F. R. (M)
Sarture, C. W. (M)
Sherwood, D. M. (SM)
Sisson, R. L. (M)
Sloan, W. R. (A)
Sofen, I. A. (M)
Telle, G. R. (A)
Van Vliet, W. H. (A)
Wiggins, C. P. (A)
Wyland, G. P. (SM)
Wynhoff, F. J. (A)
Zimmerman, R. L. (M)

Norton AFB (LA-OB-7)
Weseman, H. E. (M)

Norwalk (LA-SA-7)
Auday, W. S. (M)
Brandes, R. E. (M)
Campbell, D. H. (A)
Collier, G. H. (A)
Greaves, H. L. (A)
Leisz, G. W. (SM)
Loop, D. M. (SM)
Mund, M. A. (M)
Roehl, E. R. (M)
Scheets, B. R. (M)
Thurman, E. J. (M)

Novato (SF-7)
Alley, W. D. (A)

Oakland (SF-EB-7)
Arne, R. E. (A)
Avery, H. T. (A)
Barale, J. J. (SM)
Black, L. J. (F)
Cagle, D. S. (M)
Carter, L. J., Jr. (A)
Chew, B. H. (A)
Clark, O. (A)
Cone, D. R. (SM)
Downey, C. E. (M)
Drake, H. B. (M)
Edwards, L. Z. (A)
Efstathiou, J. (A)
Forbes, A. C. (SM)
Gennett, D. F., Jr. (A)
Gibson, H. D. (M)
Gillfland, W. D. (M)
Glessner, J. M. (M)
Gunst, M. A., Jr. (M)
Harris, B. J. (M)
Heine, R. A. (M)
Hunter, S. P. (A)
Isakson, S. E. (M)
Jenkins, K. D. (M)
Jones, H. R. (A)
Jones, M. H. (A)
Kan, G. (A)
Lar Rieu, E. A., Jr. (SM)
Lytle, D. W. (M)
Mac Leod, D. A. (M)
Magnuson, H. R. (M)
Malone, W. C., Jr. (M)
Mizuno, E. (M)
Murr, W. C. (A)
Olson, R. E. (M)
Olson, S. R. (A)
Park, C. W. (SM)
Penther, C. J. (SM)
Pigozzi, L. J. (M)
Rosenberg, J. M. (SM)
Ross, A. (A)
Roux, W. L. (M)
Schwemin, A. J. (A)
Siefert, D. G. (M)
Slutman, A. C. (M)
Starr, L. (M)
Starrett, W. R. (A)
Stephens, R. A. (M)
Stripeika, A. J. (A)
Upham, F. T. (A)
Wahlgren, W. W. (SM)
Watt, R. M., Jr. (SM)
Wisniewski, J. (M)
Wixson, R. L. (M)
Wolfe, H. T. (M)

Ocean Park (LA-7)
Chapman, D. M. (M)
Manser, D. E., Jr. (M)
Riggs, G. L. (M)

Oceanside (SD-7)
Sutherland, J. J. (SM)
Ulmer, H. W. (SM)

Oildale (LA-7)
Hall, H. R. (M)
Oestreicher, D. L. (M)

Ontario (LA-OB-7)
Adams, F. L. (M)
Avrin, J. S. (A)
Baird, W. H. (M)
Bessette, A. (M)
Cheshire, F. C., Jr. (M)
Corrons, B. E. (M)
Cupp, J. D. (A)
Davis, H. H. (M)
De Diemar, J. L. (SM)
Grigg, J. W. (A)
Holtum, A. G., Jr. (SM)
Howland, R. W. (A)
June, R. H. (M)
Lindstrom, R. G. (A)
Lock, R. W. (M)
Martin, R. L. (M)
Odekirk, M. D. (M)
Oliverson, M. (A)
Pollock, R. D. (M)
Resnik, A. E. (M)
Ritchie, R. W. (A)
Ritter, E. (SM)
Schwenker, R. (M)
Stephens, F. M. (M)
Taylor, A. D. (A)
Warner, S. D. (A)
Wesley, G. H. (M)
Wheeler, D. D. (M)

Orange (LA-SA-7)
Bunge, W. R. (A)
Busse, C. A. (A)
Dunn, J. (M)
Eatough, C. D. (A)
Flagg, D. J. (M)
Gardner, F. M. (A)
Lephakis, A. J. (M)
Little, F. A. (SM)
Mayfield, J. D. (A)
McElveen, K. H. (M)
Medak, M. M. (M)
Riffle, L. V. (A)
Spradlin, K. M. (M)

Orangevale (SAC-7)
Petersen, M. C. (M)

Orinda (SF-EB-7)
Brobeck, W. M. (SM)
Dexter, W. L. (SM)
Egli, F. W. (M)
Gregg, P. E. (M)
Kemper, J. D. (M)
Thunen, G. W. (M)
Werlin, J. H. (A)

Oxnard (LA-B-7)
Agrelius, K. C. (A)
Benninger, B. G. (M)
Bosmajian, C. P. (M)
Bossoletti, J. E. (M)
Bowen, W. A., Jr. (SM)
Bradford, W. O. (SM)
Dawson, D. A. (M)
Dewey, D. C. (M)
Dowling, K. T. (M)
Dvoracek, F. H. (A)
Eagan, J. T. (M)
Fields, M. H. (M)
Frederick, J. A. (M)
Gibson, J. G. (A)
Ginn, A. (M)
Gleason, J. L. (M)
Gomez, P. D. (A)
Gregory, R. M. (M)
Howe, W. F. (M)
Hughes, D. D. (A)
Ishii, F. K. (M)
Jones, M. S. (M)
Kopp, G. W. (M)
Marvin, P. K. (M)
Matheson, A. I. (A)
McIntyre, R. D. (A)
Miller, J. W. (M)
Miller, W. A. (M)
Moore, G. H. (M)
Morse, J. H. (M)
Murray, H. J., Jr. (M)
O'Bryan, R. L. (M)
Pike, B. W. (SM)
Pike, J. M. (M)
Sakazaki, Y. (M)
Sandberg, G. D. (M)
Schneider, P. R. (A)
Shine, E. F., Jr. (M)
Shroyer, H. M. (A)
Solferino, T. A. (M)
Sorden, L. V. (M)
Swanson, E. C. (M)
Taylor, B. J. (A)
Tipple, R. J. (A)
Valle, H. O. (M)
Waddell, T. P. (M)
Wood, L. E. (M)
Wright, D. B. (M)

Ziherl, E. J. (A)
Zoll, D. J. (M)

Oxnard Beach (LA-B-7)
Ritz, W. A. (M)

Pacific Beach (SD-7)
Fixsen, R. E. (M)

Pacific Grove (SF-7)
Bayless, H. (A)
Burn, J. W., Jr. (A)
Cowan, B. (A)
Mace, J. C. (SM)

Pacific Palisades (LA-7)
Alberts, W. A. (SM)
Albrecht, A. (SM)
Arndt, W. F. (SM)
Baker, R. D. (A)
Barker, C. B., Jr. (SM)
Beagles, R. (SM)
Bedrosian, E. (SM)
Berman, H. (SM)
Boykin, E. M. (SM)
Bradshaw, H. B. (M)
Brewer, A. F. (SM)
Brigden, J. K. (M)
Carlson, C. G. (SM)
Cochran, K. W. (A)
Cohen, A. (M)
Collup, D. O. (SM)
Curtis, J. S. (M)
Danenberg, L. W. (M)
Dodge, W. A., Jr. (SM)
Doyle, E. J. (SM)
Dumas, R. E. (A)
Fisher, B. E. (M)
Friedman, T. B. (SM)
Garber, R. S. (M)
Giffin, K. A. (SM)
Grantham, R. W. (A)
Graves, R. E. (SM)
Greene, G. M. (SM)
Halloran, R. G. (M)
Hansen, H. S. (M)
Hartmann, W. A., Jr. (M)
Hathaway, B. (M)
Hauffe, G. S. (M)
Hertzberg, A. (M)
Ho, E.-C. (A)
Hollander, F. H. (M)
Hollands, L. C. (SM)
Holt, W. J., Jr. (M)
Howard, L. W. (SM)
Iams, H. (F)
Jacobson, R. E., Jr. (SM)
Justice, L. E. (M)
Kahn, B. S. (M)
Kauke, J. R. (SM)
Kerr, J. S. S. (SM)
Lengyel, B. A. (SM)
Loretz, N. F. (A)
Macklin, T. G. (M)
Mallett, J. D. (M)
Mayner, G. S. (A)
McCloud, W. W. (M)
Miller, B. F. (F)
Miller, K. M. (SM)
Muchmore, R. B. (SM)
Newlon, A. E. (SM)
Oaer, E. A. (SM)
Paddock, O. K. (SM)
Parker, S. E. (M)
Pernick, L. J. (M)
Perry, C. S. (SM)
Reedy, C. W. (M)
Robbins, P. M. (SM)
Robertson, O. F. (SM)
Romig, H. G. (SM)
Rosenberg, J. (M)
Sarkisian, H. H. (M)
Scheres, W. J. (M)
Smith, O. K. (M)
Snider, R. C. (M)
Spandau, E. P. (SM)
Speer, J. H., Jr. (M)
Steidley, J. W. (SM)
Symonds, R. J. (SM)
Trumpy, J. W. (A)
Tyson, O. A. (A)
Van Ackere, M. G. (A)
Walkup, L. A. (M)
Wennerberg, G. (SM)

Pacoima (LA-SF-7)
Anderson, R. E. (M)
Bassett, D. M. (M)
Bixson, L. L. (A)
Briggs, J. G. (M)
Brownstein, G. (SM)
Burnett, W. A. (M)
Choleva, H. L. (M)
Clintsman, R. B. (M)
Cowart, B. E. (M)
Deitz, J. L. (M)
Deyo, A. E. (A)
Dixon, T. P. (M)
Dunn, G. R. (M)
Emus, H. (A)
Fingerett, J. A. (M)
Franco, M. (M)
Griffith, C. D. (M)
Hawley, G. K. (M)
Holmes, R. B. (M)
Holt, D. E. (A)
Kendle, J. P. (M)
Krulish, R. G. (M)
Ladine, D. A. (M)
Link, W. F. (M)
Lobenberg, T. J. (A)
Mandel, M. (A)
Martin, D. L. (M)
Nelson, D. F. (A)
Neuron, E. (M)
Reaver, R. R. (M)
Reed, D. S. (SM)
Schmidt, D. V. (M)
Shovlowsky, M. (M)
Swarthout, W. M. (SM)
Turnbull, J. S., Jr. (M)
Weaks, K. C. (M)
Weiss, L. F. (A)
Zechiel, W. J. (M)

Palm City (SD-7)
Trenholm, K. S. (A)

Palmdale (LA-7)
Bennett, A. (A)
Evans, R. E. (M)
Hingson, G. D. (A)
Johnson, V. C. (A)
Kollar, T. J. (A)
McLarin, M. (M)
Mjelde, E. L. (A)
Sheldon, P. H. (M)
Turner, J. G. (A)

Palo Alto (SF-PA-7)
Abbott, W. R. (SM)
Abraham, W. G. (SM)
Adolph, A. R. (M)
Ahlgren, W. E. (M)
Albert, A. D. (M)
Allison, D. F. (M)
Andersen, C. V. (A)
Andersen, K. A. (M)
Anderson, V. R. (A)
Anderson, W. A. (A)
Andrews, R. E. (M)
Arnold, C. A. (M)
Arnold, D. T. (M)
Arnold, J. R. (M)
Austin, N. A. (M)
Ballieu, H. L. (M)
Barry, F. N. (VA)
Bartholomew, C. S. (M)
Batdorf, S. B. (SM)
Bates, J. F. (A)
Bauder, G. E. (A)
Bauer, B. (SM)
Beatie, R. N. (M)
Beaver, W. L. (M)
Beers, W. D. (A)
Bell, R. L. (M)
Bernier, L. E. (M)
Besag, E. T. (A)
Besag, P. L. (M)
Birdsall, C. K. (M)
Bodily, L. N. (M)
Bolljahn, J. T. (SM)
Bolton, W. E. (A)
Brandon, T. E. (M)
Britton, R. H., Jr. (M)
Broderick, D. L. (M)
Broner, M. A. (SM)
Brown, A. S. (F)
Brown, R. W. (M)
Brunn, J. (A)
Byerlay, H. L. (SM)
Byrne, G. C. (M)
Caffey, T. W. H. (M)
Campbell, W. E. (M)
Carlin, P. W. (A)
Carlson, A. R. (M)
Carnahan, C. W. (F)
Carter, M. B. (M)
Chan, W. W. (A)
Chao, S.-C. (M)
Chiang, F. C. (M)
Chown, J. B. (A)
Christensen, P. C. (A)
Clifford, D. G. (SM)
Cline, J. F. (SM)
Code, J. A. (SM)
Colburn, D. S. (A)
Colvin, R. S. (A)
Cone, D. I. (SM)
Coulter, H. N. (M)
Craig, R. A. (SM)
Crain, N. R. (A)
Crumly, C. B. (SM)
Cumming, R. C. (SM)
Cutler, L. S. (M)
Daniel, R. D. (A)
Daniels, E. (M)
Dell, H. R. (M)
Dere, D. J. (M)
Dixon, S. T. (A)
Dodds, W. (SM)
Dolphin, L. T., Jr. (M)
Doten, E. F. (M)
Downing, J. J. (M)
Duer, S. J. (M)
Duncan, C. E. (M)
Dunwoodie, D. E. (A)
Dwight, H. M., Jr. (M)
Eaton, A. W. (M)
Eaves, H. H. (SM)
Edson, W. A. (F)
Eisenberg, M. (A)
Eldon, C. A. (M)
Eldridge, D. F. (M)
Elspas, B. (M)
Engelbart, D. C. (M)
Engler, C. G. (M)
Falthorn, N. R. (M)
Falconer, R. (M)
Fank, F. B. (M)
Farley, W. W., III (SM)
Fawcett, R. G. (SM)
Fein, L. (SM)
Feinstein, L. (M)
Filmer, J. C. (M)
Fisher, G. (SM)
Fitzgerald, J. F. (A)
Fitzpatrick, J. P. (SM)
Floyd, W. B., Jr. (A)
Fong, A. (SM)
Forrer, M. P. (SM)
Foss, R. C. (A)
Foster, C. P., Jr. (SM)
Foy, R. H. (M)
Franke, R. T. (A)
Frater, G. D. (A)
Fuller, L. F. (F)
Fulton, F. F., Jr. (M)
Gado, L. G. (M)
Gang, R. E. (A)
Gerig, J. S. (A)
Gessert, E. C., Jr. (M)
Getsinger, W. J. (M)
Gielow, D. E. (M)
Gilden, M. (M)
Gillette, P. R. (SM)
Ginstling, A. (A)
Gleason, C. A. (A)
Goddard, E. G. (SM)
Gola, A. S. (A)
Goldfarb, E. M. (SM)
Goodman, D. H. (SM)
Graham, B. (SM)
Grande, V. J. (M)
Granger, J. V. N. (F)
Grass, J. W. (M)
Griese, R. H. (A)
Grinich, V. H. (M)
Guggi, W. B. (A)
Hagopian, R. H. (M)
Hamilton, R. H., Jr. (A)
Hand, B. P. (M)
Hans, W. J. (A)
Hansen, J. F. (M)
Harman, W. A. (M)
Harris, D. B. (F)
Hasin, H. (A)
Hauser, J. R. (A)
Heckinger, R. G., Jr. (M)
Heinzmann, F. C. (A)
Hemmila, A. (M)
Herold, H. L. (A)
Herr, J. R. (M)
Hewlett, W. R. (F)
Hightower, W. D. (M)
Hilbers, G. R. (A)
Hlavka, L. F. (M)
Hoerni, J. A. (M)
Holden, G. R. (M)
Holland, E. R. (M)
Horn, H. S. (SM)
Huffman, G. A. (M)
Hufford, G. (M)
Hunt, J. M. (SM)
Hunton, J. K. (SM)
Hurd, E. C. (M)
Hurst, S. R. (M)
Isberg, C. A. (M)
Isberg, R. A. (SM)
Janken, S. (A)
Jarvis, W. E. (A)
Jatras, S. J. (M)
Jaye, W. E. (M)
Jenkins, J. (SM)
Jensen, R. C. (M)
Jepsen, R. L. (SM)
Johnson, H. R. (SM)
Johnson, L. E. (A)
Johnson, R. B. (SM)
Johnson, R. R. (M)
Jones, C. B. (SM)
Jones, J. W. (A)
Kabell, J. (M)
Kane, J. F. (M)
Karabats, C. (M)
Keitel, G. H. (M)
Kirkwood, R. L. (M)
Knapp, S. L. (A)
Kortman, C. M. (SM)
Kovalevski, N. N. (M)
Krakauer, S. M. (A)
Krause, R. A. (SM)
Kromer, A. P. (SM)
Kruse, F. W., Jr. (M)
Kumagai, F. T. (A)
Kupllik, F. M. (M)
Laforge, L. H., Jr. (SM)
Langevin, R. Z. (M)
Last, J. T. (M)
Lathrop, R. J. (SM)
Lawrence, G. H. (M)
Leibfried, W. P. (M)
Leo, R. E. (M)
Leslie, J. M., Jr. (SM)
Levinthal, E. C. (SM)
Lewandowski, F. P. (M)
Lewis, P. L. (M)
Lin, C. M. (M)
Lincicome, D. C. (A)
Lindley, J. P. (A)
Lob, C. G. (M)
Logan, J. S. (M)
Lomax, J. B. (M)
Longmire, R. C. (M)
Loughry, D. C. (M)
MacGinitie, G. (A)
Magill, D. T. (M)
Mahurin, C. R. (SM)
Mannas, R. G. (A)
Marsh, C. J. (M)
Martin, D. W. (M)
Martini, R. F. (A)
Maudens, L. C. (M)
Mauldin, C. W. (A)
Mays, A. S. (A)
McCann, J. E. (M)
McKibbin, D. D. (M)
Meyer, B. W. (M)
Milazzo, C., Jr. (M)
Miller, R. E. (SM)
Miller, S. W. (M)
Moody, C. S. (M)
Morgan, E. C. (A)
Muller, M. W. (SM)
Murphy, R. T. (M)
Murphy, R. E., Jr. (A)
Nabours, R. E. (M)
Nalos, E. J. (SM)
Nelson, F. A. (M)
Nelson, R. B. (M)
Nickel, L. (M)
Nitz, I. C. (A)
Novick, G. (M)
Noyce, R. N. (M)
Nunan, C. S. (SM)
Ogle, H. M. (SM)
Oka, A. K. (M)
Oliver, B. M. (F)
Orsak, L. E. (M)
Ottem, I. E. (M)
Packard, D. (F)
Paivinen, J. O. (M)
Palmer, K. J. (M)
Palmer, W. F. (M)
Pearson, P. A. (M)
Pillsbury, A. F., Jr. (M)
Plotkin, S. C. (M)
Porter, N. E. (SM)
Poulter, H. C. (M)
Price, V. G. (M)
Prickett, R. J. (M)
Proctor, E. K., Jr. (SM)
Prommer, A. (A)
Pruitt, F. L. (A)
Putz, J. L. (M)
Rabe, A. W. (A)
Rasmussen, S. B. (A)
Ratner, M. (M)
Rawlins, R. E. (SM)
Razi, S. (M)
Reiche, L. P. (M)
Reyling, G. F. (M)
Reynolds, R. J. (A)
Rhodes, R. D. (A)
Ridenour, L. N., Jr. (F)
Riley, J. M. (A)
Riley, R. B. (M)
Roberts, L. A. (A)
Robinson, A. L. (SM)
Rogers, R. M. (M)
Roizen, J. (M)
Rolfe, J. J. (M)
Rooney, J. P. (M)
Rorden, L. H. (M)
Rorden, R. J. (M)
Rosenstein, M. D. (M)
Rosenthal, H. A. (A)
Ruder, D. J. (M)
Ruetz, J. A. (M)
Russell, E. B., Jr. (M)
Rust, D. C. (A)
Ryan, A. H. (SM)
Rynn, N. (SM)
Saint, R. C. (A)
St. Clair, M. W. (M)
Salisbury, W. W. (F)
Samuels, A. H. (M)
Sands, L. G. (SM)
Scal, R. K. F. (SM)
Scheuch, D. (SM)
Schreiner, R. J. (M)
Schreiner, R. W. (M)
Schubert, R. A. (M)
Schulz, R. F. (M)
Schumacher, F. M. (M)
Seaward, P. E. (M)
Serang, A. M. (M)
Shapiro, L. (A)
Shaw, H. J. (M)
Shaw, T. M. (SM)
Shear, H. (A)
Sherman, J. E. (M)
Sherrill, P. N. (A)
Shimizu, J. K. (M)
Sholes, A. E. (SM)
Sibley, C. E. (SM)
Siera, M. M. (A)
Simons, W. S. (A)
Singleton, R. C. (M)
Sklar, H. (M)
Smaus, L. H. (SM)
Smith, A. R. (M)
Smith, G. A. (SM)
Smith, K. E. (A)
Smith, S. R. (A)
Smith, S. L. (M)
Snyder, W. (M)
Sorenson, K. G. (A)
Sorg, L. F. (M)
Spangenberg, K. (F)
Sparks, H. (M)
Stachiewicz, B. R. (M)
Stanley, S. M. (M)
Stead, D. A. (M)
Stearns, H. M. (SM)
Steele, C. W. (M)
Stelter, E. C. (A)
Stevens, J. C. (A)
Storke, F. P., Jr. (A)
Strehlow, R. J. (M)
Stringer, L. W. (M)
Sullivan, J. W. (A)
Swain, J. R. (M)
Swanson, J. A. (M)
Tatum, J. G. (M)
Teeter, W. L. (SM)
Thormahlen, W. H. (M)
Tomiyasu, K. (SM)
Towle, R. W. (M)
Tucker, C., Jr. (A)
Turner, G. K. (M)
Turner, T. F. (M)
Ullman, P. J. (M)
Ura, F. (M)
Usim, W. (M)
Vanderbeek, H. B. (M)
Van de Riet, E. K. (A)
Vea, T. H. (A)
Villard, O. G., Jr. (F)
Vinson, E. D., Jr. (A)
Wagener, W. G. (SM)
Wahrhaftig, W. H. (M)
Waldman, M. D. (M)
Wallace, J. M., Jr. (M)
Walter, R. L. (SM)
Watson, R. H. (SM)
Watson, W. H. (M)
Webber, S. E. (SM)
Welles, S. B. (SM)
White, F. M., Jr. (M)
Whitson, A. L. (M)
Wielenga, L. J. (M)
Williams, R. R. (A)
Winkler, R. H. (M)
Wise, W. L. (M)
Wolfson, A. S. (M)
Wong, E. K. (M)
Wood, J. F. (A)
Wood, W. S. (M)
Vadavalli, S. V. (A)
Yocom, W. H. (M)
Zeidler, H. M. (M)
Zitelli, L. T. (M)

Palos Verdes Estates (LA-7)
Bobrow, E. N. (M)
Brewer, G. R. (SM)
Caldwell, J. J., Jr. (SM)
Chambers, J. T. (M)
Clement, A. J. F. (M)
Dazey, M. H. (SM)
Durrell, C. R. (M)
Dutton, O. B. (SM)
Eckdahl, D. E. (SM)
Flynt, F. V. (A)
Frady, W. E. (A)
Gleghorn, G. J. (M)
Hannum, D. E. (M)
Harris, M. R. (M)
Hayes, W. B. (M)
Hebenstreit, W. B. (SM)
Hughes, W. R. (SM)
Isley, C. T., Jr. (A)
Johnson, L. P. (SM)
Jonas, K. L. (M)
Krogh, R. A. (M)
Laverty, N. P. (M)
Leone, W. C. (A)
Mallinckrodt, C. O. (SM)
Marrison, W. A. (F)
Martin, W. R. (M)
McCoy, R. T. (SM)
McKenna, Q. C. (SM)
McLaughlin, G. (SM)
McRae, F. B. (M)
Meader, G. S. (SM)
Mitchell, E. (M)
Moore, H. E. (SM)
Muldoon, W. J. (SM)
Newberry, A. W. (A)
Owens, A. T. (SM)
Peterson, W. E. (SM)
Phister, M., Jr. (A)
Raffensperger, M. J. (SM)
Scarbrough, A. D. (M)
Shedd, J. L. (M)
Speer, W. S., (A)
Stevens, F., Jr. (SM)
Thorp, W. E. (SM)
Van Patten, W. D. (A)
Vittum, W. M. (M)
Wagenseil, W. (SM)
Walance, C. G. (SM)
Wieneke, J. R. (SM)
Williams, C. (M)

Panorama City (LA-SF-7)
Bennett, J. L. (M)
Berri, R. E. (A)
Flyr, J. G. (A)
Fritts, R. E. (A)
Gaul, T. W. (M)
Hawkins, W. R. (A)
Kleinschmitt, C. J. (A)
Loft, R. E. (M)
Makris, J. (M)
Rosenthal, W. F. (M)

Paramount (LA-SA-7)
Cahn, L. (SM)
Child, C. H. (SM)
Green, C. S. (A)
Hohenhaus, H. A. (M)
Ley, F. W. (A)
Pryga, S. A. (M)
Warn, K. L. (M)

Pasadena (LA-P-7)
Abbott, R. B. (A)
Adams, W. (M)
Adler, J. A. (A)
Ames, W. S. (A)
Arens, W. E. (M)
Ashby, R. M. (F)
Atwood, J. R. (M)
Bacon, R. N. (M)
Banta, R. P. (SM)
Barasch, M. V. (SM)
Barton, L. R. (M)
Beatty, C. G. (M)
Bemis, R. C. B. (A)
Benioff, H. (VA)
Bergovitz, N., Jr. (M)
Beuger, J. C. (M)
Blackman, W. S. (M)
Blatterman, H. L. (M)
Boensel, D. W. (M)
Bowman, J. Y. (M)
Bradburn, J. R. (SM)
Bradish, W. M. (A)
Bradley, W., Jr. (M)
Brockman, M. H. (SM)
Brown, D. E. (A)
Cady, W. G. (F)
Caldwell, P. G. (SM)
Carter, R. C. (A)
Cartwright, V. F. (M)
Chafin, R. L. (M)
Charpentier, D. E. (M)
Chase, N. C. (M)
Choate, R. L. (M)
Clement, W. G. (A)
Coffey, H. J. (A)
Cogan, S. (M)
Coker, F. B. (A)
Cowley, J. P. (M)
Crafts, C. A. (SM)
Cutting, E. (A)
David, J. R. (SM)
Davis, D. C. (M)
Delp, R. E. (A)
Dennison, P. R. (M)
Diemer, F. P. (M)
Dixon, W. J. (M)
Dow, D. G. (M)
Ellis, A. T. (A)
Erdman, D. C. (A)
Fithian, D. H. (M)
Fullerton, R. W. (SM)
Garber, L. F. (M)
Gates, C. R. (M)
George, N., Jr. (M)
Gerrie, A. L., Jr. (A)
Gilbertson, B. L. (M)
Gilchriest, C. E. (A)
Glaser, E. L. (M)
Goldsmith, P. (M)
Gong, H. (M)
Gordon, R. M. (M)
Gould, R. W. (M)
Gratton, R. E. (M)
Gregory, W. W., Jr. (A)
Grove, H. G. (A)
Hale, C. R. (M)
Hamilton, R. C. (M)
Harden, P. A. (M)
Hatchl, S. (A)
Hawn, L. R., Jr. (M)
Herber, J. C. (SM)
Heyser, R. C. (A)
Higa, W. H. (SM)
Hill, R. E. (M)
Hiraoka, F. A. (M)
Holden, W. H. T. (SM)
Hollis, W. C. (SM)
Homsy, J. A. (SM)
Hoskins, E. E. (SM)
Howes, E. T. (M)
Huth, W. R. (SM)

Ireland, F. (SM)
Jack, R. W. (A)
Jakubowski, G. C. (M)
Josias, C. S. (M)
Kaprielian, Z. A. (M)
Karsten, J. A. (M)
Kennedy, C. J. (SM)
Kiebert, M. V., Jr. (SM)
Knickrehm, A. F. (A)
Kowallis, O. K. (A)
Kreuz, W. E. (A)
Kroesa, K. D. (M)
Kuehn, R. L. (SM)
Kuniyuki, R. M. (M)
Kuta, G. (SM)
Langmuir, R. V. (M)
Larey, B. W. (A)
Lawrence, J. F., Jr. (SM)
Le Gette, M. A. (A)
Le Vay, T. C. (M)
Liang, M.-T. M. (M)
Linderman, O. E. (SM)
Lindley, P. L. (M)
Maass, C. F. (A)
Marshall, J. G. (A)
McCann, G. D. (SM)
McCool, J. M. (M)
Meldrum, M. A. (M)
Middlebrook, R. D. (SM)
Miller, G. J. (M)
Minnick, R. C. (A)
Moore, P. G. (A)
Moran, R. B., Jr. (SM)
Morison, R. (M)
Moseley, F. L. (F)
Motta, N. (A)
Mott, J. S. (M)
Mundt, E. (A)
Musty, C. V. (M)
Neff, G. A. (M)
Newhouse, G. B. (M)
Nicholson, W. Q. (M)
Nienstedt, D. A. (M)
Nothman, M. H. (M)
Nowack, R. W. (A)
Orr, R. A. (M)
Oshiro, F. K. (M)
Owen, R. P. (SM)
Parker, M. D. (A)
Pickering, W. H. (F)
Pomeroy, I. D. (A)
Prisbrey, D. (A)
Ranks, J. E. (M)
Rau, J. M., Jr. (M)
Rechtin, E. (SM)
Riddle, F. M. (M)
Rieth, H. F. (A)
Sandefur, K. L. (M)
Scharer, M. E. (M)
Schenkel, L. F. (M)
Sefton, W. E. (M)
Seigle, R. K. (M)
Shaffer, P. A., Jr. (M)
Shaw, R. A. (A)
Shultise, Q. M. (M)
Sidle, C. D. (M)
Silvertooth, E. W. (M)
Simmons, E., Jr. (M)
Slavin, M., III (A)
Smith, H. A. P. (M)
Stack, G. C. (M)
Steensgaard, C. P., Jr. (M)
Steuer, V. F. (M)
Stevens, R. (M)
Stevens, R. A. (A)
Stimpson, E. C., Jr. (A)
Stuart, J. L. (A)
Talmo, R. E. (M)
Taylor, T. T. (M)
Toukdarian, R. Z. (SM)
Vail, R. W. (M)
Vaughan, V. Z. (A)
Vernon, F. L., Jr. (M)
Wagner, D. W. (A)
Walker, F. R. (SM)
Waller, R. L. (A)
Watt, C. W., Jr. (SM)
Watts, E. W. (M)
Webb, E. E. (SM)
Wedel, J. J., Jr. (M)
Weigel, W. G. (SM)
Wertz, C. C. (M)
Wilson, G. P. (SM)
Wilson, M. C. (SM)
Wood, D. O. (M)
Wright, H. D. (SM)
Young, S. (M)
Zabusky, N. J. (A)
Zarem, A. M. (SM)
Zeman, J. A. (A)

Paso Robles (LA-SB-7)
Ramey, J. C. (A)

Patton (LA-OB-7)
Claunch, F. E. (M)

Pebble Beach (SF-7)
Menneken, C. E. (M)
Pfenning, R. A. (M)

Penryn (SAC-7)
Yoshizuka, R. K. (A)

Petaluma (SF-7)
Boutz, F. E. (M)
Ravenscroft, H. A. (M)

Pico (LA-SA-7)
Fuller, C. A. (A)
Riggs, P. F. (M)
Swanson, R. L. (M)

Piedmont (SF-EB-7)
Cole, C. H. (VA)
Criglar, J. J. (M)
Evans, C. P. (M)
Fliegner, A. F. (A)
Forster, A. G. (M)
Lasky, P. G. (M)
Mac Mahon, A. E. (SM)
Palmer, D. H. (A)

Playa Del Rey (LA-7)
Barhydt, H. (A)
Beckman, J. A. (SM)
Beveridge, J. M. (M)
Block, E. B. (A)
Block, J. M. (M)
Browne, J. D. (M)
Cook, L. J. (SM)
De Sio, A. W. (M)
Erickson, R. L. (A)
Fisher, M. K. (M)
Foster, T. J. (SM)
Hasin, S. L. (A)
Hayes, E. A. (SM)
Hesse, V. L. (M)
Horrell, M. W. (SM)
Johnson, R. P. (SM)
Markakis, M. J. (M)
McIntosh, D. (A)
McJunkin, F. C. (M)
Nuban, E. (M)
Redgrift, H. F. (M)
Royal, D. E. (A)
Ruch, D. E. (M)
Scheidewind, N. F. (A)
Shepard, W. (A)
Strom, R. L. (A)
Wagner, R. E. (M)
Williams, R. W. (M)
Woods, W. A. (M)
Zazulak, R. R. (M)

Pleasant Hill (SF-EB-7)
Davis, R. W. (M)
Nielsen, G. A. (M)
Nish, J. G. (M)
Roush, G. E. (SM)
Single, C. H. (A)
Skiff, E. W. (SM)
Trumbo, D. E. (A)
Voelker, F., III (SM)

Pleasanton (SF-EB-7)
Casterson, R. H. (M)
Curry, C. R. (M)
Helgeson, G. L. (M)
Herron, R. G. (M)
Speck, R. S. (M)
Strahl, G. E. (M)
Wharton, C. B. (M)

Point Arena (SF-7)
Samford, H. L. (A)

Point Mugu (LA-B-7)
Corvi, J. A. (M)
Fleming, F. L., Jr. (M)
Greene, W. E. (M)
Holmes, R. E. (M)
Murphy, C. H. S. (SM)
Reiff, G. A. (A)
Richardson, B. (M)

Point Reyes (SF-7)
Reid, I. H. (VA)

Pomona (LA-OB-7)
Allen, J. W. (SM)
Armbruster, K. L. (M)
Ashley, G. W., Jr. (M)
Bailey, N. A. (M)
Barnett, W. C. (M)
Bartel, J. N. (A)
Bell, B. G. (M)
Birch, R. S. (A)
Black, L. M. (A)
Blackwell, M. B. (M)
Bredon, A. D. (M)
Brewer, C. P. (SM)
Bryla, L. (M)
Burenko, O. (M)
Burnett, W. B. (A)
Callot, S. (A)
Cooper, R. G. (A)
Coulombe, R. A. (SM)
Craig, F. D. (SM)
Crisp, R. F. (SM)
Davis, O. R. (M)
Donnelly, R. W. (M)
Drake, W. A. (M)
Dunn, C. E. (A)
Edsinger, L. E. (M)
Eggeman, D. J. (M)
Ellis, G. M. (SM)
Elvan, M. (M)
Elzie, O. G. (M)
Froessel, C. H. (M)
Gastineau, L. (A)
Gatlin, B. R. (M)
Gill, D. A. (M)
Goff, L. O. (SM)
Gottler, R. L. (M)
Gross, F. A. (M)
Hanson, M. E. (M)
Harris, H. F. (A)
Hartke, D. H. (M)
Hasenbeck, H. W. (SM)
Heffner, E. K. (A)
Hindi, M. (M)
Hino, R. H. (A)
Horne, C. F., Jr. (F)
Hurley, R. F. (A)
Jackson, J. C. (A)
Karish, J. A. (M)
Kellar, W. J. (M)
Kidd, R. A. (A)
Kimura, A. M. (M)
Kirk, C. N. (M)
Knight, J. D. (M)
Lee, H. J. (A)
Low, R. G. (M)
Madsen, C. A. (A)
Magnenat, R. A. (M)
Marino, L. A., Jr. (A)
Marshall, R. R. (M)
Matheson, G. R. (M)
Maudal, I. (M)
Mays, C. H. (A)
McLachlan, G. W., Sr. (M)
Montcalm, M. T. (A)
Morell, C. S. (M)
O'Brien, J. C. (SM)
Ogilvie, W. E. (A)
Omiya, R. Y. (M)
Patterson, T. C. (SM)
Pemberton, T. (M)
Pizzuti, A. D. (A)
Ranish, H. (M)
Raybin, M. W. (SM)
Rea, D. E. (A)
Reaser, L. L. (SM)
Reeves, J. T. (A)
Schapiro, R. (A)
Sell, W. B. (SM)
Shimada, G. (M)
Smedley, D. B. (M)
Smith, C. R., Jr. (M)
Smith, L. B. (M)
Smith, R. D. (M)
Sprague, D. L. (A)
Squires, D. C. (A)
Sticht, R. J. (A)
Stone, R. E. (M)
Sutton, A. A., Jr. (M)
Tampico, J. (SM)
Taylor, C. A., Jr. (M)
Thacker, C. L. (M)
Thompson, R. J. (M)
Thorpe, R. W. (SM)
Titcomb, E. M., Jr. (M)
Tomita, H. H. (M)
Turner, W. L. (M)
Van Deventer, J. A. (M)
Villere, A. C. (SM)
Walters, R. L. (M)
Ward, W. S. (M)
Watkins, E. L. (SM)
Wells, G. H. (M)
Wellsand, R., Jr. (A)
Wessels, P. S. (SM)
Wickstrom, O. A. (A)
Zeller, H. R. (M)

Porterville (SF-7)
Margot, A. T. (M)
Poundstone, J. R. (A)

Portola Valley (SF-PA-7)
Battelle, R. B. (A)
Burke, R. J. (SM)
Coale, F. S. (A)
Davies, L. E. (SM)
Dawson, P. F. (M)
Hancock, N. (M)
Larkin, K. T. (SM)
Swanson, J. P. (A)
Ter Veen, L. A. G. (SM)

Poway (SD-7)
Brunt, N. F. (M)
Grindle, C. E. (SM)

Puente (LA-OB-7)
Allison, R. E. (SM)
Berkley, W. H. (A)
Davis, C. W. (M)
Gilliam, T. J. (M)
McMahon, J. E. (M)
Poirier, G. R. (A)
Pulsipher, L. C. (M)
Ramirez, M. (A)
Thomas, J. B. (M)
Yamashiro, J. M. (A)

Quartz Hill (LA-7)
Sutherland, L. C. (A)

Ramona (SD-7)
Brown, A. F. (A)
Schanke, F. E. (M)

Rancho Cordova (SAC-7)
North, N. B. (M)
Saltsburg, S. S. (M)

Rancho Santa Fe (SD-7)
Gardner, B. R. (SM)
Haflinger, D. J. (M)
Herbert, W. J. (M)

Red Bluff (SAC-7)
Boer, P. E. (A)

Redding (SAC-7)
Aitken, R. (M)
Banks, D. B. (A)
Bechtle, C. G. (M)
Hoeflich, A. F. (SM)
Machin, E. K. (A)
Maxey, G. S. (M)
Olsen, L. F. (A)

Redlands (LA-OB-7)
Herman, J. B. (A)
Olcovich, T. A. (A)

Redondo Beach (LA-7)
Ake, T. E. (M)
Albright, A. R. G. (M)
Amdahl, L. D. (A)
Baker, J. N. (A)
Barrar, R. B. (M)
Birkenhead, W. (M)
Brown, K. H. (M)
Burton, J. R. (M)
Cohee, A. V. (A)
Covington, A. W. (M)
Dahl, E. E. (M)
Davis, C. H. (M)
Ellis, T. O. (M)
Emmerich, L. (M)
Evans, N. T. (M)
Fiet, O. (SM)
Fontana, J. A. (M)
Gaston, R. N. (A)
Gibbs, F. R. (M)
Griffin, E. F. (A)
Howard, S. L. (A)
Jolley, N. A. (SM)
King, G. J. (A)
Ladd, A. W. (M)
Lindberg, H. E. (M)
Lytle, A. C., Jr. (SM)
McClellan, L. D. (M)
Owens, W. W. (A)
Paulos, P. J. (M)
Pearce, C. R. (A)
Pruden, H. K. (M)
Reddicks, J. E. (M)
Russell, B. J. (M)
St. John, J. L. (A)
Snyder, W. A. (SM)
Steiger, W. (M)
Steinhoff, H. W., Jr. (M)
Tucker, R. E. (M)
Weir, K. O. (M)
Williams, F. R. (A)
Wolverton, R. W. (M)

Redwood City (SF-PA-7)
Alff, W. H., Jr. (M)
Amara, R. C. (A)
Bannick, R. E. (M)
Barkley, J. W., Jr. (A)
Berry, B. H. (A)
Black, G. (A)
Bloom, G. (A)
Boboricken, S. (A)
Bowes, J. D. (M)
Bradford, C. W. (M)
Campbell, J. K. (A)
Cerruti, B. A. (M)
Christensen, W. H. (M)
Christie, J. W. (A)
Conti, E. A. (M)
Coveil, D. F. (M)
Data, C. D. (M)
Davies, R. S. (SM)
Delling, H. W. (M)
Elfving, C. T. (A)
Ellis, I. M. (M)
Eshleman, V. R. (SM)
Farinon, W. B. (SM)
Firschein, O. (A)
Fleming, H. B. (M)
Freise, W. H. (A)
Gerling, J. E. (M)
Gulick, E. C. (SM)
Hamilton, D. J. (A)
Hayes, A. E., Jr. (SM)
Hill, L. E. (M)
Holtmann, E. H. (A)
Ice, G. E. (M)
Kazanjian, H. A. (A)
Klein, A. L. (M)
Lacy, P. D. (SM)
Leslie, F. E. (SM)
Linden, D. A. (A)
Luebke, W. R. (SM)
McAlpine, W. N. (M)
Merk, R. V. R. (A)
Morris, A. J. (SM)
Murphy, H. E. (M)
Nelson, E. A. (M)
Nye, W. H. (M)
Patterson, G. K. (SM)
Phillips, R. M. (A)
Phillips, R. R. (M)
Plotnikoff, G. P. (M)
Redeker, R. G. (M)
Reed, D. E. (M)
Renton, W. L. (M)
Riddell, A. I. (A)
Rolly, W. J. (A)
Romander, H. (SM)
Rudee, E. (A)
Schmidt, R. C. (SM)
Selsted, W. T. (SM)
Short, R. A. (M)
Silverstein, P. K. (A)
Smaha, N. F. (A)
Sorenson, L. E. (M)
Stahl, R. J. (M)
Stallman, H. E. (M)
Stephenson, J. M. (M)
Stewart, J. A. (M)
Stoddard, D. J., Jr. (M)
Sweet, H. G., Jr. (A)
Tanner, W. O., Jr. (M)
Thompson, R. E. (M)
Tipping, C. C., Jr. (M)
Valles, B. V. (M)
Walter, C. A., Jr. (M)
Wattenbarger, J. W. (M)
Wernli, J. M. (M)
Westcott, J. P. (SM)
Wilder, T. W., III (M)
Wilson, L. H. (A)
Woldow, A. F. (A)
Wood, J. R. (M)

Reseda (LA-SF-7)
Berger, J. B. (M)
Bowling, J. S. (M)
Briel, L. A. (A)
Chaiken, L. (M)
Colander, R. E. (SM)
Cole, E. J. (A)
Countis, T. J. (SM)
Elberger, M. (A)
Frank, C. E. (A)
Freedman, L. M. (A)
Garland, M. D., Jr. (M)
Goulet, T. A. (M)
Green, R. D. (M)
Harlan, R. E. (M)
Held, H. (M)
Hughes, R. A. (M)
Lane, W. L. (M)
Lavine, R. (M)
Mackey, R. C. (M)
Means, P. S. (M)
Milwitt, W. (SM)
Mock, R. E. (M)
Mumma, J. W. (M)
Murray, R. W., Jr. (M)
Oltman, H. G., Jr. (SM)
Pedersen, F. C. (M)
Pedigo, W. R. (M)
Peterson, J. A. (A)
Plank, C. (M)
Politi, E. Y. (M)
Politis, S. (A)
Rader, D. F. (M)
Saltzman, H. (M)
Schuster, N. J. (M)
Schy, S. (A)
Scott, R. C. (SM)
Seferian, R. K. (M)
Sundberg, R. A. (M)
Thaler, S. (A)
Underberger, G. M. (M)
Wessel, H. J. (A)
Wills, J. D. (M)
Wood, J. R. (M)

Rialto (LA-OB-7)
Cool, P. E. (M)

Richmond, (SF-EB-7)
Chisholm, H. C. (A)
Enzler, A. J. (M)
Hamilton, E. P. (A)
Hansen, H. W., Jr. (M)
Hom, N. P. (A)
Jensen, R. H. (A)
Larsh, A. E., Jr. (M)
Lovell, E. L. (A)
Marx, A. F. (M)
Nelson, O. A. (A)
Schrader, G. F. (M)
Smith, H. L. (A)
Stovall, H. E. (M)
Thomason, T. H. (A)

Ridgecrest (CL-7)
Breunig, K. H. (M)
Burkey, C. E., Jr. (M)
Crawforth, J. E. (M)
Dolce, S. L. (M)
Fowler, T. C. (M)
Hill, C. V. (A)
Kasper, D. P. (A)
Larsen, C. L. (A)
Schnur, S. T. (A)
Thomas, D. W. (A)
Tkachuk, J. J. (M)

Rivera (LA-SA-7)
Babcock, R. L. (A)
Bream, H. C. (SM)
Crosby, J. (M)
Cunningham, O. J. (M)
James, B. B. (A)
Jones, K. E. (A)
Linebarger, P. J. (A)
Molander, A. B. (A)
Samp, T. A. (M)
Schmidt, J. N. (M)
Witt, A. N. (M)

Riverside (LA-OB-7)
Atchison, F. S. (SM)
Bauer, R. L. (A)
Berns, K. L. (A)
Blasjo, M. H. (M)
Blutman, E. (SM)
Borunda, G. S. (M)
Bradley, J. (M)
Brown, L. E. (SM)
Brown, N. H. (M)
Buchanan, W. D. (SM)
Buchfeller, J. E. (A)
Button, W. E. (M)
Byrne, J. F. (F)
Casey, S. D. (A)
Christensen, L. E. (M)
Davis, W. B. (M)
De Marco, R. J. (A)
Dick, J. O. (M)
Eto, H. S. (M)
Feeney, J. E. (M)
Fletcher, R. C. (A)
Frederiksen, T. M. (M)
Friedmann, E. (M)
Garrison, G. W. (M)
Gilpin, A. B. (A)
Grycko, S. R. (SM)
Hajic, E. J. (M)
Heberling, E. D. (SM)
Hughes, M. W. (M)
Jackson, T. B. (SM)
Jacobs, J., Jr. (M)
Johns, R. R. (SM)
Kelley, S. B. (M)
Kelsey, E. L. (A)
Kinzer, G. E. (M)
Kipp, S. G. (M)
Knoob, G. B. (SM)
Kopulsky, S. (M)
Krilanovich, N. J. (A)
Lepoff, J. H. (SM)
Lindberg, A. C. (M)
Lindholm, C. R. (M)
Lundquist, C. R. (SM)
Macadam, J. F. (M)
McClinton, D. F. (M)
Mitchell, J. R. (A)
Morehouse, G. D. (SM)
Osinski, W. M. (A)
Pawley, M. G. (SM)
Powers, A. B. (SM)
Rowe, D. E. (SM)
Seeley, E. W. (A)
Smith, R. P. (SM)
Van Vorhis, J. L. (A)
Verano, F. (A)
Waggoner, G. J. (A)
Waltner, C., Jr. (M)
Weiss, J. G. (M)
Wells, R. E. (M)
Whalen, P. K. (A)

Rolling Hills (LA-7)
Anderson, M. J. (M)
Angel, A. M. (M)
Ankerstar, R. H. (M)
Ball, K. E. (SM)
Bond, F. E. (SM)
Chambers, G. R. (M)
Clark, A. R. (A)
Conklin, D. E. (A)
Cummins, J. W. (SM)
Edwards, R. F. (M)
Emerson, M. R. (A)
Engel, H. L. (A)
Geduld, A. (M)
Gilkison, C. A. (M)
Gillies, M. A. (M)
Hall, C. A. (A)
Hogan, J. D. (A)
Hubbard, J. W. (A)
Humfeld, J. B. (SM)
Jackson, B. B. (M)
Kaufman, L. (M)
Kazarian, D. G. (M)
King, W. J. (A)
Klinge, W. H. (M)
Kluehe, W. (M)
Koehler, F. H. (M)
McMahon, G. V. (M)
McMahon, M. E. (M)
McPherson, R. G. (A)
Mellott, R. N. (M)
Meyer, H. F. (SM)

Moore, P. H. (M)
Nilsson, B. G. (M)
Olson, E. R. (M)
Riggs, D. D. (SM)
Sacks, J. M. (M)
Steffen, G. P. (M)
Stephan, P. W. (A)
Stone, M. M. (A)
Swanson, W. V. (M)
Wannlund, A. L., Jr. (M)
West, G. P. (A)
Zaremba, J. G. (M)

Rolling Hills Estates (LA-7)
McClintock, D. G. (M)

Rosamond (CL-7)
Kibler, L. S. (M)
Orrick, T. W. (M)

Rosemead (LA-P-7)
Ferl, R. H. (A)

Roseville (SAC-7)
Hunzeker, W. R. (M)

Running Springs (LA-OB-7)
Sutton, O. D., Jr. (M)

Sacramento (SAC-7)
Bairos, C. A. (M)
Baldwin, W. A. (A)
Bennett, R. C. (M)
Berger, E. W. (SM)
Bourget, L. (M)
Breuer, H. J. (M)
Broderson, L. V. (A)
Bril, D. H. (M)
Camerzell, P. L. (M)
Cook, G. V. (A)
Corrigan, B. G. (M)
Croker, K. S. (M)
Dickinson, I. E. (M)
Ellis, J. A. (A)
Feller, A. S., Jr. (A)
Friedlander, S. (A)
Fukuda, S. I. (M)
Ganowsky, W. B. (M)
Garcia, L. W., Jr. (M)
Glum, D. E. (A)
Godfrey, X. W. (M)
Guest, W. T. (SM)
Hartman, W. H. (M)
Hill, W. C. (SM)
Honda, J. S. (M)
Karpisek, W. J. (M)
Kibbey, M. B. (A)
Klinke, E. R. (M)
Koch, W. F. (M)
Kowalczyk, J. R. (M)
Leecing, R. W. (A)
Liviakis, G. J. (M)
McKeehan, M. B. (M)
McKinnon, R. J. (A)
Monuki, A. T. (M)
Naschke, E. S. (M)
Nielson, R. W. (M)
Oates, T. L. (M)
Onnigian, P. K. (SM)
Poucher, R. A., Jr. (M)
Pound, A. W. (M)
Quackenbush, H. H. (M)
Rhode, A. O. (M)
Rice, W. A., Jr. (M)
Roberts, E. A., Jr. (A)
Rockey, G. H. (SM)
Schrader, F. S. (M)
Scotch, C. (A)
Shapiro, H. L. (M)
Shineda, K. (M)
Sirbola, G. (M)
Slater, H. C. (M)
Smart, M. E. (SM)
Spadoni, A. F. (A)
Sronce, G. S. (M)
Spracklen, R. K. (A)
Starzec, J. S. (A)
Thompson, R. L. (M)
Tiedeman, C. R. (M)
Watson, H. (A)
Williams, H. T. (M)
Wilson, L. I. (A)
Zander, C. E. (A)

St. Helena (SF-7)
Swearingen, R. L. (M)

Salinas (SF-7)
Horton, J. A. (M)
Johnson, R. M., Jr. (A)
Shepherd, M. J. (M)
Wright, O. N. (A)

San Anselmo (SF-7)
Berryhill, J. L. (M)
Kaufman, J. (SM)
Kimbell, G. D. (A)
Oberg, V. H. (A)

San Bernardino (LA-OB-7)
Brazeal, R. H., Jr. (M)
Carson, E. L. (M)
Dyrr, E. H. (M)
Ewing, G. W. (M)
Featherstone, S. J. (M)
Huddleston, J. C. (M)
Joe, R. H. (M)
Scott, N. O. (A)
Steve, W. T. (M)

San Bruno (SF-7)
Baker, B. J. (A)
Fuller, H. H. (A)
Hawkins, E. R. (M)
Kavanaugh, J. C. (M)
Lee, T. G. (A)
McDade, J. J., Jr. (A)
Mizuhara, A. (M)
Morwood, R. C. (M)
Preist, D. H. (M)
Struven, W. C. (M)
Woodward, W. J. (A)

San Carlos (SF-PA-7)
Acuna, S. P. I. (M)
Aldous, C. N. (M)
Armstrong, P. S. (A)
Breymayer, K. E. (SM)
Chellstorp, T. S. (M)
Cool, L. R. (M)
Culbertson, A. F. (SM)
Cummings, K. M. (SM)
Cushing, T. D. (M)
Dodd, C. (SM)
Doyka, S. F. (M)
Dumas, K. L. (M)
Fastenau, F. H., Jr. (M)
Fisher, W. C. (SM)
Geller, W. (M)
Gillen, D. A. (M)
Graves, H. F. (SM)
Greene, H. A., Jr. (SM)
Groberg, L. R. (M)
Harper, J. W. (M)
Hesselgrave, D. H. (SM)
Hoch, O. L. (M)
Hull, J. F. (M)
Ingersoll, J. C. (M)
Johnson, J. B. (A)
Johnson, L. B. (SM)
Jolly, J. A. (SM)
Joseph, W. F. (M)
Kahrmann, H. C., Jr. (M)
Kaisel, S. F. (SM)
Kestell, D. L. (M)
Kiessling, R. C. (M)
Kuhn, H. G. (SM)
Lewenstein, H. J. (M)
Lichtenstein, M. I. (M)
Lohr, D. (M)
Maltzer, I. (SM)
Miller, K. E. (M)
Miller, R. J. (M)
Mueller, M. T. (M)
Naugle, J. B., Jr. (M)
Oseas, J. (M)
Palthe, R. W. (M)
Patton, P. B. (SM)
Peirce, J. A. (M)
Robbins, C. M., Sr. (SM)
Ross, A. T. (M)
Royalty, M. C. (M)
Rudisuhle, E. J. (M)
Salihi, J. T. (M)
Savarin, A. (M)
Seymour, A. M. (SM)
Thompson, K. L. (M)
Weber, J. H. (SM)
Winenow, R. E. (M)

San Clemente (LA-SA-7)
Casad, T. A. (A)

San Diego (SD-7)
Abbey, K. (SM)
Abel, C. F. (A)
Adams, W. H. (SM)
Agbulos, E. C. (A)
Albert, S. L. (A)
Albin, A. L. (SM)
Altman, D. E. (M)
Anders, J. R. (M)
Anderson, D. L. (M)
Anderson, J. S. (M)
Anderson, V. C. (SM)
Anthony, D. J. (M)
Arnett, W. (SM)
Austin, R. W. (M)
Babbitz, H. B. (M)
Bachman, C. R. (M)
Bailey, D. G. (M)
Bailey, R. E. (M)
Ball, N. E. (M)
Bange, E. E. (M)
Barber, G. D. (A)
Barley, C. E. (A)
Barnard, J. C. (M)
Barnes, H. R. (A)
Bauer, J. A. (M)
Beaulieu, J. P. (A)
Bell, D. A. (M)
Bell. E. (M)
Benafel, R. C. (M)
Bennett, V. M. (M)
Bergant, G. G. (M)
Biering, A. H. (M)
Birkett, B. T. (M)
Bishop, D. E. (M)
Bjornson, W. G., Sr. (SM)
Bloshies, F. H. (M)
Bonham, J. F. (A)
Boscia, A. F. (SM)
Bowers, J. L. (SM)
Bowers, R. W. (VA)
Brackett, R. T. (M)
Bradford, W. R. (M)
Braun, S. (A)
Breeze, J. R. (M)
Briggs, R. W., II (A)
Brokaw, H. R. (M)
Broome, P. W., Jr. (M)
Bunce, D. S. (A)
Burbank, C. J. (SM)
Burgi, C. E. (M)
Burke, A. T. (SM)
Burnett, W. L. (M)
Burruano, S. J. (SM)
Buskirk, J. F. (M)
Byrnes, F. X. (M)
Campbell, A. F. (A)
Campbell, C. C. (M)
Campbell, R. (M)
Campbell, W. D. (M)
Caporaletti, G. A. (M)
Carlson, E. W. (M)
Carson, A. C. (M)
Caspers, J. W. (M)
Cawley, J. H., Jr. (A)
Celto, J. E. (M)
Chadwick, R. F. (A)
Chang, G. M. (M)
Chasinowitz, G. (M)
Chatelain, M. G. (M)
Cheney, A. G. (A)
Cherry, W. R., Jr. (M)
Christensen, M. M. (SM)
Christensen, R. J. (SM)
Clack, H. W. (A)
Clare, E. T. (SM)
Clark, E. N. (A)
Clarke, A. G. (A)
Clarke, G. W. (M)
Coates, J. R. (M)
Coleman, G. M. (M)
Comstock, R. L. (M)
Cook, M. (M)
Corkhill, J. M. (A)
Cox, T. M. E. (A)
Cram, C. C. (M)
Creel, J. W. (A)
Creutz, E. C. (SM)
Crispell, H. L. (SM)
Crocker, W. F. (A)
Crotinger, R. M. (M)
Curl, G. H. (M)
Cyr, K. C. H. (M)
Daly, W. A. (A)
Dameson, L. G., Jr. (M)
Davis, J. T. (M)
Day, J. P. (M)
Deavenport, J. E. (M)
Decker, D. D. (M)
Decker, J. L. (A)
De Hass, D. G. (M)
Delicath, R. C. (M)
Dellinger, K. A. (A)
Denny, F. J. (M)
Derenthal, R. J. (A)
Dershem, E. R. (M)
Dershew, E. R. (M)
Detwiler, J. R. (M)
Diamond, M. (A)
Dickstein, H. D. (SM)
Dobyne, J. C., Jr. (A)
Dodd, G. M. (M)
Doig, J. H. (VA)
Donahue, J. (M)
Dowell, R. J. (M)
Drake, J. C. (M)
Drayner, A. H. (SM)
Driskell, R. O. (M)
Duggan, J. R. (SM)
Dyess, C. H. (A)
Ehrlich, C. I. (M)
Ely, M. D. (A)
Evans, A. R. (A)
Evans, D. S. (M)
Evans, R. E. (A)
Evans, W. O. (A)
Evey, R. R. (M)
Farmer, A. A., Jr. (A)
Farrar, J. H. (M)
Fay, W. J. (M)
Fenn, R. W. (M)
Finch, J. W. (SM)
Fiske, P. E. (SM)
Flarity, W. H. (M)
Focke, A. B. (SM)
Fogel, I. J. (SM)
Fouch, J. W. (A)
Franklin, W. S. (M)
Frech, R. A. (M)
Freres, C. H. (M)
Frost, J. W. (M)
Fuhrer, D. L. (M)
Gadbois, R. D. (M)
Garcia, G. E. (A)
Geren, K. E. (M)
Gillette, A. J., Jr. (A)
Goddard, W. R., Jr. (M)
Gordon, R. A. (M)
Gottwald, C. H. (M)
Granger, H. (SM)
Greeley, A. C. (M)
Greenspan, L. E. (M)
Greenstein, J. L. (A)
Gross, T. W. (M)
Grygar, R. A. (M)
Hallman, A. B. (M)
Halonen, C. A. (A)
Hamilton, E. A. (M)
Hansen, H. J., Jr. (A)
Hansen, P. G. (M)
Hansen, W. C. (A)
Harley, J. M. (SM)
Harris, J. L. (M)
Harris, L. G. (M)
Harrison, J. F. (M)
Hartin, W. J. (A)
Hatch, A. R. (M)
Hatcher, C. M. (A)
Hatchett, S. E. (SM)
Hauser, J. H. (M)
Hayes, J. C. (SM)
Hayth, W. D. (A)
Hedlund, K. W. (M)
Heritage, D. P. (M)
Heritage, J. L. (M)
Herman, J. J. (M)
Hernandez, E. R. (M)
Herz, E. (M)
Hicks, C. N. (A)
Hicks, P. A. (M)
Hodges, P. (M)
Hodgson, V. R. (A)
Hoerl, B. H. (M)
Holcomb, D. E., Jr. (A)
Honer, R. E. (SM)
Hood, I. A. (M)
Hopkins, R. U. F. (M)
Hornsby, J., Jr. (M)
Hose, E. (M)
Hughes, L. R. (M)
Ingram, C. J. (M)
Ivans, W. S., Jr. (SM)
Jackson, F. D. (M)
Jallu, F. M. (M)
Johnson, J. F. (M)
Johnston, D. L. (A)
Jones, H. G. (M)
Jones, K. N. (M)
Jones, L. K., Jr. (M)
Justice, R. (A)
Kafitz, P. H. (M)
Kalbfell, D. C. (SM)
Karcher, E. R. (SM)
Karel, L. G. (M)
Kasai, K. (A)
Kaswen, M. (A)
Keener, M. A. (A)
Keith, I. W. (M)
Kerr, H. C., Jr. (A)
Kestler, G. (M)
Kikushima, C. S. (M)
Kilpatrick, D. D. (M)
Kilpinen, R. M. (M)
Kimball, J. L. (A)
King, L. E. (SM)
Klimberg, J. (A)
Kluck, J. H. (M)
Knox, R. M. (M)
Kowalewski, J. C. (A)
Kozloff, V. S. (M)
La Gue, T. L. (M)
Laiuppa, A. S. (M)
Lakins, B. B. (A)
La Motte, K. E. (M)
Lay, P. D. (M)
La Zelle, L. L. (M)
Lee, R. G. (M)
Lee, W. L. (M)
Leffler, R. (M)
Leger, R. M. (SM)
Lessem, M. (M)
Levy, E. S. (A)
Linsey, G. D. (M)
Lodge, C. R. (M)
Loeb, M. (M)
Logue, S. H. (M)
Long, J. V. (M)
Longchamp, W. F. (M)
Luebben, R. G. (M)
Mainland, R. (M)
Makinson, H. O. (M)
Manning, C. S. (SM)
Martin, F. C., Jr. (M)
Martin, G. E. (SM)
Martinez, M., Jr. (M)
Massengale, W. B. (A)
Mathis, W. H. (M)
Matzhmer, J. M. (A)
McAllister, J. A. (SM)
McCue, D. E. (A)
McDaniel, G. A. (A)
McFadden, E. R. (M)
McGehee, C. R. (M)
McKnight, C. L. (A)
McLaughlin, R. G. (A)
McManus, R. P. (M)
McNaney, J. T. (SM)
Mealey, G. J. (A)
Meckfessel, E. F. (A)
Medved, D. B. (SM)
Mehner, E. C. (A)
Merrill, J. E., Jr. (M)
Michels, P. J. (A)
Miller, C. N. (M)
Millican, F. M. (M)
Mills, W. N. (M)
Moe, C. R. (SM)
Moffatt, V. J. (M)
Molnar, S. (A)
Montalvo, E. (M)
Moody, W. R. (M)
Moore, E. J. (M)
Morris, G. A. (A)
Moser, J. L. (M)
Mott, M. H. (M)
Mulvey, J. X., Jr. (A)
Murray, J. H. (M)
Nakamura, C. M. (M)
Newgent, W. L. (M)
Nichols, B. B. (M)
Nizyborski, E. S. (M)
Norris, B. J. (M)
Norton, H. N. (M)
Novak, E. K. (M)
Noyes, A. E. (A)
Nuese, C. (M)
Ogram, R. L. (M)
Olds, O. S. (M)
Oliver, G. W. (M)
Omiya, C. I. (M)
Ong, A. M. (A)
Onstad, R. C. (M)
Orange, E. S. (M)
Osborn, N., III (M)
Ozaki, G. K. (A)
Pagels, W. (A)
Paine, S. T. (M)
Parisa, S. G. (A)
Parker, A. B. (M)
Parker, B. E. (SM)
Parker, R. O. (M)
Pass, J. H. (M)
Peek, G. E. (A)
Peterson, R. M. (M)
Pfender, W. H., Jr. (M)
Phillips, C. E. (M)
Phillips, E. T. (M)
Photinos, H. R. (M)
Pine, T. G. (M)
Pitts, K. J. (M)
Poe, C. M. (A)
Pokorny, F. A. (M)
Pollard, W. A. (A)
Porter, J. B. (M)
Powell, D. S. (SM)
Prager, R. H. (M)
Prather, A. W. (M)
Prim, D. C. (SM)
Proctor, D. (M)
Quigg, K. R. (M)
Rakita, B. E. (A)
Rathbone, R. R. (A)
Ratkevich, A. E. (A)
Ratte, J. P. G. (A)
Ravey, D. L. (M)
Rayburn, D. A. (A)
Read, L. C. (SM)
Redelings, J. T. (M)
Reel, L. S. (A)
Reid, J. H. (SM)
Reynolds, Z. D. (M)
Rhamy, J. D. (A)
Rice, G. D. (SM)
Richman, R. L. (M)
Robichaud, R. H. (M)
Robinson, E. B. (SM)
Rogers, S. (SM)
Root, D. E. (M)
Roshon, A. H. (M)
Ross, C. W. (M)
Saari, E. S. (A)
Sadler, E. J. (M)
Sahfran, L. (A)
Sarnaw, W. J. (M)
Sattro, R. L., Sr. (SM)
Sauer, W. F. (A)
Scarborough, C. S. (A)
Scarborough, R. C. (A)
Schaefer, J. V. V. (A)
Schmidt, L. C. (M)
Schneebeck, D. A. (M)
Schroeder, R. R. (A)
Schweizer, E. G. (M)
Schwidetzky, W. H. (M)
Scott, J. E., Jr. (M)
Sessions, S. H. (M)
Shaw, L. L., Jr. (M)
Shear, H. J., Jr. (M)
Shechet, M. L. (A)
Sherertz, P. C. (M)
Siegel, W. (M)
Silberman, R. T. (M)
Simmons, J. M., Jr. (M)
Sinnott, F. T. (M)
Skillman, B. D. (M)
Skolil, L. L. (SM)
Slagle, W. C. (M)
Small, B. I. (M)
Smyth, J. B. (F)
Snyder, D. R. (M)
Soltesz, E. S. (M)
Somes, G. W. (A)
Spilliane, T. F. (A)
Spilmer, B. H. (M)
Squibb, W. F. (M)
Stalcup, T. L. (M)
Staroste, O. (A)
Steelman, R. J. (M)
Steiff, D. L. (A)
Steppler, R. V. (M)
Stewart, W. A. (M)
Stoeckert, E. D. (M)
Stone, K. A. (A)
Story, H. O. (M)
Stover, E. R. (A)
Stratton, L. N., III (M)
Strobach, F. (M)
Sunlin, W. M. (M)
Swann, E. S. (M)
Tabler, J. G. (SM)
Tamura, Y. (A)
Taylor, H. M. (A)
Thaanum O. (M)
Thatcher, E. W. (SM)
Thiel, W. H. (M)
Thomas, H. A. (SM)
Thomas, J. J. (SM)
Thompson, W. J. (SM)
Tibballs, L. (VA)
Tichenor, W. B. (M)
Tidwell, G. L. (M)
Tirrell, C. W. (M)
Tracy, H. H., Jr. (M)
Trader, J. E. (A)
Tricoles, G. P. (M)
Trogdon, W. H. (A)
Turnage, R. E., Jr. (M)
Tyer, A. A. (M)
Uhler, M. H. (M)
Underhill, J. T. (SM)
Undesser, K. (SM)
Van Caster, J. C. (M)
Van Horn, I. H. (M)
Van Meter, E. E. (A)
Varson, W. P. (A)
Velasco, J. W. (M)
Vette, W. J. (M)
Viles, F. L. (M)
Vinnell, L. F. (M)
Voell, R. F. (M)
Volberg, H. W. (M)
Von Peccoz, S.G.W. B. (M)
Waddell, B. L. (A)
Wade, E. (SM)
Wade, O. (M)
Ward, D. M. (M)
Warzecha, T. D. (M)
Watson, L. E. (A)
Watt, R. E. (M)
Wedgwood, P. E. (M)
Weisbrod, S. (M)
Wells, A. T. (A)
Wells, R. J. (M)
Werner, H. C. (A)
Westerfield, E. C. (M)
Wetherill, C. A. (SM)
Wigdahl, E. E. (M)
Wilkins, R. G. (A)
Willard, F. H., III (A)
Williamson, G. H. S. (A)
Willingham, J. D. (A)
Wilson, W. D. (M)
Winans, G. L. (A)
Wirth, H. J. (M)
Witzel, A. B. (M)
Wolfe, G. W. (A)
Wolff, H. G. (M)
Woodfill, W. H. (M)
Wooley, G. J. (A)
Wright, R. A. (M)
Yager, E. K. (M)
Yearley, L. E. (M)
Yoskowitz, L. K. (M)
Young, T. P. (M)
Youngberg, B. E. (M)
Zable, W. J. (M)
Zimmerman, J. K. (M)

San Dimas (LA-OB-7)
Warren, J. R. (M)
Wilkins, W. H. (M)

San Fernando (LA-SF-7)
Axel, S. J. (M)
Bailey, C. C. (A)
Bauer, J. A. (M)
Begley, W. W. (M)
Berglund, A. Q. (M)
Bouquet, F. L., Jr. (M)
Clarke, D. R. (M)
Clinger, E. C. (A)
Daniel, D. B. (A)
De Nicolai, M. B. (M)
Diem, C. W. (M)
Duel, D. M. (M)
Friedman, J. A. (A)
Girouard, L. O., Jr. (M)
Graber, R. E. (SM)
Hart, J. P. (A)
Hopkins, W. L. (A)
Larson, C. C. (SM)
Laub, R. E. (SM)
Logee, D. B. (M)
Lowy, M. A. (SM)
Martin, R. W. (M)
McCormick, W. G. (M)
McLaughlin, F. G. (A)

Moriarty, J. J. (M)
Moore, J. G. (A)
Raines, O. E. (A)
Rosenberg, R. E. (A)
Rousey, W. A. (A)
Segal, C. M. (A)
Sior, A. D. (M)
Sohlgren, C. E. (M)
Stankovich, D. (A)
Starr, I. M. (M)
Toomin, H. (M)
Vincent, R. C. (M)
Walters, L. G. (M)
Warne, V. J. (VA)
White, G. S. (A)
White, R. H. (A)
Wills, R. V., Jr. (M)

San Francisco (SF-7)
Alcorn, R. C. (A)
Anmuth, M. (M)
Baldwin, R. S. (M)
Barbano, N. (M)
Beatrez, R. (A)
Berthold, W. L. (M)
Blodget, R. (SM)
Bollier, J. (A)
Boss, L. J. (M)
Bourne, C. P. (M)
Bourret, P. L. (M)
Bradshaw, L. (A)
Breeding, C. R. (A)
Brinton, R. L. (SM)
Brown, A. E. (A)
Brown, C. M. (SM)
Brown, R. L. (A)
Cahn, B. L. (M)
Cecil, H. L. (A)
Cheu, E. D. (SM)
Conroy, C. L. (A)
Czeikowitz, R. F. (M)
Danielson, E. G. (VA)
Davy, L. H. (M)
Dennis, A. R. (M)
Dent, W. U. (M)
Dunlap, H. B. (M)
Durakov, J. S. (A)
Dutoff, D. A. (M)
Dye, D. L. (M)
Eachus, W. J. (M)
Edens, R. L. (M)
Edison, E. (SM)
Fong, W. L. (A)
Fong, W. W. (M)
Forrest, W. S. (A)
Fowler, E. B., Jr. (M)
Frear, R. B. (A)
Freiermuth, V. J. (M)
Froman, J. (SM)
Gallagher, W. E. (A)
Gallo, F. J. (M)
Gee, H. W. (A)
Given, I. (M)
Gunn, L. W. (M)
Hallbeck, R. F. (M)
Hammett, R. L. (M)
Hankel, E. M. (M)
Hant, W. (M)
Harrington, R. R. (A)
Haus, R. (A)
Held, H. E. (VA)
Holloway, J. (SM)
Holmes, D. K. (A)
Howe, G. A. (A)
Hughes, J. M. (M)
Hurley, R. B. (SM)
Jacobsen, L. R. (SM)
Jobson, C. B. (A)
John, E. J. (A)
Johnston, J. G. (A)
Kafafian, J. (M)
Kalb, H. N. (M)
Kang, K. H. (A)
Kastl, R. H. (A)
Kaufman, A. W. (M)
Kees, A. A. (M)
Kelley, T. B. (M)
Koch, J. F. A. (M)
Kochenderfer, W. E., Jr. (A)
Koloboff, G. J. (M)
Kramer, J. F. (VA)
Landells, J. H. (A)
Lee, D. Y. (M)
Lee, F. (A)
Lee, F. B. (M)
Lee, J. A. (A)
Lee, R. W. (A)
Lee, W. (A)
Lewis, E. L. (A)
Link B. G. (M)
Lippincott, D. K. (SM)
Little, W. A. (A)
Low, S. (A)
Mackay, R. S. (SM)
Maddison, F. E. (M)
Marshall, E. G. (M)
Marshall, E. L. (M)
Martin, C. E. (M)
Massoglia, F. P. (A)
Matterson, D. W. (M)
McBride, W. J., Jr. (SM)
McGibbon, G. D. (A)
McKay, H. B. (M)
Mendoza, A. A. (M)
Miller, C. W. (M)
Mohr, R. W. (SM)
Moquin, A. E. (A)
Morrison, A. C. (M)
Most, N. (M)
Nelson, L. O. (M)
Newell, R. R. (A)
Nobel, M. I., Jr. (M)
Nyberg, R. A. (A)
Olinger, A. M., Jr. (A)
O'Neil, J. A. (M)
O'Rourke, J. B. (M)
Pacher, F. A. (A)
Pallas, C. M. (A)
Panages, T. S. (M)
Parsons, L. W. (M)
Paull, J. D. (A)
Pinkney, J. L. (A)
Plummer, R. T. (M)
Purvis, R. O. (A)
Ralls, J. W. (M)
Raudso, R. (M)
Roberts, L. L. (M)
Rogers, J. H. (A)
Schwarzschild, B. (A)
Scrievers, B. J. (A)
Sharman, H. M. (M)
Shumway, J. L. (M)
Skinner, J. A. (SM)
Solomon, S. S. (A)
Spillane, L. W. (A)
Stand, T. R. (A)
Staprans, A. (M)
Steele, R. E. (M)
Stortz, R. A. (A)
Stroganoff, R. P. (M)
Svigals, J. (M)
Tanaka, G. J. (A)
Tau, J. C. (A)
Test, A. J. (M)
Tourville, G. A. (M)
Turek, C. W. (M)
Unsworth, R. G. (M)
Utter, D. H. (M)
Whithead, E. A. (M)
Wholey, C. W. (A)
Williams, J. A., Jr. (M)
Williams, N. H. (M)
Williams, P. A. (VA)
Wojcik, B. M. (M)
Wollenberg, H. A. (M)
Wong, D. S. (A)
Wong, E. (A)
Wong, H. F. (A)
Wong, W. C. (M)
Wong, W. E. (A)
Wood, G. V. (M)
Woodruff, R. L. (M)
Woolverton, R. B. (F)
Yamamoto, N. (M)
Yee, A. W. (A)
Yee, P. (M)
Yee, P. K. (M)
Zipf, A. R. (A)

San Gabriel (LA-P-7)
Black, J. M. (A)
Burtner, R. K. (A)
Crosby, J. C. (M)
Fitzwater, W., Jr. (M)
Franklin, P. G. (M)
Kizer, D. E. (M)
Leggett, D. A. (M)
Mason, J. L. (A)
Reilly, R. R. (M)
Ross, I. (M)
Ruterman, E. R. (A)
Seeley, E. M. (A)
Slote, D. M. (A)
Spargo, P. W. (A)
Weaver, C. E. (SM)
Wells, J. L. (M)
York, E., Jr. (M)

Sanger (SF-7)
Tellkamp, H. N., Jr. (A)

San Jose (SF-PA-7)
Abou-Taleb, N. M. (M)
Agadoni, C. A. (M)
Alper, R. (M)
Andrews, J. V. (A)
Applequist, J. E. (A)
Astrahan, M. M. (SM)
Athens, A. S. (M)
Atkinson, J. H. (M)
Bailey, S. H. (A)
Bass, J. E. (M)
Beck, J. W. (M)
Benedict, L. P. (M)
Bennett, B. J. (SM)
Benoit, R. E. (A)
Benz, W. G. (M)
Bixby, L. H., Jr. (M)
Boennighausen, R. A. (M)
Bramley, N. V. (SM)
Brown, C. J. (M)
Brown, R. G. (M)
Brunetti, C. (F)
Bueno, I. (M)
Burns, W. E. (M)
Cain, D. C. (M)
Cantoni, C. W. (M)
Carroll, R. V. (M)
Carson, V. S. (F)
Carter, D. (A)
Chandler, R. T. (M)
Chaney, M. E. (M)
Chase, A. B. (M)
Christopherson, W. A. M)
Clauer, C. K. (M)
Conrod, C. D. (M)
Couden, D. V. (SM)
Crespo, J. M. (A)
Croad, J. G. (M)
Daniels, J. W. (A)
Davenport, K. R. (A)
Di Napoli, G. W. (A)
Dodsworth, W. F. (M)
Dowling, R. H. (M)
Duba, L. (A)
Dye, W. G. (M)
Eldridge, A. J. (M)
Engwicht, H. (SM)
Erdman, J. P. (M)
Fernandez, J. P. (M)
Fine, W. P. (A)
Fisher, D. L. (M)
Fonda, R. D. (M)
Franks, R. E. (M)
Freiberg, L. (A)
Fuqua, R. R. (M)
Geddes, D. A. (M)
Gibson, M. M. (M)
Gonzalez, J. (A)
Hagopian, J. J. (M)
Harries, G. V. (M)
Hasen, J. E. (M)
Heit, I. M. (M)
Herrera, R. (A)
Heyning, J. M. (M)
Hilbiber, D. F. (M)
Hill, L. W. (M)
Hoagland, A. S. (SM)
Hogin, J. L. (M)
Hopner, E. (M)
Idehara, R. K. (M)
Isaacson, R. G. (A)
Jacobs, I. M. (M)
Jakubowski, M. C. (M)
Jennings, J. E. (SM)
Jesse, E. (M)
Johnson, W. J., Jr. (A)
Kirtland, J. A. (M)
Klein, E. A. (A)
La Gasse, S. G. (SM)
Larsen, G. J. (A)
Larson, R. C., Jr. (M)
Larson, R. D. (M)
Lazzarini, R. F. (M)
Libby, L. L. (SM)
Loeber, N. C. (M)
Machol, G. K. (M)
Markey, H. G. (A)
Martin, V. G. (SM)
McCullough, J. S. (SM)
McQueeney, K. A. (M)
Mendez, I. O. (M)
Miller, H. P., III (M)
Moe, C. R. (M)
Molzahn, V. L. (M)
Mongeon, R. W. (M)
Moore, J. D. (A)
Mundrick, E. L. (M)
Nickel, W. (M)
Norby, M. E. (M)
Nunamaker, T. A. (M)
Nye, R. L., Jr. (M)
O'Keefe, E. W. (A)
O'Loughlin, J. J. (M)
Paulson, J. N. (A)
Phillips, W. J. (M)
Pitsenbarger, G. A. (M)
Prather, R. E. (M)
Quement, F. J. (VA)
Rambo, W. R. (SM)
Reynolds, W., Jr. (M)
Rinsler, L. (M)
Robinson, W. H. (A)
Rodda, E. N. (A)
Ross, H. C. (SM)
Rothe, M. E., Jr. (A)
Royal, E. L. (M)
Sagawa, S. S. (M)
St. Clair, H. K. (M)
Samario, E. J. (M)
Saylor, R. A. (A)
Schlaepfer, C. E. (A)
Sierra, H. M. (M)
Spades, J. F. (M)
Specht, D. F. (M)
Steading, T. W., Jr. (M)
Stevens, L. D., Jr. (SM)
Steward, L. B., Jr. (M)
Stock, J. A. (M)
Stoft, P. E. (M)
Stringall, W. S. (A)
Stuart, G. S. (A)
Sutton, J. G., Jr. (M)
Sutton, J. S. (M)
Sylvain, E. F. (M)
Takata, M. M. (A)
Toschi, E. A. (M)
Townsend, C. K. (A)
Tralle, G. E. (M)
Travis, N. W., Jr. (M)
Treseder, R. C. (M)
Ujifusa, R. L. (M)
Viallet, J. L., Jr. (M)
Warshaw, H. D. (M)
Weed, G. E. (M)
Wengert, R. A. (M)
Widener, M. W. (M)
Willard, D. D. (SM)
Williams, B. W. (A)
Williams, C. S. (M)
Wilshinsky, I. (M)
Winchell, J. A. (M)
Wood, F. B. (M)
Worlton, D. C. (M)

San Leandro (SF-EB-7)
Albrecht, J. F. (A)
Borrelli, R. N. (M)
Haubrock, F. W. (M)
Holloman, C. J. (M)
Jones, F. W. (M)
Kritzer, E. A. (A)
Maxwell, C. D. (A)
Ripley, J. N., Jr. (M)
Sanders, J. G. (A)
Silverman, B. P. (M)
Spinazze, L. (A)
Still, J. G. (A)

San Lorenzo (SF-EB-7)
Beckenstein, M. (M)
Jacobs, H. L. (A)
Lyon, D. J. (M)
Murray, J. L. (A)
Winningstai, C. N. (M)

San Lorenzo Village (SF-EB-7)
Donahue, W. J. (A)

San Luis Obispo (LA-SB-7)
Brown, C. F. (M)
Cloonan, C. B. (M)
Fisher, C. E. (A)
Hendriks, H. J. (SM)
Landyshev, A. (SM)
Radius, C. (SM)
Wills, J. R. (M)
Wilson, G. L. (A)
Wolf, H. K. (M)
Zimmerman, H. S. (M)

San Marino (PA-P-7)
Baumgartner, W. S. (SM)
Bucknell, W. H. (VA)
Cabalan, E. T. (M)
Dryden, E. H. (M)
Gauldin, C. B. (M)
Irwin, E. M. (M)
Lincoln, C. C., Jr. (A)
Moore, R. L. (A)
Pfeiffer, W. F. (A)
Sanders, L., Jr. (M)
Sievers, E. S. (M)
Spaulding, C. P. (SM)
Stewart, J. L. (SM)
Stimson, J. D. (M)
Thatcher, J. W. (SM)
Whistler, J. P. (SM)
Wright, W. V., Jr. (M)

San Mateo (SF-7)
Andrews, W. F. (A)
Bartholomew, H. C. (M)
Batten, H. W. (A)
Bauer, F. (M)
Bennett, K. (M)
Bennett, W. S. (SM)
Chow. B. (M)
Cotterill, M. J. (M)
De Lorimier, J. B. (M)
Downie, W. A. (M)
Eakin, J. H. (SM)
Flanley, W. F. (SM)
Fujii, W. M. (M)
Greve, G. M. (M)
Haylock, F. B. (M)
Heller, R. E. (SM)
James, S. D. (SM)
Janakos, N. (A)
Kreutzer, M. L. (M)
Leonhardt, M. W. (M)
Line, G. D. (M)
Loring, C. M., Jr. (M)
Lott, T. M. (M)
Mackenzie, R. G. (SM)
Maninger, R. C. (M)
Miller, C. M. (M)
Newman, H. L. (M)
Newman, R. J. (A)
Ogden, J. E. (M)
Oshima, K. (M)
Palmquist, J. F. (SM)
Smyrnos, G. J. (M)
Snoddy, R. E. (M)
Sutherland, R. I. (M)
Taylor, E. D. (M)
Taylor, R. A. (M)
Wilber, L. E. (A)
Zweifel, F. A. (M)

San Pablo (SF-EB-7)
McDaniel, R. F. (A)

San Pedro (LA-7)
Baines, E. L. (M)
Barina, E. J. (M)
Clyne, W. E. (SM)
Dahl, J. D. (M)
Deaver, J. M. (A)
Goforth, J. L. (M)
Gross, W. (A)
Gustin, J. T. (A)
Hamren, S. D. (A)
Heaverlo, H. D. (A)
Hettich, J. J. (M)
Holland, R. J. (A)
Howard, C. T. (A)
Jiu, R. (M)
Kerr, W. B. (M)
Klein, E. F. (M)
Lewellyn, J. R. (SM)
Lillibridge, E. H. (A)
Lowe, R. R. (SM)
McCord, H. L. (A)
McCready, K. F. (M)
McWilliams, J. D. (SM)
Moore, M. E. (M)
Ransom, D. H. (M)
Rasque, D. E. (M)
Reiss, R. I. (A)
Robinson, N. O., Jr. (M)
Rosenberg, H. S. (A)
Schmid, L. H. (A)
Sherma, M. (M)
Stroud, S. G. (M)
Thomas, D. W. (M)
Wershoven, G. A. (A)
Worch, A. B. (M)
Yoder, R. F. (M)
Young, H. A. (SM)

San Rafael (SF-7)
Catania, C. J. (M)
Collier, R. E. (M)
Fitzroy, D. C. (A)
Matthews, D. W. (A)
Miles, C. W. (M)
Paulson, G. A. (A)
Schaub, L. E. (A)
Shephard, R. W. (SM)
Wood, R. W. (A)
Yuricic, J. F. (M)

San Ysidro (SD-7)
Zint, K. E. (SM)

Santa Ana (LA-SA-7)
Akrell, C. A. S. (SM)
Anderson, S. E. (M)
Arnold, H. J. (M)
Baranoff, A. J. (SM)
Bixler, O. C. (SM)
Bonney, R. B. (SM)
Buchanan, R. A. (M)
Buehner, M. R. (SM)
Burke, J. J. (SM)
Chernish, G. (SM)
Cobb, H. A., Jr. (M)
Dempster, B. (F)
Fritchle, F. P. (M)
Giannini, G. M. (SM)
Gordon, J. F. (SM)
Greulich, H. J. (A)
Guthrie, J. W. (A)
Haack, R. W. (M)
Haglund, H. H. (A)
Horn, R. H. (SM)
Jarmie, T. W. (SM)
Johnson, H. B. (A)
Koger, G. W. (M)
Lander, R. F. (A)
Levering, C. A. (VA)
Mallinckrodt, A. J. (SM)
McCandless, J. B. (M)
McGuire, T. B. (A)
Meyer, J. C. (M)
Mileson, D. F. (M)
Morrison, A. I. (M)
Newman, C. (M)
Noble, J. J. (M)
Persons, L. D. (A)
Porter, W. R. (M)
Preston, L. S. (SM)
Proctor, D. R. (SM)
Reedy, P. H. (SM)
Sander, M. H. (M)
Schupak, L. (M)
Scullion, G. M. (M)
Seeley, E. S. (SM)
Shannon, J. B. (M)
Shaw, L. B. (A)
Sherwin, J. S. (M)
Smith, C. C. L. (M)
Smith, W. K. (M)
Snyder, R. L. (M)
Thorpe, H. G. (M)
Vogel, O. F., Jr. (SM)
Warhurst, J. W. (M)
Wheeler, R. W. (A)

Santa Barbara (LA-SB-7)
Baltz, L. E. (M)
Benton, R. F. (M)
Bergman, C. W., Jr. (A)
Beveridge, H. N. (SM)
Bock, M. J. (M)
Boxer, R. (M)
Boyle, S. R. (M)
Brody, R. H. (M)
Brown, W. P. (M)
Brun, G. E. (M)
Burt, C. R. (A)
Buttschardt, C. C., Jr. (M)
Crane, S. D. (SM)
Crippa, E. R. (M)
Cruse, P. M. (A)
Dawley, R. L. (M)
Escher, P. H. (M)
Forster, M. C. (M)
Galbreath, J. R. (A)
Gannaway, R. (SM)
Goodale, D. M. (A)
Gordon, B. E. (M)
Gullatt, S. P., Jr. (A)
Hannah, D. C. (A)
Hausz, W. (F)
Hedges, C. P. (M)
Hutcheon, R. S. (A)
Inoue, N. S. (M)
Janeway, W. F. (M)
Kalstrom, R. D. (M)
Kingman, G. M. (M)
Koenitzer, R. D., Jr. (M)
Kuerschner, H. A. (M)
Kvaas, T. A. (SM)
Lansing, J. C., Jr. (M)
Larsen, R. A., Jr. (M)
Little, D. R. (M)
Majka, C. J. (M)
Maki, G. J. (SM)
Mark, R. A. (M)
Markin, J. (SM)
Mattiat, O. E. (SM)
McCabe, A. P. (M)
McCaughna, J. R. (M)
McMaster, W. J. (A)
Meinema, H. (A)
Merrill, J. R. (SM)
Monroe, P. P. (A)
Moore, J. A. (M)
Moseley, J. A. (M)
Moyer, J. W. (SM)
Nistler, G. C. (M)
Olmsted, D. T. (SM)
Patchell, J. T. (A)
Phillips, R. G. (M)
Plake, W. C. (M)
Pooleany, R. P. (A)
Pressley, J. H. (F)
Raymond, R. C. (F)
Reed, J. C. (M)
Reid, J. R. (M)
Shiers, G. (M)
Smith, W. E. (A)
Snyder, R. W. (M)
Swift, I. H. (M)
Thompson, R. L. (A)
Thomsen, P. H. (SM)
Thoren, C. A. (M)
Toporeck, E. R. (SM)
Tornheim, H. (SM)
Trammell, A. K. (M)
Villers, D. (M)
Wall, V. W. (SM)
Watkins, R. A. (SM)
Weiss, M. (M)
Wildman, A. J. (M)
Witten, A. L. (SM)
Woerner, J. J. (M)
Wright, D. (M)
Zopf, D. O. (M)

Santa Clara (SF-PA-7)
Adelson, M. B. (M)
Alford, C. H., Jr. (M)
Anderson, E. P. (SM)
Bennion, J. L. (M)
Black, S. H. (A)
Brown, J. S. (M)
Budd, W. E. (M)
Butt, N. C. (M)
Cambra, J. M. (M)
Chesley, B. E. (M)
Conner, C. C. (SM)
Convertino, R. O. (A)
De Tolly, G. E. B. (A)
Dill, G. D. (M)
Dill, J. J. (M)
Dutton, I. L. (M)
Ellis, W. (M)
Estrada, M. S. (A)
Fillebrown, S. M. (M)
Gaubatz, D. C. (M)
Geiges, K. S. (SM)
Guthrie, E. E. (A)
Hall, T. F. (M)
Helm, J. L. (M)
Henry, R. A. (M)
Ingwerson, D. R. (M)
Jackson, C. F. (M)
Johnson, R. W. (M)
Kaufmann, J. (A)
Kikoshima, R. T. (A)
Killion, D. G. (M)
Knowles, W. A. (A)
Kroener, D. F. (M)
Kuzminsky, I. (M)
Lally, J. P. (M)
Lewis, F. V. (M)

Linn, F. S., Jr. (M)
Littler, D. (M)
Lynch, W. L. (M)
McCune, E. W. (M)
McPhail, J. H. (A)
McRae, R. C. (M)
Meyer, W. E. (M)
Miller, S. K. (A)
Negrete, M. R. (M)
Ne Smith, W. W. (M)
Newman, H. L. (SM)
Payne, G. W. (A)
Pea, R. O. (A)
Pershing, P. D. (M)
Schuls, D. F. (M)
Shew, L. F. (M)
Spesock, G. J. (M)
Sturdevant, J. T. (M)
Swayze, D. W. (A)
Thornburg, R. O. (M)
Titcomb, R. D. (M)
Todd, L. L. (A)
Van Ess, J. C. (M)
Wasielewski, S., Jr. (M)
Weiner, A. (M)
Welch, J. R. (SM)
Whitmore, G. L. (A)
Yagi, H. S. (A)

Santa Cruz (SF-7)
Gerhart, R. E. (M)
Hubbard, A. L. (SM)
Jackson, C. L. (A)
Janitschke, E. O. (VA)
Mattson, D. F. (SM)

Santa Fe Springs (LA-SA-7)
Switzer, W. L. (M)
Tosspon, A. E. (M)

Santa Maria (LA-SB-7)
Gago, F. J. (A)
Seymour, E. E. (M)

Santa Monica (LA-7)
Alexander, B. H. (SM)
Allman, D. L. (M)
Andreasson, R. I. (M)
Becker, L. E. (M)
Beckwith, H. W. (M)
Beintema, C. D. (M)
Benbrooks, L. A. (M)
Bennett, R. G. (M)
Birmingham, D. J. (M)
Blount, W. A. (M)
Blumenthal, I. S. (M)
Boucher, R. J. (M)
Boucher, R. A. (M)
Brain, M. D. (M)
Brandt, E. (M)
Broadwell, W. B. (M)
Brubaker, J. W. (M)
Butt, C. (M)
Campbell, H. G. (A)
Carne, J. B. (SM)
Carver, F. R. (SM)
Causey, G. D. (M)
Champness, N. A. (SM)
Clark, J. W. (SM)
Clark, L. R. (SM)
Clark, S. F. (M)
Collins, E. L. (A)
Combs, W. E. (M)
Cooke, C. W., Jr. (SM)
Craig, L. J. (M)
Crain, C. M. (F)
Criss, G. B. (SM)
Daspit, J. I. (M)
De Lucia, V. E. (SM)
Difford, L. C. (A)
D'Nelly, G. O. (SM)
Drozniakiewicz, D. L. (M)
Durieux, C. W. (A)
Eisenstein, A. M. (M)
Everest, F. A. (SM)
Exner, W. L. (SM)
Filman, N. J. (SM)
Francis, G. A. L. (A)
Frank, M. E. (M)
Gauronskas, P. P. (M)
George, V. L. (M)
Georges, L. (A)
Goldberg, G. A. (M)
Grabowski, K. P. (M)
Green, D. J. (SM)
Griswold, F. B. (M)
Gumbart, H. E. (A)
Hadlock, C. K. (SM)
Haladej, M. A. (M)
Harbaugh, A. W. (M)
Heinrich, F. (M)
Herr, D. L. (SM)
Hersh, M. (M)
Heyne, J. B. (SM)
Hill, J. H. (M)
Hilliard, J. T. (M)
Hitchcock, D. R. (M)
Judge, F. W. (M)
Karalukas, J. (A)
Kidd, A. T. (M)
Kiner, L. F. (A)
Krantz, C. H. (M)
Lakatos, E. (SM)
Lalande, B. H., Jr. (A)
Langmuir, D. B. (SM)
Lavery, W. J., Jr. (M)
Lear, W. P. (SM)
Levitt, M. (A)
Linquiti, A. A. (A)
Lippe, E. A. (M)
Lukenbill, R. S. (M)
Lustgarten, M. N. (SM)
Lyons, L. H. (M)
Mallison, J. A. (M)
Malone, E. P. (M)
Marsh, A. H. (M)
McKee, W. P., Jr. (M)
McLaughlin, W. J. (A)
Melara, J. D. (A)
Metzner, H. E. (M)
Miller, E. M. (A)
Miller, M. L. (A)
Moore, D. H. (M)
Morriss, B. E. (M)
Morrow, J. E. (M)
Neideffer, C. R. (A)
Ordahl, C. A. (M)
Orlando, N. M. (M)
Parkin, T. R. (A)
Parkinson, C. B., Jr. (SM)
Plew, H. E., Jr. (M)
Priest, E. J. (M)
Quandt, R. L. (M)
Randall, L. B. (A)
Reese, R. F. (SM)
Rehler, K. M. (M)
Risley, E. O. (A)
Robertson, V. H. (M)
Rohrer, G. W. (M)
Rolt, G. H., Jr. (A)
Rosen, H. A. (M)
Rosenbaum, J. L. (A)
Rosenberg, M. (M)
Rubin, E. R. (M)
Salzer, J. M. (M)
Savant, C. J., Jr. (M)
Schindler, M. (M)
Schull, G. R. (M)
Scuitto, T. J. (A)
Silvern, L. C. (A)
Slattery, J. J. (F)
Smith, L. C. (A)
Snow, W. B. (SM)
Soltwedel, E. B. (SM)
Sorensen, A. A. (M)
Speer, J. G. (SM)
Stahl, R. (A)
Stephens, C. H. (A)
Stewart, W. F. (SM)
Stineman, V. E. (M)
Stockett, T. E. (M)
Swerling, P. (M)
Tatum, F. A. (A)
Thomas, D. H. (M)
Troy, P. (A)
Van Dyke, W. D. (SM)
Van Emden, B. M. (A)
Vitek, W. J. (M)
Wade, G. J. (A)
Wallace, P. R. (M)
Ware, P. H. (M)
Ware, W. H. (SM)
Weber, R. I. (VA)
Wehner, R. S. (M)
Whitaker, J. N. (SM)
Wileman, R. A. (M)
Wilson, D. W. (M)
Woods, R. L. (A)
Yaru, N. (SM)
Yoshida, M. (M)
Ypma, J. E. (M)
Zwelzig, J. R. (M)

Santa Paula (LA-B-7)
Sharp, J. M. (M)
Wasmansdorff, C. (SM)
Wymore, R. H. (M)

Santa Rosa (SF-7)
Merrill, G. E. (M)
Parker, J. F. (A)
Tavernia, G. B. (A)

Santa Ynez (LA-SB-7)
Shannon, W. W. (M)

Santee (SD-7)
Freedman, S. (SM)

Saratoga (SF-7)
Ackerlind, E. (SM)
Anderson, T. J. (SM)
Belleville, L. M. (SM)
Black, R. J., Sr. (M)
Bowen, D. A. (M)
Boyer, B. E. (M)
Brolly, A. H. (SM)
Cherry, D. D. (M)
Chromy, B. J. (VA)
Dame, R. O. (M)
Dawson, E. C. (M)
Delp, R. H. (M)
Dinapoli, F. C. (M)
Frizzell, C. E. (SM)
Hagood, W. N. (A)
Hammack, C. M. (SM)
Hartke, D. C. (M)
Hermstad, J. A. (M)
Hexem, J. (M)
Hodge, M. H., Jr. (M)
Horvath, A. (SM)
Imboden, G. J. (A)
Law, L. R. (A)
Melas, C. M. (M)
Messler, L. V. (A)
Moats, R. R. (M)
Muntz, W. E. (SM)
Nettesheim, H. P. (SM)
Pease, M. C., III (SM)
Powell, R. M. (M)
Ransil, R. J. (M)
Roberts, T. E., Jr. (SM)
Rolph, D. B. (M)
Seader, L. D. (M)
Smith, P. G. (SM)
Stone, A. H. (A)
Test, L. D. (M)
Tyminski, W. V. (M)

Saugus (LA-7)
Marandino, N. J. (M)

Seal Beach (LA-SA-7)
Cosgrave, S. J. (M)
Frankel, S. P. (M)

Sebastopol (SF-7)
Spiess, H. H. (M)

Sepulveda (LA-SF-7)
Benson, S. A. (A)
Bock, E. L. (SM)
Borofka, R. P. (M)
Buckley, J. W. (A)
Carpenter, S. L. (M)
Casarow, L., Jr. (M)
Corey, E. J. (A)
Davis, M. E. (M)
Decuir, L. E. (M)
Dored, W. (A)
Erhardt, K. D. (M)
Fredman, N. E. (M)
Gudmundson, M. C. (M)
Heldbrink, M. E. (M)
Helms, G. W. (M)
Holly, R. (M)
Howard, W. J. (A)
Hughes, E. L. (M)
Ingebretsen, E. E. (SM)
Larrimer, J. K. (A)
Leach, S. (M)
Lords, F. V. (A)
Montijo, R. E., Jr. (M)
Nesbit, E. E. (SM)
Palmquist, M. L., Jr. (M)
Patin, O. E. (SM)
Peterson, R. W. (M)
Rigg, G. L. (SM)
Speen, G. B. (M)
Swales, S. (M)
Waxman, M. J. (M)
Wylie, L. (A)

Sherman Oaks (LA-SF-7)
Abbott, J. R. (M)
Allen, F. C. (M)
Arn, S. F. (SM)
Bloomberg, R. A. (M)
Blumberg, N. (M)
Bockwoldt, W. H. (M)
Butts, L. E. (A)
Caldwell, W. D. (M)
Campbell, E. J. (A)
Cartheuser, W. (A)
Childs, H. A. (SM)
Cory, W. E. (M)
Dean, J. P. (M)
Derderian, N. (A)
Dickinson, H. B. (A)
Emerling, R. A. (M)
Epstein, S. (A)
Foote, S. H. (M)
Forbath, F. P. (SM)
Fryling, J. L. (M)
Glasspool, W. T. G. (M)
Herlinger, L. F. (A)
Hoskinson, E. A. (M)
Kalayjian, J., Jr. (M)
Lamberg, R. (M)
Lamm, R. A. (SM)
Lees, A. B. (M)
Leon, H. I. (SM)
MacDonald, B. I. (M)
Margerum, D. L. (SM)
Markin, N. (M)
Miller, M. H. (M)
Mras, R. J. (M)
Neuman, G. O. (A)
Perry, C. L. (M)
Ross, M. N. (M)
Russell, D. C. (M)
Rutland, D. F. (A)
Rypinski, C. A., Jr. (M)
Spranger, P. B. (A)
Suffield, F. G. (SM)
Wahlstrom, J. W. (M)
Webb, P. S. (M)
Zuehlke, E. R. (M)

Sierra Madre (LA-P-7)
Burke, H. E., Jr. (SM)
Carpenter, F. C., Jr. (M)
Kelley, J. R. (A)
Phillips, E. V. (M)
Posthill, B. N. (A)
Siegmeth, A. J. (SM)
Smith, P. E. (A)
Tahl, J. E. (A)
Wheelon, W. E. (A)
Zeuschner, R. F. (A)

Solana Beach (SD-7)
Blair, W. L. (SM)
Blum, M. (M)
Cannon, J. W. (A)
Heid, P. R. (M)
McIlwraith, C. G. (A)

Somis (LA-B-7)
Manning, K. P. (M)

Soquel (SF-7)
Wheeler, D. E. (A)

South Gate (LA-7)
Alford, W. H. (A)
Dickinson, H. (A)
Fujimoto, M. (A)
Gilliam, C. E. (A)
Maurer, R. A. (A)
Novick, F. D. (A)
Rogers, J. M. (A)
Roslund, T. A., Jr. (M)
Solie, A. J. (A)
Steiner, F. W. (M)
Whalley, J. M. (M)
Wilgus, D. S. (A)
Yoshioka, G. (A)

South Laguna (LA-SA-7)
Weekes, B. B. (M)

South Palo Alto (SF-PA-7)
Huynen, J. R. (M)

South Pasadena (LA-P-7)
Bartel, W. B. (A)
Blasier, H. E. (VA)
Downs, G. W., Jr. (SM)
Edelson, L. (A)
Farzan, J. (M)
Freel, C. L. (A)
Holmes, W. T. (M)
Houdyshell, H. H. (M)
Jurich, S. (A)
King, R. C. (A)
Kuck, R. G. (SM)
Morrison, R. T. (M)
Olsen, H. G. (M)
Olson, A. J. (M)
Shapiro, H. (M)
Stott, R. F. (M)
Tracy, T. (M)
Trzyna, T. S. (A)
Walker, V. M. (M)

South San Francisco (SF-7)
Bowie, R. L. (A)
Garzoli, F. F. (M)
Jenkins, C. D., Jr. (M)
Karp, P. W. (M)
Rumble, G. F. (A)
Tripp, A. L. (M)
Tudor, H. (M)

South San Gabriel (LA-P-7)
Fairbanks, A. F. (M)
Painchaud, P. A. (M)
Tripodi, R. F. (A)

Spring Valley (SD-7)
Blalock, J. N. (A)
Brunswick, H. D. (A)
Kirkman, R. A. (SM)
Smith, H. C. (M)

Stanford (SF-PA-7)
Ayres, W. R. (M)
Bahrs, G. S. (M)
Barnett, E. F. (A)
Bracewell, R. N. (SM)
Bryan, J. H. (M)
Buss, R. R. (SM)
Chang, W. S. C. (M)
Chodorow, M. (F)
Coates, D. B. (M)
Crane, M. (M)
Crary, J. H. (M)
Davis, K. S. (M)
De Broekert, J. C. (M)
Dunn, D. A. (SM)
Egan, R. D. (M)
Fontana, J. (A)
Franklin, G. F. (M)
Gallagher, P. B. (M)
Garbutt, H. E. (A)
Ginzton, E. L. (F)
Grace, D. J. (SM)
Grigsby, J. L. (SM)
Hare, M. D. (SM)
Harman, W. W. (SM)
Heffner, H. (SM)
Helliwell, R. A. (SM)
Jasberg, J. H. (M)
Jaynes, E. T. (SM)
Kincheloe, W. R., Jr. (SM)
Kino, G. S. (A)
Klotter, K. (SM)
Kohl, W. H. (F)
Lagerstrom, P. P. (M)
Lebacqz, J. V. (SM)
Linvill, J. G. (M)
Ma, L. N. (M)
Manning, L. A. (SM)
Musser, M. H. (M)
Nelson, C. G. (M)
Otsuka, S. P. (M)
Pantell, R. H. (A)
Pettit, J. M. (F)
Robinson, P. T. (M)
Shannon, C. E. (F)
Shoens, C. J. (M)
Siegman, A. E. (M)
Sonkin, S. (SM)
Steed, E. C. (M)
Sterrett, J. E. (M)
Terman, F. E. (F)
Turner, F. M. (M)
Tuttle, D. F., Jr. (SM)
Valverde, J. F. (M)
Wada, G. (M)
Wade, G. (SM)
Ward, R. B. (M)
Waterman, A. T., Jr. (SM)
Watkins, D. A. (F)
Wightman, B. A. (A)
Wilson, P. B. (M)
Winslow, D. K. (SM)

Stockton (SAC-7)
Bond, C. H. (SM)
Echandi, J. (M)
Fegan, A. A. (M)
Greene, M. B. (A)
Lazaro, S. A. (A)
Welch, H. E. (M)

Studio City (LA-SF-7)
Berntsen, P. L. (M)
Fox, M. (M)
Hollmann, H. E. (F)
Kaeburn, L. K. (SM)
McGaughey, R. P. (M)
Moon, R. B. (M)
Nelson, C. S., Jr. (M)
Norwalt, R. H. (A)
Rich, K. J. (M)
Smith, W. W. (A)

Sunland (LA-SF-7)
Arrowsmith, N. M. (A)
Dinning, J. R. (M)
Fielding, B. L. (M)
Kaplan, M. N. (M)
Saunders, C. F. (A)
Smith, J. J., Jr. (M)

Sunnyvale (SF-PA-7)
Adler, L. K. (SM)
Allard, G. A. (A)
Andrews, C. A., Jr. (M)
Arnold, J. B. (M)
Baird, H. S. (M)
Barr, G. L. (M)
Barrett, L. S. (M)
Becker, H. A. (M)
Benjamiason, A. (M)
Benson, S. (SM)
Blatt, E. L., Jr. (M)
Bougher, W. G. (A)
Bower, D. A. (A)
Boysen, J. A. (M)
Boytz, J. R. (M)
Brooks, W. (A)
Burkhart, R. N. (A)
Burlingame, L. G. (SM)
Burnside, C. J. (SM)
Calhan, C. L. (M)
Carpe, B. (M)
Carter, P. S., Jr. (M)
Case, M. D. (M)
Caveney, R. D. (M)
Chalmers, P. H. (M)
Chop, A. (M)
Clemo, C. B. (A)
Cohen, S. A. (A)
Contos, P. A. (M)
Cornwell, R. C. (M)
Craine, W. P. (M)
Daly, J. J. (M)
Davies, R. W. (A)
Daw, E. H. (A)
Dickerson, L. W. (A)
Di Giuseppe, A. (M)
Downey, J. P. (M)
Earl, H. O. (M)
Endsley, J. P. (A)
Enslow, G. M. (M)
Faklis, J. J. (A)
Farkas, C. E. (M)
Farkas, L. (M)
Ferrin, K. S. (M)
Finney, D. J. (SM)
Fishman, M. (M)
Flora, J. (A)
Fogard, D. C. (A)
Foryt, T. (M)
Freshour, S. G. (M)
Gallichotte, J. H. (M)
Gee, L. S. (A)
Gillard, C. W. (M)
Goldsborough, R. R., Jr.
Gray, R. D. (SM)
Grushkin, M. (M)
Gundy, P. L. (M)
Halcomb, J. L. (M)
Hammond, E. B., Jr. (SM)
Harlan, R. A. (M)
Harrison, B. H. (M)
Hassell, B. M. (M)
Hedberg, H. E. (M)
Hefte, C. B. (A)
Hughes, L. T. (A)
Isaacs, R. A. (A)
Jensen, P. E. T. (M)
Jobbins, C. W. (M)
Johnson, D. E. (M)
Johnston, R. J. (A)
Jones, D. F. (A)
Kanawyer, W. N. (M)
Katt, D. R. (M)
Kean, D. W. (SM)
Kerwin, W. J. (SM)
Klingman, W. A. (M)
Koppel, R. L. (M)
Lang, R. B., Jr. (M)
Lark, J. E. (M)
Levinthal, J. G. (M)
Linders, T. E. (M)
Lopes, R. R. (A)
Lusk, T. D. (M)
Malasky, S. W. (M)
Marshall, J. A. (A)
Maurer, C. D. (A)
McClain, W. J. (M)
Moore, G. O. (SM)
Morgan, R. B. (SM)
Morse, F. A. (M)
Nash, J. P. (SM)
Nassle, T. A. (A)
Nylander, R. F. (A)
O'Connor, D. G. (SM)
Ohlmann, G. A. (A)
Paget, F. W. (M)
Paulson, C. R. (M)
Peters, R. L. (M)
Peterson, D. G. (M)
Peterson, K. F. (A)
Prue, W. W., Jr. (M)
Reddoch, C. E. (A)
Reisman, S. J. (M)
Rennie, F. P. (M)
Romans, W. E. (A)
Root, K. E. (M)
Rosenberg, S. (SM)
Rudin, B. D. (M)
Sackman, D. A. (M)
Schneider, R. F. (M)
Schultheis, H. B., Jr. (SM)
Shaw, G. W. (A)
Showen, L. (SM)
Simpson, R. O. (M)
Smith, D. L. (M)
Smith, H. E. (A)
Smith, J. I. (M)
Spencer, J. M., Jr. (M)
Stenger, F. J. (M)
Stewart, R. J. (SM)
Stinson, D. C. (M)
Stoltz, J. R. (M)
Tangney, J. F. (M)
Taylor, J. M. (A)
Trainer, R. F. (M)
Tyrrell, R. A. (A)
Vernon, F. C. (M)
Wallis, D. W. (M)
Wells, F. C. (SM)
West, S. F. (A)
Whiteley, R. B. (SM)
Whitten, J. R. (M)
Williams, W. F. (M)
Wood, R. A. (A)
Yueh, J. H. (M)
Ziegler, F. W. (SM)

Sun Valley (LA-SF-7)
Abbey, C. R. (M)
Ahmann, J. J. (M)
Barnhart, W. H. (A)
Beatty, D. R. (A)
Bule, J. L. (M)
Crystal, D. G. (A)
Gold, C. H. (A)
Johnson, C. E. (M)
Kimble, G. E. (M)
Miller, D. C. (M)
Schwartz, A. J. (M)

Sylmar (LA-SF-7)
Hallquist, G. W. (M)
Isken, J. R. (M)
Jones, J. M. (A)
Smith, N. J. (A)
Solow, B. (M)

Tahoe Valley (SAC-7)
Tucker, M. (A)

Tarzana (LA-SF-7)
Adams, E. S., Jr. (A)

Ambrosio, B. F. (M)
Bartlome, R. D. (A)
Beck, G. R. (SM)
Bensen, R. F. (M)
Benson, R. S. (M)
Breitegger, L. G. (M)
Brown, N. M., Jr. (M)
Brunner, R. H. (SM)
Connor, J. A. (SM)
Dadant, P. M. (M)
Debaun, J. R. (A)
De Lano, R. H. (SM)
Dickinson, G. R. (M)
Drummond, E. J. (M)
Favors, H. A. (SM)
Felaman, W. O. (M)
Fifield, R. K. (A)
Gion, J. A. (A)
Hodgson, R. W. (SM)
Pierson, K. E. (SM)
Porter, J. H. (M)
Rozas, F. (M)
Russell, R. M. (SM)
Woodbury, E. J. (A)

Taylorsville (SAC-7)
Wilson, R. P. (A)

Temple City (LA-P-7)
Beaudrie, J. C. (M)
Canonic, K. D. (M)
Eyraud, J. P. (M)
Kling, W. R. (A)
Snykers, A. B. (M)

Topanga (LA-SF-7)
Gard, C. D. (A)
Glazer, C. R. (M)
Stephenson, H. G., Jr. (A)

Torrance (LA-7)
Ajioka, J. S. (M)
Akin, P. A. (M)
Ames, M. D. (M)
Baker, D. L. (M)
Barker, L. V. H. (SM)
Beneteau, B. A. (M)
Bolton, M. W. (A)
Broatch, N. L. (M)
Burr, R. L. (M)
Busuttil, H. L. (M)
Chankin, H. M. (A)
Chapin, R. G. (M)
Cole, C. C. (M)
Coling, F. L. (M)
Collins, R. F. (M)
Cooper, T. W. (M)
Cowan, C. F. (M)
Coy, L. H., Jr. (A)
Dain, H. W. (M)
Egger, A. (A)
Eikelman, J. A., Jr. (M)
Enz, R. E. (M)
Fiden, W. H. (A)
Field, F. W. (M)
Flower, D. W. (A)
Forster, D. C. (M)
French, H. M. (M)
Gabloffsky, H. (M)
Golightly, R. T. (A)
Gordon, M. F. (M)
Gottfried, R. E. (A)
Griggs, R. W. (M)
Gustason, E. R., Jr. (M)
Hakala, P. E. (M)
Harmon, W. G. (A)
Hartzell, W. M. (M)
Hewitt, E. W. (M)
Heyliger, G. E. (M)
Hilberg, R. P. (A)
Hunter, R. D., Jr. (M)
Ives, G. M. (SM)
Jessen, W. E. (A)
Jicha, A. J. (A)
Kanter, E. (M)
Kern, W. W. (A)
Kinsman, R. G. (M)
Kobetich, E. A. (M)
Leonard, D. L. (M)
Lindewall, G. W. (M)
Low, H. (M)
Mankiewicz, E. J. (A)
Martin, D. P. (M)
Martin, W. W. (A)
Matheny, L. E. (A)
McClure, D. H. (A)
McComb, B. J. (M)
McCoy, H. L. (M)
McDonald, W. H. (M)
McRee, B. R. (M)
Mehner, E. W. (A)
Mellor, J. R. (A)
Mills, R. A. (M)
Monroe, F. R. (M)
Murdock, L. C. (SM)
Norris, R. M. (M)
Nolde, R. C. (M)
Nussbaum, O. N. (A)
Nyberg, J. J. (A)
Oliver, J. R. (M)
O'Neil, C. E. (A)
Partridge, A. B. (M)
Peirce, T. F. (M)
Pitt, G. E. (A)
Pixley, N. S., Jr. (M)
Rash, K. H. (M)
Redding, A. G. (A)
Rovenstine, J. A. (A)
Ryland, M. E. (A)
St. John, D. E. (SM)
Saunders, S. R. (M)
Seckinger, W. C. (A)
Shapiro, H. (A)
Shea, R. S. (M)
Silence, N. C. (M)
Simone, L. A. (M)
Smeltzer, J. C. (M)
Snee, F. J. (M)
Spencer, D. J. (M)
Stephens, C. W. (M)
Stephenson, R. O. (M)
Thomas, W. M. (A)
Van Buskirk, D. (A)
Velasco, F. C. (M)
West, D. B. (M)
Whistler, C. H. (SM)
Whitford, R. K. (M)
Williams, R. D. (M)
Winterstrom, R. L. (M)
Woods, E. L. (A)
Wrench, R. G. (A)

Travis AFB (SF-7)
Daniel, D. D. (A)
London, R. E. (A)

Treasure Island (SF-7)
Hollabaugh, J. F. (M)
McCarley, H. H. (SM)

Tujunga (LA-SF-7)
Brown, C. A. (SM)
Cowden, L. F. (M)
Gannon, M. T. (SM)
Kreuder, N. L. (SM)
Kruse, R. C. (M)
Walcek, E. J. (M)

Tustin (LA-SA-7)
Crawford, V. L. (M)
Davis, R. (SM)
De Bord, M. J. (A)
Kamsler, W. F. (SM)
McQuiston, W. R. (SM)
Zurn, J. T. (M)

Twentynine Palms (LA-7)
Calfee, R. W. (M)
Hayes, R. W. (M)
Stapleton, G. F. (M)

Upland (LA-OB-7)
Hempy, R. L. (M)
Hitchcock, R. W. (M)
Stokes, L. C. (M)
Takenaka, G. (M)

Vallejo (SF-7)
Andrews, B. H. (M)
Ekstrand, P. A. (SM)
Elam, E. M. (M)
Fahy, E. J. (SM)
Hanley, R. J. (M)
Hartman, A. G. (M)
Hazel, W. C. (M)
Lenihan, J. E. (A)
Lewis, H. W. (M)
Mann, F. E. (M)
Ray, R. L. (M)
Teager, H. M. (M)
Timmerman, H. A. (SM)
Traver, J. W. (A)

Valley Center (SD-7)
Newburgh, H. (M)

Van Nuys (LA-SF-7)
Abstein, H. T., Jr. (M)
Anderson, G. R. (M)
Arndt, L. A. (SM)
Bangs, G. A., Jr. (M)
Barlett, F. R. (A)
Becker, J. T. (M)
Bederka, S. E. (A)
Bernds, E. L. (M)
Blaine, R. F. (A)
Blancher, D. W. (M)
Bocchio, T. R. R. (A)
Boyd, J. C. (A)
Brockway, W. W. (SM)
Brown, R. J. (A)
Broyles, R. S. (M)
Busenkell, C. C. (SM)
Carroll, C. T. (M)
Chase, L. R. (M)
Checketts, D. A. (M)
Cohen, J. E. (M)
Coler, B. A. (M)
Cutler, S. (M)
Davis, J. W. (M)
Davis, S. W. (M)
Demo, B. L. (M)
Drukaroff, I. (M)
Ericson, C. W., Jr. (M)
Euwer, H. G. (A)
Farley, E. J. (SM)
Fjeldsted, N. B. (A)
Gage, N. C. (A)
Gallenson, L. (M)
Gardner, J. M. (SM)
Gieseke, G. A. (A)
Gigante, G. A. (A)
Goldberg, J. J. (M)
Goltz, A. D. (M)
Green, A. P. (M)
Halpern, R. L. (SM)
Hammond, J. R. (A)
Hanson, R. A. (M)
Harper, R. B. (M)
Herter, V. E., Jr. (SM)
Hewitt, G. E. (SM)
Hidy, J. H. (SM)
Hirschberg, W. J. (M)
Hobbs, L. C. (M)
Hyden, I. F. (M)
Jacobson, S. (M)
Johnson, R. D. (SM)
Klemens, W. P. (SM)
Korson, I. (M)
Kramer, R. G. (M)
Krause, W. B. (M)
Kuhlman, F. M. (A)
Lamb, W. X., Jr. (M)
Larson, H. T. (M)
Levy, G. F. (SM)
Lovick, E., Jr. (SM)
Lyon, R. E. (A)
Malcolm, L. (SM)
Mallach, L. W. (SM)
Mancini, R. A. (A)
Margolin, A. R. (SM)
Marygold, G. E. (A)
McClanahan, R. T. (M)
McNully, J. L. (A)
Mentzer, S. C. (M)
Miller, C. E. (SM)
Mliunas, Z. (M)
Monderer, B. A. (M)
Morgan, H. C. (A)
Naef, C. A. (M)
Nelson, R. M. (M)
Ohrenstein, S. B. (A)
Olsefsky, C. C. (SM)
Paller, J. L. (M)
Pangborn, H. W. (SM)
Parker, W. H., Jr. (SM)
Pastor, G. J. (M)
Paul, F. A. (SM)
Peterson, R. L. (M)
Pyle, W. I. (A)
Radmacher, D. S. (M)
Randolph, R. C. (M)
Reichenbach, H. F. (M)
Rempt, H. F. (SM)
Richards, J. A. K. (SM)
Rieman, F. C. (M)
Ross, W. J. (M)
Schulte, R. W. (A)
Schultz, W. R. (M)
Selditz, N. (M)
Shepherd, J. H., Jr. (A)
Siegrist, R. F. (A)
Smith, J. C. (M)
Smith, J. E. (M)
Smokler, M. I. (M)
Sohler, J. F. (M)
Stegen, R. J. (SM)
Stewart, C. O. (A)
Strassman, A. J. (SM)
Tannenbaum, M. (M)
Tasker, R. B. (SM)
Timineri, A. A. (M)
Udry, J. J. (SM)
Urman, B. S. (M)
Wagner, H. B. (A)
Walker, P. B. (SM)
Wallick, W. L. (M)
Wasmer, W. F. (A)
Watstein, J. I. (M)
Whitely, R. L. (M)
Whitman, K. C. (M)
Wick, O. F. (A)
Wilson, R. A. (M)
Wintroub, H. J. (M)
Worth, F. L. (A)
Zane, K. F. (A)
Zboril, F. R. (SM)

Venice (LA-7)
Bekey, G. A. (M)
Engels, L. H. (A)
Fenton, A. N. (SM)
Force, D. C. (M)
Ganstwig, M. (SM)
Gurley, J. G. (M)
Hearne, J., Jr. (M)
Howard, G. L. (A)
Huggins, W. G. (M)
Noda, M., (M)
Reedy, J. F. (M)
Sherry, J. J. (M)
Sykes, R. P. (M)
Wayment, K. D., Jr. (SM)
Zuccaro, S. J. (A)

Ventura (LA-B-7)
Andersen, J. F. (M)
Arnold, W. F. (M)
Baugh, H. W. (M)
Bernhardt, E. C. (M)
Browning, R. A. (M)
Case, D. M. (M)
Hanna, C. C. (M)
Heron, D. J. (M)
Hudson, R. (A)
Kirch, J. H. (A)
La Plante, O. (SM)
Lash, J. R. (A)
Leiper, J. H. (M)
MacDonald, W. L. (M)
Mack, P. H. (A)
Newman, D. B. (SM)
Parsen, R. L. (A)
Quan, H. L. (M)
Shellabarger, J. N. (M)
Skoog, H. A. (M)
Snow, R. B. (M)
Sturm, T. F. (SM)
Tauchert, L. C. (M)
Timm, J. D. (A)
Weidemann, H. K. (M)
Whybark, D. L. (M)

Victorville (LA-OB-7)
Galyean, M. W. (A)
Wolf, J. E. (M)

Visalia (SF-7)
Eklund, M. H. (M)
Sheehan, R. P. (M)

Vista (SD-7)
Conrad, R. A. (M)

Walnut Creek (SF-EB-7)
Chase, R. C. (M)
Coakley, T. P. (M)
Cooper, R. D. (M)
Dorr, R. (SM)
Elsken, R. H. (M)
Eukel, W. W. (M)
Graham, R. H. (M)
Horton, M. C. (A)
Mitchell, J. R. (M)
Sterne, K. E. (A)
Thomas, R. E. (A)

Watsonville (SF-7)
McClure, D. E. (M)

Weaverville (SF-7)
Snyder, W. G. (M)

Westchester (LA-7)
Davidson, H. A. (M)

West Covina (LA-OB-7)
Abramis, D. (M)
Allen, J. R. (M)
Arford, F. W. (A)
Auletti, R. L. (M)
Barr, H. J. (SM)
Bass, J. W. (M)
Bazard, R. J. (M)
Bethard, C. T. (M)
Bosch, E. I. (M)
Brown, R. E. (A)
Delaney, H. J. (M)
Dickey, R. G. (M)
Ford, J. R. (M)
Foster, W. H. (M)
Garcia, G. (A)
Giser, H. W. (A)
Gore, M. R. (M)
Grantham, G. W. (M)
Jacobs, H. M. (M)
Johnson, H. A. (A)
Kemp, G. H. (M)
Kempf, W. F., Jr. (A)
Kirsten, C. C. (M)
McCormick, G. F. (M)
Metzger, H. W. (M)
Ming, D. L. (M)
Mulvey, J. A. (A)
Nestlerode, C. D., Sr. (M)
Quackenbush, R. E. (M)
Ross, H. (M)
Sampson, J. C. F. (M)
Seamer, C. W. (M)
Shaffer, A. (M)
Shield, R. G., Jr. (M)
Smith, R. A. (M)
Steinback, E. A. (M)
Swain, L. D. (A)
Taylor, L. A. (M)
Tucker, M. C. (M)
Walley, W. E. (A)
Wells, M. A. (M)
Winner, R. L. (M)

West Los Angeles (LA-7)
Bottomley, R. O. (M)
Burdick, D. D. (A)
Drucker, A. N. (M)
Humphreys, T. I. (SM)
Kelly, D. H. (A)
Leondes, C. T. (SM)
Mizell, M. H. (SM)
Pearce, P. F. (M)
Perry, J. L. (A)
Reed, R. A. (M)
Reiter, A. M. (M)
Rogne, R. J. (A)
Strassner, R. M. (M)
Tomlinson, Z. G. (R)
Turin, G. L. (M)
Wright, E. C. (M)

Westminster (LA-SA-7)
Gundersen, J. R. (A)

Westmorland (SD-7)
Austin, H. B. (M)
Stout, D. J. (M)

West Sacramento (SAC-7)
Fuller, G. R. (A)

Whittier (LA-SA-7)
Amendt, L. E. (M)
Anderson, D. B. (M)
Antista, B. A. (M)
Armstrong, A. B. (M)
Becker, D. R. (M)
Becker, W. C. (M)
Blaski, M. F. (A)
Breece, R. C. (M)
Brown, H. R., Jr. (SM)
Brown, P. M. (M)
Carroll, W. P. (A)
Corley, C. F. (M)
Darlington, H. T., Jr. (M)
Davenport, C. M. (M)
Diedrich, W. A. (M)
Downey, W. F. (M)
Elbinger, B. (M)
Geiger, R. F. (M)
Gillings, J. W. (M)
Gow, K. P. (SM)
Grieve, W. R. (A)
Hall, C. R. (A)
Harriman, D. E., Jr. (SM)
Hodge, J. (M)
Hoffmann, H. J. (M)
Holmes, E. A., III (SM)
Hooper, G. E. (M)
Ingersoll, E. R. (SM)
Jackson, M. O. (A)
Kent, S. S. (M)
Kleinhofer, B. A. (SM)
Klepinger, L. H. (SM)
Knox, R. V. (M)
Kounalis, L. E. (M)
Kreider, P. A. (M)
Laikin, M. (M)
Lanzinger, D. J. (M)
Lent, W. C. (SM)
Litten, G. A. (SM)
Lockhart, E. H. (M)
Marsh, J. A. (SM)
Martin, P. W. (M)
McClure, L. W. (SM)
McGaffey, H. F. (M)
McMillin, D. W. (M)
Meigs, V. C. (A)
Miller, J. F. (M)
Moody, R. E. (M)
Munsey, C. J. (M)
Noe, L. B. (M)
O'Brien, E. J. (SM)
Overton, C. B. (M)
Parker, N. F. (A)
Polder, J. H. (M)
Randall, G. M. (A)
Reed, R. C. (A)
Savant, C. A. (M)
Sawyer, H. F. (M)
Schmidt, F. W. (SM)
Schulz, K. S. (M)
Shibuya, Y. (M)
Shutt, S. G. (A)
Sterner, J. F. (SM)
Sterns, W. G. (M)
Stoney, W. E. (M)
Thatcher, R. B. (M)
Thomas, E. E. (A)
Tice, A. R. (SM)
Tjaden, L. L. (M)
Triman, E. L. (M)
Vorie, I. N. (VA)
Wagner, E., Jr. (M)
Wolking, D. H. (SM)
Wunderlich, F. J. (M)
Yetter, W. P. (A)
Yoder, A. A. (A)
Zemenick, C. J. (A)
Zoller, C. J. (M)

Wilmington (LA-7)
Jones, T. S. (A)
Massey, H. N. (A)

Woodland Hills (LA-SA-7)
Amdahl, G. M. (M)
Armer, P. (M)
Bendar, J. A. (M)
Blatchford, D. (A)
Callan, R. W. (SM)
Chapman, B. R. (M)
Crowe, J. W. (A)
Davidson, E. D. (M)
Ellis, J. W., Jr. (M)
Eslinger, R. L. (M)
Fails, W. A. (M)
Gaskins, F. J. (A)
Hadley, F. P. (M)
Harrison, J. F. (M)
Hicks, A. R. (M)
Hirschl, L. (M)
Ingalls, P. A. (M)
Kanze, A. J. K. (M)
Klein, M. L., (SM)
Kroll, W. (M)
Kurtz, L. A. (M)
La Fetra, F. E. (M)
Mac Donald, I. T. (A)
Mitchell, W. C. (M)
Nelson, R. S., Jr. (A)
Owens, J. E. (A)
Payne, G. H. (A)
Perry, R. E. (M)
Peterson, F. V. (M)
Pratt, J. H. (SM)
Reilly, P. E. (M)
Rosenbloom, A. (M)
Scott, L. W. (M)
Secretan, F. (M)
Seymour, R. A. (A)
Smith, B. N. (A)
Sorensen, C. E. (A)
Squires, W. K. (SM)
Staub, D. W. (M)
Strauss, D. J. (M)
Sturm, W. A. (M)
Summerfield, A. R. (A)
Tetherow, R. C. (M)
Tinney, P. (M)
Van Groos, J. C. (SM)
Wanlass, C. L. (A)
Williams, F. K. (SM)
Wilson, K. M. (M)
Woodson, W. L. (M)

Woodside (SF-PA-7)
Baldwin, E. M. (M)
Braccini, S. M. (A)
Eldredge, A. L. (SM)
McCaulay, W. H. (M)
Ropa, R. L. (SM)
Rucker, R. A. (M)
Ryland, B. G. (M)
Seaman, W. E. (M)
Smith, H. W., Jr. (A)

COLORADO

Akron (DEN-6)
Cooley, H. M. (A)

Arvada (DEN-6)
Jobler, J. R. (SM)
Longhart, C. C. (M)
Murahata, S. (M)
Robertson, A. L. (M)
Sargent, R. E. (A)
Spano, A. J. (A)

Aurora (DEN-6)
Foster, M. H. (A)
Wagner, G. D. (M)

Boulder (DEN-6)
Allred, C. M. (M)
Applegate, C. J. (M)
Barclay, C. (A)
Barghausen, A. F., Jr. (A)
Barsis, A. P. (M)
Bean, B. R. (A)
Beatty, R. W. (SM)
Behrent, L. F. (M)
Berry, I. S. (M)
Bowles, K. L. (A)
Brown, F. W. (A)
Burkhard, D. G. (SM)
Bussey, H. E. (SM)
Byrne, W. J. (M)
Carney, J. A. (M)
Case, W. E. (M)
Cohen, R. S. (M)
Conda, A. M. (M)
Cook, C. C. (M)
Coon, R. M. (M)
Cottony, H. V. (SM)
Cowell, P. K. (M)
Crichlow, W. Q. (SM)
Culshaw, W. (SM)
Dalke, J. L. (SM)
Daniels, W. H. (M)
Davis, T. L. (M)
Decker, M. T. (M)
De Gregorio, J. F. (M)
Erni, J. B. (A)
Estin, A. J. (M)
Florman, E. F. (M)
Freudenberg, H. O. (A)
Gatterer, L. E. (M)
George, W. D. (M)
Goble, R. W. (A)
Goerke, V. H. (M)
Greene, F. M. (M)
Haller, F. B. (A)
Harrington, R. D. (A)
Heaton, V. E. (SM)
Herbstreit, J. W. (F)
Hornberg, K. O. (SM)
Hubbard, R. W. (M)
Hudson, P. A. (M)
Janes, H. B. (M)
Jean, A. G., Jr. (M)
Jickling, R. M. (A)

Johnk, C. T. (M)
Johnson, D. S., Jr. (A)
Jones, R. N. (M)
Kindig, N. B. (M)
King, E. B. (A)
Kirby, R. C. (SM)
Kirby, R. S. (SM)
Kirkpatrick, A. W. (A)
Koch, J. W. (M)
Krueger, R. E. (M)
Lance, H. W. (SM)
Larsen, E. B. (M)
Larson, R. E. (M)
Little, C. G. (M)
Logan, W. L. (M)
Longley, A. G. (A)
Maloney, L. J. (M)
Martinez, J. L. (A)
McGavin, R. E. (M)
McQuate, P. L. (M)
Miller, L. W., Jr. (M)
Morgan, A. H. (M)
Nicoloff, C. C. (M)
Niesen, E. (A)
Norton, K. A. (F)
Ochs, G. R. (M)
Orris, E. C. (M)
Ostrow, S. M. (SM)
Phelps, F. P. (A)
Posakony, G. J. (M)
Powell, R. C. (A)
Reed, D. R. (M)
Rice, P. L. (M)
Richardson, J. M. (SM)
Ries, F. X. (M)
Rogers, W. M. (M)
Rumfelt, A. (M)
Schafer, G. E. (SM)
Schiffmacher, E. R. (M)
Selby, M. C. (SM)
Shoaf, J. H. (M)
Silberstein, R. (SM)
Simpson, P. A. (M)
Slutz, R. J. (M)
Smith, E. K., Jr. (SM)
Snyder, W. F. (SM)
Stacey, D. S. (SM)
Stroud, J. G. (A)
Sugar, G. R. (M)
Taggart, H. E. (M)
Tary, J. (M)
Thompson, M. C., Jr. (SM)
Twombly, J. C. (M)
Utlaut, W. F. (SM)
Viezbicke, P. P., Jr. (A)
Vogler, L. E. (A)
Wait, J. R. (SM)
Walters, L. C. (SM)
Waters, D. M. (M)
Watkins, J. S. (M)
Watt, A. D. (SM)
Watts, J. M. (M)
Wells, P. I. (A)
Wilber, R. W. (M)
Wilson, A. C. (M)
Wolzien, E. C. (M)
Woodward, M. W. (SM)
Worcester, W. G. (SM)

Brighton (DEN-6)
Daniel, F. T. (M)

Broomfield (DEN-6)
Davis, I. F. (M)
Kemper, J. A. (A)
Peterson, S. B. (M)

Brush (DEN-6)
Spafford, L. J. (M)

Colorado Springs (DEN-6)
Behnke, A. O. (SM)
Chapman, J. M. (M)
Donegon, R. E. (M)
Elliott, H. R. (M)
Green, L. V. (A)
Holmgren, W. A. (A)
Hornby, D. A. (M)
Howell, H. R. (M)
Jacks, S. T. (M)
Kyer, F. E. (A)
Lanxon, R. C. (A)
Linke, K. W. (A)
McMenomey, J. M. (M)
Mohr, D. B. (A)
Mullen, J. F. (M)
Nash, H. F. Jr. (M)
Peterson, C. F. (M)
Quinn, T. J. (A)
Russell, J. D. (M)
Stees, H. S., Jr. (A)
Uhrhane, F. F. (SM)
Utterback, W. J. (M)
Victoreen, J. A. (SM)
Weiner, J. H. (M)
Wilson, L. H. (M)

Denver (DEN-6)
Anderson, C. R. (A)
Bahlay, A. (SM)
Beaver, H. E. (M)
Bertram, S. (SM)
Bishop, H. L., Jr. (M)
Blanchard, R. R. (M)
Blankenship, L. F. (M)
Blyler, J. B. (M)
Bowen, R. G. (M)
Bromberger-Barnea, B. (A)
Butts, J. H. (A)
Capehart, M. E. (M)
Cateora, J. V. (M)
Coker, G. F. (M)
Cole, A. E., Jr. (A)
Collins, P. B. (A)
Cook, E. E. (M)
Coombs, W. C. (SM)
Cotter, J. B. (A)
Cottrell, D. E. (M)
Crawford, G. N. (M)
Creacy, J. N. (M)
Davidson, S. (M)
Davis, D. A. (M)
Detwiler, W. L. (M)
Deutsch, K. T. (M)
Dosch, E. L. (M)
Drury, S. F., Jr. (M)
Edwards, H. T. (M)
Engel, A. (M)
Farrell, J. W. (M)
Farrell, R. J. (A)
Ferketich, G. (A)
Fingado, F. H. (M)
Flaharty, C. L. (A)
Fleming, C. W. (A)
Foley, W. V. (SM)
Fuqua, C. (M)
Garretson, H. W. (M)
Gibbons, W. T. (A)
Goddard, A. A., Jr. (A)
Grace, J. R. (SM)
Grigsby, T. N. (A)
Guild, C. P. (M)
Hall, A. C. (F)
Hart, W. G., Jr. (M)
Hastings, L. E. (SM)
Hathaway, C. M. (SM)
Hedberg, C. A. (SM)
Hedrick, W. M. (M)
Hodson, L. M. (A)
Hollister, D. G. (SM)
Holmes, G. B. (A)
Howard, R. E. (A)
Hroch, H. J. (M)
Hurlbut, J. F. (M)
Hyde, R. A. (A)
James, V. N. (SM)
Johnson, H. S. (A)
Johnson, O. A. (M)
Kardos, M. (M)
Kerver, N. E. (A)
King, E. E. (A)
Knight, S. J., Jr. (M)
Koch, R. C. (M)
Lahana, P. (M)
Lambert, W. E. (A)
Lawson, R. J. (A)
Leighou, R. O. (M)
Lover, G. L., Jr. (M)
Lundahl, W. N. (M)
Lyday, J. S. (A)
Maer, C. M., Jr. (A)
Marcinko, A. M. (A)
Messler, F. J. (M)
Metz, E. W., Jr. (A)
Meyer, D. E., Jr. (M)
Mielziner, W. (A)
Mintz, M. (A)
Missler, C. W. (M)
Moravec, C. T. (A)
Morrissey, T. G. (SM)
Morroni, D. J. (A)
Mulligan, M. A. (A)
Neff, R. W. (M)
Nelson, A. J. (SM)
Nissim, S. (M)
Nold, F. D. (M)
Norton, F. R. (SM)
Olson, C. G. (M)
Ostwald, L. T. (A)
Paige, A. E. (SM)
Parks, C. H. (M)
Parrish, V. L. (M)
Petterson, W. N., Jr. (M)
Pieper, G. E. (SM)
Pochop, D. R. (M)
Pope, A. E. (M)
Posakony, P. R. (M)
Pyle, J. C. (A)
Raymond, K. N. (A)
Reaser, R. R. (A)
Reno, H. (M)
Revilla, A. G. (M)
Rhoden, V. C., Jr. (A)
Robinson, M. E. (A)
Rosine, L. L. (A)
Ruehle, R. A. (A)
Rufus, D. (M)
Show, L. W. (A)
Shreve, T. S. (M)
Sims, J. C. (M)
Sjostrom, R. W. (M)
Smilley, J. D. (A)
Smith, W. F., Jr. (M)
Stephan, A. (M)
Sturgill, C. L. (M)
Swanson, R. E. (M)
Throop, L. L. (M)
Todd, F. J. (M)
Vance, E. F. (M)
Venditti, F. P. (M)
Vomund, L. E. (A)
Walter, J. H. (M)
Wang, C. S. (M)
Watson, J. E. (M)
Webb, R. C. (F)
Weeks, W. A., Jr. (M)
Weltz, M. R. (M)
Wickersham, P. D. (A)
Willard, J. H. (M)
Williams, A. I., Jr. (M)
Winters, J. D. (M)
Yaeger, T. E. (M)
Yarbrough, L. A. (M)
Zanboorie, M. H. (M)

Englewood (DEN-6)
Brownell, F. P., Jr. (A)
Chope, R. E. (A)
Cobbs, D. M. (M)
Dachtler, F. E. (A)
Dingman, E. H. (M)
Elms, J. C. (SM)
Hess, L. (A)
Moyer, F. I. (A)
Mueller, A. G. (A)
Sprengeler, D. F. (M)
Thaxton, H. A. (M)

Estes Park (DEN-6)
Davis, B. E. (SM)
Shideler, E. M. (SM)

Fort Carson (DEN-6)
Kilmer, D. E. (A)

Fort Collins (DEN-6)
Britton, C. C. (M)
Dean, J. E. (M)

Fort Morgan (DEN-6)
Doggett, J. W. (A)
Zambo, J. W. (M)

Gardner (DEN-6)
Sanborn, R. H. (A)

Glenwood Springs (DEN-6)
Baker, B. Z. (A)

Golden (DEN-6)
Coors, J. (A)
Fletcher, H. E. (SM)
[illegible] R. G. (M)
[illegible], R. L. (A)

Grand Junction (DEN-6)
Howell, R. G. (SM)
Lawton, K. G. (A)
McCormick, C. E. (A)
Van Houten, R. G. (M)

Greeley (DEN-6)
Baiamonte, F. L. (A)

Lakewood (DEN-6)
Cook, G. V. O. (M)
Daniels, R. G. (A)
Woodard, H. L. (A)

Littleton (DEN-6)
Anderson, M. F. (M)
Ayre, T. P. (M)
Bradt, A. J. (M)
Danner, R. V. (SM)
Davis, V. M. (SM)
Duddy, E. M., Jr. (A)
Elam, T. W. (A)
Eldridge, A. J. (SM)
Golding, L. N. (M)
Grassia, C. C. (A)
Gyger, C. E. (M)
Jensen, H. R. (M)
Jones, E. R., Jr. (A)
Kaaz, F. W. (M)
Mallory, G. L. (M)
Marizza, D. S. (A)
Maxwell, T. M., Jr. (SM)
Parish, M. L. (M)
Perrin, B. J. (M)
Rice, R. B. (A)
Robel, M. C. (M)
Schafer, H. G. (M)
Stewart, S. J. (A)
Washburne, B. P. (M)
Wilson, D. L. (A)
Wolfe, C. E. (A)
Wood, E. E. (M)

Loveland (DEN-6)
Kelley, E. K. (SM)

Pueblo (DEN-6)
Bullard, R. W. (M)
Scheafer, R. C. (M)

Salida (DEN-6)
Peay, L. W., Jr. (SM)
Stout, J. E. (A)

Westminster (DEN-6)
Dougherty, H. T. (M)

Wheat Ridge (DEN-6)
Forsman, E. H. (M)
Haase, A. H. (A)
Marshall, G. B. (M)
Wedge, T. E. (A)

CONNECTICUT

Avon (CON-1)
Boehm, A. R., Jr. (M)
Reilly, J. R. (M)
Whitney, C. A. (M)

Bethany (CON-1)
Lupoli, P. J. (M)

Bethel (CON-1)
Pearlman, L. S. (M)
Tuska, J. W. (M)
Warner, F. C. (M)

Bloomfield (CON-1)
Hall, G. M. (M)
Hendrickson, H. S. (A)
Von Kummer, F. G. (M)
Whitney, D. J. (M)

Branford (CON-1)
Tustin, W. (M)

Bridgeport (CON-1)
Arnold, K. F. (A)
Autuori, V. A. (M)
Calvert, T. J. (M)
Evans, R. E. (M)
Hartman, R. B., II (M)
Jensen, H. T. (A)
Koch, R. L. (M)
Kocsor, J. A. (A)
Lapinski, C. S. (A)
Lemkin, H. J. (A)
Loiacono, J. V. (M)
Mike, J. G. (A)
Mikusky, C. J. (A)
Nelson, R. A. (A)
Richard, R. L. (A)
Rosenberg, H. A. (A)
Schneider, E. J. (A)
Silverstone, D. M., (M)
Sweet, R. D. (A)
Von Behren, W. P. (SM)
Winquist, R. T. (M)
Ziller, M. A. (A)
Zucker, J. J. (A)

Bristol (CON-1)
Jones, M. C. (M)
Kavanaugh, R. J. (M)
Nelson, A. B. (SM)
Piantoni, G. L. (M)
Scherff, L. S. (M)
Snowdon, A. E. (SM)
Vaughan, E. W. (SM)

Broad Brook (CON-1)
Anderson, P. G. (M)
Carpenter, D. P. (M)
Lutz, C. H. (SM)
Main, R. C. (SM)
Van Etten, P. (A)

Brookfield (CON-1)
Gordon, T. M., Jr. (M)

Brooklyn (CON-1)
Halford, J. H., Jr. (M)
Vroom, E. (SM)

Canaan (CON-1)
Wildenberg, H. I. (A)

Central Village (CON-1)
Poremba, J. J. (M)

Cheshire (CON-1)
Gagnon, W. J. (A)
Hoffmann, G. O. (A)
Perrins, A. R. (M)
Rhein, G. W. (M)
Thomas, A. R. (A)
Warren, R. E. (M)
Wilson, S. L., Jr. (M)

Clinton (CON-1)
Passera, A. L. (M)

Colchester (CON-1)
Steg, R. C. (A)

Cos Cob (CON-1)
Bukowski, C. P. (M)
Caldwell, O. H., (F)
Fingerle, W., Jr. (SM)

Coventry (CON-1)
Moreau, A. (M)

Danbury (CON-1)
Arendt, E. J. (A)
Ashford, C. R. (A)
Boesch, A. H. (A)
Breden, W. W. (M)
Campbell, C. A. (M)
Concelman, C. W. (M)
Corcoran, G. J. (A)
Estelle, W. E. (M)
Henriques, J. B. (M)
Johns, N. H. (M)
Moran, J. H. (A)
Olha, W. R. (M)
Ott, O. J. (M)
Quattrocchi, V. F. (A)
Runyan, R. A. (M)
Schatzle, F. D. (A)
Van Valkenburg, H. E. (A)
Webb, R. H. (M)

Darien (CON-1)
Bartram, J. F. (M)
Bowley, R. J. (M)
Bozak, R. T. (SM)
Flower, G., Jr. (A)
Goodnow, A. C. (VA)
Hubbard, E. S. (M)
Kunkel, B. M. (M)
Mac Gregor, R. R. (M)
Mack, C. L. (M)
McElrath, G. (F)
Moffat, W. H. (SM)
Smith, P. B. (A)
Townsend, R. (M)

Derby (CON-1)
Clark, M. C. (M)
Keefe, E. M. (M)

Durham (CON-1)
Schilling, C. R. (M)

East Hartford (CON-1)
Aas, H. G. (M)
Gorton, R. E. (A)
Paquette, G. A. (A)
Plumridge, R. F. (A)
Searle, P. C. (M)

East Hartland (CON-1)
Neill, G. W. (M)

East Norwalk (CON-1)
Hamme, R. D. (M)
Karlson, E. L. (M)
Theall, C. E., Jr. (A)
Vancura, R. A. (M)
Warner, E. J. (SM)
Wegener, A. F. (M)
Yellin, H. (M)

Easton (CON-1)
Cummings, C. S., II, (A)

East Woodstock (CON-1)
Dixon, E. O. (SM)

Elmwood (CON-1)
Marchese, J. H. (M)

Enfield (CON-1)
Jackson, C. H. (SM)

Fairfield (CON-1)
Bishop, N. (SM)
Dellenbaugh, F. S. (M)
Di Mattia, A. L. (A)
Gilchrist, E. S. (M)
Mitchell, W. F. (A)
Paneyko, M. (M)
Roberts, F. W. (SM)
Torras, F. (M)

Farmington (CON-1)
Wood, R. H. (M)

Forestville (CON-1)
Dion, W. E. (SM)
Forman, J. (M)

Gales Ferry (CON-1)
Dugan, D. J. (M)
Henry, W. O. (A)

Georgetown (CON-1)
Le Fevre, P. E. (M)
Lyuta, G. R. (A)

Glastonbury (CON-1)
Humphrey, C. D. (A)
Swain, R. S. (A)
Taylor, D. S. (M)
Waterman, A. (M)

Glenbrook (CON-1)
Edmondson, R. H. (SM)
Lewis, S. M. (M)

Granby (CON-1)
Brockett, R. I. (A)
White, J. A. (M)
Ziegler, I. A. (M)

Greenwich (CON-1)
Anderson, W. C. (SM)
Burroughs, G. (M)
Fetherolf, J. M. (M)
Haanstra, J. W. (M)
Hallenbeck, R. A. (M)
Hollywood, J. M. (SM)
Johnston, H., IV. (M)
Kimes, R. A. (SM)
Mallory, H. R. (SM)
Marchand, N. (SM)
Michel, P. C. (SM)
Mills, C. A. (M)
Morse, J. L. (M)
Peterson, E. F. (M)
Petrucelly, V. J. (A)

Groton (CON-1)
Blaisdell, K. L. (SM)
Bowes, H. N. (SM)
Brooks, F. A., Jr. (M)
Comiskey, J. M. (A)
Fanelli, F. A. (M)
Latham, W. S. (M)
Leuze, W. F. (A)
Mali, P. (A)
Martinson, C. D. (A)
Matthews, C. I. (A)
Rose, A. E., Jr. (A)
Stephanz, G. H. (M)

Guilford (CON-1)
Fisher, E. H. (M)

Haddam (CON-1)
Smith, H. A. (A)

Hamden (CON-1)
Bogan, S. C. (M)
Davidson, R. B. (A)
Dunklee, W. F. (M)
Goclowski, C. F. (M)
Goldenthal, S. (M)
Hewitt, C. D. (M)
Hovey, D. P. (A)
Lyons, W. J., Jr. (M)
Mapes, T. J. (A)
McNamara, F. T. (M)
Meier, A. S. (M)
Quackenbush, E. C. (A)
Smith, R. E. (A)
Smoko, J. F. (A)
Stancliff, V. A. (M)

Hartford (CON-1)
Britton, R. C. (A)
Broderick, H. M., Jr. (M)
Coleman, G. A. (A)
Doolittle, F. M. (F)
Dorschug, H. A. (SM)
Duncan, E. T. (M)
Dungan, L. B. (A)
French, E. C. (M)
Latina, M. S. (A)
Lee, W. K. F. (M)
Lescarbeau, R. F. (M)
Lesinski, L. C. (M)
Mazurkiewicz, R. J. (A)
Moses, S. (M)
Piskor, J. (M)
Roth, W. (M)
Sapega, A. E. (M)
Shefrin, D. S. (M)
Shor, N. (M)
Stuber, P. (M)
Tuttle, R. W. (M)
Waffle, W. M. (M)
Ward, S. I. (A)
Woodward, R. W. (SM)

Hazardville (CON-1)
Kelly, G. E., Jr. (M)

Jewett City (CON-1)
Beckwith, W. B. (M)

Kensington (CON-1)
Dickon, A. J. (M)

Lebanon (CON-1)
Stocking, M. H. (A)

Ledyard (CON-1)
Dutton, F. L., Sr. (M)

Litchfield (CON-1)
Palmer, H. H. (A)
Zurich, W. G. (A)

Long Hill (CON-1)
Kaiser, A. (M)

Madison (CON-1)
Noland, J. H., Jr. (SM)

Manchester (CON-1)
Anderson, E. J. (M)
Anton, R. F. (M)
Baker, R. G. (A)
Billmyer, C. M. (M)
Dean, C. M. (M)
Martin, H. E. (M)
Mohr, W. L. (A)
Nicola, R. N. (M)
Penney, A. W. (A)
Preston, R. J. (M)
Rathburn, W. F. (M)
Russell, A. A., Jr. (M)
Schettler, R. B. (A)
Stanek, W. F. (A)

Torrance, J. H. (M)
Young, W. H., Jr. (A)

Meriden (CON-1)
Lavin, H. (M)
Wrinn, E. C., Jr. (M)

Merrow (CON-1)
Schwartz, R. E. (M)

Middlebury (CON-1)
Fulliero, R. (A)

Middletown (CON-1)
Heinzmann, J. D. (A)
Snow, C. A., Jr. (M)
Thompson, L. (SM)
Tuccio, M. S. (A)
Van Dyke, K. S., (F)

Milford (CON-1)
Baldwin, A. L., Jr. (M)
Cutler, L. H. (M)
Eaton, W. W. (SM)
Guyton, B. T. (A)
Jamison, A. F. (M)
Kelly, T. F. (A)
Kurnik, J. G. (M)
Lyman, H. T. (SM)
Malecki, A. S. (A)
Moffitt, G. R., Jr. (M)
Weinberg, D. I. (M)

Monroe (CON-1)
Tavella, R. P. (A)

Mount Carmel (CON-1)
Pagano, E. L. (M)

Mystic (CON-1)
Cook, D. R. (M)
Kirby, T. H. (SM)
Pryor, W. L., Jr. (SM)

New Britain (CON-1)
Sienkiewicz, H. S. (A)

New Canaan (CON-1)
Bancroft, C. (A)
Benedict, T. W. (M)
Bliss, W. R. (M)
Canepa, M. (A)
Castle, D. H. (SM)
Conron, G. F. (M)
Conron, W. H. (SM)
Farwell, R. P. (M)
Johnson, J. K. (F)
Lebel, J. D. (M)
Offenhauser, W. H., Jr. (A)
Sutherland, E. F. (A)
Walker, J. B. (M)

New Hartford (CON-1)
Black, J. E. (M)

New Haven (CON-1)
Bergmann, H. M. (M)
Black, D. G., Jr. (SM)
Bobak, E. T. (A)
Bradley, K. M. (A)
Breit, G. (F)
Bridges, W. S. (A)
Cannon, J. F. (M)
Carlson, E. F. (M)
Conrad, A. G. (SM)
Cunningham, W. J. (M)
Curtis, R. C. (SM)
Genera, V. A. (A)
Grew, L. B. (SM)
Hall, B. A. (M)
Hon, E. H. G. (M)
Izenour, G. C. (M)
Jacobson, E. R. (M)
Kelly, H. S. (A)
Krauss, H. L. (SM)
Mauro, A. (A)
May, J. C. (SM)
Millard, A. M. (SM)
Murray, G. J., Jr. (M)
Ordung, P. F. (SM)
Paramithas, C. P. (M)
Reich, H. J. (F)
Rohloff, H. E. (SM)
Roth, R. S. (A)
Rubin, H. B. (VA)
Schultheiss, P. M. (M)
Shank, R. R. (M)
Skalnik, J. G. (M)
Sundis, H. W. (SM)
Thomas, L. E., Jr. (A)
Turner, H. M. (F)
Tuteur, F. B. (M)
Usher, T., Jr. (M)
Utting, G. R. (M)
Wadhams, S. C. (M)
Wessenberg, H. W. (A)
Wogrin, C. A. (M)
Zweig, F. (M)

Newington (CON-1)
Bilharz, O. W., Jr. (A)
Bliss, P. (SM)
Cenci, A. A. (M)
Lewczyk, E. A. (M)

New London (CON-1)
Adams, W. S., Jr. (M)
Buttery, R. N. (A)
Calabrese, J. F. (M)
Cole, P. P. (M)
Gannon, E. C. (M)
Hazard, W. R. (M)
Hoag, J. B. (SM)
Horton, J. W. (F)
Ide, J. M. (SM)
Kamens, B. R. (SM)
Merrill, J. (M)
Miller, K. K. (M)
Nash, H. E. (SM)
Newlin, T. G. (A)
Ruble, H. E. (SM)
Sibold, A. P., Jr. (M)
Sussman, H. (SM)
Turner, R. W. (M)
Videberg, J. I. (SM)
Westervelt, R. A. (M)
Whiteside, R. E. (M)
Woollett, R. S. (A)

New Milford (CON-1)
Rowley, W. E., Jr. (A)

Newtown (CON-1)
Du Bois, R. O., Jr. (A)
Finch, W. G. H. (F)
Henry, E. A. (M)

Niantic (CON-1)
Bishop, H. M. (M)
Saars, W. F. (M)
Sunega, E. M. (A)
Wilkes, R. C. (A)

Noroton Heights (CON-1)
Becker, J. P. (M)
Horan, J. J. (M)
Mason, H. L. (A)

North Branford (CON-1)
Johnstone, P. N. (M)

Northford (CON-1)
Baker, R. R. (A)

North Haven (CON-1)
Barker, R. C. (M)
Stone, F. A. (M)
Valley, R. A. (M)

North Madison (CON-1)
Fountain, H. F. (M)

North Stamford (CON-1)
Doolittle, H. D. (M)
Rabin, R. (M)

North Woodbury (CON-1)
Petit, F. W. (M)

Norwalk (CON-1)
Barr, F. M. (M)
Beattie, J. M. (M)
Bertram, J. J. (A)
Bruntil, I. M. (M)
Buckley, R. E. (M)
Countermash, L. E. (A)
Curtiss, R. H. (A)
Darnsteadt, A. L. (M)
Georgi, E. A., Jr. (A)
Grimstad, E. J. (A)
Kay, M. (M)
Levy, E., Jr. (M)
Mehr, M. H. (M)
Miller, E. F. (M)
Miller, T. W. (M)
Muchnick, P. (M)
Neuman, G. J. (M)
Polak, R. (A)
Poland, W. L. (A)
Pritkin, L. (A)
Rodgers, L. M. (SM)
Scherer, B. L. (M)
Shea, J. E. (M)
Slaker, F. A. (A)
Smith, P. J. (M)
Smith-Vanis, W. R., Jr. (M)
Stein, H. S. (M)
Teichman, S. (M)
Tulgan, S. S. (M)
Williamson, R. G. (M)
Wines, W. R. (M)
Woodcock, E. L. (SM)
Young, F. W. (M)

Norwich (CON-1)
Anson, Y. (A)
Dolan, O. F. (M)
Howland, G. H. (M)
Keltonic, F. J. (A)

Oakdale (CON-1)
Whannel, R. L. (M)

Old Greenwich (CON-1)
Cassidy, J. J., Jr. (M)
Fenn, W. W. (M)
Fulton, O. H., Jr. (M)
Harrington, R. H., Jr. (A)
Harris, J. S. (SM)
Janik, C. L. (A)
Murphy, J. L. (SM)
Palmer, J. H. (A)

Old Lyme (CON-1)
Haglund, B. R. (A)
Webb, H. R. (M)

Old Saybrook (CON-1)
McBrian, J. E. (M)
Radom, R. (M)

Orange (CON-1)
Riccio, L. A. (A)

Pawcatuck (CON-1)
Crandall, C. P., Jr. (M)

Plainville (CON-1)
Cutler, M. A. (A)

Plantsville (CON-1)
Thayer, D. C. (A)

Pomfret (CON-1)
Ferguson, D. A. (A)

Portland (CON-1)
Puida, A. H. (A)

Putnam (CON-1)
Bernier, E. J. (M)
Bosworth, C. D. (A)
Bove, K. G. (M)
Roller, E. R. (A)

Quaker Hill (CON-1)
Coogan, E. A. (M)
Gubin, S. (SM)
Scannell, E. H., Jr. (A)
Sentell, F. N. (M)

Redding Ridge (CON-1)
Rand, P. S. (SM)

Ridgefield (CON-1)
Baker, J. H., Jr. (M)
Becker, H. R. (A)
Corey, C. P. (A)
Darois, P. F. (A)
De Chambrier, P. (M)
Delany, E. B. (M)
Doll, H-G. (SM)
Ferre, M. C. (M)
Gouyet, J-P. J. (M)
Grant, M. L. (A)
Harry, J. B. (A)
Heller, J. H. (A)
Hering, K. W. (M)
Kunz, K. S. (M)
Magnin, J. P. (M)
Miller, G. K. (SM)
Rhyins, R. W. (M)
Segesman, F. F. (M)
Shogren, J. (A)
Sloughter, G. S. (SM)
Sloughter, W. J. (SM)
Weiss, H. R. (M)
Williams, G. C. (A)

Riverside (CON-1)
Baake, D. W. (M)
Burns, R. F. (A)
Didriksen, J. B. (A)
Ellsworth, W. C. (SM)
Huckel, O. W., Jr. (A)
Lessen, M. (M)
Ryan, W. R. (M)
Service, C. W. (M)

Rockville (CON-1)
Langdon, D. H. (M)
Schneider, R. W. (A)
Warren, J. A. (M)

Rocky Hill (CON-1)
Friedman, S. (SM)

Rowayton (CON-1)
Frederick, R. E., Jr. (M)
Davis, R. H. (A)

Roxbury (CON-1)
Farr, H. K. (SM)

Saugatuck (CON-1)
Van Der Veen, H. (VA)

Seymour (CON-1)
Dana, A. S. (SM)
Fryncko, P. (M)

Shelton (CON-1)
Ajello, E. M. (M)
Zaskalicky, J. J. (M)

Short Beach (CON-1)
Maki, C. E. (M)

Simsbury (CON-1)
Gross, E. D. P., Jr. (A)
Ogle, J. D. (A)
Schulz, H. R. (SM)
Shinn, C. E. (SM)
Somers, B. A. (M)

South Coventry (CON-1)
Knapp, C. H. (A)

South Glastonbury (CON-1)
Babineau, E. A., Jr. (M)

Southington (CON-1)
Perkins, R. W. (A)
Raymond, G. H. (SM)

South Norwalk (CON-1)
Agule, G. J. (A)
Beltz, G. E. (M)
Benson, K. B. (M)
Bernard, P. (A)
Duncan, H. S. (SM)
Fenaughty, A. L. (M)
Ferguson, H. F. (M)
Flores, I. (SM)
Helterline, L. L., Jr. (M)
Jones, J. O. (M)
Karg, L. A. (A)
Kohn, S. T. (M)
Lamb, J. J. (F)
Norton, C. A. (SM)
Randmer, J. A. (SM)
Rothlein, B. J. (SM)
Youden, R. H. (A)

Southport (CON-1)
Armstrong, C. W. (M)
Bachman, W. S. (F)
Carr, F. P., Jr. (M)
Lowdenslager, J. R. (A)

Springdale (CON-1)
Buegler, R. J. (M)
Couch, W. M., Jr. (M)
Gluck, J. (A)
Klyce, B. H. (SM)
Leferson, J. (A)
Newman, R. W. (M)
Schmidt, E. (M)
Spurck, R. F. (A)
Townsend, F. H. (SM)
Weden, C. V., Jr. (M)
Yanagisawa, S. T. (SM)

Stamford (CON-1)
Allen, T. F. (M)
Anderson, J. L. (A)
Artuso, N. F. (M)
Baker, G. W. (M)
Barrett, E. T. (M)
Basim, D. S. (SM)
Branson, N. G. (M)
Brown, W. J. (SM)
Brunhart, W. (A)
Chaikind, S. L. (M)
Chou, W. W. (M)
Courchene, E. E., Jr. (M)
Couturier, R. A. (M)
Cunniff, J. F. (A)
Dagostino, V. L. (A)
Devaney, R. J. (M)
Eisenbeis, G. W. (A)
Evans, J. (A)
Feldman, S. I. (M)
Feldner, Louis (A)
Flynn, T. F. (M)
Geist, H. J. (SM)
Gheorghiu, P. (M)
Gorn, M. (SM)
Grayson, G. (M)
Greenwood, I. A., Jr. (M)
Gutterman, A. Z. (M)
Halpern, H. S. (M)
Higgins, J. N. (A)
Hoehn, A. F. (M)
Holloway, H. R. (M)
Jackson, M. L. (M)
Kaufman, A. L. (A)
Kiser, J. L. (SM)
Kramer, A. (M)
Krauss, R. (A)
Kronenberg, M. H. (SM)
Leftwich, R. F. (A)
Lent, E. L., Jr. (A)
Maltais, W. E. (SM)
Maple, T. G. (M)
McCarroll, J. F., Jr. (M)
Meyer, L., Jr. (M)
Molday, B. V. (SM)
Oefinger, H. C. (A)
Ostendorf, B. (M)
Plehaty, S. L. (A)
Pratt, H. (F)
Ramage, W. W. (A)
Reitman, J. (M)
Rendell, G. (M)
Roggenstein, E. O. (M)
Rosenblatt, P. (M)
Ruddock, W. F. (M)
Sackler, A. A. (M)
Salzman, C. F., Jr. (M)
Sanders, M. (M)
Schermer, D. (M)
Schlesinger, E. R. (M)
Schwarz, F. (M)
Seidler, S. W. (M)
Shapiro, J. M. (SM)
Silver, N. (A)
Singer, E. (M)
Skehan, J. W. (M)
Sontheimer, C. G. (M)
Sprague, R. E. (M)
Steinberg, E. B. (SM)
Stiasny, R. (M)
Stockman, W. E. (M)
Trott, B. S. (SM)
Veremakis, C. (A)
Wachowski, H. P. (A)
Wahlberg, E. C. (A)
Watts, D. E. (M)
Weiner, S. L. (M)
Wesley, C. A. (M)
Wilder, M. P. (SM)
Wischnia, H. F. (M)
Wright, R. E. (M)
Yaeger, V. M. (M)

Stepney (CON-1)
Weller, B. L. (M)

Stonington (CON-1)
York, E. P. (A)

Storrs (CON-1)
Crompton, R. H. (M)
Haas, V. B., Jr. (M)
Knauss, H. P. (M)
Kochenburger, R. J. (SM)
Lindorff, D. P. (M)
Lucal, H. M. (M)
Lof, J. L. C. (SM)
Schultz, C. W. (M)
Sherman, J. (A)
Timoshenko, G. S. (SM)

Stratford (CON-1)
Andrukevich, G. J. (A)
Craig, G. F. (SM)
Detar, D. R. (SM)
Fox, F. J. (M)
Hubbard, R. G., Jr. (M)
Keough, E. C. (A)
Nelson, E. P. (SM)
Ryckman, W. D., Jr. (M)
Simko, R. S. (A)

Talcottville (CON-1)
Howard, L. L. (M)

Terryville (CON-1)
Krenicki, J. (M)

Thomaston (CON-1)
Reynolds, A. C., Jr. (M)

Thompsonville (CON-1)
Cohen, I. (A)
Tavidian, E. (M)
Vesce, A. J. (A)

Tolland (CON-1)
Weston, F. B. (VA)

Torrington (CON-1)
Gerbi, H. S. (M)
Silver, L. (A)
Wilczenski, A. M. (A)

Trumbull (CON-1)
Balogh, J. J., Jr. (A)
Dresser, W. R. (SM)
Howard, N. S. (A)
Kojalowicz, A. M. (M)
Ragonese, F. L. (A)
Schiro, A. J. (A)
Schweitz, E. P. (A)
Zahn, E. (M)

Unionville (CON-1)
Skret, F. J. (A)

Wallingford (CON-1)
Brazee, J. A. (M)
Davis, R. B., Jr. (A)
Hoff, P. T. (M)
Mac Donald, D. H. (A)
Palmero, A. (M)
Schaefer, R. W. (A)

Wapping (CON-1)
Cronin, C. E. (M)
Lehr, O. A. (A)
Stoker, W. C. (SM)

Warehouse Point (CON-1)
Hurley, A. F. (A)

Waterbury (CON-1)
Baltrush, J. J., Jr. (A)
Biamonte, R. L. (M)
Boisvert, G. R. (M)
Busby, A. E. (A)
Cannizzaro, M. (M)
Koren, S. (SM)
Hales, F. B. (M)
McLeod, K. A. (A)
McNellis, J. F., III (M)
Migliaro, B. J. (A)
Pannullo, F. T. (A)
Pesce, W. J. (A)
Pichard, L. A. (SM)
Platt, F. L., Jr. (A)
Quinn, Q. Q. (M)
Roszkowski, G. J. (A)
Sollie, S. A. (SM)
Somers, D. L. (M)
Staneseki, W. (M)
Winchell, A. M. (SM)

Waterford (CON-1)
Dunn, C. M. (M)
Haefner, S. J. (SM)
Hendry, E. F. (M)
Henrikson, F. R. (M)
Jellerson, F. R. (M)
Jucksch, W. J. (M)
Ruff, J. A. (A)
Stevens, A. M., Jr. (A)
Weatherlow, H. R. (A)

Waterford (CON-1)
White, D. M. (M)
Wilms, H. J., Jr. (M)

Watertown (CON-1)
Shaw, N. C. (M)

Weatogue (CON-1)
Hildebrandt, W. J. (M)

West Hartford (CON-1)
Andersen, W. A. (M)
Bean, H. C., Jr. (M)
Bourret, C. J. (M)
Chase, A. E. (A)
Ferla, S. J. (M)
Frame, N. R., Jr. (M)
Galin, J. L. (M)
Grammer, G. (A)
Handy, F. E. (M)
Handy, R. A. (A)
Harris, D. J. (M)
Hatton, A. T. (A)
Holland, J. H. (M)
Jopson, J. L. (M)
Kendall, D. E. (M)
Lalanne, R. L. (A)
Perkins, W. W. (SM)
Rich, L. G. (M)
Smith, N. F., Jr. (SM)
Southworth, M. P. (M)
Stanley, P. F. (M)
Suiters, C. W. (A)
Warner, S. E. (SM)
Williams, H. V. (A)
Witte, R. (M)
Zaslow, J. (M)

West Haven (CON-1)
Corvari, J. (M)
Cozeter, G. W. (M)
Kricek, J. V. (A)

Weston (CON-1)
Chadwick, M. P. (SM)

Westport (CON-1)
Copp, W. C. (M)
Etlinger, L. (SM)
Gaffney, F. J. (F)
Haggott, J. C. (A)
Levine, S. (M)
Mason, F. G. (A)
Northrop, R. B. (M)
Rackey, C. A. (SM)
Roshkind, H. (M)
Steinhardt, L. (A)
Stone, C. G., Jr. (M)
Swift, W. C. G. (A)
Van Delft, R. N. (M)

West Redding (CON-1)
Rahal, N. S. (M)

Wethersfield (CON-1)
Beal, E. W. (M)
Bernard, D. T. (A)
Harden, L. R. (A)
House, L. G. (M)
Manganelli, F. D., Jr. (M)
Mitchell, J. A. (M)
Santucci, A. H. (M)
Strempfer, W. L. (A)

Wilton (CON-1)
Dibner, D. (M)
Dupre, H. P. (M)
Eratad, J. (M)
Levick, H. (M)
Riley, A. J. (M)
Ruckstuhl, C. E., Jr. (M)
Small, L. (A)
Van Collie, H. A. (A)

Windham Center (CON-1)
Miller, A. C. (SM)

Windsor (CON-1)
Amboe, R. G. (A)
Deranian, M. (A)
Hamlin, J. W. (M)
Harrington, C. F., Jr. (M)

Intagliata, S. J. (A)
Nelson, G. E. (M)
Norkin, H. (M)
Seville, A. R. (M)
Shoham, R. (M)
Van Vliet, W. G. (A)

Windsor Locks (CON-1)
Gray, N. L. (M)
Henry, W. L. (M)
Kidwell, N. E. (M)

Winsted (CON-1)
Bolus, J. J. (M)

Woodbridge (CON-1)
Korper, G. W., Jr. (M)
Light, R. J. (M)
Montgomery, R. H., Jr. (A)

Woodbury (CON-1)
Harris, W. T. (SM)
Nye, J. R. (SM)
Watson, R. R. (A)

DELAWARE

Claymont (PHI-3)
Da Grosa, V. (A)
McEowen, J. R. (M)

Greenville (PHI-3)
Tribou, P. W. (M)

Hockessin (PHI-3)
Morris, J. M. (SM)

Lewes (PHI-3)
Bierwirth, R. A. (M)

Magnolia (PHI-3)
Donze, D. W. (M)

Marshallton (PHI-3)
Hill, C. A. (A)

Milford (PHI-3)
Drummond, W. D. (A)

Newark (PHI-3)
Albright, C. M., Jr. (M)
Bolgiano, L. P., Jr. (M)
Dell, C. G. (M)
Freeman, L. A. (M)
Hellerman, H. (M)
Lutz, B. C. (M)
McClure, R. W. (A)
Van Name, F. W., Jr. (SM)
Young, M. G. (SM)

New Castle (PHI-3)
Hampton, L. R. (A)
Miller, R. H. (M)
Powers, E. N. (M)

Newport (PHI-3)
Rick, C. E. (A)

Wilmington (PHI-3)
Bauman, M. C. (M)
Bowyer, K. M. (A)
Burke, R. H. (M)
Carter, E. P. (M)
Conner, H. G. (A)
Cushing, C. J. (M)
Dills, W. L. (M)
Faulhaber, M. E. (M)
Gallagher, G. J. (A)
Graebe, R. H. (M)
Hughes, R. M. (A)
Kelly, N. B. (M)
Liddicoat, C. A. (M)
Lovett, R. S. (M)
Mandas, J. J. (M)
McDaniel, F. (M)
McMillen, R. C. (SM)
Meyer, G. E. (A)
Moore, J. T., Jr. (A)
Myette, R. F. (A)
Noonburg, W. I., Jr. (A)
Owens, J. E. (A)
Paris, R. (A)
Pastell, D. L. (M)
Perkins, J. R. (SM)
Seer, H. G. (M)
Shashoua, F. E. (M)
Swarter, P. H., Jr. (A)
Swearer, H. F. (M)
Walsh, R. R. (A)
Weir, D. G. (M)
Williams, T. R. (M)
Yetter, E. W. (M)

DISTRICT OF COLUMBIA

Anacostia (W-DC-3)
Riccobono, S. (VA)

Washington (W-DC-3)
Abraham, G. (M)
Adair, G. P. (F)
Adams, R. J. (SM)
Albertson, F. W. (SM)
Alexander, L. K. (A)
Algor, M. M. (M)
Allen, J. H. (SM)
Allen, P. J. (SM)
Allman, F. L. (VA)
Altomare, R. E. (M)
Ament, W. S. (SM)
Anders, F. W. (M)
Anderson, D. J. (SM)
Anderson, L. D. (M)
Anderson, R. V. (M)
Anderson, W. R. (A)
Andrew, W. M. (M)
Andrias, J. (M)
Ankney, L. J. (A)
Anthony, A. R. (M)
Antonov, A. F. (A)
Apfelbeck, C. A. (A)
Apuli, J. A. (SM)
Arnett, H. D. (SM)
Attmore, R. G. (M)
Awramik, J., Jr. (M)
Bagg, T. C. (M)
Bailey, S. L. (F)
Bailey, S. O. (M)
Bain, W. F. (M)
Baker, A. L. (M)
Ball, N. T. (SM)
Bank, W. J. (M)
Barker, D. E. (M)
Barlow, G. E. (A)
Barnes, L. L. (A)
Bass, C. A. (M)
Bauer, P. S. (VA)
Baughn, C. E. (M)
Bearce, L. S. (A)
Beasley, W. A. (SM)
Beck, C. L. (A)
Beck, H. M. (M)
Beers, R. H. (M)
Begue, G. P. (M)
Behrens, W. V. (M)
Belcher, H. P. (A)
Bell, A. E. (M)
Bell, R. R. (M)
Bengston, P. S. (A)
Benjamin, V. E. (M)
Benns, W. E., Jr. (M)
Benton, L. A. (M)
Berg, E. A. (M)
Berg, W. B., Jr. (M)
Bergeson, A. H. (SM)
Bernard, W. B. (SM)
Bethge, C. E. (M)
Birmingham, H. P. (SM)
Black, C. J. (M)
Black, R. R. (SM)
Blake, L. V. (M)
Blumberg, W. J. (A)
Boesch, P. W. (A)
Bohnert, J. I. (SM)
Bonham, L. L. (M)
Booth, R. M., Jr. (M)
Bostick, B. E. (M)
Bourland, L. T. (SM)
Boymel, B. R. (SM)
Brady, F. B. (SM)
Brantley, W. W. (M)
Breen, J. M. (A)
Breetz, L. D. (SM)
Brenner, M. (M)
Brester, W. A. (VA)
Britt, T. C. (A)
Brittle, D. F. (M)
Brody, H. I. (A)
Brodsinsky, A. (M)
Brogden, J. W. (SM)
Brown, H. E. (A)
Brown, H. W. (SM)
Brown, R. M. (M)
Brown, S. R. (M)
Brown, T. H. (VA)
Brown, W. M. (M)
Bryant, F. B. (M)
Buck, C. U., Jr. (A)
Buckberg, M. L. (M)
Bullington, E. W. (M)
Bullock, G. M. (M)
Bullock, R. N. (M)
Bumpus, W. W. (M)
Bundy, C. W. (SM)
Burke, A. A. (SM)
Burkett, J. A. (M)
Burns, R. O. (SM)
Butenhoff, R. L. (M)
Butt, H. R. (M)
Byers, J. N. (A)
Callaway, H. D. (M)
Campagna, J. H. (SM)
Campanella, S. J. (M)
Campbell, W. B. (SM)
Cantor, J. M. (M)
Cappa, R. G. (M)
Carnes, W. T., Jr. (SM)
Carpenter, H. E., Jr. (M)
Carpenter, M. B. (M)
Carpenter, R. A. (A)
Cauffman, J. A. (M)
Celander, B. (A)
Chait, H. N. (A)
Chan, W. K. W. (A)
Chappuis, C. K. (SM)
Chernikoff, R. (M)
Chi, A. R. (M)
Chin, J. W. (A)
Chorafas, D. N. (M)
Chrzanowski, P. (SM)
Clark, H. L. (M)
Clark, J. F. (SM)
Clark, N. M. (M)
Clarke, A. S. (SM)
Clarke, F. H. (SM)
Clasen, S. M. (M)
Claydon, R. G. (A)
Cleeton, C. E. (F)
Clement, L. M. (F)
Clements, S. E. (SM)
Clemons, T. C., Jr. (A)
Coates, R. J. (SM)
Codel, M. (M)
Cohen, L. R. (M)
Colaianni, J. V. (M)
Colligan, F. S. (A)
Combellick, T. A. (SM)
Conley, P. (M)
Conrad, G. T., Jr. (M)
Conroy, R. J. (M)
Corkill, J. F. (M)
Cosby, L. A. (M)
Cotton, A. F. R. (SM)
Countryman, G. L. (SM)
Cranshaw, R. H. (A)
Craven, T. A. M. (F)
Crenca, J. J. (M)
Crenshaw, C. M. (SM)
Creveling, C. J. (SM)
Crickman, C. W. (M)
Croarkin, J. A. (M)
Cubbage, H. D. (M)
Cullen, F. H. (A)
Culver, R. H. (M)
Cumings, R. G. (M)
Cummings, C. I. (SM)
Cunningham, J. A. (M)
Cushing, R. E. (M)
Daigle, E. J., Jr. (M)
Dame, A. M. (M)
Damelin, J. (A)
Darne, F. R. (M)
Daubenheyer, H. W. (M)
Davies, R. C. (M)
Davis, B. L. (SM)
Davis, G. C. (SM)
Davis, T. M. (F)
Davis, W. J. (A)
Davis, W. L. (M)
Dawson, L. R. (SM)
Dawson, W. C. (A)
Day, H. M. (M)
Decker, K. M. (M)
Dellinger, J. H. (F)
De Millis, J. (A)
De Moraes, J. L. S. (M)
Demuth, H. P. (M)
Depian, L. (SM)
Diavatis, N. D. (A)
Dickinson, P. C. (M)
Diels, J. C. (M)
Dillard, E. L. (A)
Di Masso, R. T. (A)
Dinger, H. E. (F)
Dinnick, G. M. (M)
Doane, J. E. (SM)
Doctor, N. J. (M)
Dodrill, G. E. (SM)
Dohne, C. F. (M)
Donovan, P. F. (M)
Doong, H. (M)
Doring, R. C. (A)
Dorrell, R. E. (SM)
Dorsey, H. G. (F)
Draper, C. A. (M)
Dressin, S. A. (M)
Dropkin, H. A. (M)
Dubesteanu, I. (A)
Duncan, F. B. (M)
Duncanson, A. B. (A)
Duning, K. E. W. (M)
Easton, R. L. (M)
Elbourn, R. D. (M)
Ellerman, K. E. (A)
Elliott, H. H., Jr. (M)
Ellis, B. J. (M)
Engleman, C. L. (F)
Ennis, A. G. (M)
Eustace, R. J. (M)
Evalle, A. S. (A)
Falk, M. B. (A)
Falvey, J. P. (M)
Fedak, J. (M)
Fedak, J. (M)
Femiano, D. J. (A)
Fetridge, P. V. S. (A)
Fine, H. (M)
Finney, W. J. (SM)
Fleming, H. D. (M)
Fleming, J. J. (M)
Floegel, M. E. (A)
Flores, R. A. (M)
Fluhr, F. R. (M)
Flynn, J. E. (A)
Fogelman, A. H. (M)
Forrest, H. S. (SM)
Franklin, P. J. (SM)
Franks, H. J., Jr. (M)
Franta, A. L. (M)
Fratianni, S. V. (SM)
Fraumann, J. W. (A)
Frazier, H. S. (SM)
Friedman, D. C. (A)
Friedman, G. E. (M)
Friel, F. J., Jr. (VA)
Fuller, I. W., Jr. (M)
Fulper, R., Jr. (M)
Gabriel, W. F. (M)
Galane, I. B. (SM)
Galicinao, I. Y. (A)
Gall, J. E. (VA)
Gallant, C. J. (A)
Gancie, J. J. (A)
Garcia, S. C. (M)
Gautney, G. E. (M)
Gayle, A. (M)
Gaylord, R. E. (M)
Gaze, R. H. (M)
Gebhard, L. A. (F)
Gentry, K. M. (SM)
George, S. F. (SM)
Gephart, C. L. (M)
Gerber, H. (M)
Gerharz, R. J. (SM)
Geriach, H. W. A. (SM)
Gerstenberg, H. M. (M)
Gibson, R. G. (M)
Gieseler, W. L. (A)
Gignoux, F. E., Jr. (A)
Gilbert, L. H. (VA)
Gillette, K. G. (M)
Gleason, R. F. (M)
Gnau, D. V. (A)
Goldberg, H. (F)
Golden, T. S., Jr. (SM)
Good, C. A., Jr. (M)
Gordon, S. H. (M)
Gould, M. J. (SM)
Graettinger, W. F. (A)
Graham, H. U. (SM)
Graves, F. V. (A)
Greathouse, D. E. (A)
Grebenke, C. J. (SM)
Green, W. C. (VA)
Greene, R. M. (M)
Greer, J. W. (SM)
Gregory, C. M. (A)
Grider, J. M. (M)
Griffith, K. E. (M)
Grobowski, Z. V. (SM)
Groverman, A. B. (M)
Guarino, P. A. (SM)
Gulledge, D. B. (A)
Gunn, R. (F)
Gunshinan, T. B. (M)
Gustafson, C. E. (A)
Guthrie, F. P. (SM)
Guthrie, R. C. (M)
Hall, W. H. C. (M)
Hamilton, C. R. (SM)
Hamrick, J. D. (M)
Hanley, T. E. (SM)
Harris, D. S. (M)
Harris, F. D. (A)
Harris, W. P. (M)
Harrison, J. H. (A)
Harter, J. R. R. (M)
Hastings, H. F. (SM)
Hayden, L. O. (M)
Haynes, A. P. (A)
Hays, N. P. (M)
Hazelwood, C. A. (A)
Head, H. T. (SM)
Hearn, O. E. (SM)
Hedge, L. B. (M)
Hemenway, D. F. (M)
Henning, J. C., III (M)
Henry, W. O. (M)
Henson, R. F. (A)
Hepler, D. S. (M)
Herbert, T. O. (M)
Herman, H. (M)
Herman, J. (SM)
Herndon, P. H., Jr. (SM)
Herre, J. (M)
Herson, J. L. (M)
Hicks, J. M. (M)
Higgins, R. E. (M)
Hill, A. G. (F)
Hill, J. H. (M)
Hill, R. L. (M)
Hilsabeck, D. A., Jr. (M)
Hobbis, C. E. W. (M)
Hodges, M. F. (SM)
Hoggarth, K. G. (A)
Hooker, R. H. (A)
Horman, F. L. (M)
Horne, R. C., Jr. (SM)
Howard, D. D. (SM)
Howard, E. G. (M)
Howe, W. E. W. (SM)
Hunt, C. M. (SM)
Huntoon, R. D. (F)
Hurvitz, H. (M)
Hymowitz, E. W. (M)
Ihnat, J. (M)
Ingles, H. C. (SM)
Irons, H. R. (A)
Irvine, J. S. (M)
Isaacson, S. (M)
Iwai, K. G. (A)
Jacocks, T. B. (SM)
Jaffe, G. (M)
James, G. E. (SM)
Jansky, C. M., Jr. (F)
Jansky, M. M. (M)
Jenkins, W. J. (M)
Jensen, H. R. (M)
Jesswein, A. J., Jr. (A)
Joffe, N. (M)
Johansen, G. N. (SM)
Johnson, C. V. (M)
Johnson, S. F. (M)
Jones, C. T. (A)
Jones, H. S., Jr. (M)
Jones, U. T. (A)
Julian, O. K. (M)
Kahler, F. C. (SM)
Kain, J. (M)
Kaiser, H. F. (A)
Kales, M. L. (M)
Kalmus, H. P. (F)
Kaputa, E. J. (M)
Katz, R. E. (SM)
Katsin, M. (F)
Kaufman, J. (SM)
Kaufman, M. G. (SM)
Keachie, J. H. (SM)
Kear, F. G. (F)
Keating, C., Jr. (M)
Keller, J. E. (M)
Kellerman, K. F. (SM)
Kelly, J. J. (M)
Kennedy, R. L. (SM)
Kershner, S. W. (M)
Killian, T. J. (F)
King, A. F. (A)
King, A. M. (M)
King, E. S. (M)
King, W. J. (M)
Kinsey, L. F. (M)
Kirby, P. S. (A)
Kirshner, J. M. (A)
Klass, P. J. (M)
Knight, G. L. (M)
Knox, C. B. (A)
Kohler, H. W. (SM)
Kolkedy, J. G. (M)
Kouchnerkavich, T. A. (M)
Kraker, D. I. (M)
Kramer, E. A. (M)
Kramer, E. R. (A)
Kroll, W. M. (A)
Krupen, P. (SM)
Kube, H. D. (A)
Kuch, B. L. (M)
Kuder, M. L. (A)
Kuhnle, R. C. (A)
Kuilback, S. (A)
Kurner, C. J. (M)
Kyser, R. H. (M)
Laker, E. F. (A)
Lantz, P. A. (SM)
Larison, J. F. (A)
Lapham, E. G. (SM)
Lawsine, L. (M)
Leavitt, W. E. (M)
Ledley, R. S. (M)
Lee, F. M. (A)
Lee, F. P., Jr. (A)
Leftwich, L. L. (M)
Leidy, K. L. (M)
Leinbach, H. J., Jr. (M)
Leiner, A. L. (M)
Leiphart, J. P. C. (M)
Leone, J. M. (M)
Lepchinsky, C. R. (M)
Leppert, M. L. (M)
Lesko, N. J. (A)
Le Tellier, J. M. (M)
Levine, I. (SM)
Lewis, J. E. (M)
Lieberman, T. (A)
Light, L. (M)
Lilmatainen, T. (SM)
Link, J. C. (SM)
Link, J. H. (A)
Lipscomb, J. L. (A)
Liss, F. T. (A)
Little, R. P. (M)
Loeber, C. W. (SM)
Lohnes, G. M. (SM)
Lombardo, A. (A)
Looney, C. H., Jr. (M)
Lorentz, E. F. (M)
Lorenzen, H. O. (M)
Loucks, P. G. (M)
Lovell, W. A. (M)
Lowe, M. J., Jr. (A)
Lubore, S. H. (M)
Lucid, J. R. (M)
Luecker, G. (M)
Luttrell, N. H., Jr. (A)
Mabry, J. H. (A)
Macneill, R. K. (A)
Maddox, C. H. (SM)
Maiden, R. M. (SM)
Manning, J. R. (M)
Mantek, P. A. (A)
March, J. W., Jr. (A)
Marini, J. W. (A)
Martin, J. F. (M)
Martin, K. L. (A)
Martin, P. J. (M)
Martin, S. (M)
Marzullo, S. (A)
Maskaleris, C. L. (M)
Mason, W. A. (M)
Masterson, J. P. (M)
Matacotta, M. (A)
Mathes, R. H. (M)
Mayer, C. H. (M)
Mayewsky, V. V. (M)
Mayo, R. D. (M)
Mayo-Wells, W. J. (SM)
McCallum, J. D. (M)
McCarthy, F. M. (VA)
McClain, E. F. (SM)
McClenon, D. (SM)
McGowan, J. E. (M)
McGunigal, W. E. (A)
McIntosh, F. H. (M)
McIntosh, W. L. (A)
McKay, R. L. (SM)
McKenna, J. A., Jr. (A)
McKinney, J. C. (M)
McLaughlin, D. J. (SM)
McMann, I. H. S. (SM)
McNary, J. C. (SM)
Meads, S. K. (M)
Mechling, E. P. (SM)
Medrow, K. R. (M)
Melton, G. H. (M)
Merer, G. E. (SM)
Merritt, E. A. (A)
Metz, H. I. (SM)
Metzger, E. E. (A)
Miles, P. D. (SM)
Miller, J. M. (F)
Mirick, C. B. (SM)
Mischler, E. F. (SM)
Misner, R. D. (SM)
Mitchell, F. T., Jr. (SM)
Mitchell, G. J. (M)
Mitchell, M. B., Jr. (M)
Montgomery, G. F. (SM)
Montgomery, G. T. (A)
Moore, A. H. (M)
Moore, H. N. (M)
Moore, W. J. (A)
Morgan, E. D. (M)
Morris, H. (A)
Muchmore, T. F. C. (M)
Muncy, C. F. (M)
Muncy, J. H. (M)
Murray, J. F. (F)
Mysing, J. O. (M)
Naylor, D. A. (M)
Neely, G. M. (M)
Nelson, D. H. (M)
Neumann, A. J. (M)
Nichols, W. A. (M)
Niedbalski, N. B. (A)
Nordenberg, H. M. (M)
Nowakoski, D. B. (M)
O'Brien, B. C. (SM)
O'Brien, J. R. (SM)
O'Brien, V. T. (M)
Ochoa, A. S. (M)
O'Connell, J. D. (F)
Odarenko, T. M. (SM)
Oelke, H. J. (M)
Oertel, M. F. (A)
Oittinen, K. E. (A)
Olin, I. D. (M)
Olin, W. C. (M)
Ong, H. Y. (M)
Ornstein, E. (M)
Oscar, I. S. (A)
Ottinger, G. L. (M)
Otto, E. D. (SM)
Ould, R. S. (M)
Owens, R. B. (SM)
Paden, D. R. (M)
Page, E. C. (SM)
Page, I. H. (SM)
Page, R. M. (F)
Page, V. E. (M)
Paine, H. G. (M)
Palik, F. (M)
Palmer, C. E., Jr. (A)
Parker, R. D. (SM)
Parks, A. O. (M)
Parry, C. A. (SM)
Paul, A. W. (M)
Pease, C. H. (A)
Peaslee, J. R. (M)
Pelzman, L. (M)
Perineau, M. C. (M)
Perrino, S. R. (A)
Perritte, J. L. (M)
Perry, J. E. (A)
Peselnick, L. (A)
Peterkin, E. W. (M)
Peters, C. W. (SM)
Peterson, H. L. (SM)
Petrini, A. A. (A)
Petry, C. A. (SM)
Philactos, C. J. (M)
Pickar, A. D. (M)
Pike, E. H. (M)
Pitsenberger, J. W. (A)
Plummer, C. B. (SM)
Plummer, W. E. (SM)
Poland, W. B., Jr. (A)
Pontious, C. E. (M)
Poor, V. D. (M)
Ports, D. C. (SM)
Potter, R. S. (M)
Powers, W. F. (A)
Powles, F. T. (SM)

Powley, A. T. (M)
Pratt, H. A. (M)
Pulvari, C. F. (SM)
Puttcamp, R. R. (M)
Pyle, E. J., Jr. (M)
Pynn, G. W. (M)
Quarles, D. A. (F)
Queen, F. D. (M)
Rabinow, J. (F)
Radkowsky, L. (M)
Raker, S. K. (M)
Ramos, E. (M)
Ramos, P. A. L. (A)
Randall, C. R. (A)
Ransom, R. A. (M)
Rasmussen, A. R. (M)
Ray, H. A., Jr. (SM)
Raymond, C. G. (A)
Read, A. H. (SM)
Redcay, P. W. (M)
Reed, O. W. B., Jr. (SM)
Reed, S. F. (M)
Regardh, C.-G. B. (A)
Reich, H. A. (M)
Reid, D. G. (M)
Renner, J. J. (M)
Reynolds, D. E. (M)
Reynolds, J. H., Jr. (A)
Richardson, D. J. (M)
Richardson, W. M. (SM)
Rickerson, D. M. (M)
Rietzke, E. H. (SM)
Riley, L. A. (A)
Ring, A. D. (VA)
Ringler, D. H. (A)
Ringwalt, D. L. (M)
Robertson, B. S., Jr. (A)
Robinson, C. A., Jr. (M)
Robinson, H. H. (SM)
Robson, A. B., Jr. (M)
Rogers, E. B. (M)
Rohrer, R. E. (SM)
Rohrich, G. J. (VA)
Rohlfs, D. C. (M)
Rollo, R. T. (A)
Rosen, H. H. (M)
Rosenberg, A. (A)
Rothenberg, N. B. (M)
Rothrock, H. B. (M)
Rouse, R. E. (A)
Rovang, R. J. (A)
Rozak, D. T. (A)
Rubin, L. A. (M)
Rubin, S. (M)
Rummens, W. S. (A)
Rumyantsev, Z. A. (A)
Russ, J. A. (M)
Russell, G. M. (M)
Russell, P. H., Jr. (A)
Ryan, W. E. (M)
Safford, L. F. (SM)
Salerno, J. (M)
Salisbury, L. L., Jr. (M)
Samuel, J. (A)
Sanborn, G. D. (A)
Sands, W. C. (M)
Sappe, N. G. (A)
Sarbacher, G. W., Jr. (A)
Sarbacher, R. I. (SM)
Savage, J. W. (M)
Schairer, N. T. (M)
Schenck, H. H. (SM)
Schenk, P. J. (SM)
Scherer, E. H. (M)
Schleter, G. C. (M)
Schmalbach, S. (M)
Schmid, P. E., Jr. (A)
Schneider, W. H. (M)
Schooley, A. H. (F)
Schrack, R. A. (M)
Schrenk, M. H. (F)
Schuette, W. H. (M)
Schutt, V. L. (M)
Schuyler, W. E., Jr. (M)
Schwarz, K. M. (A)
Seaman, E. F. (SM)
Segal, P. M. (SM)
Segal, R. L. (M)
Shamp, D. J. (A)
Shapiro, G. (SM)
Sharp, N. S. (A)
Shea, E. T. (A)
Sheets, G. (A)
Sheets, M. J. (M)
Sherman, W. K. (SM)
Shimabukuro, K. (A)
Short, R. C. (M)
Shrader, J. R. (M)
Shumaker, J. F., Jr. (M)
Sibul, L. H. (A)
Sigman, M. (M)
Siling, P. F. (F)
Silins, A. (A)
Silliman, R. M. (SM)
Silver, S. H. (M)
Simas, V. R. (SM)
Simmonds, T. H., Jr. (A)
Singer, C. H. (SM)
Skaggs, G. A. (M)
Skramstad, H. K. (SM)
Small, C. F. (M)
Smith, E. R. (A)
Smith, F. A. B. (M)
Smith, J. E. (SM)
Smith, P. L. (SM)
Smolak, J. P. (A)
Smyth, F. J. (M)
Snow, R. F. (A)
Snyder, S. S. (A)
Snyder, W. O. (M)
Southall, T. W. (M)
Spalding, J. P. (SM)
Spitz, D. C. (M)
Spriggs, A. J. (SM)
Sreb, J. H. (M)
Stahl, B. E. (VA)
Stair, R. (SM)
Stansbury, C. (SM)
Stanwick, T. (SM)
Starr, F. E. (A)
Stead, N. A. (A)
Steel, D. L., Sr. (M)
Steler, H. P. (SM)
Stein, E. S. (M)
Steward, C. (M)
Stewart, R. B. (SM)
Stine, P. T. (M)
Stinson, I. F. (SM)
Stoleson, H. N. (A)
Stone, H. B. (A)
Stone, R. O. (M)
Stout, C. M. (M)
Straiton, J. C. (M)
Stump, W. D., Jr. (M)
Sturm, P. J. (SM)
Sullivan, A. H. (SM)
Sumoski, A. W. (SM)
Suski, H. M. (SM)
Svendsen, E. C. (M)
Swan, N. C. (A)
Swartzel, K. D. (SM)
Sweet, R. A. (M)
Swierczek, W. L. (A)
Taishoff, S. J. (A)
Talkin, A. I. (M)
Tall, R. E. (M)
Talmadge, H. G., Jr. (M)
Tanke, H. F. (SM)
Taylor, F. V. (SM)
Taylor, W. T. (SM)
Temple, F. B. (A)
Tersoff, A. L. (SM)
Thomas, L. W. (SM)
Thompson, R. T., Jr. (A)
Thorp, M. B. (A)
Thrift, S. R. (M)
Titcomb, F. C. (M)
Toth, E. (F)
Touchette, H. J., Jr. (A)
Town, G. R. (F)
Tozzi, L. M. (M)
Trafton, D. C. (SM)
Trexler, J. H. (A)
Trout, P. A. (A)
Troutman, J. S. (M)
Tschiegg, C. E. (SM)
Tsuda, R. Y. (A)
Tuckerman, L. P. (SM)
Turner, G. S. (F)
Tuve, M. A. (F)
Vallin, J. M. (M)
Van Allen, L. N. (M)
Van Every, A. (M)
Van Horn, J. W. (M)
Van Leunen, P., Jr. (A)
Van Sutphin, B. (A)
Van Voorhis, S. N. (SM)
Vary, W. J. (M)
Vest, S. E. (M)
Vick, A. J. (M)
Vogel, H. O. (M)
Voltaggio, F., Jr. (A)
Voznak, E. (M)
Wald, B. (SM)
Walden, G. R. (M)
Waldschmitt, J. A. (SM)
Walker, A. P. (SM)
Wallace, J. D. (SM)
Ward, H. H., III (SM)
Warner, T. R. (A)
Waterman, H. H. (M)
Waterman, P. (M)
Watkins, W. H. (M)
Weber, W. J., Jr. (A)
Weedman, W. F. (SM)
Weekes, F. D. (A)
Wegstein, J. H. (A)
Weiss, F. (M)
Welling, C. G. (A)
Wells, H. W. (F)
Wells, P. E. (A)
Werth, M. W. (M)
Wetmore, G. C. (M)
Wheeler, T. J. (M)
Whelan, E. H. (M)
White, C. F. (M)
White, C. M. (M)
White, W. A. (M)
Whitelock, L. D. (SM)
Whitestine, P. W. (M)
Whittemore, P. B. (SM)
Wicks, D. S. (SM)
Wilcox, R. H. (M)
Wilcox, R. L., Jr. (M)
Wilensky, H. B. (A)
Wilkinson, D. A. (M)
Williams, C. H. (M)
Williams, D. (SM)
Williams, E. L., Jr. (A)
Williams, J. R. (M)
Williams, L. L., III (M)
Williams, M. P. (M)
Williston, S. S. (M)
Willoughby, J. A. (SM)
Wilson, M. W. (M)
Wimer, A. G., Jr. (SM)
Winston, G. C. (M)
Winter, W. T. (M)
Wittig, W. L. (M)
Wood, G. W. (SM)
Works, H. A. (A)
Worne, B. E. (M)
Wright, J. H. (M)
Wright, R. B. (M)
Wright, S. T. (SM)
Wynne, J. J. (A)
Yagelowich, J. J. (M)
Yost, C. F. (A)
Youden, W. W. (M)
Youmans, A. B. (A)
Young, E. W. (A)
Young, L. C. (F)
Young, R. T., Jr. (SM)
Younger, H. C. (M)
Yunk, G. W. (M)
Zakowski, L. F. (M)
Zastrow, K. D. (A)
Zeek, R. W. (SM)
Zirm, R. R. (M)

FLORIDA

Atlantic Beach (CF-3)
Barber, C. (M)

Avon Park (MIA-3)
Williamson, E. P. (M)

Bartow (F-WC-3)
Morrison, H. G. (A)

Bellair Beach (F-WC-3)
Andrews, E. F. (VA)

Belle Glade (MIA-3
Clemans, C. S. (SM)

Bradenton (F-WC-3)
Brackmann, W. J. (SM)
Brand, P. M. (SM)
Dannals, E. W. (SM)
Hauber, E. N. (M)
Lampkin, G. F. (VA)
Schnell, F. H. (SM)
Whitehead, C. C., Jr. (M)

Brandon (F-WC-3)
Brodie, W. A. (A)

Brooker (CF-3)
Rhoads, A. S., Jr. (A)

Casselberry (CF-3)
Morrison, H. E. (A)

Carrabelle (NWF-3)
Dykes, W. E. (A)
Paice, K. M. (A)
Selvaggio, V. F. (A)

Clearwater (F-WC-3)
Ainsworth, F. W. (M)
Billingsley, F. C. (SM)
Blincoe, H. P. (M)
Bozardt, W. R. (A)
Bromander, G. C. (M)
Brown, P. F. (M)
Burnside, D. G. (SM)
Dubendorff, H. H. (M)
Duncan, B. J. (M)
Fleischer, K. M. (M)
Friebele, E. J. (M)
Funke, W. G. (M)
Gore, L. D. (M)
Grimes, E. S., Jr. (M)
Henning, R. E. (M)
Jansen, J. N. (M)
Keeler, R. J. (SM)
Nicolaides, M. E. (M)
Osborn, A. J. (M)
Petersen, M. E. (M)
Remond, F. X. (A)
Reynolds, G. E., Jr. (M)
Ryan, J. J. (M)
Seiler, N. C. (M)
Sloan, S. C., Jr. (M)
Sparks, J. R. (M)
Sues, L. B. (A)
Sullivan, D. J. (M)
Summers, D. D. (M)
Swern, L. (SM)
Wells, J. D. (M)
Wimberly, W. B. (M)
Wooten, W. W., Jr. (A)

Clearwater Beach (F-WC-3)
Miller, R. J. (M)

Cocoa (CF-3)
Adams, R. N. (A)
Bailey, C. W., Jr. (A)
Barnett, B. E. (A)
Benn, D. G. (A)
Betts, P. H. (SM)
Blasingame, J. J. (M)
Bower, G. E. (M)
Burquez, E., Jr. (A)
Collier, R. W., Jr. (A)
Cox, P. D. (M)
De Kozan, R. L. (M)
Fowler, C. D. (M)
Frier, J. B. (A)
Gasparovitch, S. (A)
Ginn, R. (M)
Gotcher, R. W. (M)
Gray, J. O. (M)
Graziadio, S. J. (M)
Hatchett, C. (SM)
Hopper, A. L. (SM)
Horchler, F. W., III (M)
Koch, C. P. (M)
Lahr, N. L. (M)
Lesh, M. A., Jr. (M)
Letzan, A. A. (M)
Matton, R. E. (SM)
McMath, D. C., Jr. (A)
Melton, B. R. (M)
Peeples, J. W., Jr. (A)
Rehwinkel, J. A., Jr. (M)
Rosson, J. W. (A)
Sharpe, B. R. (A)
Smith, D. L. (M)
Summer, C. F., Jr. (M)
Terek, A. A. (A)
Toole, P. C. (SM)
Valentine, E. (A)
Wright, C. J., Jr. (SM)
Wrye, W. F., Jr. (M)

Cocoa Beach (CF-3)
Anderson, J. P. (M)
Atherly, D. H. (A)
Baldini, E. A. (M)
Bethel, H. W. (A)
Brown, W. R. (M)
Campbell, R. L. (SM)
Cox, H. C. (A)
Ducker, J. D. (A)
Eaton, H., Jr. (M)
Folks, R. C. (A)
Gridley, D. H. (M)
Guelzow, C. W. (A)
Hagner, D. R. (A)
Hain, J. L. (M)
Hiers, K. G. (A)
Jester, A. H., Jr. (M)
Kjellburg, R. L. (M)
Kramer, L. V. (M)
Lingenfelder, C. C. (M)
Mackey, A. J., Jr. (M)
Mead, M. C., Jr. (A)
Mederos, T. S., Jr. (M)
Moline, J. C. (M)
Noone, J. R. (A)
Rathbone, W. M. (M)
Ritter, L. M. (A)
Smith, J. J. (M)
Terry, J. F. (M)
Thibodeau, R. A. (M)
Thoman, C. A. (M)
Tomberlin, J. L. (M)
Warner, H. V. (A)
Wever, L. R. (M)
White, J. R. (M)
Williams, R. O. (M)
Wilson, C. B. (SM)
Wood, R. E. (M)
Wright, R. B. (A)

Coconut Grove (MIA-3)
Rosenson, A. H. (A)

Coral Gables (MIA-3)
Birch, R. S., Jr. (M)
Brand, C. W. (M)
Christophel, G. H. (M)
Clarke, V. E. (M)
Eubanks, J. M. (M)
Graves, H. B. (A)
Hailey, W. M. (M)
Harrell, S. R. (M)
Lang, L. B. (A)
Macklin, F. R. (M)
Ray, P. R. (A)
Roberts, F. G., Jr. (VA)

Dade City (F-WC-3)
Stubbs, J. E. (M)
Touchton, C. F., III (M)

Daytona Beach (CF-3)
George, E. M. (M)
Siegel, J. J. (A)

Delray Beach (MIA-3)
Smith, S. B. (M)

Dunedin (F-WC-3)
Aird, A. W. (M)
Day, W. B. (M)
Karnath, N. A. (M)
Kelly, W. C. (M)
McLaren, D. C. (M)

Eau Gallie (CF-3)
Amos, C. D. (A)
Baker, R. C. (M)
Beach, A. R. (SM)
Bicksler, D. H. (M)
Bradford, G. E. (M)
Brown, W. H. (M)
Bivans, R. W. (M)
Cahill, W. J. (M)
Coapman, J. W. (SM)
Cockerham, F. E. (A)
Cook, R. M. (A)
Dahlmann, V. R. (A)
De Mars, S. A. (M)
Dibble, H. L. (M)
Doane, H. J. (M)
Downs, J. W. (SM)
Dozier, E. C. (A)
Easson, G. S. (A)
Eaton, C. B. (M)
Eckenrode, A. H. (SM)
Emmons, A. W. (M)
Finley, J. D. (M)
Fogle, R. E. L., Jr. (M)
Griffith, M. E. (SM)
Harris, B. E., Jr. (M)
Harris, C. F. (A)
Harrison, J. E. (M)
Hatcher, E. T. (M)
Herring, R. W., Jr. (M)
Hickman, R. S. (A)
Hill, D. R. (M)
Hines, W. S. (A)
Hlavaty, E. M. (M)
Holmes, T. G. (M)
Johnson, R. J. (M)
Jones, A. E. (M)
Jones, R. B. (M)
Kaeser, J. M. (M)
Knowles, D. M. (M)
Korpal, J. W. (A)
Lindemann, N. L. (A)
MacGregor, W. R. (SM)
Mann, M. E., Jr. (A)
Masch, H. D. (A)
McCarthy, E. A. (A)
Miller, R. T. (A)
Mills, L. W. (A)
Mock, B. H. (M)
Morton, L. H. (A)
Muller, R. M. (M)
Neff, R. R. (A)
New, C. H. (A)
Nordbusch, J. L. (M)
Pierce, J. R. (M)
Powell, L. W. (M)
Reber, J. H. (M)
Rector, C. V. (M)
Richardson, E. W. (M)
Rivera, C. R. (A)
Rogers, R. M. (M)
Simpson, E. M., Jr. (M)
Smith, A. E. (A)
Spooner, J. E. (A)
Stallworth, A. W., Jr. (A)
Stoklas, F. P. (M)
Thiede, H. T. (M)
Thomas, D. H. (M)
Turley, R. N. (M)
Turner, S. D., Jr. (M)
Vee, W. (M)
Von Steenburgh, R. V. (M)
Votava, V. (M)
Weiss, E. J. (M)
Wesp, I. H. (M)
West, K. A. (SM)
Williard, M. W. (M)
Wilson, H. C. (M)
Wright, E. A. (M)
Wynn, J. B., Jr. (M)

Eglin AFB (NWF-3)
Baxter, W. D. (M)
Eberhard, R. C. (A)
Eggers, T. H. (M)
Forkner, E. G. (M)
Hanson, G. B. (M)
Hendrix, C. E. (M)
Romiti, V. L. (M)
St. Germain, A. A. (A)
Shanks, F. B. (M)
Sites, F. J. (M)
Somerset, R. D. (M)
Stoffel, B. L. (M)
White, A. R. (M)

Englewood (F-WC-3)
Clapp, J. K. (F)
Roberts, W. V. B. (F)

Estin (NWF-3)
Eddy, E. C. (A)

Floral City (F-WC-3)
Palka, F. M. (M)

Fort Lauderdale (MIA-3)
Bassett, R. E., Jr. (VA)
Canaday, H. T. (A)
Castor, A. H. (M)
Cook, H. A. (M)
Cummings, M. M. (M)
De Haas, T. M. (A)
Dondelinger, R. W. (M)
Gorder, L. O. (A)
Granucci, F. P. (A)
Hieronymus, T. G. (SM)
Mazzeo, B. A. (M)
McLeod, B. C. (A)
Needs, W. R. (A)
Nesbitt, W. E. (SM)
Nugent, J. A. (A)
Pritchard, W. S. (M)
Ryan, C. M. (SM)
Schmidt, F. G. (A)
Schwartz, H. C. (A)
Stetson, H. T. (M)
Shock, W. R. (A)
Thompson, H. V. (SM)
Van Arsdale, L. H., Jr. (SM)
Wisner, C. V., Jr. (A)

Fort Myers Beach (F-WC-3)
Dashiell, E. V. (SM)

Fort Walton (NWF-3)
Bloomquist, J. C. (A)
Brown, M. J. (M)
Falkenberg, H. R. (M)
Fowler, L. O. (M)
Howard, F. E., Jr. (M)
Steisslinger, H. R. (A)

Fort Walton Beach (NWF-3)
Atkinson, R. L. (M)
Bent, J. E., Jr. (A)
Butler, F. M., Jr. (A)
Coe, R. B. (M)
Combs, J. W. (A)
Cox, E. R. (M)
Crenshaw, H. J. (M)
Elmore, H. J. (M)
Fleming, G. C. (M)
Hammack, J. W. (M)
Herold, R. R. (M)
Hilson, E. A. (M)
Hufnagle, H. H. (M)
Huntley, K. L. (SM)
Kirlin, W. F. (A)
Long, C. E., Jr. (M)
Longaker, C. D. L. (M)
Lucas, H. B. (A)
Mantey, W. F. (M)
Marsh, R. E. (M)
Mefford, C. W. (M)
Moyers, R. K. (M)
Nichols, J. (A)
Pranitch, J. (A)
Shanney, W. I. (M)
States, D. M. (A)
Todd, M. A. (M)
Walker, J. C. (M)
Wilson, L. L. (M)
Zwaska, J. F. (M)

Gainesville (CF-G-3)
Abernathy, J. L. (M)
Akre, R. O. (SM)
Arpin, R. J. (M)
Barylsi, M. W. (A)
Bean, E. W., Jr. (A)
Brenner, J. C. (SM)
Chen, W. H. W. (M)
Clane, L. E. (M)
Clark, J. M. (M)
Day, W. R., Jr. (A)
Eisenberg, M. F. (M)
Elfe, T. B. (SM)
Erickson, E. E. (M)
Fisk, H. V. (SM)
Forsman, M. E. (M)
Frerking, H. W. (M)
Garrott, W. L. (SM)
George, T. S. (SM)
Greenman, L. R. (M)
Haaland, C. M. (M)
Hatch, R. H. (SM)
Hearn, E. F. (M)
Jones, M. R. (A)
Koning, R. E. (M)
Kundel, T. (SM)
Lally, P. M. (SM)
Langston, C. A. (M)
Larsen, M. J. (SM)
Latour, M. H. (SM)
Lear, W. E. (SM)
Mathews, B. E. (A)
McMurrough, R. W. (A)
Montgomery, H. R. (M)
Neidert, J. H. (SM)
Peterson, W. W. (M)
Raczynski, A. T. (M)
Reichert, K. R., Jr. (M)
Renkiewicz, H. F. (M)
Rich, C. E. (SM)
Rosier, N. E. (A)
Schrader, G. F. (SM)
Schwartz, L. (M)
Schwartz, S. (M)
Searles, C. B. (M)
Shaffer, C. V. (SM)
Silas, F. R., Jr. (M)
Silas, L. W. (M)
Sommer, H. (A)
Stepura, R. M. (M)
Sterling, R. W. (A)
Strauss, R. (M)
Studstill, H. F. (A)

Sutherland, A. D. (M)
Swearingen, J. D. (M)
Veronda, C. M. (SM)
Walters, J. H. (M)
Weil, J. (F)
Wing, A. H., Jr. (SM)
Winters, B. C. (A)
Zetrouer, W. F., II (M)

Gulf Breeze (NWF-3)
Gillette, R. L., Sr. (A)

Gulfport (F-WC-3)
Lindtner, J. (A)
McDonald, E. D. (A)

Holly Hill (CF-3)
Bodnar, J. M. (M)

Hollywood (MIA-3)
Lane, H. K. (A)

Homestead (MIA-3)
Eyring, J. W. (A)

Indialantic (CF-3)
Gilbreath, R. E., Jr. (A)

Indian River City (CF-3)
Herring, H., Jr. (SM)
Moreyn, H. J. (M)

Indian Rocks Beach (F-WC-3)
Bie, E. W. (M)
Hassell, J. E. (M)
Tiller, W. H. (M)

Jacksonville (CF-3)
Dandelake, J. (M)
Dunham, R. E. (M)
Pfoulkes, C. E. (M)
Ficke, H. C. (A)
Filzen, J. N. (A)
Helmsing, L. C. (A)
Holman, J. C. (M)
Jones, B. R. (M)
Kray, J. F., Jr. (A)
Lechich, G. D. (A)
Levy, A. J. (A)
Martindale, N. B. (A)
Niles, R. O. (A)
Osmundsen, G. A. (A)
Padgett, E. P., Jr. (A)
Swafford, L., Jr. (A)
Trainum, D. A. (M)
Vordermark, E. B. (M)
Weber, D. C. (M)

Jacksonville Beach (CF-3)
Little, P. R. (M)

Key West (MIA-3)
Anderson, B. G., Jr. (M)
Bajus, J. C. (M)
Bernot, T. (M)
Blain, E. J. (M)
Brooks, J. F. (SM)
Cobb, A. D. (M)
Cook, H. B. (SM)
De Noon, N. L. (A)
Ervi, W. L., Jr. (M)
Lane, J. P. (A)
Lenkerd, J. P. (M)
McMasters, P. A. (SM)
Myers, C. B. (A)
Payne, V. E. (M)
Phelps, R., Jr. (A)
Simpson, W. E. (M)
Small, D. G. (M)
Vargo, A., Jr. (M)
Waller, E. C. (M)
Yowell, G. M., Jr. (M)

Kissimmee (CF-3)
Hagen, G. D. (M)
Ramer, J. P. (M)

La Belle (MIA-3)
Williamson, H. L. (A)

Lakeland (F-WC-3)
Cipray, F. J. (A)
Polskin, L. J. (A)

Lake Wales (F-WC-3)
Kimbrel, G. M. (M)

Lake Worth (MIA-3)
Elam, E. A. (A)
Larkin, J. P. (M)
Wood, W. H. (M)

Largo (F-WC-3)
Abernathy, T. C. (M)
Bailey, R. L. (M)
Berry, H. W. (SM)
Christensen, T. W. (A)
Denison, J. W. (A)
Eadie, D. (SM)
Farina, J. S. (M)
Faulkner, W. C. (A)
Fazio, F. (A)
Humberger, H. G. (A)
Lazarchik, R. E. (M)
Lewis, H. R. (M)
Macomber, G. R. (A)
Marion, J. F. (M)
Schmidt, A. P. (M)
Shaw, H. S. (F)
Shirvis, R. A. (A)
Weems, N. T., Jr. (M)

Leesburg (CF-3)
Ball, I. D. (SM)

Lockhart (CF-3)
Hoeft, E. R. (M)

Lutz (F-WC-3)
Hense, W. N. (A)
Wallace, S. K. (A)

Mac Dill AFB (F-WC-3)
Logsdon, H. E. (M)

Madeira Beach (F-WC-3)
Day, F. R. (SM)
Monahan, H. J. (A)

Maitland (CF-3)
Bayston, T. E. (M)
Black, F. R. (M)
Byerly, E. H. (A)
Eggerton, W. H. (M)
Goldsmith, J. (SM)
Matysek, J. J. (A)
Raboy, B. (SM)
Sieck, L. W. (M)
Staudt, H. R. (SM)
Williams, H. M. (SM)
Zatlin, F. R. (A)

Mary Esther (NWF-3)
Gardner, D. L. (M)

Melbourne (CF-3)
Apriletti, C. A. (M)
Barbee, G. S., Jr. (M)
Barkes, R. L. (M)
Barton, R. H. (M)
Boska, R. A. (M)
Brown, R. S. (M)
Burns, M. C. (SM)
Cauthen, I. L. (M)
Clarke, R. L. (A)
Conerly, P. (M)
Davenport, F. S. (M)
Davis, H. B. O. (M)
Denius, H. R. (SM)
Detweiler, J. E. (A)
Dickenson, J. P., Jr. (M)
Dillon, J. D. (M)
Dodgson, W. W., Jr. (A)
Doughty, S. D. (M)
Eddins, W. T. (M)
Edgerly, J. J. (SM)
Ellis, G. W. (M)
Evans, W. B. (M)
Falls, M. P. (SM)
Farabee, L. B. (M)
Fleming, J. S. (M)
Fraustro, B. (A)
Friedland, M. S. (SM)
Garon, A. J. (SM)
Glass, W. F. (M)
Griffin, F. S., Jr. (M)
Grover, D. W. (M)
Hanley, N. B. (M)
Harris, L. (M)
Hartley, J. T., Jr. (M)
Hartzog, G. R., Jr. (M)
Hazel, W. M. (M)
Hill, F. E. (SM)
Hoeppner, C. H. (F)
Holbraten, A. (A)
Howard, D. C., Jr. (M)
Howard, J. S., Jr. (A)
Hyde, K. C., Jr. (M)
Jackson, C. H. (M)
Jaffe, A. P. (M)
Jones, J. R. (M)
Knight, J. P. (A)
Lenke, R. H. (M)
Leonard, S. E. (SM)
Marquand, R. E. (M)
Martin, J. W. (A)
McKee, J. F. (A)
McLamb, F. D. J. (M)
McMillian, L. S., Jr. (M)
McRae, D. D. (M)
Mead, W. L. (M)
Miller, L. S. (A)
Murray, R. V. (M)
Myers, C. E. (M)
O'Kelley, H. E. (SM)
Pace, A. J. (M)
Pelchat, G. M. (M)
Pettijohn, R. E. (M)
Pettler, P. R. (M)
Pickover, H. (M)
Plaisted, R. O. (M)
Preece, B. P. (A)
Preece, R. G. (M)
Quinlivan, W. F. (M)
Ratliff, M. (M)
Rawnsley, J. A. (M)
Robbins, L. S. (M)
Robinson, J. A. (M)
Rolfs, J. C. (M)
Sanford, R. C. (SM)
Scharla-Nielsen, H. (SM)
Searcy, J. H. (A)
Shaw, G. S. (SM)
Shem, I. (M)
Steele, S. L. (M)
Stumpe, J. W. (M)
Talbott, D. C. (M)
Thomas, W. A., Jr. (M)
Toolan, W. W. (A)
Vansant, F. T. (M)
Walker, D. H. (A)
Walter, J. M., Jr. (M)
Weiss, B. J. (M)
Wentzel, M. G. (A)
West, C. F. (M)
Wicker, G. E. (M)
Widerquist, V. R. (SM)
Wiener, W. A. (M)
Williams, A. G. (M)
Williams, L. E. (SM)
Wilt, R. E. (M)
Winter, H. A. (A)
Wooded, K. M. (M)
Work, R. A., Jr. (A)
Yatauro, P. (A)
York, L. M. (A)
Young, J. (A)
Young, P. D. (A)

Melbourne Beach (CF-3)
Dodson, L. F. (SM)
Fox, R. A. (SM)
Kolderup, L. E. (A)
Wren, A. W., Jr. (A)

Melrose (CF-G-3)
Gano, O. R. (M)

Merritt Island (CF-3)
Arnold, N. R. (A)
Cooper, W. H. (SM)
Damme, M. C. (A)
Daniher, C. E. (A)
Metts, L. W. (A)
Morris, H. N. (SM)
Pfeiffer, D. A. (M)
Raulins, K. R. (M)
Shupe, P. G. (M)
Sundberg, G. A. (A)

Miami (MIA-3)
Adcock, S. E. (SM)
Alter, J. E. (M)
Andres, L. J. (SM)
Bernard, H. F. (M)
Bledsoe, R. E. (M)
Brookes, K. E. (A)
Brookfield, R. F. (A)
Bryant, C. S. (A)
Camus, G. E. (M)
Cheng, K. Y. (M)
Cook, H. A. (A)
Craig, P. H. (SM)
Crist, L. S. (A)
Dale, K. N. (A)
Dann, R. (M)
Danielsen, D. A. (M)
Dillon, J. C., Jr. (A)
Drexel, A. (A)
Driest, C. W. (A)
Easterbrook, L. J., Jr. (M)
Embree, L. O. (M)
Epperson, W. H. (SM)
Evans, H. (A)
Femenias, H. R. (A)
Fossler, D. E. (M)
Foster, C. B. (M)
Francis, J., Jr. (M)
Goetz, O. E. (A)
Gordon, L. L. (SM)
Haislip, D. T. (M)
Hamrick, W. H. (M)
Hannum, E. W. (M)
Hardesty, G. A. (M)
Hellings, F. J. (M)
Herrmann, N. P. (M)
Johnson, W. H., Jr. (M)
Johnson, W. L., Jr. (M)
Jones, R. M. (M)
Jones, T. J. (M)
Jorgensen, O. J. (M)
Keller, J. W., Jr. (M)
Kimball, E. W. (SM)
Kinney, W. E. (M)
Kitson, J. E., Jr. (A)
Larkins, G. L. (M)
Lehfeldt, H. J. (A)
Leahan, J. J. (M)
Lewis, E. W. (VA)
Liedholz, G. A. (M)
Lockwood, E. C. (SM)
Magee, T. T. (A)
Mangus, G. (A)
McLeod, B. F. (SM)
McPherson, W. R. (A)
Middleton, T. F., Jr. (A)
Miller, M. A. (SM)
Nairn, J. B. (M)
Ostheimer, E. J. (M)
Palmer, R. P. (A)
Perkinson, J. A. (A)
Pohl, J. S. (M)
Pollack, B. H. (M)
Pollack, M. (M)
Reid, T. D. (M)
Rider, F. E. (SM)
Rondel, V. D. (A)
Scott, M. C., Jr. (SM)
Shamblin, H. D. (M)
Shattuck, J. C. (M)
Shay, J. A. (M)
Shropshire, A. W. (VA)
Smith, R. L. (M)
Spragg, L. A. (M)
Stephens, F. H., Jr. (M)
Ware, P. (SM)
Weber, G. L. (M)
White, K. M. (M)
Wicks, C. E. (A)
Wright, A. (M)
Young, P. A. (M)
Zahniser, R. W. (M)

Miami Beach (MIA-3)
Boundy, G. G. (SM)
Richter, H. L. (A)
Senauke, A. (SM)
Square, A. L. (A)

Miami Shores (MIA-3)
Shearer, S. L. (A)

Miami Springs (MIA-3)
Atkins, G. T. (SM)
Chen, H. C. (M)
Cook, C. (A)
Morgan, W. R., Jr. (A)
Mehrling, H. W. (M)
Murr, V. E. (VA)
Stanphill, J. R. (M)
Pitkin, R. S. (M)

Milton (NWF-3)
Ellis, R. J. (M)
Farrar, R. L. (A)
Johnson, C. I. (M)

Monticello (NWF-3)
Groves, C. L. (A)

New Smyrna Beach (CF-3)
Dinwiddie, E. W. (M)
McNatt, E. J. (M)
Moore, L. E. (A)

North Fort Myers (MIA-3)
Hollenback, H. G. (A)
Lynch, A. H. (SM)

North Miami (MIA-3)
Castle, C. X. (M)
Parsons, E. G. (M)
Sawyer, J. L. (A)

North Miami Beach (MIA-3)
Rifkin, M. S. (M)

North Palm Beach (MIA-3)
Lefka, M. (M)

Ocala (CF-3)
Hinson, C. L. (A)

Orlando (CF-3)
Allmandinger, E. F. (SM)
Anderson, G. F. (A)
Barber, F. A. (A)
Basch, A. L. (M)
Beers, W. T. (A)
Benfield, C. W. (M)
Bishop, R. P. (M)
Blumenstein, O. J. (M)
Bobber, R. J. (M)
Bodin, B. H. (A)
Boone, K. E. (M)
Boquist, T. A. (M)
Bradbury, L. D. (A)
Bramble, C. A., Jr. (A)
Brantley, J. Q., Jr. (SM)
Browder, L. P. (M)
Brown, C. K. (M)
Chasteen, J. W., Jr. (SM)
Clarke, W. H. B. (M)
Clifford, R. F. (A)
Conley, J. W., III (M)
Cullman, F. A. (SM)
Dailing, C. J. (M)
Daverio, A. J. (M)
Dickinson, R. H. (SM)
Doroshow, S. R. (SM)
Dudley, W. A. (A)
Duval, A. N. (A)
Everingham, L. R. (SM)
Fisk, N. H. (A)
Flaherty, J. B., Jr. (M)
Garrard, J. T. (M)
Godlewski, V. J. (A)
Green, R. E., Jr. (A)
Grimes, J. W., Jr. (M)
Gryder, W. L. (M)
Haney, D. W. (M)
Haughey, J. W. (A)
Hawley, D. T. (M)
Hazel, H. K. (M)
Hill, G. R. (SM)
Horton, W. H. (SM)
Houston, E. E., Jr. (M)
Huff, W. A. (M)
Hughes, E. A. (SM)
Kaplan, S. M. (SM)
Karkeck, P. (A)
Kasowski, S. E. (M)
Katis, C. W. (A)
Keith, C. E. (M)
Kirkley, E. L., Jr. (A)
Lanzkron, R. W. (M)
Larson, K. T. (SM)
Le Grand, H. R. (M)
Lewis, R. D. (M)
Lipten, B. (M)
Longley, R. M., Jr. (M)
Lowrie, R. W. (M)
Mankin, L. B. (M)
McDirmit, E. L. (M)
Mesa, A. M., Sr. (A)
Metz, D. F. (M)
Meyerson, M. (SM)
Moss, B. B. (A)
Myers, W. A. (M)
Nelson, L. (M)
Ness, J. W. (M)
Newell, R. A. (M)
Nilson, M. N. (A)
Painter, P., Jr. (SM)
Panzitta, J. (A)
Perich, M. (A)
Phillips, R. L. (M)
Poole, H. H. (M)
Prescott, C. W. (A)
Rhodes, D. R. (SM)
Rollins, J., Jr. (M)
Rothar, D. E. (M)
Ruthenberg, W. G. (M)
Schisler, C. W. (A)
Schleider, N. (A)
Schwartz, C. J. (A)
Seaver, W. H. (M)
Sheffield, T. W. (M)
Shreckengost, R. C. (SM)
Smith, G. S. (SM)
Smythe, R. C. (M)
Staschke, R. A. (A)
Stateler, D. V. (M)
Stelene, L. H., Jr. (A)
Sternbach, S. J. (A)
Stevenson, G. D. (A)
Stupp, R. L. (M)
Suganuma, P. K. (A)
Tanguay, A. R. (SM)
Tipton, R. W. (A)
Trutter, J. A. (A)
Tucker, R. W., Jr. (M)
Turner, R. E. (M)
Watson, D. E. (M)
Williams, W. T. (M)
Wilson, S. J. (A)
Wong, J. B. (A)
Woolsey, W. O. (M)
Yarbrough, J. E. (SM)
Yokomoto, R. K. (A)

Ormand Beach (CF-3)
Lee, E. H. I. (SM)

Palm Bay (CF-3)
Haff, M. C. (M)
Mesa, J. O. (SM)

Palm Harbor (F-WC-3)
Everitt, B. A. (M)

Panama City (NWF-P-3)
Ault, J. F. (M)
Barry, C. J. (M)
Bell, L. W. (M)
Bryant, W. E., Jr. (M)
Buffkin, W. R. (M)
Cartwright, C. C. (M)
Crosby, A. E. (M)
Davis, A. J. (M)
De Coutouly, G. C. (SM)
Galloway, R. T. (M)
Hagemann, J. (SM)
Haulman, C. A. (SM)
Harper, F. M. (M)
Holm, C. H. (M)
Jones, L. F. (M)
Keenan, E. L. (M)
Koesy, C. B. (M)
Lloyd, B. H. (M)
Lowry, R. C. (M)
Marley, S. B. (M)
Mathis, G. P. (M)
Miller, C. E., Jr. (M)
Moody, J. G. C. (M)
Murphree, F. J., Jr. (M)
Naas, H. M. (M)
Naeseth, M. H. (A)
Penton, H. H. (M)
Rhyne, W. A. (M)
Tedesco, J. R. (M)
Teel, W. A. (M)
Thomas, A. M. (M)
Wells, W. E. (M)
Wheeler, R. H. (M)
White, P. K. (M)
Whittaker, C. A. (M)

Pass-A-Grille Beach (F-WC-3)
Cohen, H. (M)

Patrick AFB (CF-3)
Abbitt, C. W. (M)
Black, R. L. (A)
Blake, J. T. (M)
Borders, C. R. (SM)
Burgen, J. G., Jr. (M)
Clark, G. L. (A)
Diehl, D. J. (A)
Fada, C. V. (M)
Haberhern, W. J., Jr. (M)
Hafer, F. L. (M)
Hamerman, L. (M)
Hart, C. L. (A)
Keifer, L. F., Jr. (M)
Leal, C. V. (A)
McCoy, S. E. (M)
McLean, R. C. (M)
Miller, J. S. (M)
Moran, F. D. (SM)
Orman, L. M. (SM)
Paul, H. C. (A)
Ross, J. A. (M)
Schum, E. J. (A)
Sellars, R. F. (M)
Sinclaire, L. W. (A)
Smallwood, W. O. (M)
Spontak, J. (M)
Strinkowski, N. W. (A)
Thatcher, E. V. (SM)
Yates, D. N. (SM)
Young, W. L. (M)
Zinn, T. B., Jr. (M)

Pensacola (NFW-3)
Earps, E. W. (A)
Fisher, D. E. (M)
Hixson, W. C. (M)
Kohr, C. M. (A)
Moore, B. G., Jr. (A)
Simpson, E. S., Jr. (A)
Sutherland, W. R. (M)

Pine Castle (CF-3)
Chin, W. Y. (A)

Pinecastle AFB (CF-3)
Duvoisin, P. F. (A)

Pinelas Park (F-WC-3)
Cozart, A. B. (M)
Cypherd, V. M. (A)

Plant City (F-WC-3)
Cockrell, J. H. (A)
Kendrick, F. D. (M)

Plymouth (CF-3)
Chaney, H. L. (M)

Pompano Beach (MIA-3)
Johnson, T. B. (M)
Pitman, G. R., Jr. (M)

Port Canaveral (CF-3)
Hunt, G. W., Jr. (M)
Jacoby, M. C. (M)
Mazur, D. G. (SM)
Sanders, A. W. (M)
Sheppard, D. C. (M)

Riviera Beach (MIA-3)
Cordell, B. P., Jr. (M)

Rockledge (CF-3)
Childers, F. M. (A)
Dunham, K. D. (A)
Rawls, O. B. (A)

Safety Harbor (F-WC-3)
Legg, H. F. (A)

St. Augustine (CF-3)
Berger, M. (A)

St. Petersburg (F-WC-3)
Adkisson, W. M. (M)
Adler, J. I. (M)
Allan, W., Jr. (A)
Aucremann, R. C. (M)
Auletta, D. J. (A)
Back, G. I. (F)
Bare, C. C. (M)
Bellare, D. (SM)
Boulay, R. R. (A)
Brissenden, P. (A)
Carlson, K. L. (A)
Carnevale, V. D. (M)
Carr, G. W. (SM)
Chiodo, L. A. (A)
Codding, W. J. (M)
Colbert, D. C. (M)
Cooper, C. B. (A)
Coucilman, C. L. (SM)
Davis, J. H. (M)
Denney, J. M. (M)
Dingley, E. N., Jr. (F)
Donaldson, M. R. (SM)
Donnelly, C. P. (SM)

Dyer, J. H. (M)
Edwards, N. L. (A)
Eliason, M. C. (SM)
Ernst, F. (A)
Feldhusen, R. L. (A)
Felton, L. E. (SM)
French, B. V. K. (SM)
Garrett, W. F. (A)
Garver, R. H. (A)
Goldberg, H. L. (A)
Goldie, S. P. (M)
Gonzalez, D. (A)
Gott, V. L. (A)
Gray, F. (M)
Griesser, T. F. (SM)
Griesi, R. N. (A)
Grubb, C. J. (A)
Halem, N. (A)
Hall, C. L. (A)
Hamblin, L. A. (A)
Hart, W. F. (A)
Haughton, W. B., II (A)
Hemmer, F. A., Jr. (M)
Hoffman, R. S. (M)
Horner, G. F. (A)
Jelen, M. J. (SM)
Johnson, B. (M)
Johnson, R. E. (M)
Katelansky, P. (M)
Keeler, C. E. (SM)
Keen, R. H. (A)
Kent, R. (SM)
Klein, M. S. (SM)
Knight, C. J. (SM)
Langmack, C. E. (M)
Lawton, G. P. (SM)
Levine, A. (M)
Lindtner, E. G. (A)
Ludwick, C. A. (A)
Martoccia, F., Jr. (M)
Miller, M. P. (A)
Mohr, P. A. (M)
Munday, T. W. (A)
Myers, R. T. (M)
Nadler, M. (A)
Nations, C. T. (M)
Paparielio, P. J. (A)
Paris, H. T. (A)
Parry, J. O. (A)
Parvin, R. H. (M)
Peacock, W. T., Jr. (A)
Pelton, E. A. (A)
Phillips, J. E. (M)
Rea, J. K. (A)
Ross, N. E. (A)
Saraydar, R. A. (M)
Schieferstin, R. W. (M)
Schinski, D. L. (A)
Sereno, C. A. (SM)
Sibley, R. C. (A)
Simon, L. H. (M)
Smith, M. P. (M)
Snipes, W. C. (A)
Snyder, H. Z. (SM)
Soldwedel, H. T. (SM)
Stebbins, R. S. (A)
Streicher, M. (M)
Sullivan, Arnold W. (SM)
Taylor, J. R. (A)
Versteeg, D. A. (A)
Voissem, N. H. (M)
Wagner, J. K. (A)
Wahlman, J. E. (A)
Walker, G. (M)
Walker, R. G. (M)
Wallis, E. R. (M)
Weaver, H. R. (M)
Webber, J. T. (A)
Wells, E. L. (A)
Wenz, C. P. (SM)
White, E. L. (F)
Wilcox, H. J., Jr. (M)
Willert, A. F. (A)
Willing, H. A. (M)
Wilson, R. G. (A)
Wilson, R. F. (M)
Woelgesy, J. D. (M)
Wolf, H. V. (M)

St. Petersburg Beach (F-WC-3)
Koechel, W. P. (VA)
Landry, W. J. (SM)
Willis, A. H. (M)

Sanford (CF-3)
Farrell, C. (M)
Knight, L. A. (M)
Patrick, H. D. (A)
Reel, W. R. (A)
Taylor, J. C. (M)
Woodruff, M. W. (M)

Sarasota (F-WC-3)
Belkin, M. (M)
Cohen, M. H. (M)
Fisher, S. (SM)
Greenwald, H. (M)
Janda, F. J. (A)
Kramer, A. W. (SM)
Loper, L. E. (A)
Peck, W. D. (A)
Schuster, N. A. (SM)
Spencer, L. V. (M)
Stewart, T. E., Jr. (A)
Swain, W. H. (A)
Thorpe, C. R. (A)
Tisdale, G. E. (M)
Ulrey, D. (F)
Wierenga, W. B. (A)

Shady Grove (CF-3)
Bailey, J. W. (A)

Shalimar (NWF-3)
Bonner, J. R. (M)
Gamel, W. W. (M)
Little, W. E. (A)
Niedrauer, J. J. (M)
Null, F. E. (A)
Overton, B. H. (SM)
Reierson, V. L. (M)
Roth, A. Q. (M)
Rush, O. A., Jr. (A)
Shea, J. H. (A)
Von Wegern, F. C. (A)

Sharpes (CF-3)
Malcolm, A. (A)
Olson, R. E. (M)

South Merritt Island (CF-3)
Bass, D. C. (M)

South Miami (MIA-3)
Andres, L. J. (SM)
Lucas, F. B. (SM)
Rich, R. S. (A)

Surfside (MIA-3)
Lurie, E. M. (SM)

Tallahassee (NWF-3)
Clifton, C. L. (M)
Grafe, R. W. (A)
Hall, H. (SM)
Kromhout, O. M. (A)
Ragsdale, W. E. (M)
Salfer, R. A. (M)
Whitehurst, C. H., Jr. (A)

Tampa (F-WC-3)
Abremski, M. C. (A)
Bailey, D. C. (M)
Bascome, P. L. (A)
Begue, E. (M)
Bell, E. W., Jr. (A)
Bellavia, L. J. (A)
Boyd, R. M. (A)
Brice, J. R. (M)
Brown, L. C. (A)
Chandler, W. G. (M)
Cleoteiis, H. J. (M)
Ferguson, H. S. (A)
Findley, L. K. (SM)
Gonsales, R. E. (M)
Hackert, W., Jr. (A)
Hartman, C. J. (M)
Hogue, D. C. (M)
Jean, R. P. (M)
King, C. J. (M)
Kotze, J. (A)
Landry, E. P. (A)
Mattes, E. H. (A)
May, T. W. (A)
McDaniel, C. B. (A)
Meksraitis, J. J. (A)
Mitchell, J. H. (M)
Moor, W. L. (M)
Moore, W. P. (SM)
Murphy, R. (SM)
Neeb, C. H. (A)
Nores, R. P. (M)
Nott, J. H. (M)
Prendes, J. R. (A)
Quinones, D. E. (A)
Raines, R. M. (A)
Randell, R. R. (M)
Rich, J. C. (A)
Roberts, M. R. (A)
Rosenzvaig, J. E. (M)
Schnurman, J. D. (M)
Smith, D. H. (SM)
Stoutenburg, A. H. (A)
Tolan, D. J. (M)
Turner, R. D. (A)
Uranga, E. (A)
Wait, B. W., III (M)
Wascher, M. A. (A)
Weldon, J. W. (M)
Winfree, W. C., Jr. (A)

Tarpon Springs (F-WC-3)
Ball, M. T. (M)
Blakeslee, K. L. (M)

Titusville (CF-3)
Bridges, D. B. J. (M)
Chaitoff, M. (A)
D'Albora, J. B., Jr. (SM)
Davidson, H. K. (M)
Davidson, J. K. (M)
Gilmore, Q. E. (M)
Grieser, T. J. (M)
Grimm, E. M. (M)
Herndon, W. F. (A)
Jackson, K. J. (M)
Morford, T. H. (M)
Pittman, J. W. (A)
Schenck, A. K. (M)
Sieman, H. A., Sr. (SM)
Stroud, A. A. (A)

Treasure Island (F-WC-3)
Arena, F. G. (A)
Augustine, E. F. (A)

Tyndall AFB (NWF-P-3)
Wallner, F. S. (M)

Umatilla (CF-3)
Vossberg, C. A. (M)

Valparaiso (NWF-3)
Sapp, E. F., Jr. (M)
Vermillion, R. K. (A)
Womack, K. K. (M)

Vero Beach (CF-3)
Chorpening, C. M. (M)
Paddock, D. G. (M)
Stomberg, G. W. (M)
Van Dyck, A. F. (F)

Warrington (NWF-3)
Haeckler, W. K. (M)

West Hollywood (MIA-3)
Quackenbush, F. R. (A)

West Miami (MIA-3)
Konter, P. (A)
Speirs, G. E. (A)

West Palm Beach (MIA-3)
Edleman, V. W. (A)
Field, J. S., Jr. (M)
Holdren, E. H. (M)
Lewis, T. F. (A)

Winter Garden (CF-3)
Gray, A. R. (SM)

Winter Haven (F-WC-3)
Ahern, H. G. (A)
Craig, L. O. (M)

Winter Park (CF-3)
Birge, W. A. (A)
Center, M. (SM)
Childs, H. W. (M)
Cooper, G. (M)
Doolittle, J. H. (SM)
Engstrom, R. H. (A)
Eagle, G. R. (A)
Dawson, J. B. (M)
Dryden, R. E. (SM)
Gimon, E. E. (M)
Harrison, P. W. (SM)
Haydon, R. E. (SM)
Holmes, G. A. (A)
Luckock, W. J. (M)
Lyden, J. A., Jr. (M)
Masur, E. F. (A)
Meara, V. T. (M)
Norman, L. S., Jr. (M)
Pierson, C. D., Jr. (SM)
Riley, C. L., Jr. (M)
Romano, G. F. (M)
Ryder, A. V. (M)
Wood, R. M., Jr. (SM)

Yukon (CF-3)
Walter, E. R. (A)

GEORGIA

Albany (ATL-3)
Harris, J. W., Sr. (A)
McClung, W. C. (M)

Athens (ATL-3)
Graham, E., Jr. (M)

Atlanta (ATL-3)
Adamson, H. D. (A)
Aderhold, H. J. (M)
Akerman, B. (SM)
Badgett, A. F. (M)
Bangs, P. C. (M)
Bennett, A. L. (SM)
Benson, J. W., Jr. (A)
Berry, G. C. (A)
Bezaire, W. A. (A)
Bivins, W. P. (M)
Blackwell, T. E. (A)
Blaine, W. E. (A)
Blakely, C. E. (M)
Bondy, H. A. (VA)
Boyd, J. E. (SM)
Boyd, J. E. (A)
Bradley, W. H. (M)
Buchanan, D. B. (M)
Carr, R. T. (A)
Chick, E. B. (M)
Clayton, L., Jr. (M)
Cook, L. H., Jr. (A)
Corriher, H. A., Jr. (M)
Craddock, H. C., Jr. (M)
Crowe, W. H. (M)
Dasher, B. J. (SM)
Daugherty, C. F. (M)
Dean, H. G., Jr. (M)
Duggan, R. S., Jr. (M)
Ecker, H. A. (M)
Ellis, R. L., Jr. (M)
Fausett, F. (SM)
Ferris, R. C. (A)
Fielder, D. C. (SM)
Finn, D. L. (M)
Flynt, E. R. (SM)
Foster, H. O. (M)
Glenn, L. E. (M)
Golsen, C. H. (A)
Haertig, M. M. (M)
Haire, D. E., Jr. (M)
Hammel, R. A. (A)
Hammond, J. L., Jr. (M)
Hawthorne, G. B., Jr. (M)
Hayes, K. D. (M)
Holbrook, R. A. (M)
Holley, E. (A)
Hollis, J. S. (M)
Holmes, E. G. (SM)
Hurd, F. K. (M)
Hutchison, P. T. (M)
Johnson, R. C. (M)
Jones, C. T. (M)
Jones, C. E., Jr. (A)
Kleinman, R. L. (A)
Lenoir, S. P., Jr. (M)
Lindsey, E. B., Jr. (M)
Long, J. T. (A)
Long, M. W. (SM)
Longino, D. R., Jr. (A)
Lord, C. R. (M)
McCorvey, A. (M)
McKinley, H. L. (SM)
Meadows, H. E., Jr. (M)
Meek, R. E. (M)
Miller, W. B., Jr. (SM)
Montgomery, B. E. (SM)
Morris, K. G. (M)
Olson, C. O. (M)
Opie, A. (SM)
Owen, W. A. (M)
Parkins, F. A. (M)
Penney, A. T. (A)
Pidgeon, R. E., Jr. (A)
Ragsdale, H. W. (SM)
Randall, T. M. (A)
Reid, H. L. (VA)
Rivers, T. A. (A)
Robinette, S. L. (M)
Robinson, G. P., Jr. (SM)
Rymer, R. H. (A)
Skelly, P. G. (A)
Smith, J. B. (A)
Smith, S. R. (SM)
Strain, C. E. (M)
Syn, W. M. (M)
Teegardin, H. H. (A)
Tolan, J. H. (SM)
Turner, C. L., Jr. (M)
Turvey, F. P., Jr. (A)
Walsh, J. R., Jr. (M)
Weimer, R. H. (A)
White, T. M., Jr. (M)
White, W. H. (M)
Witt, S. N., Jr. (A)
Worley, J. F. (A)
Wright, W. W. (M)
Young, R. L., Jr. (A)

Augusta (ATL-C-3)
Dunlap, C. R. (SM)
Hudson, C. A. J. (A)
McKee, T. A. (M)
Swink, J. E. (A)
Tarpley, M. W. (M)
White, B. F. (A)
Wright, J. T. (M)

Austell (ATL-3)
Bowles, M. K., Jr. (M)

Bainbridge (ATL-3)
Forrest, J. G., Jr. (M)

Brookhaven (ATL-3)
Vaughn, C., Jr. (SM)

Brunswick (ATL-3)
Laine, L. C. (M)
Smith, J. E. (M)
Weiland, E. H. (M)

Carrollton (ATL-3)
Crawford, E. W. (M)

Chamblee (ATL-3)
Baran, M. (SM)
Carter, R. C. (M)
Duncan, C. L. (SM)
Prince, M. D. (SM)
Wallace, J. M., Jr. (M)

Cochran (ATL-3)
Roth, F. P. (M)

College Park (ATL-3)
Billings, R. H. (M)

Collins (ATL-3)
Gladin, J. (A)

Columbus (ATL-3)
Des Portes, C. (M)
Gamble, J. A. (M)
Hogencamp, H. C. (SM)

Dalton (ATL-3)
Andrews, J. S. (A)

Decatur (ATL-3)
Alexander, J. E. (M)
Currie, C. H. (A)
Glenn, W. L., Jr. (M)
Moore, W. H. (M)
Robertson, D. W. (SM)
Seanor, J. C., Jr. (M)
Sorelle, J. L. (M)
Warren, W. B., Jr. (M)
Wilson, J. C. (M)

Doraville (ATL-3)
Chupp, E. W. (M)
Goodwin, J. P., Jr. (M)
Shockley, T. D., Jr. (M)

Dunwoody (ATL-3)
Payne, J. V., Jr. (M)

East Point (ATL-3)
Brewer, R. V. (A)
Hunt, J. N. (A)

Emory University (ATL-3)
Fattig, W. L. (M)

Fayetteville (ATL-3)
Day, J. T., Jr. (M)

Ft. Benning (ATL-3)
Rodgers, S. M. (A)

Ft. Gordon (ATL-3)
Galloway, R. E., Sr. (SM)
Wurdemann, W. H., Jr. (SM)

Fort Stewart (ATL-3)
Clark, M. C. (M)
Thomas, E. C. (M)

Hunter AFB (ATL-C-3)
Conner, B. C. (A)

Kennesaw (ATL-3)
Borman, A. P. (A)

Macon (ATL-3)
Farber, E. (M)
Hildreth, H. J. (A)

Marietta (ATL-3)
Davis, C. C. (M)
Dunphey, H. B., Jr. (M)
Griffin, C. H., Jr. (M)
Haley, D. C. (A)
Holder, F. P. (SM)
Holliday, F. S. (M)
Jackson, J. C. (M)
Moseley, R. E. (M)
Ridenour, S. (A)
Stebbins, C. W. (M)
Stiltz, H. L. (M)
Whiffen, M. C. (A)
Wilkinson, L. E. (A)
Wrigley, W. B. (SM)

North Atlanta (ATL-3)
Gunson, D. O. (M)

North Decatur (ATL-3)
Bradburn, R. C., Jr. (A)

Pooler (ATL-C-3)
Newham, H. E. (A)

Powder Springs (ATL-3)
Luedtke, A. (M)

Rome (ATL-3)
Pullen, M. F. (A)
Starr, R. A. L. (M)

Savannah (ATL-C-3)
Baker, F. E. (A)
Bigbie, E. F. (A)
Chambers, D. T. (A)
Drollinger, R. H. (M)
Goodman, K. E. (M)
Love, W. R. (A)
Miller, C. C. (M)
Nilsson, W. H. (A)
Turner, J. I. (A)

Smyrna (ATL-3)
Blanks, B. L. (M)
Ehrhart, E. H. (M)
Hurst, H. C. (A)
Jones, R. C., Jr. (A)
Reagh, W. L. (M)
Spencer, J. M., Jr. (M)

Summerville (ATL-3)
Stowers, J. S. (M)

Thomasville (ATL-3)
Totman, S. (M)

Thomson (ATL-3)
Dozier, W. A. (M)

Valdosta (ATL-3)
Grace, E. H., Jr. (A)

Warner Robins (ATL-3)
Adams, O. E. (M)
Bugg, K. W. (SM)
Gilflen, L. J. (M)
Kahrs, E. R. (M)
Parris, R. D. (A)
Wallis, C. L. (A)
Watts, E. B. (A)

West Point (ATL-3)
Hogg, J. C., Jr. (A)
Strother, F. P. (A)

IDAHO

Bayview (SEA-7)
Huckle, D. R. (M)

Boise (SLC-7)
Betebenner, G. W. (M)
Oberbillig, D. D. (M)
Ryman, J. L. (M)
Sternling, A. J. (M)

Idaho Falls (SLC-7)
Blitch, M. G. (M)
Brockett, G. F. (M)
Cochran, U. E. (A)
Criddle, C. B. (M)
Erickson, P. B. (M)
Kendron, J. H. (M)
Kukowski, J. F. (M)
Marsden, R. S., Jr. (M)
McCollom, K. A. (M)
Meichle, F. A. (A)
Purcell, R. B. (M)
Thompson, J. B. (A)

Lewiston (SEA-7)
Neumann, W. E. (M)
Olin, R. W. (M)

Moscow (SEA-7)
Beattie, L. A. (A)
Maxwell, L. M. (M)

Mountain Home AFB (SLC-7)
Ward, J. R. (M)
Minich, C. E. (M)

Palisades (SLC-7)
Alps, R. B. (M)

Pocatello (SLC-7)
Barkley, H. B., Jr. (M)
Gilmour, G. A. (M)
Judge, H. (M)
Kleffner, R. E. (A)

Rockford Bay (SEA-7)
Webb, H. J. (M)

St. Anthony (SLC-7)
Rudd, F. S. (M)

Twin Falls (SLC-7)
Foss, M. L. (M)

Weiser (SLC-7)
Miller, E. C. (M)

ILLINOIS

Addison (CHI-5)
Lindsay, W. R. (M)
Roberts, E. L. (M)
Russell, W. W. (M)

Algonquin (CHI-5)
Peterson, W. G. (SM)

Alton (SL-6)
Alexander, W. (M)
Day, R. T., Jr. (M)
Ullrich, D. P. (A)

Antioch (CHI-5)
Balsamello, J. (A)
Pechousek, T. W. (A)

Argo (CHI-5)
Pickens, D. H. (SM)

Arlington Heights (CHI-5)
Bez, R. O. (A)
Bonnell, D. W. (M)
Coblens, A. (SM)
Coolidge, J. E. (M)
Gerlach, A. A. (SM)
Hampel, W. J. (M)
Heisig, G. J. (M)
Koerits, K. W. (M)
Kopp, C. J. (M)
Lee, W. (A)
McCarty, J. M. (A)

Melvin, D. K. (A)
Mueller, A. A. (M)
Panec, D. O. (M)
Patterson, W. S. (VA)
Raef, A. J. (A)
Remley, H. L. (M)
Revor, R. J. (M)
Robinson, B. H., Jr. (M)
Robinson, G. D. (M)
Ross, E. O. (M)
Saxe, R. E. (M)
Seestedt, H. C. (SM)
Stout, E. R. (M)
Walker, L. G. (SM)
Wallace, H. S. (M)
Wegwert, J. (M)
Weltin, O. K. (SM)
Weirich, E. M. (SM)
White, J. F., Jr. (M)

Atlanta (CHI-5)
Speciale, J. S. (A)

Aurora (CHI-5)
Bartimes, G. F. (M)
Golz, H. C. (A)
Gramley, W. D. (M)
Lamb, C. (M)
Schultz, R. J. (M)
Sperelakis, P. (M)
Ziegler, A. A. (A)

Barrington (CHI-5)
Adler, W. A. (A)
Aram, N. W. (M)
Carlson, W. J. (A)
Faullin, R. R. (M)
Gelzer, J. R. (M)
Krumhardt, C. (A)
Landeck, J. H. (M)
Nearing, F. G. (M)
Reichenbach, R. K. (M)
Stroh, W. J. (SM)

Bartlett (CHI-5)
Tappan, P. W. (M)

Batavia (CHI-5)
Siekman, W. J., Jr. (A)

Belleville (SL-6)
Belanger, D. S. (M)
Bright, J. A. (M)
Delbridge, D. S. (M)
Fitta, E. R. (M)
Huffman, H. R., Jr. (A)
Johnson, P. B. (M)
Moss, J. F. (A)
Nance, M. E. (A)
Nance, W. F. (M)
Newsom, B. B. (M)
Pfister, R. C. (M)
Reiniger, R. A. (A)
Scharringhausen, R. L. (M)
Stewart, J. H. (A)
Swantz, F. W. (SM)
Walters, W. R. (A)

Bellwood (CHI-5)
Baltezore, R. C. (A)
Belville, J. R. (M)
Castor, R. W. (M)
Graham, J. M. (M)
Lafferty, V. C. (M)
Marik, E. (A)
Molzahn, H. W. (M)
Norris, C. H. (M)
Novy, C. A. (M)
Sellen, D. E. (A)

Bensenville (CHI-5)
Druz, W. S. (SM)
Hilton, F. L. (A)
Hynes, E. A. (M)
Ozarka, R. J. (A)
Saudinaitis, E. (A)
Sullivan, E. F. (M)
Swanson, C. W. (A)
Whiting, R. F. (M)

Berkeley (CHI-5)
Drobish, R. W. (A)
Eckmann, L. G. (A)
Weber, V. F. (A)

Berwyn (CHI-5)
Anderson, C. J. (M)
Brazda, J. C. (M)
Cermak, C. W. (M)
Fanta, F. A., Jr. (M)
Glozer, A., Jr. (A)
Jarrette, V. (SM)
Jendrzejczyk, J. A. (A)
Johnston, R. H. (M)
Kovar, G. F. (M)
Long, J. F., Jr. (A)
Mares, G. J. (M)
Mrazek, W. F. (M)
Niman, G. J. (M)
Prentiss, J. G. (SM)
Russ, W. E. (M)
Sawada, F. H. (SM)
Sladek, N. J. (A)
Valibora, S. M. (A)
Vitous, J. P. (A)
Zboran, L. (A)

Bloomington (CHI-5)
Moulic, W. E., Jr. (M)
Schweikert, W. R. (M)

Blue Island (CHI-5)
Damm, G. J. (A)
Lamcha, F. J. (A)
Quade, A. G., Jr. (M)
Stasiak, R. J. (A)

Bonfield (CHI-5)
Demmer, L. T. (M)

Broadview (CHI-5)
De Both, R. F. (A)
Gago, W. J. (M)
Gray, R. O. (SM)
Pallissard, J. W. (A)
Wood, R. D. (M)

Brookfield (CHI-5)
Blanchard, M. A. (A)
Foeste, W. E. (SM)
Hammel, J. P. (M)
Holpuch, D. J. (M)
Miller, J. O. (A)
Ruther, H. E. (M)

Buda (CHI-5)
Gish, C. G. (A)

Calumet City (CHI-5)
Oprisko, A. F. (A)

Carbondale (SL-6)
Waska, W. E. (M)

Carpentersville (CHI-5)
McGann, W. E. (M)

Caseyville (SL-6)
Poston, H. J. (A)

Champaign (CHI-5)
Albright, W. G. (SM)
Bliss, R. W. (A)
Coleman, P. D. (M)
Divilbiss, J. L. (M)
Harlan, J. R. (M)
Johnson, M. S. (M)
Kirkwood, B. D. (M)
Kreer, J. B. (A)
Leichner, G. H. (M)
Lo, Y-T. (A)
Mayes, P. E. (A)
Meagher, R. E. (M)
Myers, J. J. (SM)
Myers, R. L. (M)
Neal, J. P., III (M)
Nelson, A. W. (M)
Novick, R. (M)
Salvatore, J. (M)
Skaperdas, D. O. (M)
Smith, R. S. (M)
Thissell, J. D. (M)
Wainscott, J. M. (M)
Waters, J. I. (M)
Zakhaim, M. (A)

Chanute AFB (CHI-5)
Palmer, L. N. (SM)

Chapin (CHI-5)
Fricke, K. M. (A)

Chicago (CHI-5)
Abraham, J. (M)
Adamson, A. C. (A)
Addison, W. G. (M)
Adler, R. (F)
Affrunti, A. J. (M)
Ahring, F. E. (A)
Aito, Isamu (M)
Akerman, S. (A)
Akimoto, W. M. (M)
Allen, H. A. (A)
Allen, P. G. (M)
Allibone, F. L. (A)
Alspaugh, K. E. (A)
Amboe, C. (M)
Anagnost, A. L. (A)
Anagnost, J. T. (SM)
Anderson, D. L. (M)
Anderson, R. C. (M)
Anderson, R. S. (A)
Anderson, T. V. (A)
Anderson, T. W., Jr. (M)
Anton, A. J. (A)
Antonaglia, J. R. (A)
Apfelbaum, J. G. (M)
Argall, G. J. (M)
Argy, T. W. (M)
Arndt, R. J. (M)
Arnow, C. L. (M)
Aronson, H. A. (M)
Ashenhurst, R. L. (M)
Atkinson, W. H. (A)
Attard, A. E. (A)
Austin, H. R. (M)
Backstrom, E. F. C., Jr. (A)
Barile, T. M. (M)
Bass, S. (M)
Bates, W. J. (M)
Battigelli, L. M. (A)
Baum, J. W. (A)
Bean, J. A. (A)
Becker, H. W. (M)
Becker, W. R. (M)
Beier, L. W. (M)
Berg, A. A. (M)
Bergen, H. A. (M)
Berger, J. (SM)
Berkowitz, H. (A)
Bernat, L. (M)
Bialek, S. T. (M)
Beynon, D. J. (M)
Biberman, L. M. (SM)
Bien, F. I. (M)
Biernat, W. M. (M)
Bilek, R. W. (M)
Binkis, A. M. (M)
Bird, E. H. (A)
Blahna, C. (SM)
Blinoff, W., Jr. (A)
Blomberg, R. C. (A)
Bloomenthal, S. (M)
Bloomquist, L. A. (A)
Blumenberg, A. (M)
Bluzat, C. R. (A)
Bodoh, A. G. (SM)
Borovik, D. I. (M)
Bowen, J. L. (VA)
Boyd, G. M. (A)
Boyll, L. O. (A)
Bracha, M. F. (A)
Branscome, E. O. (A)
Brant, E. D. (A)
Bristol, S. M. (M)
Brock, W. R. (M)
Brodkowicz, J. S. (M)
Brown, J. S. (SM)
Brown, J. W. (A)
Brown, L. E. (M)
Bruce, C. R. (M)
Brunsting, A. W. (A)
Buchholz, F. G. (M)
Buckler, R. A. (A)
Buckley, J. K. (A)
Bull, R. W. (M)
Burgwald, G. M. (M)
Burmeister, M. A. (M)
Buschke, H. A. (M)
Buzzard, C. R. (M)
Camillo, C. (SM)
Cappels, J. L. (SM)
Carlson, D. A. (A)
Carlson, G. I. (M)
Carter, A. J., Jr. (A)
Carter, R. (A)
Casper, R. (M)
Cederberg, R. D. (A)
Chalmers, E. D. (M)
Chandler, J. F. (SM)
Chapman, R. H. (M)
Cherskov, J. S. (A)
Chittenden, G. W. (M)
Chiu, P. (M)
Choncholas, J. J. (M)
Christensen, R. T. (M)
Christensen, R. E. (M)
Chulsky, I. (M)
Cinelli, G., Jr. (M)
Claras, C. W. (M)
Clardy, L. (M)
Clark, F. J., Jr. (M)
Clark, R. A., Jr. (M)
Cleveland, V. K. (A)
Cody, R. W. (A)
Cohen, L. M. (M)
Cohen, T. A. (SM)
Cohn, C. M. (A)
Cohn, G. I. (SM)
Cohn, J. (M)
Colbert, J. R. (M)
Cololan, J. (A)
Condron, W. F. (A)
Contos, P. G. (M)
Contri, A. (A)
Conwell, M. E. (M)
Cook, R. H. (M)
Cooper, H. K. (A)
Copeland, P. L. (M)
Cord, J. H. (M)
Cortright, R. D. (M)
Costello, L. B. (M)
Coulter, W. H. (M)
Cox, C. R. (SM)
Cramer, G. T., Jr. (M)
Crampton, G. W. (M)
Crites, A. B. (A)
Cromer, E. G. (M)
Crossley, A. (SM)
Currier, M. G. (M)
Cushman, E. A. (A)
Dahlin, E. K. (M)
Dailing, J. L. (A)
Daileton, S. A. (A)
Daniels, H. B. (A)
Davidson, P. (A)
Davis, J. R. (M)
Decho, K. R. (M)
Deck, G. J. (A)
De Haan, J. (A)
Del Ciello, R. R. (A)
Demasy, J. (A)
De Rose, R. A. (M)
Desmares, P. C. J. (M)
Deterding, J. M. (M)
Dezettel, L. M. (A)
Djordjevic, M. Z. (M)
Doland, G. D. (M)
Drost, P. (A)
Du Chatellier, R. (M)
Duke, A. D. (M)
Du Mars, E. C. (A)
Duncan, C. W. (M)
Ebel, D. G. (A)
Ebstein, B. (M)
Ellett, A. (SM)
Ellis, C. O. (M)
Ellison, R. M. (M)
Elsner, R. F. (A)
Eltgroth, M. J. (SM)
Eme, K. J. (A)
Endo, C. M. (A)
Eness, O. M. (M)
Engel, J. E. (M)
Epstein, M. (A)
Erlandson, P. M. (SM)
Ernst, E. W. (SM)
Fabaits, E. J., Jr. (A)
Ferris, W. T. (VA)
Fetterman, D. M. (VA)
Fields, T. (SM)
Figel, W. G. (M)
Filips, R. P. (A)
Finlay, G. E. (A)
Fischer, A. J. (A)
Fisher, B. A. (SM)
Fisher, H. D. (A)
Fix, W. G. (M)
Flesher, G. T. (M)
Flocken, L. H. (SM)
Flower, W. (M)
Fluskey, C. J. (A)
Foecking, D. A. (M)
Foley, R. R. (A)
Fonte, G. (M)
Foss, H. (A)
Foster, G. E. (M)
Frank, R. B. (M)
Franklin, C. W. (M)
Franklin, W. S. (SM)
Freeman, R. L. (SM)
Freymodsson, J. B. (A)
Friedman, I. B. (M)
Fuglestad, K. R. (M)
Fujimoto, J. J. (A)
Fujimoto, K. K. (A)
Gallagher, F. H. (A)
Gamache, L. J. (SM)
Gardberg, J. (M)
Gassner, F. (A)
Gawel, E. W. (A)
Gayes, F. J. (M)
Gee, G. E. (M)
Gehmlich, A. P. (A)
Genovese, A. N. (A)
Gens, H. J. (M)
Gerber, H. L. (M)
Gerken, G. M. (M)
Germain, J. (SM)
Gershon, J. J. (SM)
Gerson, I. V. (M)
Giacchetti, A. D. (M)
Gjertsen, E. J. (A)
Glentzer, K. V. (SM)
Glyptis, N. (A)
Godawski, T. J. (A)
Goedeke, R. C. (M)
Goggio, E. C. (SM)
Goldman, H. J. (A)
Goldstein, M. (M)
Goldsworthy, W. T. (A)
Goncharoff, N. (M)
Gordon, E. S. (A)
Gray, D. (VA)
Greenberg, C. J. (M)
Greenebaum, E. N., Jr. (A)
Greenspan, P. (M)
Grimme, H. J. (M)
Grosse, K. E. (A)
Grossman, W. S. (A)
Gruen, H. E. (M)
Gruenloh, G. J. (A)
Gudmundson, R. R. (A)
Guzzey, J. E. (M)
Haas, Z. A. (A)
Hagey, W. C. (SM)
Halinton, H. (M)
Halligan, W. J. (M)
Halverson, S. L. (M)
Hamre, H. G. (M)
Hanan, J. P. (A)
Hanberg, S. M. (M)
Hanft, E. E. (M)
Hanik, P. (M)
Hankin, R. B. (A)
Hansen, T. A. (SM)
Hansen, W. H. (VA)
Harding, J. H. (M)
Hardy, H. C. (SM)
Harrigan, G. S. (SM)
Harris, A. (M)
Harris, E. F. (M)
Harvey, S. C. (M)
Haslett, J. W. (M)
Hassel, K. E. (SM)
Hassler, E. B. (SM)
Hay, E. (A)
Hayes, H. D. (SM)
Haynes, J. G. (A)
Henkle, H. H. (A)
Heppner, D. R. (M)
Hercher, F. J. (A)
Hessler, W. G. (M)
Higgins, D. P. (A)
Higgins, P. W. (A)
Himmel, I. (A)
Himmelstein, S. (M)
Hiraiwa, D. S. (A)
Hjermstad, H. (VA)
Hobbs, M. (SM)
Hoffman, F. A. (A)
Hoffman, H. E. (M)
Holley, M. V. (M)
Holpuch, C. J. (M)
Holubow, H. (M)
Homer, W. F. (M)
Hooper, W. D. (A)
Houvenagle, T. L. (M)
Horn, K. H. (A)
Horn, L. H. (SM)
Howe, J. K. (M)
Hu, A. Y. (M)
Hull, H. L. (SM)
Hunt, G. J. (A)
Imerson, H. E. (A)
Indra, J. J. (A)
Ingram, C. (A)
Inman, J. F. (SM)
Isaacson, R. S. (M)
Iverson, F. A. (M)
Iwaoka, I. S. (M)
Jacob, F. N. (SM)
Jacobsen, I. (A)
Jacobsohn, D. H. (A)
Jacobson, L. (M)
Jauniskis, K. P. (M)
Jeschke, D. R. (M)
Johnson, J. H. (M)
Jones, A. H. (A)
Jones, A. H. (A)
Jones, T. L. (M)
Jonigk, B. B. (M)
Juchnevicius, V. H. (M)
Jung, F. T. (A)
Jurriaans, G. F. (A)
Kale, G. W. (A)
Kane, J. R. (M)
Kantner, H. H. (M)
Kapoun, R. (M)
Kapteyn, P. (A)
Kazel, S. (A)
Keefe, J. T. (M)
Kehm, C. H. (M)
Keig, M. W. (A)
Keiter, C. W., II (A)
Keith, R. S. (A)
Keller, W. P. (A)
Kelly, E. P., Jr. (M)
Kelsey, L. C. (A)
Kemnitz, W. F. (A)
Kennedy, J. A. (M)
Kennedy, J. P. (SM)
Kenney, M. W. (SM)
Kiefer, J. C. (SM)
Kietzer, J. E. (A)
Kilburn, A. B. (M)
Kimball, J. A. (M)
Kingwill, H. S., Jr. (A)
Kirchner, L. P. (A)
Klapperich, A. J. (M)
Kloga, P. J. (M)
Kmiec, W. J. (A)
Knackstedt, G. (A)
Koch, F. W. (A)
Koda, A. J. (A)
Koerner, F. A. (SM)
Kohn, E. B. (M)
Kohn, M. I. (A)
Kolberg, E. G. (M)
Konecki, T. E. (A)
Kortright, F. U. (A)
Kott, W. O. (SM)
Kotter, A. S. (A)
Kottmeier, F. A. (M)
Kowitz, A. E. (SM)
Kowols, G. J. (A)
Kraitsik, N. I. (A)
Krakora, J. J., Jr. (SM)
Kraley, R. L. (M)
Krc, P. S. (A)
Krefft, H. H. (M)
Krehbiel, K. O. (M)
Kroll, J. B. (M)
Kratenansky, J. S. (A)
Krueger, R. M. (SM)
Krueger, W. F. (M)
Kruse, H. J. (A)
Kuhr, K. F. (A)
Kuloss, A., Jr. (A)
Kundrotas, A. P. (A)
Kurinsky, J. S. (M)
Kusack, W. P. (A)
Kutrumanes, C. P. (A)
Kvitek, G. L. (A)
Lace, M. A. (M)
Lagges, P. N., Jr. (M)
Lakowski, F. A. (M)
Lange, J. R. (M)
Langstaff, R. H. (M)
Larsen, K. W. (A)
Larson, R. J. (M)
Larson, W. L. (SM)
Leahy, P. J. (M)
Leatherman, J. E. (A)
Lee, D. K. K. (M)
Lee, W. (A)
Leedy, H. A. (SM)
Leff, M. (M)
Leitich, A. J. (M)
Lencioni, C. C., Jr. (M)
Leong, S. L. (M)
Leong, S. P. (M)
Leonhardi, J. O. (M)
Leopold, L. (M)
Lesko, L. W. (A)
Lesnick, R. N. (SM)
Leu, T. W. (M)
Levi, J. S. (M)
Levine, J. M. (A)
Levine, M. B. (A)
Lewin, N. L. (A)
Lewis, W. A. (SM)
Leysath, W. Q. (A)
Lezak, M. S. (M)
Liberman, A. (SM)
Liepold, R. B. (M)
Lilja, R. F. (A)
Lundberg, E. J. (M)
Luttgens, H. C. (SM)
Mackay, C. R. (SM)
Malinowski, S. (M)
Malone, P. P. (M)
Mansfield, R. (M)
Marable, H. E. (M)
Margala, A. J. (M)
Marinakos, L. C. (A)
Marshall, B. O., Jr. (M)
Marsland, H. W. (A)
Marszalek, H. L. (A)
Martin, C. B. (SM)
Martin, R. D. (A)
Martin, W. S. (M)
Martini, R. G. (M)
Marx, A. C. (M)
Masters, E. W. (SM)
Mateja, E. V. (A)
Matthews, L. E. (M)
Maximoff, B. S. (M)
May, R. L. (A)
Mayer, H. J. (A)
Mayoros, W. A. (A)
McCarrell, S. G. (M)
McClelland, W. B. (M)
McDonnell, J. P. (A)
McDougall, D. S. (M)
McGrail, J. G. (A)
McManus, J. E. (M)
Meagher, E. (M)
Mednieks, Z. (M)
Meehan, E. L. (A)
Meixner, E. J. (M)
Merrifield, L. A. (M)
Messinger, H. P. (M)
Meuer, A. (M)
Meyer, A. (A)
Meyers, F. (A)
Mikos, E. J. (M)
Miller, C. G. (A)
Miller, E. L. (M)
Minkus, F. (M)
Minkus, W. J. (M)
Miska, J. K. (M)
Mitchell, F. R. (M)
Mitchell, L. W. (M)
Mitchell, R. M. (A)
Mitchell, T. E. (A)
Mittelmann, E. (F)
Miyasaki, J. K. (A)
Moga, J. (A)
Molyneaux, R. J. (A)
Moon, R. J. (SM)
Morgan, G. M. (M)
Morris, L. P. (VA)
Moynihan, J. F. (M)
Mueller, E. L. (M)
Mueller, F. L. (M)
Mueller, R. W. (M)
Munday, T. M. (M)
Munn, R. J. (A)
Murnick, A., Jr. (M)
Murphy, T. C. (A)
Myse, A. G., Jr. (A)
Nail, J. J. (SM)
Neben, H. M. (SM)
Nelson, R. A. (A)
Nerwin, H. N., Jr. (M)
Ness, W. H. (M)
Neumark, J. (A)
Newman, J. E. (M)
Niederman, B. (SM)
Nierman, L. G. (M)
Niklas, W. F. (M)
Nishimura, H. G. (M)
Noble, D. E. (F)
Nolte, L. W. (M)
Noskowicz, T. S. (M)
Novak, J. F. (M)
Nover, E. P. (M)
Obog, L. F. (M)
O'Brien, E. (VA)
O'Connor, J. F., Jr. (A)

Oddsson, I. G. (A)
Odell, W. D. (M)
Oeste, R. A. (A)
Offner, F. (SM)
O'Grady, J. J. (M)
Oldfield, R. T. (A)
Olshan, S. (M)
Olson, C. E. (A)
Olson, G. A. (A)
O'Neal, C. D. (M)
O'Neill, R. M. (M)
Ore, G. A. (M)
Orr, B. B. (A)
Orvedahl, W. (M)
Owca, A. E. (M)
Padva, P. D. (A)
Palm, H. A., Jr. (M)
Panec, G. A. (SM)
Pankos, J. F. (A)
Pantalone, W. N. (M)
Parchim, N. J. (M)
Park, G., Jr. (M)
Parkinson, J. A. (M)
Pavela, H. W. (M)
Pawlus, J. (M)
Peach, L. C. (A)
Peacock, J. T. (A)
Pedersen, R. V. (M)
Peterson, C. D. (M)
Peterson, R. W. (M)
Peth, R. (M)
Pfaff, E. R. (SM)
Phinney, T. W. (A)
Pickering, T. A. (A)
Pinnell, R. M. (A)
Pipes, C. P. (A)
Plait, A. O. (M)
Poczwardowski, S. J. (M)
Podlusky, M. V. (SM)
Poel, L. R. (M)
Pohl, R. G. (SM)
Popp, J. V. (M)
Potocki, E. A. (M)
Powell, C. S. (M)
Powell, J. M. (M)
Pratt, R. E. (A)
Prince, R. T. (M)
Proctor, D. E. (A)
Pryst, T. S. (SM)
Pshenich, A. L. (M)
Puidak, H. (A)
Purvis, M. T. (A)
Quateman, M. H. (SM)
Quinn, J. L. (M)
Rabowsky, I. (M)
Race, R. T. (A)
Radcliffe, A. J., Jr. (M)
Rahmel, H. (SM)
Ramirez, L. (A)
Rasins, W. L. (A)
Ratliff, C. D., Jr. (A)
Rattray, A. I. (M)
Raucher, W. L. (A)
Rebeschini, I. C. (M)
Rees, W. L. (M)
Reichart, E. C. (M)
Reiling, G. E. (M)
Reinhold, W. D. (M)
Rekowski, M. J. (A)
Rennick, J. L. (SM)
Rett, H. C. (M)
Ribner, M. (M)
Rice, J. S. (M)
Rice, P. (A)
Richter, F. A. (M)
Riddel, O. A. (VA)
Rini, J. S. (M)
Robins, H. M. (A)
Rodriguez, A. E. (VA)
Rogers, A. A. (M)
Rogers, G. F. (SM)
Rohr, W. E. (M)
Ronning, H. (A)
Roschke, E. M. (SM)
Rose, L. L. (A)
Rosencranz, R. (M)
Ross, E. H. (SM)
Ross, K. B. (VA)
Rossi, C. V. (M)
Rossi, J. B. (A)
Roth, T. A. (A)
Rotter, A. (A)
Rounsaville, G. D. (M)
Rous, W. H. (A)
Rowe, C. R. (SM)
Rowe, T. L. (SM)
Rubinfien, D. (M)
Rusnak, M. (M)
Ryan, L. J. (M)
Rydin, R. A. (M)
Rymas, S. J. (A)
Sabel, C. L. (A)
Saffro, Y. L. (M)
Saltzberg, T. (M)
Samocki, C. J. (M)
Sances, A., Jr. (A)
Sandgren, G. E. (SM)
Saunders, H. O., Jr. (M)
Scanlan, T. J. (A)
Schafer, W. W. (A)
Scharding, R. M. (M)
Schiffelbein, W. L. (M)
Schlesinger, W. A. (M)
Schlueter, A. W. (A)
Schmaus, R. H. (A)
Schmidt, E. M. (M)
Schmidt, W. E. (M)
Schranz, R. J. (M)
Schrot, E. H. (SM)
Schultz, P. D. (M)
Schulz, R. (A)
Schulz, R. B. (M)
Schur, R. C. (M)
Schurak, K. M. (M)
Schwartz, B. S. (A)
Schwartz, J. (M)
Schwarzenbach, E. E. (M)
Sciaky, A. M. (M)
Segal, A. A. (M)
Shallcross, G. P. (M)
Shapira, F. M. (M)
Shapiro, L. (A)
Shea, G. J. (M)
Shevick, P. (M)
Shonerock, R. C. (M)
Shulman, A. (M)
Shutock, J. (A)
Sienkiewicz, S. V. (M)
Siff, A. W. (A)
Silberbauer, J. A. (A)
Silberg, S. (M)
Sinclair, D. C. (A)
Sivin, L. (A)
Skala, J. M. (A)
Skowron, A. J. (A)
Sloan, A. C. (A)
Slugodzki, L. K. (VA)
Slusser, W. S. (A)
Smith, A. P. (M)
Smith, H. E. (A)
Smith, R. H., Jr. (M)
Smith, S. B. (SM)
Smithana, D. R. (M)
Snick, J. A. (M)
Solfert, M. L. (M)
Solomon, J. L. (SM)
Solomon, S. S. (M)
Soma, R. (M)
Sorla, R. M. (F)
Soufal, F. H. (A)
Spano, A. (A)
Spisak, G. C. (A)
Spitz, H. (A)
Splitt, F. G., Jr. (A)
Stadler, R. (A)
Staral, R. (A)
Stauverman, R. J. (A)
Steinberg, E. E. (A)
Steinberg, P. S. (M)
Stemm, R. E. (M)
Stengel, C. W. (A)
Stern, M. (M)
Sternlicht, L. (M)
Stettler, C. O. (A)
Stone, C. H. (SM)
Stone, R. S. (A)
Stonevic, V. R. (M)
Surowiec, D. S. (M)
Suson, I. (M)
Sussman, M. (A)
Suzuki, E. (A)
Suzuki, T. (M)
Swain, J. E., Jr. (A)
Swan, L. L. (A)
Swanson, W. G. (A)
Swanstrom, N. C. (A)
Swenson, R. A. (A)
Swinyard, W. O. (F)
Switzenberg, E. A. F. (M)
Sydejko, J. F. (A)
Szegho, C. S. (F)
Tado, A. T. (A)
Tanner, D. J. (A)
Teder, H. (M)
Tegmeyer, J. R. (A)
Tellefsen, H. E. (A)
Thomas, C. B. (A)
Thomas, G. E. (M)
Thompson, J. E. (M)
Thompson, O. I. (SM)
Thurston, E. G. (M)
Timmings, G. H. (SM)
Tlapa, J. A. (M)
Todd, S. R. (SM)
Tong, F. F. (M)
Toy, T. G. (A)
Trittenbach, J. M. (SM)
Tritton, R. F. (A)
Tsao, P. Y. S. (M)
Turner, J. M. (A)
Tutle, E. G. (A)
Uelsmann, W. G. (A)
Uhl, M. H. (A)
Unger, E. E. (M)
Urban, R. F. (A)
Uyeda, M. M. (M)
Uyetani, B. (M)
Vaccaro, A. C. (A)
Valcik, L. (A)
Vance, G. (A)
Vanderwerf, J. L. (A)
Van Zeeland, W. A. (M)
Varone, R. A. (SM)
Verbanec, W. R. (M)
Viskanta, V. Z. (M)
Vitt, R. J. (A)
Von Pahlen-Fedoroff, G. (A)
Vuchetich, J. B. (A)
Wakabayashi, G. J. (M)
Walding, E. C. (M)
Wallin, G. (M)
Wallman, E. J., Jr. (M)
Warren, W. H. (M)
Watkins, D. M. (A)
Wazlo, C. J. (A)
Webb, E. M. (A)
Weber, K. C. (A)
Weber, L. J. (SM)
Weber, R. L. (M)
Weberg, K. H. (M)
Weil, E. A. (A)
Weinberg, M. (A)
Weisberg, A. M. (A)
Weise, D. (M)
Weisenburger, F. M. (M)
Weishar, W. J. (M)
Weiss, H. H. (A)
Weissman, R. M. (SM)
Welker, J. A. (A)
Wells, J. G. (M)
Weninger, F. L. (M)
Westerlund, C. T. (M)
Western, C. (A)
Wexler, J. L. (M)
Whinna, E. W. (A)
White, W. J. (A)
Whitmer, M. H. (A)
Whitmore, R. C. (A)
Whitney, S. D. (A)
Wichman, R. W. (M)
Wickline, B. D. (M)
Wiecek, E. J. (M)
Wiedro, S. B. (A)
Wigginton, R. J. (A)
Williams, J. J. (M)
Winner, B. A. (M)
Winter, G. L. (M)
Wlassow, S. (M)
Wolfe, F. R., Jr. (SM)
Wolff, J. R. (M)
Wolken, I. I. (M)
Wollack, N. J. (M)
Woo, K. W. (M)
Wood, C. E. (M)
Woodruff, A. E. (M)
Woods, A. A. (VA)
Wray, P. G. (A)
Wright, F. R. (A)
Wynstock, S. (A)
Yahalom, J. Y. (M)
Yasaka, E. K. (A)
Yaus, P. M. (A)
Yefsky, S. A. (M)
Yeslin, A. R. (M)
Yuen, P. C. (M)
Zaida, W. L. (A)
Zandall, R. R. (A)
Zilis, G. S. (M)
Zimbler, F. B. (M)
Zimmerman, D. A. (A)
Zitkus, A. J. (A)
Zucker, H. (M)

Chicago Heights (CHI-5)
Easterwood, H. W., Jr. (A)
Warner, D. L. (A)

Cicero (CHI-5)
Abrath, C. E. (A)
Gritton, R. D. (A)
Hajek, A. F. (M)
Herling, D. L. (M)
Jezek, J. E. (A)
Jucius, S. W. (M)
Karklys, J. (M)
Nielsen, M. I. (M)
Padgett, W. J. (A)
Slad, G. F. (A)
Tanana, E. J. (M)
Vlach, G. (A)
Wein, F. (A)
Woveris, L. J. (A)

Clarendon Hills (CHI-5)
Casey, P. J. (A)
Dawson, J. W. (A)
Hargis, R. N. (M)
Hessler, O. G. (SM)
Knox, J. G. (M)
Marks, M. (SM)
Sayles, H. L. (A)

Collinsville (SL-6)
Austin, L. S. (M)
Kovar, M. M. (M)
Roschke, T. H., Jr. (A)
Sobotka, H. J. (A)
Falk, B. (A)
Friend, H. H. (SM)
Grossel, R. L. (M)
Hawkins, B. C. (M)
Smith, G. B. (A)

Danville (CHI-5)
Booth, R. C. (M)
Furst, U. R. (SM)

Decatur (CHI-5)
Abfalter, H. F. (SM)
Barber, M. W. (A)
Cupp, E. W. (M)
Dikinis, D. V. (M)
Fathauer, G. H. (SM)
Koenig, H. G. (A)
Sarikas, R. H. (M)
Williams, D. A. (M)

Deerfield (CHI-5)
Clough, K. (VA)
Gertz, N. M. (A)
Haas, W. F. (A)
Mirkin, M. (M)
O'Connor, J. F. (A)
Petzing, E. W. (M)
Phillips, W. E. (M)
Schlote, R. H. (M)

De Kalb (CHI-5)
Andersen, C. W. (SM)

Des Plaines (CHI-5)
Adams, E. C. (A)
Beeson, W. E. (A)
Boyd, D. M., Jr. (SM)
Brooks, W. L. (M)
Bushman, S. F. (M)
Carr, R. W. (A)
Collins, F. V. (SM)
Doering, J. H., Jr. (A)
Gardner, B. H. (M)
Gifford, G. D. (A)
Githens, T. A. (SM)
Henrich, C. A. (A)
Himebrook, F. C. (M)
Koenig, G. (A)
Krizanosky, A. (A)
Lasalla, A. A. (A)
Lauffenburger, H. A. (A)
Loughran, R. H. (A)
Maine, C. P. (A)
Makinson, G. E. (M)
McDonald, W. H. (M)
Meyers, K. W. (M)
Naslund, R. S. (VA)
Payne, R. A. (A)
Perrault, R. E. (A)
Rathbun, E. R., Jr. (M)
Smith, P. A. (A)
Stanonis, A. F. (M)
Steele, A. L. (M)
Sundt, E. V. (SM)
Swanson, C. R. (M)
Utter, R. A. (A)

Dixon (CR-5)
Albright, L. E. (A)

Dolton (CHI-5)
Jezewski, J. E. (M)
Wajda, J. P. (M)

Downers Grove (CHI-5)
Bateman, L. A. (A)
Brookshier, W. K. (M)
Courchene, H. B. (SM)
Daniels, R. E. (M)
Eddy, W. L. (M)
Fitzsimmons, W. L. (A)
Frauens, W. R. (A)
Goertz, R. C. (M)
Harder, R. B. (M)
Hess, D. C. (M)
Johnson, A. R. (A)
Kampf, H. A. (SM)
Kikta, D. D. (A)
McDonell, W. J. (SM)
Miller, E. A. (SM)
Peckhart, M. A. (M)
Sieth, H. P. (A)
Walschon, E. G. (A)
White, R. F. (M)
Wood, R. E. (SM)

Dundee (CHI-5)
Wendt, R. H. (A)

Du Quoin (SL-6)
Millunzi, P. T. (A)

Dwight (CHI-5)
Seabert, F. (A)

East St. Louis (SL-6)
Barnard, G. E. (M)
Bauer, F. W. (A)
Mutchek, J. H. (A)
Naseef, F. (A)
Wise, H. G. (SM)

Elgin (CHI-5)
Brandes, W. M., Jr. (M)
Crago, P. H. (M)
Cropsey, D. V. (M)
Frankel, S. K. (A)
Irelan, H. F. (M)
Kercher, M. K. (A)
Kohout, R. J. (A)
Lang, G. W. (M)
Peterson, E. K. (SM)
Schimpf, R. G. (M)
Soper, G. T. (A)
Walters, P. M. (A)

Elk Grove Village (CHI-5)
Hrbek, G. W. (A)
Teslik, J. A. (M)

Elmhurst (CHI-5)
Aberer, J. C. (M)
Anderson, W. J. (A)
Bajars, E. (A)
Balhorn, D. W. (A)
Beaver, F. A. (A)
Beck, V. R. (SM)
Beier, M. G. (SM)
Berg, H. (M)
Block, A. F. (M)
Burrichter, L. L. (A)
Canfield, H. H. (M)
Chelgren, A. E. (SM)
Cox, B. O. (M)
Curry, A. A. (SM)
Davis, J. (SM)
De Shong, J. A., Jr. (SM)
Deterville, R. J. (M)
De Vries, A. J. (M)
Disney, V. H. (SM)
Fink, J. G. (M)
Geib, R. L. (M)
Gula, H. E. (M)
Gurtz, V. J. (M)
Haines, D. G. (SM)
Hissong, A. L. (M)
Horsch, J. R. (A)
Huston, P. D. (A)
Kasmar, R. A. (M)
Kearney, L. E. (M)
Keranen, E. W. (M)
Kocsis, L. L. (M)
Kroger, M. G. (SM)
Kutschke, E. F. (A)
La Taste, G. D. (A)
Liepelt, E. (M)
Liston, K. L. (A)
Marshall, F. R. (A)
McGee, C. G. (M)
Mingle, R. F. (A)
Nettifee, G. R. (M)
Pettegrew, J. B. (A)
Probeck, C. (SM)
Ramler, W. J. (M)
Rogers, C. H. (SM)
Ronzheimer, S. P. (SM)
Sandberg, E. L. (M)
Schultz, C. J. (M)
Smith, L. L., Jr. (A)
Spademan, C. F. (M)
Starek, R. A. (M)
Swisher, C. F. (M)
Thielen, L. R. (A)
Troxel, R. E. (A)
Vogt, A. L. (M)
Von Fredersdorff, G. C. (A)
Webster, S. K. (M)
Wellestat, C. E. (A)
Williams, J. T. (M)
Winemiller, H. R. (M)
Wray, W. C. (SM)

Elmwood Park (CHI-5)
Balsamello, J. (M)
Clark, D. K. (M)
Coon, W. B. (A)
D'Orio, A. F. (SM)
Fremming, H. O. (A)
Griffith, F. W., II (M)
Lindeman, R. J. (M)
Pakan, J. J. (M)
Rasmison, J. E. (M)
Svehaug, O. C. (A)
Wilson, M. J. (M)
Wolf, A. (A)

Evanston (CHI-5)
Aagaard, J. S. (M)
Beam, R. E. (F)
Bennett, R. E. (M)
Bowman, J. R. (SM)
Brauer, H. H. (SM)
Brown, A. C. L. (M)
Busch, A. E. (M)
Carlan, A. J. (M)
Childs, A. F. (M)
Cozzens, W. B. (SM)
Crimp, J. G. (SM)
Cudahy, M. J. (M)
Davis, G. L. (A)
Diedericks, J. K. (A)
Dirsa, E. F. (M)
Flan, A. (M)
Frank, W. K., Jr. (A)
Frerichs, R. (SM)
Garbarino, H. L. (SM)
Goodrich, E. W. (A)
Gregory, E. C. (SM)
Haase, J. A. (M)
Handy, R. M. (A)
Hart, J. W. (M)
Hollander, A. (M)
Horwitz, S. J. (M)
Hunter, T. C. (M)
Huxtable, C. K. (SM)
Jenness, R. R. (SM)
Jones, R. W. (SM)
Kalman, J. (M)
Kao, L. (M)
King, G. A., Jr. (A)
Lanphere, J. E. (A)
Lyon, J. A. M. (SM)
MacDonald, W. F. (M)
Maltby, A. I. (A)
Maxon, E. K. (M)
Murphy, G. J. (M)
Needle, J. S. (SM)
Noges, E. (M)
Orner, R. J. (M)
Paradise, M. E. (SM)
Paterson, W. L. (A)
Peugh, W. E. (M)
Potter, J. D. (A)
Prell, G. A. (M)
Prince, M. B. (SM)
Prisekin, C. (M)
Rockwood, C. H. (M)
Rollefson, K. E. (SM)
Saberson, C. J. (A)
Sabin, E. R. (A)
Schroeder, J. J., Jr. (M)
Shure, S. N. (M)
Sowell, J. B. (M)
Speck, L. P., Jr. (M)
Stewart, C. H., II (SM)
Struble, L. G. (A)
Thacher, L. A. (A)
Toth, W. S. (M)
Vanjepmond, H. K. (A)
Van Ness, J. E. (SM)
Voss, C. H., Jr. (M)
Ziegler, G. E. (SM)

Evergreen Park (CHI-5)
Hirsch, A. (M)
Kostyal, S. P. (M)
Venema, R. E. (A)

Fairbury (CHI-5)
Ellers, C. G. (M)

Flossmoor (CHI-5)
Caywood, T. E. (M)

Forest Park (CHI-5)
Armes, G. F. (M)
Fasick, R. C. (SM)
Grove, R. (SM)
Olson, E. L. (M)

Fox Lake (CHI-5)
Johnson, G. A. (M)

Franklin Park (CHI-5)
Brewster, F. C. (SM)
Brockett, D. F. (A)
Brumbach, J. F. (M)
Padgitt, K. W. (M)
Passow, L. F. (A)
Schoeneck, W. H. (A)
Swentek, M. R. (A)

Freeport (CHI-5)
Barker, V. S. (SM)
Coleman, J. J. (M)
Ebert, F. C. (M)
Greene, K. D. (A)
Harden, O. C. (M)
Lincoln, J. K. (A)
O'Connell, G. (VA)
Wincovitch, D. (A)

Geneva (CHI-5)
Junkins, A. H. (M)
Prescott, F. H., Jr. (M)
Robbins, R. W. (SM)
Soderquist, R. K. (M)
Winston, R. H. (SM)

Genoa (CHI-5)
Wylie, J. R. (A)

Glencoe (CHI-5)
Brown, J. E. (F)
Camras, M. (F)
Ferry, J., Jr. (A)
Heuer, C. H. (M)
Kurland, J. J. (A)
Miller, H. N. (M)
Spiegel, G. W. (M)

Glen Ellyn (CHI-5)
Brandt, I. L. (M)
Christensen, A. (SM)
Dyer, R. A. (M)
Everitt, B. W. (M)
Harris, B. J. (M)
Kidd, W. E. (SM)
Kleker, J. H. (A)
Knowles, H. S. (F)
Krieg, B. E. (M)
Lincicome, J. R. (SM)
Managan, W. W. (M)
Mohler, R. D. (M)
Peterson, W. J. (M)
Pordol, A. J. (M)
Sharp, E. M. (M)
Shelton, E. D. (A)
Stewart, J. R. (SM)
Tingley, E. M., Jr. (M)
Whiteside, J. R. (A)
Whitman, M. R. (A)
Woolsey, R. J. (M)

Glenview (CHI-5)
Brown, W. E. (M)
Burns, G. K. (VA)
Byrnes, W. P. (M)
Carlson, R. D. (M)
Carroll, P. F. (M)
Casciotti, R. J. (A)
Darsch, A. P. (A)
Dunn, W. L. (F)
Freeman, W. H. (M)
Fulenwider, J. E. (M)
Goss, C. G. (M)
Hayes, W. R. (M)
Hoffsuemmer, M. A. (A)
How, F. B. (A)
Iversen, R. L. (M)
Jorgensen, C. M. (SM)
Kelley, W. A. (SM)
Leslie, W. G. (A)
Lewis, G. E. (A)
Magnuski, H. (SM)
Magnuson, R. J. (M)
Masek, J. R. (A)
McFarland, R. B. (M)
Miller, R. E. (A)
Pivan, D. B. (SM)
Siwy, D. J. (M)
Slayton, R. D. (SM)
Stiles, J. E. (M)

Godfred (SL-6)
Boedy, D. D. (M)

Golf (CHI-5)
Boyajian, J. A. (SM)

Granite City (SL-6)
Kozma, E. Z. (A)
Metcalf, W. L., Jr. (M)
Pender, P. S., Sr. (SM)
Rasche, D. O. (M)
Wood, H. C. (A)

Grayslake (CHI-5)
Perkins, H. T. (M)

Great Lakes (CHI-5)
Barbee, G. A. (A)
Dzierski, M. P. (M)
Fischer, D. W. (A)
Jones, A. B. (SM)
Trip, R. E. (M)

Harvey (CHI-5)
Karlson, A. T. (M)

Hazelcrest (CHI-5)
Berry, R. F. (A)
Brown, W. H. (A)

Highland Park (CHI-5)
Arnolt, A. K. (A)
Brittain, G. H. (SM)
Cherry, W. L., Jr. (M)
Durkee, C. E. (M)
Firestone, W. L. (SM)
Kiver, M. S. (M)
Lapin, S. P. (SM)
Mills, G. G. (M)
Pepperberg, I. E. (SM)
Rose, J. K. (M)
Schover, D. S. (SM)
Schoke, J. A. (SM)
Schwalm, W. A. (SM)
White, E. S. (SM)

Hillside (CHI-5)
Anderson, R. L. (M)
Biba, R. J. (A)
Eidem, R. H. (A)
Huisjen, A. J. (M)
Johnson, R. J. (A)

Hinsdale (CHI-5)
Clark, J. M. (SM)
Corby, R. B. (M)
Dumanowski, R. J. (A)
Hummel, J. P. (M)
Jackson, A. S. (A)
MacDonald, A. A. (SM)
Wesselman, E. (VA)

Hollywood (CHI-5)
Poll, V. M. (A)

Homewood (CHI-5)
Bickel, R. G. (M)
Bielenin, A. (A)
Bremigan, R. O. (M)
Crotty, R. E., Jr. (A)
Krahe, L. R. (SM)
Walovich, J. J. (M)

Hoopeston (CHI-5)
Chorney, P. L. (M)

Ingleside (CHI-5)
Reese, K. E. (M)

Itasca (CHI-5)

Bryner, D. B. (M)
Trzyna, J. (A)
Van Anrooy, P. H. (M)

Joliet (CHI-5)
Novy, J. F. (SM)
Szegda, A. (M)
Ullase, T. J. (A)
Wasserlein, H. G. (A)
Whalen, J. F. (M)

Kankakee (CHI-5)
Palermo, P. A. (A)

Kenilworth (CHI-5)
Petersen, R. P. (SM)

La Grange (CHI-5)
Allen, H. E. (SM)
Brodie, G. H. (M)
Collins, E. A. (M)
Cox, W. C. (A)
Gellatly, J. S. (SM)
Hemminger, D. H. (M)
Hohmann, C. R. (M)
Kikta, J. (A)
Knouf, R. J. (SM)
Lubin, M. (M)
Medill, J. W. (M)
Miller, J. M. (SM)
Read, R. A., Jr. (M)
Schlesinger, K. (F)
Schulz, E. H. (F)
Snelling, E. A. (SM)
Unroe, J. L. (A)

La Grange Park (CHI-5)
Burtness, R. W. (SM)
Bouska, J. F. (A)
Chambers, H. L. (M)
Frihart, H. N. (M)
May, F. D. (M)
Orwin, R. J. (M)
Prokes, P. H. (M)
Vogele, F. C. (A)
Wehrle, R. (A)

Lake Bluff (CHI-5)
Glasel, W. B. (M)
Johansen, E. L. (A)
Kramer, A. W. (M)
La Rose, A. P. (M)

Lake Forest (CHI-5)
Barrett, A. M., Jr. (M)
Byrne, W. C., Jr. (M)
Faulks, H. R. (M)
Galitz, R. J. (A)

Lake Zurich (CHI-5)
Ives, R. D. (M)
Kenison, R. G. (M)
Krueger, E. P. (A)

Lansing (CHI-5)
Brunke, R. E. (A)
Burdeau, J. R. (A)
Wells, J. F. (M)

La Salle (CHI-5)
Kobold, J. W. (A)

Lebanon (SL-6)
Moore, R. W. (A)

Lemont (CHI-5)
Brar, S. S. (M)
Brill, T. (SM)
Connor, D. W. (M)
Frigerio, N. A. (A)
Lovoff, A. (SM)
Richards, H. K. (VA)
Rockwood, C. C. (A)
Rohde, R. E. (M)
Ryan, H. T. (A)
Vianna, A. C. (A)
Wadhwa, L. K. (M)

Lenzburg (SL-6)
Krause, H. J. (A)
Mueller, R. P. (M)

Libertyville (CHI-5)
Bottorff, P. A. (M)
Bruna, R. F. (M)
English, W. C. (M)
Fuchs, W. C. (M)
Law, J. M. (A)
Sameleon, L. R. (A)

Lincolnwood (CHI-5)
Dervishian, E. (M)
Ditthardt, A. R. (M)
Fenton, M. J. (A)
Goldfus, S. M. (SM)
Herst, R. J. (M)
Kaluzna, I. J. (M)
Reynolds, P. J. (A)
Roberts, E. A. (SM)
Unick, J. I. (M)
Waterman, H. C. (M)

Lisle (CHI-5)
McMahon, D. W. (A)
Yeoman, S. J. (A)

Lombard (CHI-5)
Addy, J. R. (M)
Austin, G. E. (M)
Bartha, S. J. (A)
Beebe, C. W. (A)
Bernstein, J. M. (M)
Berry, R. E. (M)
Borchardt, R. L. (M)
Buckley, G. F. (A)
Caldwell, J., Jr. (SM)
Canell, G. P. (A)
Carney, D. A. (M)
Curtis, R. H. (A)
Dunbar, E. A. (A)
Fyler, G. W. (SM)
Grisanti, J. L. (A)
Gunn, D. L. (A)
Hotchkiss, C. S. (M)
Isabeau, J. G. (M)
Jackson, W. C. (SM)
Laub, R. W. (A)
Lomasney, J. M. (SM)
Martino, L. J. (A)
Mattingly, L. J. (A)
McCreary, H. J. (SM)
Orszula, N. R. (M)
Patrick, W. S. (SM)
Pomon, J. D. (M)
Puhalski, D. (A)
Sebastian, R. W. (A)
Smith, G. R. (A)
Tschannen, R. F. (SM)
Van Geen, J. (M)
Williams, P. B. (SM)
Witt, C. E. (M)

London Mills (CHI-5)
Benson, L. G. (A)

Loves Park (CHI-5)
Eksten, D. G. (M)

Maplewood (SL-6)
Burton, F. E. (A)

Marengo (CHI-5)
Arnold, R. M. (VA)
Hupp, C. E. (A)
Lewis, H. A. (M)
Parnell, R. A. (A)

Marion (SL-6)
Levesque, J. J. (A)

Marissa (SL-6)
Church, C. J. (M)

Mascoutah (SL-6)
Harbison, J. L. (M)

Matteson (CHI-5)
Feehery, J. T. (A)

Maywood (CHI-5)
Davis, E. J. (A)
Del Camp, S. M. (M)
Donaldson, R. J. (SM)
Forst, P. P., Jr. (M)
Hall, H. R. (A)
Komm, P. M. (VA)
Kopania, A. A. (M)
Laube, W. C., Jr. (A)
Little, T. P. (M)
Ma, J. Y. (A)
Mages, L. J. (M)
Richards, H. F. (A)

McHenry (CHI-5)
Carver, R. L. (M)
Longley, J. K. (A)
Palmer, F. J. (M)

Melrose Park (CHI-5)
Bachhuber, R. A. (M)
Backman, K. E. H. (SM)
Bell, R. W. (A)
Carson, G. B. (A)
Corcoran, J. J. (A)
Early, J. M. (A)
Eckhardt, D. C. (M)
Fetzner, R. W. (M)
Fligel, F. J. (A)
Hanen, R. K. (M)
Jaster, D. R. (A)
McCarrell, R. H. (M)
McNabb, L. A. (SM)
Meyer, R. B. (A)
Mickelson, D. R. (A)
Nemcek, G. M. (A)
Pape, A. E. (A)
Rutka, E. P. (M)
Vokoun, R. C. (A)
Whitman, R. L. (A)
Zimmerman, J. (M)

Metropolis (EO-5)
Chick, D. R. (M)

Modesto (CHI-5)
Launer, W. H. (M)

Mokena (CHI-5)
Book, E. G. (SM)
Collins, L. R. (A)
McCain, G. (M)

Moline (CR-5)
Johannes, R. P. (M)
Oppenheimer, E. P. (M)
Parkhurst, J. E. (A)
Steffes, R. M. (A)

Monee (CHI-5)
Turner, J., Jr. (VA)

Monmouth (CHI-5)
Wood, D. H. (M)

Monticello (CHI-5)
Cummins, R. L. (M)

Morrison (CHI-5)
Van Osdol, R. L. (M)

Morton Grove (CHI-5)
Ackerman, N. A. (M)
Axelrod, L. R. (M)
Beneke, E. H. (M)
Buri, F. J. (M)
Burns, R. P. (A)
Dal Corobbo, B. V. (M)
Demos, G. T. (M)
Dennis, R. J. (M)
Duvall, T. E. (A)
Gallagher, J. A. (A)
Gillespie, N. R. (A)
Gould, E. (A)
Harned, J. W., III (A)
Hedvig, T. I. (M)
Lange, W. W. (M)
Levandis, J. J. (A)
Michel, W. A. (M)
Neukuckatz, A. (A)
Rahnert, R. G. (A)
Schneider, L. L. (M)
Siegelman, A. (SM)
Sokolov, J. (A)
Stastny, G. F. (SM)
Steiner, G. F. (M)
Trowbridge, F. (A)
Vale, S. D. (M)
Weber, J. P., Jr. (M)
Weiss, P. A. (M)
Wittkop, C. F. (A)

Mount Prospect (CHI-5)
Bastian, E. (A)
Berg, H. O. (A)
Bernin, V. M. (M)
Burton, J. W. (M)
Goldstein, R. (M)
Huber, R. H. (M)
Joy, W. F. (M)
Karres, G. E. (M)
Kennedy, J. D. (A)
Krempel, F. M. (M)
Mac Askill, R. B., Jr. (SM)
Mann, R. W. (A)
Medal, R. J. (M)
Mokate, G. M. (M)
Prohaska, D. (M)
Ralph, J. T. (M)
Schumacher, J. H. (SM)
Shemanske, R. (M)
Tempka, J. A. (A)
Weeton, W. E. (A)
Weill, A. E. (M)
Whalen, J. A. (A)

Mundelein (CHI-5)
Borg, A. N. (M)
Chudd, R. G. (M)
Fitz-Hugh, C. D., Jr. (M)
Mitchell, C. A. (M)
Musal, H. M. (M)
Nation, J. E. (A)
Nienaber, F., Jr. (M)
Pacholke, F. (SM)

Naperville (CHI-5)
Bouwman, B. J. (M)
Fancher, J. R. (M)
Hayworth, D. F. (SM)
Johnson, M. C. (M)

Neoga (SL-6)
Carruthers, C. M. (A)

New Lenox (CHI-5)
Johanson, E. W. (M)

Niles (CHI-5)
Borman, W. M. (M)
Bourget, J. A. (M)
Brugliera, F. J. (A)
Del Vento, J. M. (M)
Kahover, C. R. (A)
McMullen, C. W. (A)
Pulles, J. H. (SM)

Normal (CHI-5)
Ewald, E. R. (M)
Johnston, J. L. (M)
Olson, B. (M)

North Aurora (CHI-5)
McIlvaine, O. T. (A)

Northbrook (CHI-5)
Amdursky, M. E. (A)
Conway, P. W. (A)
Grunwald, R. (M)
Hill, C. F. (A)
Markell, J. H. (SM)
Pospisil, J. F. (M)
Sherrick, D. C. (M)
Sladkey, R. J. (M)
Waller, E. E. (M)

North Chicago (CHI-5)
Harris, H. E., Jr. (M)
Hudson, T. B., Jr. (A)
Novak, P. D. (M)
Weirich, H. P. (A)
Youngquist, D. (M)

Northfield (CHI-5)
Clark, R. V. (M)
Green, L. F. (A)

Northlake (CHI-5)
Cawthon, E. F. (M)
Clark, D. E. (SM)
Dimmer, R. P. (SM)
Graham, F. A. (M)
Molnar, I. (SM)
Post, J. W. (A)

North Lake City (CHI-5)
Dolhar, J. L. (A)
Romano, S. S. (A)

North Riverside (CHI-5)
Beck, J. H. (M)
Sklom, G. M. (A)

Northwood Park (CHI-5)
Cooke, K. R. (A)

Northwood Park Township (CHI-5)
Casey, E. A. (A)
Correia, F., Jr. (A)
Wisnowski, W. C. (M)

Oak Lawn (CHI-5)
Ban, G. R. (A)
Blevins, E. L. (A)
Hansen, L. H. (M)
Hultberg, R. M. (M)
Jann, E. G. (M)
Kasper, F. S. (M)
Marsh, E. N. (M)
Martin, R. B. (A)
McKinney, R. L. (M)

Oak Park (CHI-5)
Ahladas, J. P. (M)
Alliot, E., Jr. (M)
Anderson, C. M. (A)
Armstrong, M. M. (M)
Bard, R. E. (SM)
Beane, E. A. (M)
Beggs, W. C. (A)
Beitz, R. E. (SM)
Benson, A. L. (M)
Benson, R. W. (M)
Benzuly, H. J. (M)
Bryan, R. H. (M)
Cotsworth, A., III (SM)
Davis, R. H. (M)
Duffy, E. J. (M)
Dunlap, J. F. (M)
Fitch, W. M., Jr. (M)
Fockens, P. (M)
Goebel, E. S. (M)
Gooch, M. W. (M)
Graziano, V. (SM)
Guay, A. J. (M)
Hanson, G. R. (A)
Hartley, R. L. (M)
Ihde, W. M. (SM)
Jeffery, T. H. (M)
Larson, R. P. (M)
Le Baron, T. (M)
Leiner, F. C. (A)
Lenox, W. S. (A)
Linell, C. S. (A)
Maier, R. H. (SM)
Marsh, W. F. (A)
Martin, J. W., Jr. (M)
May, H. E. (SM)
Mehaffey, W. R. (SM)
Miller, R. E. (M)
Morawetz, F. (M)
Nemeth, W. E. (M)
Peterson, R. M. (M)
Pye, H. C. (VA)
Redfield, S. I. (A)
Robinson, D. E. (A)
Russell, W. D. (M)
Sinninger, D. V. (SM)
Sprunger, R. W. (M)
Staunton, J. J. (SM)
Travis, W. (A)
Van Bosse, J. G. (A)
Van Scoyoc, J. N. (SM)
Voorhaar, F. R., Jr. (M)
Wise, G. H. (M)
Yoder, R. S. (SM)
Zender, R. G. (SM)

O'Fallon (SL-6)
Hansbrough, F. G. (A)
Schaefer, R. J. (A)

Orland Park (CHI-5)
Green, R. E. (M)
Morrison, P. (A)
Woodbury, H. L. (M)
Yang, R. F. H. (SM)

Ottawa (CHI-5)
Ftacek, J. J. (A)
Meyer, C. H. (A)
Miller, W. B. (A)

Palatine (CHI-5)
Beischel, J. R. (A)
Currey, C. H. (M)
Hamilton, F. A. (M)
Huffman, R. L. (A)
Medek, J. D. (M)
Powers, J. S. (M)
Ryan, R. J. (SM)
Schreiner, L. W. (SM)
Thompson, R. T. (M)
Timberlake, F. A. (SM)

Palos Heights (CHI-5)
Brown, M. H. (A)
Scheldorf, M. W. (F)
Sommeria, M. R. (A)

Palos Park (CHI-5)
Cairnes, W. E. (SM)
Lloyd, W. P. (M)
Weiss, M. (M)

Pana (CHI-5)
Castle, C. A., Jr. (A)

Park Forest (CHI-5)
Aklinski, M. J. (A)
Clements, L. D. (M)
De Horn, C. E. (M)
De Lisle, A. B. C. (M)
Heffner, R. W. (A)
Kozel, M. S. (A)
Maravich, R. (A)
Mendel, F. S. (M)
Rebman, W. H. (M)
Schwartz, E. S. (M)
Skinner, E. E. (SM)
Vogt, A. R. (A)

Park Ridge (CHI-5)
Ashby, A. T. (M)
Betz, C. R. (M)
Boesen, G. F. (M)
Bridges, J. E. (SM)
Brown, J. M. (M)
Brown, W. (M)
Christian, H. S. (M)
Clark, J. T. (SM)
Crow, R. P. (M)
Daul, R. M. (M)
De Cola, R. (F)
De Vore, L. T. (F)
Edwards, F. W. (M)
Erwood, J. (SM)
Farley, J. E. (M)
Farnsworth, G. W. (M)
Figlewicz, R. C. (A)
Griffith, B. G. (SM)
Holmes, D. D. (A)
Johnson, H. A. (A)
Middleton, R. G. (SM)
Mroz, Matthew (SM)
Mueller, A. J. (M)
Nash, C. C., Jr. (M)
Nitschke, W. J. (M)
Passow, E. B. (SM)
Schorum, S. W. (M)
Schumacher, H. W. (A)
Shaw, J. R. (A)
Silver, J. F. (M)
Smith, P. S. (SM)
Stenerson, C. K. (M)
Thurn, A. G. (VA)
Zenner, R. E. (SM)

Pecatonica (CHI-5)
Van Antwerp, M. C. (VA)

Peoria (CHI-5)
Bishop, J. W. (A)
Costa, P. J. (SM)
Ferre, G. E. (M)
Hammond, W. M. (M)
Weinberg, P. (M)

Philo (CHI-5)
Hohn, F. E. (A)

Plainfield (CHI-5)
Hartong, H. H. (A)

Plano (CHI-5)
Beetham, R. B. (M)

Pleasant Plains (CHI-5)
Boesdorfer, C. L. (A)

Prophetstown (CHI-5)
Verhulst, E. H. (A)

Prospect Heights (CHI-5)
Bergman, E. J. (A)
Carlson, E. V. (SM)
Jackson, J. J. (A)
Kongable, L. S. (M)

Quincy (CHI-5)
Atkinson, W. R. (M)
Cooper, R. L. (M)
Hackbarth, H. R. (M)
Hoyt, W. A. (M)
Roling, J. T. (M)
Stratman, H. G. (M)
Thompson, M. L. (A)
Weibler, C. T. (SM)
Wheeler, J. C., Jr. (A)
Wilder, E. J. (A)
Worsley, C. C. (A)

River Forest (CHI-5)
D'Orio, P. A. (SM)
Gammell, H. C. (A)
Gustafson, G. E. (F)
Hilbert, F. H. (M)
Hupert, J. J. (SM)
Maciszewski, A. H. (SM)
Schultz, A. A. (M)

River Grove (CHI-5)
Augustine, A. F. (SM)
Bousky, S. (SM)
Dunn, J. R. (A)
Green, L. H. (A)
Henke, W. G. (SM)
Tarantur, S. (M)
Thake, R. F. (M)
Wolf, M. (SM)

Riverside (CHI-5)
Brooks, R. D. (SM)
Cihak, W. E. (A)
Fligel, W. P. (M)
Hajek, R. J. (M)
Kean, W. F. (SM)
Whitelaw, A. J. (A)

Rochester (CHI-5)
Kessler, W. D. (A)

Rock Island (CR-5)
Sinnett, R. J. (SM)
Stapp, E. B. (M)

Rockford (CHI-5)
Appelgren, J. W. (A)
Berglund, D. B. (A)
Bullen, C. V. (M)
Campbell, R. H. (A)
Conrad, R. S. (SM)
Hand, C. A. (M)
Hauswick, R. L. (M)
Johnson, T. W. (M)
Kyburz, U. L. (M)
Marcolini, V. H. (M)
Martensen, M. D. (A)
Massey, J. (A)
Peck, R. E. (M)
Sallet, A. P. (M)
Steiner, J. E. (M)
Tveit, T. J. (M)
Ward, L. A. (M)

Rolling Meadows (CHI-5)
Brown, J. O. (A)
Stecker, J. W. (A)
Wiencek, Z. (M)

Roselle (CHI-5)
Callahan, B. E. (M)
Goodrich, P. D. (M)
Hovinen, R. W. (M)
Kravitz, J. S. (A)
Nakata, C. K. (SM)
Oppenheimer, D. S. (SM)
Roenitz, R. K.

Round Lake (CHI-5)
Steffee, J. W. (A)

Roxana (SL-6)
McSherry, J. H. (A)

Saint Anne (CHI-5)
Bernier, V. A. (A)

Saint Charles (CHI-5)
Chodl, C., Jr. (A)
Nelson, D. A. (A)
Supitilov, M. C. (SM)
Taylor, E. H. (SM)
Wohlert, A. M. (A)
Wolhowe, M. V. (M)

Savanna (CHI-5)
Smith, D. A. (A)

Scott AFB SL-6)
Anderson, S. E. (M)
Beatrice, R. W. (A)
Boyle, J. A. (M)
Buckelew, W. F., Jr. (M)
Campbell, D. L. (A)
Davis, E. A. (A)
Funk, J. W. (A)
Gikas, G. N. (M)
Herrst, L. R. (M)
Huska, J. (A)
Monroy, F. (A)
Phillips, W. F. (M)
Roemer, J. S. (M)

Shirley (CHI-5)
Alley, R. P. (M)

Skokie (CHI-5)
Adler, H. J. (SM)
Alessio, S. A. (A)
Bornarth, D. M. (M)
Carter, R. W. (A)
Cooper, M. (M)
Dois, J. M. (M)
Everett, J. E. (M)
Fain, D. L. (A)
Franklin, H. B. (M)
Frantz, N. (A)
Fruth, H. F. (SM)
Gerlach, A. B. (A)
Gimpel, D. J. (M)
Gordon, D. (A)
Huntoon, V. J. (A)
Kaminsky, L. M. (M)
Lense, H. E. (SM)
Levine, W. E. (M)
Loizzo, V. J. (M)
Michals, R. A. (M)
Moskow, H. J. (M)
Moss, J. I. (A)
Mullen, R. L. (A)
Nitchals, J. L. (A)
O'Callaghan, J. J. (SM)
Osborn, R. L. (M)
Pawlowski, F. L. (A)
Pierce, C. B. (M)
Raemer, H. R. (M)
Rosenman, L. (M)
Royston, M. F. (SM)
Rutkowski, C. (A)
Saper, J. (M)
Severns, R. A. (M)
Stiefel, P. (M)
Sussman, M. (M)
Thomas, R. G. (A)
Toback, P. L. (M)
Warnke, G. F. (M)
Wayne, H. A. (SM)
Weisz, W. J. (M)
Wickstrom, S. T. (M)
Woods, H. (A)

South Chicago (CHI-5)
Kahn, L. (VA)

Sparta (SL-6)
Huss, J. W. (M)
Richard, C. W. (SM)

Springfield (CHI-5)
Bowers, T. N. (A)
Hem, R. J. (A)
Jonaitis, R. J. (A)
Leach, E. A. (SM)
McCormick, J. E. (M)
McGee, K. (SM)
Oram, D. K. (VA)
Pline, R. A. (M)
Schwarz, E. W. (A)
Stock, B. L. (A)
Thomas, C. C. (M)
Vesper, M. C. (A)
Wilcox, S. R. (A)
Wilson, H. C. (M)

Steger (CHI-5)
Holmes, H. H. (M)

Sterling (CHI-5)
Drane, R. L. (M)

Streator (CHI-5)
Gotch, J. X. (A)
Hodgson, J. C. (A)
Pozniak, J. H. (A)
Williamson, L. A. (A)

Summit (CHI-5)
Berberek, W. J. (A)

Taylor Ridge (CR-5)
Conant, J. A. (M)

Taylorville (CHI-5)
Smith, W. D. (A)

Tinley Park (CHI-5)
Harnew, F. R. (A)
Peterson, J. W. (M)

Urbana (CHI-5)
Allen, J. S. (A)
Allington, R. W. (M)
Anner, G. E. (SM)
Auth, L. V., Jr. (A)
Avizienis, A. A. (M)
Bailey, A. D. (SM)
Bauman, P. A. (M)
Becker, R. C. (M)
Bidlack, C. S. (SM)
Brown, R. M. (M)
Crothers, M. H. (SM)
Cruz, J. B., Jr. (M)
Dougal, A. A. (M)
Duncan, J. W. (A)
Dyson, J. D. (A)
Emery, W. L. (SM)
Everitt, W. L. (F)
Fett, G. H. (F)
Fry, W. J. (M)
Goldstein, L. (F)
Gooch, J. D. (M)
Harrell, R. D. (A)
Hassler, S. S. (A)
Hayden, E. C. (M)
Hendricks, C. D., Jr. (M)
Holsbouser, D. F. (M)
Holt, E. H. (M)
Hudson, P. K. (SM)
Isbell, D. E. (A)
Jensen, R. S. (M)
Kenyon, R. J. (M)
Knoebel, H. W. (A)
Laughlin, C. R., Jr. (A)
Mahrous, H. (SM)
Mast, P. E. (M)
McVay, M. S. (SM)
Mikulski, J. J. (A)
Mittra, R. (M)
Muerle, J. L. (A)
Murrell, T. A. (M)
Myers, B. R. (M)
Nordyke, H. W., Jr. (M)
Poppelbaum, W. J. (A)
Ray, S. R. (A)
Ricketts, L. W. (M)
Robertson, J. E. (M)
Ruina, J. (M)
Sandquist, J. W. (A)
Schwarzlose, P. F. (SM)
Spuhler, H. A. (M)
Strain, R. J. (A)
Swenson, G. W., Jr. (SM)
Trogdon, R. L. (A)
Tykociner, J. T. (SM)
Van Valkenburg, M. E. (SM)
Voth, B. W. (M)
Wax, N. (M)
Webb, H. D. (SM)
Weeks, W. L. (A)
Wei, L. Y. (M)
Westlund, C. D. (SM)
Wood, W. W. (M)

Verona (CHI-5)
Dix, F. W. (A)

Villa Park (CHI-5)
Combs, J. P. (M)
Fletcher, E. J. (M)
Gorbunoff, A. (SM)
Mathews, C. A., Jr. (M)
Norberg, L. R. (M)
Sparf, W. H. (M)
Truske, T. N. (M)
Walters, A. R. (M)
Zaruba, E. J. (SM)

Virden (CHI-5)
Carr, H. E. (A)

Warren (CHI-5)
Townsend, H. D. (M)

Warrensburg (CHI-5)
Levy, S. L. (M)

Washington (CHI-5)
Newell, J. S., Jr. (M)
Overley, J. P. (A)
Planck, R. M. (M)

Watseka (CHI-5)
Cox, L. H. (M)

Waukegan (CHI-5)
Anderson, C. A. (M)
Bentivegna, J. T. (A)
Cashman, D. J. (A)
Jensen, G. (M)
Krasovec, A. C. (A)
Nevin, M. E. (A)
Unitis, E. R. (A)

Waverly (CHI-5)
Micher, R. L. (A)

Westchester (CHI-5)
Davies, D. C. (M)
Floyd, E. C. (SM)
Frankart, W. F. (M)
Gabriel, R. R. (M)
Hencke, J. M. (A)
Morgan, R. E. (M)
Pecina, R. J. (M)

West Chicago (CHI-5)
Golder, R. L. (A)
Hummel, H. J. (M)
Karas, W. P. (SM)
Land, D. W. (M)
Merda, W. R. (A)
Rullman, E. E., Jr. (A)
Scandora, A. E. (A)

West Melrose Park (CHI-5)
Dietz, L. A. (A)

Western Springs (CHI-5)
Bracken, J. F. (M)
Dondanville, R. V. (SM)
Duncan, D. C. (M)
Gray, G. E. (SM)
Hungerford, N. C. (A)
Kramer, K. (SM)
Rypkema, J. N. (SM)
Scott, W. S. (A)
Swanson, B. E. (M)
Turke, B. A. (M)
Valach, C. F. (M)

Wheaton (CHI-5)
Batts, R. L. (SM)
Calobrisi, P. (A)
Doerner, R. C. (A)
Frank, C. W. (M)
Gaskins, S. M. (M)
Gouverneur, I. F. H. (A)
Hausten, D. R. (A)
Hoekje, J. W. (M)
Jensen, R. E. (M)
Matthews, G. D. (M)
Nelson, W. H. (M)
Olson, R. H. (SM)
Parker, N. W. (A)
Quist, W. G. (M)
Rohrer, C., Jr. (M)
Savage, L. E. (M)
Squires, E. G. (M)
Thompson, D. C. (M)
Upton, E. C., Jr. (M)
Van Slyck, W. S. (SM)
Venema, H. J. (SM)
Ward, A. G. (SM)
Willyard, C. H. (A)

Wheeling (CHI-5)
Coomes, P. S. (M)
Naber, J. S. (M)

Wildwood (CHI-5)
Jarvis, G. R. (M)

Wilmette (CHI-5)
Bell, J. F. (SM)
Bercaw, O. M., Jr. (M)
Bosshart, R. F. (M)
Canning, T. B. (A)
Crossley, R. C. (M)
Cutlip, S. B. (M)
Di Cecio, S. A. (M)
Edens, G. E. (M)
Keller, E. A. (SM)
Kline, L. M., Jr. (SM)
MacLean, N. W. (M)
McJohnston, C. A. (A)
Nordby, R. M. (SM)
Papier, J. H. (M)
Pionkowski, E. F. (M)
Schnell, W. J. (SM)
Shuey, L. S. (A)
Smith, E. L. (M)
Sorsen, S. L. (A)
Steel, F. R., Jr. (A)
Stott, H. G. (A)
Thomas, L. R. (M)
Warshawsky, J. (M)
Waterfall, F. E. (SM)
Wexler, J. S. (SM)

Winfield (CHI-5)
Teske, H. O. (A)

Winnetka (CHI-5)
Carlson, G. R. (A)
Howell, E. R., Jr. (A)
Jarvis, K. W. (F)

Wonder Lake (CHI-5)
Thompson, A. C. (M)

Wood Dale (CHI-5)
Maidak, A. M. (M)

Woodstock (CHI-5)
Kiciak, C. J. (A)

Zion (CHI-5)
Albert, A. A. (A)
McDowell, J. L. (M)

INDIANA

Anderson (IND-5)
Gardner, R. A. (A)
Hart, J. M. (M)
Heller, R. E. (M)
Holt, D. L. (M)
Phlegar, C. L., Jr. (M)
Rath, G. A. (M)
Reynolds, B. G. (A)
Soeller, A. L., Jr. (M)

Angola (FT-W-5)
Artman, R. L. (M)
Ax, L. S. (SM)
Bush, D. E. (A)
Hanson, L. G. (A)
Southern, C. D. (A)
Westenhaver, M. E. (A)
Worden, L. E. (A)

Arcadia (IND-5)
Nightenhelser, K. W. (M)

Auburn (FT-W-5)
Capen, G. A. (M)
Wallace, C. E., Jr. (M)

Aurora (CIN-4)
Achatz, R. V. (M)

Beech Grove (IND-5)
Newman, D. R. (A)

Bloomington (IND-5)
Bahr, W. B. (A)
Bartolini, E. (SM)
Dixon, L. W. (SM)
Gribben, J. C., Jr. (A)
Krepps, J. E., Jr. (A)
McNeil, J. F. (A)
Presti, B. (M)
Richardson, T. W. (M)
Siddons, G. F. (SM)
Svanascini, A. L. (SM)
Tarzian, S. (SM)

Bridgeport (IND-5)
Flint, R. B. (A)

Cambridge City (CIN-4)
Rea, R. C. (A)

Chalmers (IND-5)
Banes, D. E. (A)

Chesterfield (IND-5)
Reed, E. F. (M)

Chesterton (CHI-5)
Olson, E. H. (A)

Clarksville (LOU-5)
Yochem, J. F. (A)

Columbus (IND-5)
Dugan, J. M. (M)
Harden, R. D. (A)
Kelly, J. R. (A)
Silva, A. D., Jr. (M)
Silva, L. F. (A)
Stambaugh, D. W. (M)

Connersville (CIN-4)
Rose, G. C. (M)
Whatley, R. L. (M)

Danville (IND-5)
Behymer, D. E. (M)
Haycraft, D. L. (M)
Miller, W. E. (A)

Dayton (IND-5)
Yost, K. E. (M)

Dyer (CHI-5)
Dempsey, T. J. (A)
Frasco, W. V. (M)

East Chicago (CHI-5)
Nesbitt, E. P. (A)

East Gary (CHI-5)
Johnson, J. A. (M)

Elkhart (SB-M-5)
Best, J. G. (A)
Budd, W. H. (M)
Daily, A. M. (M)
Doty, J. S. (M)
Houck, H., Jr. (A)
Kent, E. L. (SM)
Kieffer, G. H., Jr. (A)
Klingler, J. E. (A)
Krauss, S. L. (M)
Lindahal, H. C. (M)
McDonald, L. J. (A)
Moore, C. C. (M)
Nicely, W. A. (A)
Osburn, C. M. (M)
Roberts, M. W. (M)
Turner, B. S. (M)
Smith, R. A. (A)
Vaksvik, A. J. (M)

Evansville (EO-5)
Caraway, J. B. (SM)
Casler, M. S. (A)
Fischer, N. C. (A)
Flackbert, W. D. (M)
Gehres, F. A. (SM)
Gordon, J. M. (A)
Greeson, J. H. (A)
Hatfield, P. E. (M)
Hennel, J. R. (M)
Herendeen, O. V. (A)
Kappes, A. V. (A)
Miegl, A. K. (SM)
Miles, K. G. (M)
Quirk, J. A. (A)
Schoene, R. L. (SM)
Schoeny, E. P. (A)
Schultz, W. F. (A)
Stoltz, G. F. (M)
Williams, W. A. (SM)

Fort Wayne (FT-W-5)
Bain, R. A. (A)
Bardonner, W. J., Jr. (A)
Barranger, J. P. (M)
Bates, E. L. (A)
Beach, H. W. (M)
Beaulieu, B. A. (A)
Beling, T. E. (A)
Bennett, E. Y., Jr. (M)
Bireley, R. L. (M)
Blake, N. A. (A)
Boggs, W. G. (M)
Brady, F. H. (A)
Brook, C. R. (A)
Broseghini, B. L. (A)
Cain, R. F. (M)
Carpenter, D. L. (A)
Casteel, B. G. (M)
Cawein, M. (F)
Chambers, D. R. (A)
Clark, J. R. (SM)
Coatney, A. E. (M)
Coles, D. K. (SM)
Collins, G. E. (SM)
Conway, J. F., Jr. (SM)
Cooper, M. J. (M)
Cramer, L. F. (SM)
Cronkwright, R. E. (A)
Davis, D. W. (M)
Dean, W. A. (A)
Dees, J. W. (M)
Dieli, S. A. (A)
Dimond, J. (M)
Dorset, D. E. (A)
Dreisbach, R. H. (M)
Dye, N. E. (M)
Ecker, J. L. (M)
Edgbert, J. D. (SM)
Eiden, G. E. (M)
Emery, R. C. (A)
Ervin, H. D. (M)
Farnsworth, P. T. (F)
Field, T. O. (M)
Fisher, D. E. (A)
Fong, S. G. (SM)
Freimann, F. (SM)
Gardner, R. J. (SM)
Giffin, G. S. (A)
Gough, L. E. (SM)
Gramer, L. E., Jr. (M)
Grant, R. L. (SM)
Green, W. G. (A)
Grosvenor, H. D. (A)
Hambrock, H. E. (M)
Hardwick, C. L. (SM)
Harmer, R. L. (A)
Harris, A. S. (M)
Harrison, R. E. (M)
Hawkins, W. G. (SM)
Hedeen, F. D. (A)
Helderman, T. E. (A)
Helmreich, L. W. (SM)
Henderson, J. A. (A)
Herke, F. P., Jr. (A)
Hertzog, W. K. (M)
Hessler, J., Jr. (SM)
Hine, S. H. (A)
Hoffman, H. T. (M)
Holmquist, J. A. (M)
Houser, N. W. (M)
Howe, D. R. (A)
Humphries, R. G. (M)
Ineman, C. C. (M)
Jacobson, A. J. (M)
Jensen, C. W. (M)
Joehlin, N. C. (M)
Johnson, D. L. (A)
Johnson, L. (M)
Jones, R. B. (M)
Jordal, V. M. (A)
Kaat, S. L. (M)
Kaplan, R. (M)
Kelleher, W. J. (M)
Keller, V. L. (M)
Kendall, P. E. (SM)
Kiltie, O. (M)
Kleist, R. A. (M)
Klemmer, A. E. (M)
Knarr, C. E. (M)
Knauer, P. E. (M)
Koenig, E. W. (M)
Kovalcik, E. J. (M)
Kuffel, L. A. (M)
Lawburgh, R. H. (M)
Lennard, J. K. (M)
Loftin, R. A. (M)
Lovegren, P. B. (M)
Lukas, J. M. (A)
Major, T. (M)
Martin, D. W. (SM)
Martin, R. F. (A)
Mason, C. F. (A)

Mast, P. L. (M)
Masters, M. R. (A)
Matzinger, J. R. (M)
Mayle, A. T., Jr. (SM)
Mayle, L. F. (SM)
McFadden, J. H. (A)
McGregor, R. B. (M)
McKeand, R. W. (A)
Meadows, H. R. (M)
Mills, R. W. (M)
Monda, S. M. (A)
Moore, K. F. (A)
Mount, E. V. (A)
Muniz, R. (SM)
Murphy, L. W. (M)
Neal, J. D. (M)
Nelson, G. L. (M)
Noll, F. R. (M)
O'Connor, R. A. (A)
Pantazin, T. (A)
Pavlik, T. J. (M)
Pegg, B. B. (A)
Peters, R. C. (M)
Poole, R. E. (M)
Pritchard, H. T. (M)
Pufahl, E. R. (M)
Raduziner, D. M. (A)
Rankin, J. A. (SM)
Rasley, D. R. (SM)
Regis, L. J. (M)
Richards, C. A. (M)
Richards, G. A. (A)
Richeson, W. E. (M)
Robertson, G. D. (SM)
Rodgers, P. D. (A)
Rogers, M. A. (A)
Roode, R. J. (A)
Roy, W. R. (M)
Russell, R. S. (M)
Rust, M. F. (A)
Sabo, J. (M)
Salinger, H. W. G. (F)
Sanders, R. W. (SM)
Schneider, S. S. (SM)
Schwartz, E. R. (A)
Scofield, B. L. (A)
Seaman, D. L. (M)
Sessler, J. G. (A)
Sharp, J. W. (SM)
Silvey, J. O. (A)
Sinish, R. D. (SM)
Slater, T. L. (M)
Slick, E. P. (M)
Smith, F. P. (M)
Solomon, R. M. (M)
Southern, P. D. (M)
Spanier, B. (M)
Sparrow, E. L. (M)
Statler, S. W. (A)
Steavenson, C. C. (M)
Stein, E. F. (A)
Stewart, C. W. (A)
Stoakes, W. L. (M)
Sutton, J. R. (A)
Swanson, E. S. (A)
Swartwout, R. E. (SM)
Teetor, T. S. (A)
Thoman, R. E. (M)
Thompson, J. L. (A)
Tieszen, D. J. (M)
Toohig, M. F. (M)
Torzyn, N. T. (M)
Trimarchi, J. (M)
Valentine, F. C. (M)
Watkins, G. C., Jr. (M)
White, E. A. (M)
Whitworth, W. C. (M)
Wible, P. E., Jr. (A)
Williams, W. J., Jr. (M)
Wolfgang, L. G. (M)
Wolk, T. E. (M)
Zbacnik, E. V. (M)
Zwayer, B. E. (A)

Galveston (IND-5)
Buehler, E. R. (A)

Gary (CHI-5)
Barancyk, V. (A)
Berry, B. O. (A)
Biro, D. J. (A)
Buccicone, V. S. (M)
D'Arcy, E. W. (M)
Donahey, H. E. (A)
Ireland, R. P. (M)
Mundell, E. H. (A)
Ratkay, S. (A)
Shirk, K. C. (VA)
Theodore, J. A. (A)

Goshen (SB-M-5)
Corporon, R. P. (M)

Grabill (FT-W-5)
Phillips, T. H. (M)

Granger, (SB-M-5)
Ammon, J. A. (A)

Greensburg (IND-5)
Sheese, O. C. (A)

Greenwood (IND-5)
Marshall, C. L. (M)

Griffith (CHI-5)
Vereb, A. J. (A)

Hamilton (FT-W-5)
Bendell, C. B. (M)

Hammond (CHI-5)
Dwyer, R. J. (M)
Janik, J. L. (M)

Hobart (CHI-5)
Spangler, R. (A)

Hope (IND-5)
Keller, L. P. (M)

Hudson (FT-W-5)
Tressler, J. B. (M)

Huntertown (FT-W-5)
Bryn, S. L. (A)
Ordas, A. F. (M)

Huntington (FT-W-5)
Chambers, W. A. (A)
Cozad, J. W. (A)
Fisher, C. C. (SM)
Kaufman, A. R. (A)
Smart, R. E. (A)
Terry, C. B. (M)

Indianapolis (IND-5)
Albon, R., Jr. (A)
Alden, E. E. (M)
Anderson, S. R. (M)
Arbuckle, R. D. (A)
Arvidson, C. H. (M)
Arvin, M. J. (SM)
Asthols, P. T. (M)
Axmann, G. F. (M)
Barrelle, R. J. (A)
Begeman, R. H. (M)
Bell, D. L. (A)
Berntsen, W. H. (M)
Boltz, C. D., Jr. (M)
Booher, W. R. (M)
Bouchard, E. N. (A)
Braunagel, M. V. (M)
Braunlin, R. J. (A)
Brockway, R. M. (M)
Brodrick, L. G. (M)
Butts, C. B. (A)
Carpenter, M. M., Jr. (M)
Carson, H. E. (SM)
Carter, H. A. (A)
Cobb, L. J. (M)
Cowan, M. A. (M)
Crawford, R. A. (M)
Cross, K. R. (A)
Cunningham, R. W. (A)
Da Prato, B. F. (M)
Davis, C. B. (A)
De Voe, L. M. (M)
Drilling, N. G. (M)
Evans, A. G. (M)
Evans, R. A. (SM)
Fagg, W. H. (A)
Fallowes, R. W. (A)
Fenimore, G. E. (A)
Fitch, H. E. (A)
Fives, J. J. (M)
French, A. B. (M)
Gamble, M. E. (SM)
Gary, A. H. (M)
Goodier, G. N. (A)
Grafton, D. P. (M)
Gresham, S., Jr. (SM)
Grimmett, L. J. (M)
Hall, J. M., Jr. (M)
Hand, J. E. (M)
Harden, J. G. (SM)
Hiorns, N. M. (A)
Hofeld, J. G. (M)
Holland, H. A. (A)
Hostetler, W. E. (M)
Hromada, J. C. (SM)
Huetten, C. (SM)
Hurley, H. C. (M)
Jackson, W. E. (F)
Jordan, H. G. (M)
Justus, J. R. (A)
Kennedy, W. H. (M)
Knipp, C. W. (M)
Kraft, R. W. (A)
Kriner, J. I. (A)
Liddle, W. C. (M)
Macnabb, V. C. (M)
Manning, W. L. (SM)
Marasco, F. A. (M)
Marshall, L. C. (SM)
Maxwell, J. W. (SM)
McShane, J. P. (M)
Morone, J. P., Jr. (SM)
Moyer, R. C. (SM)
Myers, W. D. (M)
Nelson, J. B. (A)
Olsen, R. C. (A)
Peden, J. E. (A)
Phillips, R. M. (M)
Purgett, L. J. (SM)
Raub, R. D. (A)
Ray, J. (A)
Reager, A. M. (VA)
Reynolds, J. H. (M)
Rosser, T. N. (SM)
Roys, H. E. (F)
Sauerteig, F. H. (M)
Schager, R. J. (M)
Schoch, H. B. (M)
Schooley, C. E. (SM)
Schultz, A. J. (SM)
Schulz, E. A. (A)
Skinner, G. M. (M)
Slater, I. M. (SM)
Sorensen, R. L. (M)
Spencer, R. L. (M)
Stanley, E. R. (A)
Stembel, J. E. (M)
Strols, E. F. (A)
Stuart, D. M. (SM)
Sukup, J. P. (M)
Taggart, S. E. (M)
Tague, B. D. (SM)
Thomas, J. G. (A)
Thomas, J. W. (A)
Thorn, W. D. (M)
Trout, C. C. (M)
Tudor, E. C. (M)
Tulauskas, L. (SM)
Turnbaugh, C. C. (M)
Tyler, R. D. (M)
Van Keuren, E., III (M)
Viere, A. J. (M)
Walker, R. S. (A)
Whitaker, R. O. (A)
White, E. J., Jr. (A)
Willey, V. E. (M)
Wisner, H. L. (SM)
Wolff, H. R. (SM)
Wulfekuhl, R. J. (M)
Wuster, W. L. (A)
Young, E. A. (A)

Jonesboro (IND-5)
Konrad, R. J. (A)

Kokomo (IND-5)
Atkinson, J. R. (M)
Bickel, S. O. (A)
Blossey, C. W. (M)
Brandon, W. S. (M)
Brinkerhoff, D. E. (A)
Brown, R. B. (A)
Bunch, D. L. (M)
Carlson, E. C. (A)
Carr, W. J. (M)
Cory, C. D., Jr. (M)
Cory, N. L. (A)
Dibble, J. W. (M)
Doversberger, K. W. (A)
Engle, D. E. (A)
Ford, G. M. (M)
Gerhardt, B. J. (M)
Gugliotta, A. J. (A)
Guyton, J. H. (M)
Heckert, W. F. (M)
Jenkins, R. L. (M)
Khan, F. R. (A)
Laitinen, L. K. (M)
Manahan, M. J. (SM)
Martin, D. W. (M)
Mason, J. M. (M)
McCaughan, H. M. (A)
Miller, R. F. (M)
Naylor, M. W. (M)
Nellans, K. L. (M)
Paskell, E. (A)
Prewitt, T. A. (M)
Pyle, H. (M)
Rittmann, A. D. (SM)
Ruff, D. O. (M)
Schaffner, J. S. (SM)
Schwarz, B. A. (F)
Scott, L. E. (M)
Siefken, R. M. (M)
Stahl, K. L. (M)
Steisl, H. M. (M)
Thoman, J. E. (M)
Tritt, E. M. (M)
Vogt, K. S. (M)
Votava, C. J. (M)
Wright, H. E. (M)
Zeps, H. (A)

Lafayette (IND-5)
Evans, C. M. (M)
Evans, H. R. (M)
Freeman, S., Jr. (M)
Friedlaender, F. J. (A)
Gibson, J. E. (M)
Halsey, M. R. (M)
Hancock, J. (M)
Landgrebe, D. (M)
Sage, A. P., Jr. (M)
Samuels, J. C. (M)
Schultz, F. V. (SM)
Siskind, R. P. (SM)
Stanley, P. E. (M)
Todd, A. C. (SM)
Tou, J. (SM)

Lawrence (IND-5)
May, C. W. (A)

Lebanon (IND-5)
Cook, K. S. (A)

Liberty Center (FT-W-5)
Stroud, R. W. (M)

Logansport (IND-5)
Harrell, D. H. (M)
Munson, A. L. (A)

Marion (IND-5)
Ballard, D. C. (SM)
Benway, R. E. (A)
Saunders, R., Jr. (SM)
Schemmer, D. L. (M)

Michigan City (SB-M-5)
Alinsky, J. W. (SM)
Demercurio, C. D. (M)
Hillmann, R. E. (A)
Honda, M. (A)
Horvath, J. W. (A)
Kolster, W. K. (A)
Meadows, F. D. (SM)
Middleton, J. A. (A)
Rausch, W. D. (M)
Spangler, S. T. (SM)

Mishawaka (SB-M-5)
Arakelian, G. P. (M)
Armstrong, C. N. (M)
Arthur, A. A. (M)
Bellowe, R. K. (M)
Besco, F. E., Jr. (M)
Bregantini, J. S. (SM)
Brett, R. I. (M)
Burke, T. H. (M)
Charlier, B. J. (A)
Cooney, J. J. (A)
Crosby, E. L., Jr. (M)
Cunningham, D. L. (M)
Delker, A. G., Jr. (M)
Downham, H. A. (M)
Ewing, R. D. (M)
Garrow, S. H. (M)
Haigh, R. B. (M)
Hansen, A. G., Jr. (M)
Harry, H. E. (SM)
Heckman, H. T. (M)
Jacks, J. T. (M)
Janosik, J. R. (M)
Johnson, W. S. (A)
Kindt, N. O. (M)
Koch, W. J. (A)
Kutz, R. W. (M)
La Vean, G. E. (M)
Lawrence, W. G. (M)
Liepa, L. V. (M)
Lottes, J. J. (M)
Marshall, R. E. (M)
Marz, P. A. (M)
McGuire, H. E. (M)
Miller, A. E. (A)
Neff, D. L. (A)
Norris, C. B. (M)
Ohlemacher, R. F. (A)
Omberg, A. C. (SM)
Paulson, E. E. (M)
Pilcher, R. M. (M)
Pless, L. C. (M)
Price, L. E. (M)
Schmidt, M. D. (M)
Splies, P. D. (M)
Sprouse, P. J. (A)
Steele, N. D., Jr. (M)
Thomas, W. A. (A)
Vogtmann, H. W. (M)
West, E. B. (M)
Whiffen, R. E. (SM)
Wilson, C. H. (M)
Wright, C. R. (M)

Muncie (IND-5)
Burton, D. A. (A)
Ennis, F. L. (M)
Hayes, M. E. (A)

Munster (CHI-5)
Brander, R. (M)
Gillis, D. J. (A)
Miner, J. H. (A)
Roedel, J. (M)
Sane, J. M. (A)

Nashville (IND-5)
Connell, J. L. (M)

New Albany (LOU-5)
Jennings, S. V. (M)
Morris, K. L. (M)

New Carlisle (SB-M-5)
Evancich, E. (M)

New Haven (FT-W-5)
Babcock, L. V. (M)
Buckley, J. E. (M)
Guichard, R. S. (M)
Hallmark, C. E. (SM)
Murphy, F. J. (M)
Swank, G. D. (A)

New Palestine (IND-5)
Qualkinbush, D. N. (A)

Notre Dame (SB-M-5)
Coomes, E. A. (SM)
Ellithorn, H. E. (SM)
Evers, A. J. (A)
Foecke, H. A. (A)
Kempf, K. R. (M)
Stauder, L. F. (M)

Orestes (IND-5)
Gilliam, D. W. (A)

Oriole (EO-5)
Frakes, S. E. (A)

Osceola (SB-M-5)
Cox, P. G. (M)
Ludwig, A. R. (M)
Moulton, G. E. (M)

Pendleton (IND-5)
Hallenbeck, S. M. (A)

Peru (IND-5)
See, W. E. (A)

Pittsboro (IND-5)
Lightburne, D. N. (A)

Plymouth (SB-M-5)
Kennedy, P. R. (A)

Princeton (EO-5)
Havill, C. N. (M)
Smith, Z. R. (M)

Ray (FT-W-5)
Pierce, R. M. (SM)

Richmond (CIN-4)
Innis, J. P. (M)
Maddox, R. D. (M)
Schiewe, A. J. (M)
Young, K. W. (A)

Roanoke (FT-W-5)
Yoder, L. E. (M)

Rockville (IND-5)
McFann, H. L. (M)

Russiaville (IND-5)
Fred, J. A. (M)

St. Meinrad (EO-5)
Ringeman, O. E. (M)

Seymour (IND-5)
Cupp, J. C. (A)
Mayer, A. B. (A)

Shelbyville (IND-5)
Bernard, F. A. (M)

Sheridan (IND-5)
Neal, S. M. (M)

South Bend (SB-M-5)
Bardell, P. H., Jr. (M)
Baumbach, E. J. (M)
Beazell, H. L. (M)
Bedford, J. S. (M)
Beehler, L. A. (A)
Blong, V. J. (M)
Bollinger, W. P. (SM)
Borkowski, J. A. (A)
Bowerson, F. L. (M)
Cole, H. G. (M)
Colten, J. L. (SM)
Cunningham, G. W., Jr. (M)
Dart, D. E. (M)
Deranek, P. T. (A)
De Ruyck, A. R. (M)
Diehl, J. G. (M)
Durbin, H. M. (M)
Falco, M. F. (M)
Feaster, J. A. (M)
Firner, J. F. (M)
Goodwin, W. V. (SM)
Grant, J. H. (M)
Heller, D. M. (SM)
Hoffman, C. H. (M)
Hollis, R. H. (M)
Hunt, A., Jr. (A)
Jaffe, B. (A)
James, D. C. (SM)
Jones, P. W. (M)
Jones, W. V., Jr. (A)
Kaiser, R. P. (M)
Kinney, T. W. (M)
Kunz, W. J., Jr. (SM)
Lancaster, R. G. (M)
La Salle, E. (M)
Link, A. G. (M)
Mansfield, K. I. (A)
Masteller, B. L. (M)
McWhorter, W. F. (M)
Metsker, W. E. (SM)
Miller, R. B. (M)
Miller, R. D. (M)
Modesitt, M. B. (M)
Moore, C. R. (A)
Mossman, R. B. (SM)
North, R. L. (A)
Nymberg, R. J., Jr. (M)
O'Neil, A. R. (M)
Patterson, J. M. (A)
Puca, Q. J. (M)
Quigley, A. J. (M)
Root, R. E. (M)
Secor, B. K. (M)
Siagal, R. P. (M)
Snyder, L. J. (A)
Soleta, G. S. (M)
Solomon, P. S. (SM)
Stevens, D. R. (A)
Swisher, P. E. (SM)
Turner, O. G. (M)
Voss, J. R. (M)
Walton, P. E., Jr. (A)
Weiler, G. (M)
Weissert, R. K. (M)
Welsh, C. A. (M)
Wilcox, M. L. (M)
Wooldridge, A. L. (SM)

Speedway (IND-5)
Wacker, K. F. (A)

Tell City (EO-5)
Churchill, P. K. (SM)
Groves, S. K. (SM)
Hammond, R. F. (SM)

Terre Haute (IND-5)
Froehlig, G. M. (M)
Malone, W. R. (M)
Mason, P. R. (M)
McCrocklin, R. E. (M)
Moench, H. A. (SM)
Smith, P. D. (M)
White, J. (M)

Valparaiso (CHI-5)
Baker, F. C. (A)
Bullis, E. E. (A)
Dillon, C. R. (A)
Gast, D. A. (A)
Maynard, C. A. (SM)
McCasland, G. R. (A)
Oldham, K. W. (M)
Packman, M. E. (VA)
Patton, R. C. (A)
Shewan, W. (M)

Vincennes (EO-5)
Watts, H. T., Jr. (A)

Wabash (IND-5)
Myers, J. R. (M)
Thurlow, M. P. (A)

Waldron (IND-5)
Miller, D. C. (A)

Walkerton (SB-M-5)
Shaffer, C. W., Jr. (A)

Wanatah (SB-M-5)
Millbranth, D. R. (A)

Washington (EO-5)
Boring, W. D. (M)

Waterloo (FT-W-5)
Hamman, H. L. (A)

West Lafayette (IND-5)
Austin, G. A. (M)
Bolle, D. M. (M)
Cannon, C. D. (M)
Cook, D. J. (A)
Cooper, G. R. (M)
Dalton, R. C. (M)
Donovan, R. F. (A)
El-Abiad, A. H. (M)
George, R. H. (SM)
German, J. P. (SM)
Happell, G. E. (SM)
Hayt, W. H., Jr. (SM)
Heim, H. J. (SM)
Hesselberth, W. M. (M)
Holub, A. J. (M)
Jones, T. F., Jr. (SM)
Kemmerly, J. E. (M)
Kenyon, R. R. (M)
Masnaghetti, R. K. (A
Ogborn, L. L. (A)
Pitt, P. E. (A)
Sabbagh, E. M. (SM)
Warfield, J. N. (M)
White, S. A. (M)
Wyman, R. H., Jr. (M)

Whiting (CHI-5)
Bell, J. E. (M)
Kaminsky, V. J. (A)
Oster, W. (A)
Slivka, F. P. (A)

Winslow (EO-5)
Vaughan, J. D. (A)

Woodburn (FT-W-5)
Bertsche, G. (M)

IOWA

Algona (CR-5)
Barnes, R. E. (M)

Ames (CR-5)
Ablin, H. L. (A)
Boast, W. B. (M)
Bolie, V. W. (M)
Bowen, D. W. (M)
Camp, R. C. (M)
Cassell, W. L. (SM)
Coover, M. S. (SM)
Engholm, K. J. (M)
Evans, W. H. (M)
Frewaldt, E. W. (A)
Griffin, J. E. (M)
Holland, G. E. (M)
Hughes, W. L. (M)
Mattson, R. H. (M)
McMechan, J. D. (M)
Munday, W. A. (A)
Pavlat, J. R. (M)
Pekarek, K. L. (A)
Read, A. A. (M)
Rickey, F. B. (A)
Schauer, R. F. (M)
Sharpe, R. A. (A)
Stattelman, A. J. (A)
Stewart, R. M., Jr. (M)
Strief, M. J. (M)
Townsend, C. L. (M)
Triska, C. J. (A)

Ankeny (CR-5)
Johnston, D. H., Jr. (M)

Arcadia (CR-5)
Wolterman, A. J. (M)

Atkins (CR-5)
Schminke, R. E. (A)

Bettendorf (CR-5)
Arvidson, P. G. (M)
Campbell, D. B. (M)
Hutchison, R. P. (A)

Boone (CR-5)
Nelson, K. L. (M)

Burlington (CR-B-5)
Allen, J. W. (M)
Anderson, W. W. (M)
Applegate, J. A. (SM)
Bogart, P. M. (M)
Clark, H. L. (M)
Cole, G. D. (M)
Eck, E. J. (M)
Ertz, C. S. (A)
Graham, W. F. (M)
Havens, J. D. (M)
Keser, O. A. (M)
Keser, P. D. (M)
Kruse, E. A. (M)
Loomis, G. L. (SM)
Miller, R. C. (SM)
Mullin, M. L. (M)
Musolino, J. M. (M)
Sanders, J. E. (M)
Simmons, C. A. (SM)
Swygard, G. F. (M)
Taylor, D. L. (M)

Cedar Falls (CR-5)
Carson, D. N. (A)

Cedar Rapids (CR-5)
Abrams, H. T. (A)
Anderson, A. E. (SM)
Anderson, W. G. (M)
Andrade, E. A. (SM)
Andrews, E. J., Jr. (M)
Antrim, G. H. (A)
Ashby, W. O. (A)
Babillus, J. (SM)
Baldwin, L. G. (M)
Ball, J. K. (M)
Beamer, C. M. (M)
Bellville, W. H. (M)
Benning, G. L. (A)
Berry, D. G. (M)
Bettin, R. (M)
Binger, K. B. (M)
Bishop, G. E. (M)
Blackwell, W. C. (A)
Born, A. S. (SM)
Bowles, C. H., Jr. (A)
Bradford, F. H. (A)
Bray, W. E. (M)
Brega, L. B. (A)
Britton, R. W. (SM)
Broadhead, S. L., Jr. (SM)
Brobst, J. D. (M)
Brower, H. P. (M)
Brown, H. R. (M)
Brown, K. L. (M)
Bruce, R. A. (M)
Bruene, W. B. (SM)
Burdick, L. R. (M)
Burton, R. E. (A)
Caquelin, M. W. (M)
Cattoi, R. L. (A)
Cheney, J. O. (M)
Christensen, A. A. (M)
Coble, R. B. (SM)
Collins, A. A. (F)
Collins, J. J. (M)
Conrad, E. R. (M)
Couillard, L. W. (SM)
Cowan, C. D. (M)
Cox, R. T. (SM)
Craft, L. M. (SM)
Craiglow, R. L. (M)
Cramer, R. L. (M)
Crandell, E. L. (M)
Cribbs, R. D. (M)
Croft, W. S. (A)
Cummings, F. M. (M)
Dalton, J. L. (SM)
Davison, W. W. (M)
Dawson, S. L. (M)
Decker, D. L. (M)
De Long, V. R. (SM)
Devoll, C. W. (M)
Donaldson, R. V. (M)
Draheim, K. P. (A)
Duff, R. E., Jr. (M)
Duhamel, R. H. (M)
Dunn, R. S. (A)
Eichenberger, D. L. (M)
Elliott, W. S. (SM)
England, L. C. (A)
Erickson, G. A. (A)
Essig, R. D. (SM)
Fedde, C. D. (A)
Fellhauer, H. E. (A)
Finger, P. R. (M)
Fischer, L. A. (A)
Fisher, R. J. (A)
Fletcher, K. L. (SM)
Ford, D. W. (M)
Forrest, R. L. (M)
Frey, H. B. (M)
Friedrichs, J. P. (M)
Fritze, E. H. (M)
Fuller, R. C. (M)
Funston, S. S. (M)
Gallagher, D. C. (M)
Gallino, J. F. (M)
Gates, R. S. (M)
Gerks, I. H. (F)
Gibson, J. G. (M)
Girard, L. J. (M)
Glandon, A. E. (M)
Goetz, J. L. (SM)
Goldman, B. M. (M)
Graham, N. L. (M)
Graves, W. H. (M)
Green, D. H. (A)
Greenwell, R. E. (A)
Griswold, W. R. (M)
Habeger, E. A. (M)
Hadley, C. E. (M)
Haines, G. L. (M)
Halvorson, R. L. (M)
Hancock, J. R. (A)
Hancock, R. I. (A)
Hanna, G. W. (A)
Hawley, A. A. (A)
Heath, J. W. (M)
Hedgcock, W. T., Jr. (M)
Hern, H. D. (M)
Hime, N. S. (SM)
Hirsch, H. D. (M)
Hixenbaugh, G. P. (M)
Hocker, D. E. (M)
Hodgin, D. M., Jr. (M)
Hograbe, H. J. (A)
Holec, V. P. (A)
Hollister, R. H. (A)
Holmes, D. W. (M)
Hotchkiss, J. H. (A)
Hubbard, M. R. (SM)
Hudek, V. R. (SM)
Hungerford, L. D. (M)
Hunt, J. H., Jr. (SM)
Hykes, G. R. (M)
Jaycox, R. L. (A)
Johannes, J. V. (M)
Johnson, D. E. (M)
Johnson, F. W. (M)
Johnson, L. E. (A)
Kennedy, C. L., Jr. (A)
Kennedy, W. A. (M)
Kintzel, C. K. (M)
Kirkpatrick, C. H. (M)
Klehfoth, W. G. (M)
Kopf, H. A. (M)
Kopp, R. W. (M)
Krebs, D. W. (M)
Lleske, E. W. (M)
Long, W. G., Jr. (M)
Loop, D. E. (A)
Ludvigson, M. T. (M)
Majerus, J. B. (M)
Mansur, G. F., Jr. (M)
March, G. W. (M)
Marshall, F. C. (M)
Marshall, K. R. (M)
Martin, E. L. (SM)
Martin, R. L. (SM)
McConnell, T. E. (SM)
McCoy, D. O. (SM)
McCreary, R. L. (SM)
McDaniel, I. V. (M)
McElroy, J. C. (SM)
McGraw, R. C. (M)
McInerney, J. F. (M)
McKinley, P. A. (SM)
McMichael, R. W. (M)
Meier, J. C. (A)
Meyer, D. H. (SM)
Miedke, R. C. (M)
Minerva, V. P. (M)
Mitchell, R. M. (SM)
Mollman, W. G. (M)
Moody, J. M. (M)
Morrison, S. M. (SM)
Mortimore, T. N. (M)
Moseman, P. (A)
Most, N. S. (M)
Myhre, P. K. (SM)
Nelson, J. H. (M)
Newell, D. E. (M)
Nielson, J. (M)
Olson, R. L. (SM)
Ore, F. R. (M)
Paluka, J. R. (M)
Pappenfus, E. (SM)
Pearson, C. C. (A)
Perkins, W. C. (M)
Perry, R. A. (M)
Perry, V. G. (M)
Pickering, R. F. (M)
Pierce, R. J. (SM)
Plotkin, L. E. (SM)
Price, J. F. (M)
Rapp, R. N. (A)
Rector, J. D. (M)
Rennekamp, E. E. (M)
Ringland, J. F. (A)
Ringoen, R. M. (SM)
Rockwell, C. A. (M)
Rowley, R. J. (M)
Sappington, H. M. (M)
Schuster, H. E. (A)
Scott, A. J. (A)
Sellers, G. W. (SM)
Senti, E. C. (SM)
Sheafor, J. D. (M)
Sherwood, J. R. (SM)
Shove, N. D. (A)
Simmons, W. J. (M)
Skar, R. C. (M)
Slay, L. G. (M)
Smith, J. W. (SM)
Snyder, R. E. (M)
Spencer, D. D. (M)
Sprengeler, J. H. (M)
Stansbury, R. H. (A)
Steinacker, R. B. (M)
Stewart, C. (SM)
Stimson, R. L. (A)
Stockwell, G. M. (A)
Stover, H. A. (M)
Stryker, E. M., Jr. (A)
Taylor, R. C. (A)
Tector, R. J. (M)
Thoennes, E. O. (A)
Thompson, P. (M)
Thompson, W. J. (M)
Thran, D. P. (M)
Tinch, C. S., Jr. (A)
Tollefson, R. D. (A)
Truesdell, R. M. (A)
Turner, J. F. (A)
Uhrik, R. L. (A)
Ulstad, M. S. (M)
Vander-Hamm, R. L. (M)
Van Der Wal, E. A. (M)
Vanous, J. A. (SM)
Vaughn, K. E. (M)
Vick, E. K. (SM)
Viterisi, D. P. (A)
Vrbik, J. (A)
Walnwright, L. F. (M)
Wales, G. A. (M)
Weber, D. W. (SM)
Weeks, R. R. (SM)
Welch, J. D. (A)
Westcot, J. L. (SM)
Western, R. E. (M)
Wetzel, G. N. (M)
Whitacre, R. E. (M)
White, R. C. (M)
White, R. T. (SM)
Wilson, J. A. (M)
Wilson, M. F. (M)
Windus, W. A. (M)
Winkle, S. E. (A)
Winter, L. E. (A)
Winters, R. K. (A)
Wollan, R. W. (SM)
Wulfsberg, A. H. (SM)
Wulfsberg, P. G. (SM)
Zinkus, J. V. (A)

Central City (CR-5)
Hart, R. W. (M)

Clinton (CR-5)
Heinsen, D. E. (M)

Columbus Junction (CR-5)
Gipple, C. A. (M)

Council Bluffs (OM-L-5)
Davidson, S. (M)
Meyermann, G. W. (A)
Moss, T. L. (VA)
Petersen, W. P. (A)
Schroeder, R. C. (A)
Staley, J. D. (M)
Stewart, A. C. (SM)
Stutzman, H. C. (A)

Crawfordsville (CR-5)
Cherryholmes, C. D. (M)

Cresco (CR-5)
Polashek, E. J. (A)

Davenport (CR-5)
Andrews, L. W. (M)
Brown, G. G. (M)
Frater, G. A. (M)
Hayes, C. W. (M)
Junkins, C. E., Jr. (A)
Petersen, V. L. (M)
Pfannenstiel, D. A. (A)
Snyder, E. F. (A)

Denver (CR-5)
Schumacher, M. W. (A)

Des Moines (CR-5)
Eastman, J. W. (M)
Gamble, G. R. (A)
Goss, J. E. (M)
Harris, V. M. (A)
Loyet, P. A. (SM)
Luther, R. E. (A)
Quentin, C. F. (M)
Rissler, H. D. (VA)
Sharp, R. R. (A)
Stauffer, R. E. (VA)
Tennant, O. A. (M)

Dubuque (CR-5)
Morris, T. J., Jr. (M)
Walsh, W. J. (M)

Fort Dodge (CR-5)
Tunwall, C. S. (A)

Grinnell (CR-5)
Cox, C. L. (A)
Denny, W. B. (M)

Hawarden (OM-L-5)
Otis, J. C. (A)

Hiawatha (CR-5)
Berg, C. H. (A)
Curley, R. E. (A)

Independence (CR-5)
Blank, W. A. (M)

Iowa City (CR-5)
Alton, E. D. (M)
Celsi, C. J. (M)
Curtis, J. F. (A)
Edberg, R. A. (M)
Fankhauser, J. E. (M)
Garrett, E. T. (M)
Hunter, T. A. (F)
Leiting, M. C. (A)
Lockwood, W. H. (A)
Lowenberg, E. C. (M)
Marner, G. R. (SM)
Menzer, C. H. (SM)
Streib, W. J. (M)
Ware, L. A. (SM)
Wood, D. L. (M)

Kanawha (CR-5)
Johnson, W., Jr. (M)

Le Claire (CR-5)
Keefe, J. W. (A)

Marion (CR-5)
Bergemann, G. T. (A)
Blair, R. O. (M)
Breed, W. M. (A)
Caldwell, K. M. (M)
Canfield, R. E. (A)
Carney, C. S. (M)
Chihak, P. P. (M)
Damm, F. (SM)
Dill, F. J. (M)
Follensbee, W. M. (A)
Frye, E. O. (M)
Haerle, J. M. (M)
Hanson, H. L. (A)
Hartsock, R. D. (M)
Herigstad, V. (A)
Herzig, M. E. (M)
Hofferber, H. E. (M)
Houston, R. H. (A)
Hudock, E. (SM)
Jessen, M. F. (M)
Krogh, R. S. (A)
Lehman, H. W. (SM)
Leverington, R. D. (M)
Mayer, A. F. (M)
McManis, D. L. (M)
Miller, J. R. (M)
Moorhead, P. E. (M)
Newhouse, V. L. (A)
Peterson, D. L. (A)
Read, E. F. (M)
Rodes, W. D. (A)
Rooks, H. B. (M)
Searl, E. P. (M)
Smith, M. S. (SM)
Strebe, A. C., Jr. (A)
Tuthill, E. G. (M)
Van Tilbury, J. D. (SM)
Wise, R. S. (M)

Mechanicsville (CR-5)
Bates, L. D. (M)

Mediapolis (CR-B-5)
Jackson, G. A. (M)

Mitchellville (CR-5)
Melloh, C. I. (A)

Mount Vernon (CR-5)
Hartong, G. S. (M)

Muscatine (CR-5)
Havercamp, R. P. (M)

Oelwein (CR-5)
McGinnis, S. E. (M)
McMurray, D. D. (M)
Sawvelle, E. V. (M)

Parkersburg (CR-5)
Rolfs, J. R. (M)

Robins (CR-5)
Bebee, M. G. (M)

Sioux City (OM-L-5)
Call, G. R. (A)
Lasensky, M. M. (M)
Scott, L. D. (A)
Smith, A. H. (M)

Tabor (OM-L-5)
Adamson, P. (M)

Tama (CR-5)
Penhollow, J. O. (M)

Thornburg (CR-5)
Lowe, B. W. (A)

Toddville (CR-5)
Dicken, H. K. (M)
Vance, A. G. (M)

Waterloo (CR-5)
Kirksey, T. W. (M)

West Burlington (CR-B-5)
Edwards, C. E. (M)
Faulkner, H. E. (M)
Jones, M. E. (M)

Wheatland (CR-5)
Bentrott, D. W. (A)

Whiting (OM-L-5)
Bearce, E. J. (A)

KANSAS

Bethel (KC-6)
Andrews, L. G. (A)
Barnes, O. C. (M)
Stupica, V. A. (A)

Boicourt (KC-6)
Witcher, J. F. (M)

Chanute (WIC-6)
Patrick, D. J. (A)

Cherryvale (WIC-6)
McGinness, C. C. (M)

Colby (WIC-6)
Unruh, S. W. (A)

Denison (KC-6)
Blumberg, R. H. (M)

Derby (WIC-6)
Hickey, L. F. (A)
Knowlton, R. F. (M)

Fort Riley (WIC-6)
Kanen, G. C. (A)
Robertson, M. A. (M)
Smith, T. (A)

Gardner (KC-6)
Gault, W. E. (M)
Gay, W. D. (M)
Reed, D. M. (M)

Haysville (WIC-6)
Rhoten, C. J. (A)

Hiawatha (KC-6)
Legler, H. E. (A)

Hutchinson (WIC-6)
Ayers, D. C. (A)
Cook, K. H. (M)
Emmons, G. T. (A)
Hammeke, E. M. (M)
Schwertferger, A. W. (A)

Independence (WIC-6)
Bennett, H. L. (A)
Benton, W. J. (A)
Johnson, R. W. (A)
Stedman, J. D. (A)
Swartz, G. A. (A)
Thornton, J. A. (M)

Inman (WIC-6)
Deissler, K. L. (A)

Kansas City (KC-6)
Ayres, R. C. (SM)
Bland, F. K. (A)
Chop, W. J., Jr. (A)
Cooper, J. R. (A)
Craycraft, K. S. (A)
Dellinger, C. E., Jr. (A)
Fischer, E. (M)
Fisher, G. F. (A)
Hoover, W. C. (A)
Jones, G. R. (M)
Mathews, V. M., Jr. (SM)
Molby, L. H. (M)
Petersen, G. B. (A)
Pusch, J. H. (A)
Richards, A. (A)
Stillson, J. W. (A)
Vanhorn, H. E. (A)
Wade, M. E. (M)
Watt, E. M. (A)
Wilson, D. R. (A)

Lawrence (KC-6)
Breyfogle, L. D., III (M)
Ellermeier, R. D. (A)
Frye, G. J. (M)
Gaddy, O. L. (M)
Hayes, R. E. (M)
Hill, R. D. (A)
Lansdown, W. D. (M)
Nahman, N. S. (SM)
Patton, P. C. (A)
Robb, D. D. (M)
Rummer, D. L. (M)
Shackelford, R. B. (A)
Shirer, H. W. (A)
Unz, H. (M)
Van Artsdalen, J. W. (M)

Leavenworth (KC-6)
Whitlock, R. L. (A)

Liberal (WIC-6)
Chapman, D. C. (M)

Lorraine (WIC-6)
Peters, P. E. (M)

Manhattan (KC-6)
Bookwalter, E. C. (A)
Boyer, D. W. (A)
Buatte, L. A., Jr. (A)
Cervenka, A. J. (M)
Fox, D. N. (M)
Halljak, C. A. (M)
Hegler, B. E. (M)
Kerchner, R. M. (SM)
Kloeffler, R. G. (F)
Reister, K. W., Jr. (M)
Van Der Maas, G. J. (A)
Whan, D. F. (A)

McPherson (KC-6)
Hedquist, T. G. (M)

Merriam (KC-6)
Fayman, D. L. (M)
Frieze, T. H. (A)
Walter, G. W. (M)

Mission (KC-6)
Bouffiou, C. L. (M)
Brodera, E. L. (A)
Cleer, F. C. (A)
Curtis, G. L. (M)
Gleissner, B. F. (A)
Grey, T. G. (A)
Guthrie, J. E. (M)
Jones, M. R. (SM)
Newell, L. T. (SM)
Omer, C. L. (SM)
Robb, L. S. (M)
Wearth, A. W. (M)
Wilson, R. G. (A)

Mulvane (WIC-6)
Persels, D. M. (A)
Ruppe, K. E. (M)

Olathe (KC-6)
Lobb, C. W. (M)

Overland Park (KC-6)
Betros, L. A. (M)
Buglewicz, N. J. (A)
Christy, J. O. (M)
Clark, J. S. (M)
Fetter, R. W. (SM)
Files, C. O. (M)
Fleming, I. A. (A)
Hyer, F. K. (A)
Lipin, B. (M)

Livingston, W. D. (M)
Mayse, R. L. (M)
Otto, H. G. (M)
Peppel, T. R. (A)
Rauch, E. L. (M)
Shipe, J. J. (A)
Shirley, J. N. (A)
Wagner, F. R. (M)
Welter, N. E. (M)

Parsons (WIC-6)
Martin, M. L. (M)
Tierney, P. V. (A)

Prairie Village (KC-6)
Babbit, E. B. (M)
Chester, W. G. (M)
Dalton, R. C. (A)
Findley, L. D. (M)
Hadley, J. F. (A)
Hax, D. H. (SM)
Hoffman, G. R. (M)
Inderwiesen, F. H., Jr. (SM)
Johnson, D. E. (A)
Kennedy, J. L. (M)
Kroencke, E. A., Jr. (M)
Love, B. E. (VA)
Milberger, W. E. (M)
Nigg, D. J. (M)
Propst, H. R. (A)
Rollert, C. R. (M)
Sommerville, D. I. (A)
Tyler, S. R. (SM)
Van Zant, R. R. (M)

Pratt (WIC-6)
Flint, R. L. (M)

Russell (WIC-6)
Siemoneit, E. (A)

Salina (WIC-6)
Baer, M. T. (M)

Shawnee (KC-6)
Goll, W. E. (M)
Jaedicke, E. R. (M)

Topeka (KC-6)
Brown, E. B. (M)
Costelow, J. A. (A)
Fobair, R. H. (A)
Francis, M. C. (M)
Frazee, J. W. (M)
Grantham, R. B. (M)
Joy, I. L. (A)
Mannell, L. H. (M)
Soper, G. T. (A)
Totten, G. A. (A)
Voiles, G. E. (A)
Young, R. W. (A)

Valley Center (WIC-6)
Cord, C. E. (A)
Depew, H. H. (A)

Wichita (WIC-6)
Aksamit, E. M. (M)
Allen, L. S. (M)
Ayres, W. R. (SM)
Bereman, E. W. (A)
Brown, J. W. D. (M)
Byers, H. O. (M)
Cartiar, G. L. (M)
Castelli, H. B. (M)
Cunningham, J. C. (A)
Davis, H. C. (A)
Duchesneau, B. E. (M)
Dunlap, M. E. (M)
Evans, J. D. (A)
Francis, J. W. (M)
Gamm, C. J. (A)
Good, F. R. (M)
Gozinsky, J. R. (M)
Hall, A. E. (M)
Harper, J. M. (M)
Heggy, C. E. (M)
Hill, A. L. (A)
Hink, K. G. (M)
Hinshaw, V. G. (A)
Hudson, O. K. (M)
Hutchison, D. P. (M)
Hutton, L. I. (M)
Johnson, V. N. (M)
Johnson, W. R. (M)
Keene, A. W., Jr. (M)
Kinnaman, R. L. (A)
Klatt, W. K. (M)
Kraus, D. R. (A)
Lampl, M. B. (A)
Leighton, C. P. (M)
Little, H. H., Jr. (A)
Loman, J. W. (A)
Louie, W. G. (M)
Lundgren, P. L. (M)
McAlearney, P. H. (A)
McDonald, F. W. (M)
McDougal, J. R. (M)
McNabb, R. E. (M)
Mecke, R. M. (M)
Murphy, A. T. (A)
Murray, W. A. (M)
Newby, H. H. (M)
Orr, J. P. (M)
Patterson, D. L. (M)
Patterson, J. W. (M)
Piper, E. (M)
Pyle, K. W. (M)
Rogers, L. W. (A)
Rush, R. L. (M)
Schrag, R. L. (M)
Sheppard, G. E. (M)
Simpson, L. F. (M)
Strain, R. A. (A)
Studebaker, J. E., Jr. (A)
Swift, H. G. (M)
Tarver, A. L. (M)
Thiel, J. E. (M)
Vandegrift, A. E. P. (M)
Walsh, J. J. (A)
Welch, C. R. (A)
Wencel, M. L. (M)
Williams, D. G. (M)
Young, C. W. (M)

KENTUCKY

Anchorage (LOU-5)
Gordon, J. F. (A)

Ashland (CIN-4)
Pack, B. L. (M)
Patton, T. N., Jr. (M)

Bellevue (CIN-4)
Rohrer, R. S. (M)

Bowling Green (LOU-5)
Hendrick, R. J. (M)

Columbia (LOU-5)
Owens, L. M. (M)

Covington (CIN-4)
Dreyer, G. C. (M)
Munch, W., Jr. (M)
Odenthal, L. H. (M)
Schraer, L. J. (M)
Taglauer, E. R. (M)

Fern Creek (LOU-5)
Henson, C. E. (M)
Thompson, R. D. (A)

Fordsville (EO-5)
Matthews, W. V. (A)

Fort Campbell (HUN-N-3)
Scott, T. R. (M)

Fort Knox (LOU-5)
Winterberger, H. P. (A)

Fort Thomas (CIN-4)
Fischler, P. E. (M)
Fowler, N. B. (SM)
Kolo, R. E. (SM)
Sims, T. W. (A)
Stratman, J. W. (M)
Werrmann, C. A. (A)

Franklin (LOU-5)
Wakefield, F. H. (A)

Glasgow (LOU-5)
Sadler, C. C. (A)

Harlan (LOU-5)
Johnson, M. E. (A)

Independence (CIN-4)
McGraw, H. E. (M)

Jeffersontown (LOU-5)
Hewitt, L. G. (M)
Lyle, I. W., Jr. (M)

Lexington (LOU-5)
Albanes, N. J. (A)
Allison, N. B. (M)
Beattie, H. S. (SM)
Curry, J. W. (M)
Daily, H. J. (M)
Ebaugh, D. P. (A)
Helt, S. (M)
Hickerson, J. E. (M)
Koppius, O. G. (M)
Locklar, H. C. (M)
May, J. K. (M)
Perkins, N. K. (A)
Pray, E. B. (M)
Puckett, R. E. (M)
Ross, B. (SM)
Thompson, R. L. (M)
Wayman, R. L. (M)
Willford, R. O., III (M)
Yount, W. R. (A)

Louisville (LOU-5)
Childers, T. A. (M)
Covert, J. L. (M)
Eicher, R. H. (A)
Fife, S. T. (SM)
Fitzmayer, L. H. (M)
Gates, S. H. (A)
Givin, H. H., Jr. (M)
Harmon, R. A. (A)
Haverstock, J. W., Jr. (M)
Hope, C. R. (M)
Kain, R. Y. (M)
Kimmel, E. J. (A)
Koller, O., Jr. (A)
Kwo, T. T. (M)
La Vielle, W. R. R. (M)
Logsdon, H. E. (A)
Marven, E. L. (M)
McAfee, C. S. (A)
Morrison, W. J. (M)
Neher, B. (A)
Nevitt, R. G. (M)
Palmer, R. (A)
Probst, M. C. (M)
Ross, W. H. (M)
Ryan, W. J. (M)
Scales, H. S. (A)
Skaggs, E. P. (A)
Smith, H. T. (M)
Sprowls, P. H. (M)
Sweets, F. M. (M)
Towner, O. W. (F)
Weigel, F. W., Jr. (M)

Middletown (LOU-5)
Williams, L. A. (M)

Newport (CIN-4)
Fields, G. S. (M)

Nicholasville (LOU-5)
Quillen, W. F. (M)

Olive Hill (CIN-4)
Barker, E. E. (M)

Owensboro (EO-5)
Albrecht, C. E. (SM)
Barron, J. L. (A)
Basham, J. L. (A)
Bertke, H. J. (M)
Bond, E. G. (A)
Bowie, W. S. (SM)
Bowles, L. T., Jr. (M)
Boxx, J. P. (M)
Bristow, S. C. (SM)
Bryant, J. A. (A)
Buren, W. E. (M)
Byars, W. F. (M)
Campbell, J. D., Jr. (A)
Carl, W. L. (A)
Carter, F. M. (A)
Carter, M. G. (SM)
Cirul, J. W. (M)
Connelly, J. M. (A)
Cullen, W. F. (M)
Davies, J. A. (M)
Davis, L. B. (SM)
De Walt, K. C. (SM)
Dickerson, A. F. (SM)
Dillon, L. C. (M)
Dorris, R. M. (A)
Edwards, M. W. (SM)
Ellis, L. C. (A)
Estes, R. M. (A)
Fitts, S. M. (SM)
Freeman, H. H. (M)
Fritschel, E. H. (SM)
Graves, M. B. (M)
Haase, A. P. (SM)
Hamilton, M. W. (M)
Hayes, F. L. (M)
Hopper, C., Jr. (A)
Horne, O. P. (A)
Horton, C. E. (SM)
Hughes, R. M. (SM)
Jackson, J. E. (M)
Johnson, K. D. (SM)
Jordan, J. D. (M)
Lammers, D. E. (M)
Lattin, W. J. (M)
Le Clear, M. W. (A)
Lemaster, S. W. (M)
Lemaster, W. H. (M)
Madole, J. F. (SM)
Maginn, L. J. (M)
Martin, J. E. (M)
McCallum, S. E. (A)
McCool, C. D. (SM)
McDuff, O. P. (M)
McKinnis, C. E. (M)
Metelmann, C. (A)
Mickey, D. D., Jr. (SM)
Millis, W. T. (SM)
Moe, R. E. (F)
Mullersman, F. H. (A)
Mumford, L. G. (M)
Newhall, S., Jr. (M)
Owen, L. D. (M)
Quirk, J. B. (A)
Reynolds, C. L. (SM)
Roberts, L. E., Jr. (A)
Robb, J. H. (A)
Rush, J. W. (SM)
Russell, M. W. (A)
Ryan, J. D. (M)
Shipley, W. U. (M)
Smith, H. D., Jr. (M)
Snyder, F. R. (M)
Somerville, J. R., Jr. (M)
Stephens, J. F. (A)
Stephenson, E. L. (SM)
Taylor, C. L. (M)
Trautwein, J. W. (M)
Tucker, J. G. (M)
Walker, R. J. (A)
Ware, C. M. (M)
White, R. G. (M)
Wofford, D. R. (A)
Wood, G. C. (A)

Paducah (EO-5)
Richards, W. W. (A)

Paris (LOU-5)
Miller, L. W. (A)

Richmond (LOU-5)
Turner, J. T., Jr. (M)

Salvisa (LOU-5)
Gritton, D. M. (M)

Shelbyville (LOU-5)
Hastings, J. C. (A)

South Fort Mitchell (CIN-4)
Baker, L. L. (A)
Hughes, J. B. (M)
Reynolds, D. J. (M)
Schipper, R. J. (M)
Wayne, W. C., Jr. (M)

Stanley (EO-5)
Jackson, S. G. (M)

Valley Station (LOU-5)
Hedgecock, R. G. (M)

LOUISIANA

Alexandria (NO-6)
Giaco, V. J. (A)

Arabi (NO-6)
Pechon, A. J. (A)

Barksdale AFB (SHR-6)
Booth, J. E. (M)
Moreland, H. H. (M)
Thomas, O. D., Jr. (A)

Bastrop (NO-6)
Green, W. M., Jr. (M)

Baton Rouge (NO-6)
Campos, L. F. (M)
Case, E. E. (A)
Hodge, B. (M)
McLean, L. V. (SM)
Nethken, R. T. (M)
Owen, W. E. (M)
Perry, G. H. (M)
Raborn, R. L. (M)
Stracener, R. M. (A)
Vergez, J. P., Jr. (M)
Vinet, P. B., Jr. (M)

Bossier City (SHR-6)
Carmichael, H. C. (A)
Culling, E. J. (M)
Laurents, B. W. (A)
Wagner, F. D., Jr. (M)

Buras (NO-6)
Denton, T. L. (A)

Fort Polk (B-PA-6)
Kendall, H. A. (A)

Golden Meadow (NO-6)
Mire, P. (M)

Gretna (NO-6)
Range, M. A. (M)

Gueydan (NO-6)
Lege, A. C. (M)

Harahan (NO-6)
Drake, R. L. (M)

Jennings (B-PA-6)
Bailey, C. L. (A)

Keatchie (SHR-6)
Womack, F. L. (A)

Lacombe (NO-6)
Rust, J. J. (A)

Lafayette (NO-6)
Bliss, G. B. (SM)
Dodson, J. B. (A)
Goss, W. C., Jr. (A)
Haack, W., Jr. (A)
Harrison, E. F. (A)
Mayeux, R. (M)
Pereda, E. F. (M)
Phillips, S. L. (A)
Prejean, J. C. (M)

Lake Charles (B-PA-6)
Burkett, A. C. (A)
Dreyer, R. F. E. (A)
Maas, R. R. (M)
McKee, C. W. (VA)
Moses, E. C. (A)
Parks, W. B. (A)
Powers, T. G. (M)
Senneville, L. O. (A)
Vincent, R. S. (M)
White, R. A. (A)

Larose (NO-6)
Brady, J. A., Sr. (A)

Longville (B-PA-6)
Nelson, W. C. (A)

Mangham (NO-6)
Duncan, H. P. (A)

Mansfield (SHR-6)
Cryer, J. E. (M)

Maplewood (B-PA-6)
O'Shaughnessy, C. A. (M)

Metairie (NO-6)
Adkins, J. M. (M)
Chigoy, W. A. (M)
Hulteen, C. K. (A)
Kirkley, D. E., Jr. (M)
Ritchey, L. C., Jr. (A)

Monroe (SHR-6)
Boyd, R. L. (M)

Natchitoches (SHR-6)
Bailey, B. H., Jr. (M)

New Iberia (NO-6)
Sitomer, A. A. (A)

New Orleans (NO-6)
Allen G. (A)
Andrews, W. E., Jr. (M)
Atkins, R. E. (A)
Baker, R. P. (M)
Becker, H. C. (M)
Bloom, J. D., Jr. (SM)
Bordenave, L. R. (A)
Bullock, J. C. (M)
Chapin, M. F. (M)
Craig, G. H. (M)
Crane, J. D. (M)
Cronvich, J. A. (SM)
Delhom, L. A. (M)
Dobbs, C. I. (SM)
Dowe, R. J. (A)
Dulcich, L. N. (M)
Dureau, L. D. (M)
Du Treil, L. J. N. (SM)
Edwards, H. J., Jr. (M)
Fahrmeier, M. L. (A)
Freeland, W. T. (M)
Frosch, J. A. (M)
Gadsden, C. P. (A)
Hammett, R. B. (A)
Hart, W. S. (A)
Hero, G. A., III (A)
Heymann, H. (A)
Jenkins, S. P., Jr. (M)
Landry, A. P. (A)
Landry, N. R. (M)
Laughlin, W. L. (A)
Lehde, P. E. (F)
Lodato, J. S. (M)
Malm, J. F. (A)
Martin, G. I. (SM)
Morris, J. C. (M)
Often, C. G. (A)
Otto, J. L. (A)
Peirce, G. H. (VA)
Reid, P. Z., Jr. (M)
Riddle, L. G. (SM)
Roussel, G. A. (M)
St. Romain, J. B. (A)
Schiele, E. A. (A)
Seybold, L. C., Jr. (M)
Spencer, J. C. (SM)
Sperry, C. J., Jr. (SM)
Talbot, W. S. (A)
Tong, E. (M)
Venters, J. B. (A)
Woods, T. D. W. (M)
Wulff, F. A., III (M)
Yacich, P. J. (M)

Pollock (NO-6)
Foster, J. W. (A)

Ruston (SHR-6)
Cole, C. F., Jr. (A)
Hastings, W. L. (A)
Johnson, D. L. (SM)
Johnson, M. R., Jr. (SM)
Steere, R. M. (SM)
Tarbutton, J. S. (SM)
Thigpen, A. C. (SM)

Shreveport (SHR-6)
Amaitis, E. J. (A)
Averre, C. W. (A)
Bains, R. W. (M)
Barton, M. C., Jr. (A)
Craig, W. H. (M)
Friedman, H. G. (A)
Garrett, E. D. (A)
Gordon, E. (M)
Hitt, J. E. (A)
Hurley, L. (M)
Long, F. V. (SM)
MacFarlane, J. S. (A)
Maddox, C. H. (SM)
Nuttall, E. D. (SM)
Porter, H. R. (M)
Randolph, A. M. (M)
Scott, C. R. (M)
Scurlock, J. T. (M)
Strickland, E. C. (M)
Walters, R. J. (A)
Williams, L. T. (M)
Wilson, C. R. (M)
Woodard, T. A. (M)

Sulphur (B-PA-6)
Albright, A. L. (M)
McNamara, J. E. (M)

West Monroe (SHR-6)
Steele, R. M. (A)

MAINE

Auburn (BOS-1)
Anderson, P. B. (A)
Brown, G. M. (M)
Schmedel, J. H. (M)

Augusta (BOS-1)
Parker, R. H. (M)

Bangor (BOS-1)
Creamer, W. J. (SM)
Goodell, R. C. (A)
Libbey, W. M. (M)

Biddeford (BOS-1)
Deters, A. A. (A)

Brunswick (BOS-1)
Faust, D. W. (M)
Little, N. C. (M)
Nans, E. A., Jr. (M)
Pagel, R. W. (M)
Sauer, G. R. (M)

Calais (BOS-1)
Reynolds, J. C. (M)

Camden (BOS-1)
Tibbetts, G. C. (M)

Cape Elizabeth (BOS-1)
Gray, L. E., Jr. (A)

Caribou (BOS-1)
Bell, L. H., Jr. (A)

Dover-Foxcroft (BOS-1)
Franchell, W. R. (A)
Schide, C. C., Jr. (M)

Dow AFB (BOS-1)
Lauver, R. M. (M)
Riordan, E. R. (M)

Ellsworth (BOS-1)
Emery, R. M. (A)

Freeport (BOS-1)
Hall, R. T. (M)

Gorham (BOS-1)
Chandler, V. H. (SM)

Harrison (BOS-1)
Carlson, A. W. (A)

Kittery (BOS-1)
Bennett, A. W. (M)

Kittery Point (BOS-1)
Cyr, J. P. A. (M)

Limerick (BOS-1)
Erlandsen, C. F. (M)

Loring AFB (BOS-1)
Bettenhausen, L. H. (M)
Kennedy, J. E., Jr. (A)
Miller, D. C. (M)
Mulder, H. E. (A)
Ott, W. F. (M)

Moody (BOS-1)
Cunningham, T. R. (A)

North Leeds (BOS-1)
Littlefield, D. F. (M)

Oldtown (BOS-1)
Moulton, A. B. (M)

Orono (BOS-1)
Bowles, L. W. (M)
Brown, C. M. (A)

Mac Farland, H. T. (A)
Merrill, R. C. (M)

Portland (BOS-1)
Brewer, L. F. (SM)
Chandler, J. (M)
Cyr, P. E. (M)
Gallimore, J. W. (M)
Hodgkins, R. W. (SM)
Kozineski, W. (A)

Randolph (BOS-1)
Newell, G. R. (A)

Raymond (BOS-1)
Marshall, J. R. (M)
Shively, E. H. (M)

Saco (BOS-1)
Kozloff, J. (M)

Sebago Lake (BOS-1)
Browning, G. H. (F)

South Portland (BOS-1)
Achard, F. H., Jr. (M)
Harris, R. G. (A)

Topsham (BOS-1)
Polone, R. W. (A)

Union (BOS-1)
Whitney, L. E. (M)

Waldoboro (BOS-1)
Cooney, J. R. (M)

Westbrook (BOS-1)
Athas, A. P. (M)

Yarmouth (BOS-1)
Brown, C. R. (M)

MARYLAND

Aberdeen (BAL-3)
Beardsley, H. S. (M)
Bergman, R. L. (A)
Boor, R. A. (M)
Byrod, R. B. (M)
Conley, J. M. (M)
Hallman, J. I. (A)
Haskin, R. H. (M)
Hodge, A. H. (M)
Howard, W. G. (A)
Hunsicker, J. E. (A)
Leeder, J. (A)
Roark, G. L. (SM)
Stoller, M. D. (M)
Terashi, T. (A)
Wallin, C. H. (A)
Williams, C. R. (M)
Wrublewski, M. (M)
Zancanata, H. W. (M)

Aberdeen Prov. Ground (BAL-3)
Haq, S. S. (M)
Kaplan, M. L. (M)
McGuire, H. G. (M)
Smith, C. V. L. (SM)

Accokeek (W-DC-3)
Harris, F. H. (M)
Thornhill, A. F. (M)

Adelphia (W-DC-3)
Campbell, L. E. (M)
Hare, C. M. (A)
Hott, R. D. (M)
Knodle, R. L. (M)
Marchetta, P. (M)
McGraw, H. (M)
Smith, L. G., Jr. (M)
Stogsdill, M. R. (M)
Thomas, E. (M)
Wood, C. R., Jr. (M)

Andrews AFB (BAL-3)
Beresford, H. E. (A)

Annapolis (BAL-3)
Albright, E. L. (M)
Allard, L. C., Jr. (M)
Baker, R. A. (A)
Bremer, J., Jr. (A)
Carter, W. G. (A)
Clark, T. H. (SM)
Daley, J. L. (M)
Dalrymple, H. C. (M)
Dickey, J. L. (M)
Dziedzic, W. T. (M)
Eberhardt, F. J. (M)
Felk, R. L. (SM)
Goodhue, W. W. (M)
Hemmick, K. S. (M)
Johnson, N. C. M., Jr. (A)
Leydorf, G. E. (M)
Lindow, I. L. (M)
Maher, P. D., III (M)
Maling, H. F., Jr. (M)
McClure, G. F. (M)
Miller, T. L. (M)
Poston, M. H. (M)
Powers, E. W. (M)
Quinn, F. S., Jr. (M)
Ray, H. B. (SM)
Scheible, W. R. (M)
Schuttig, L. A. (SM)
Seymour, C. P. (M)
Sinex, C. H. (SM)
Skilling, J. K. (A)
Sverdrup, E. F. (M)
Timm, R. S. (SM)
Wylde, R. J. (SM)

Army Chemical Center (BAL-3)
Dubauskas, S. (M)

Arnold (BAL-3)
Gould, G. T., Jr. (SM)
Gregory, L. W. (SM)
Humiston, H. A. (SM)
Kellam, J. C., Jr. (A)
Lewis, C. H. (SM)
Parnell, W. S. (M)
Scarbro, R. L. (M)
Wyand, D. L. (M)

Baldwin (BAL-3)
Church, G. W. (SM)
Wentworth, F. L. (A)

Baltimore (BAL-3)
Abel, A. E. (SM)
Abell, C. S., III (M)
Albright, J. D. (M)
Allen, J. E. (M)
Allen, R. J. (M)
Alpert, I. S. (A)
Amato, W. P. (A)
Andersen, A. (M)
Anderson, C. F. W. (SM)
Aprahamian, J. (A)
Armstrong, G. R. (M)
Armstrong, J. E., Jr. (M)
Ashmead, H. E. (SM)
Ausfresser, H. D. (A)
Aviles, H. N. (A)
Baida, E. (M)
Bailey, R. T. (M)
Baker, C. E. (A)
Baker, R. H. (M)
Ballentine, R. (A)
Baltha, D. L. (M)
Bamberger, J. E. (A)
Barlow, A. D. (M)
Baron, A. S. (M)
Bath, C. C. (SM)
Bartling, P. B. (M)
Basil, I. T. (M)
Batterman, S. (A)
Beatty, B. M. (M)
Becker, C. H. (M)
Beckman, N. W. (A)
Behm, G. T. (M)
Bell, J. L., Jr. (A)
Bellman, B. M. (M)
Bender, W. W. (SM)
Bendz, W. I. (M)
Benjamin, H. J. (M)
Bennett, A. M. (M)
Bennett, J. W. (M)
Bentley, F. C. (A)
Berry, A. E. (M)
Betsh, K. W. (M)
Bigelow, R. P. (A)
Billin, W. V. (A)
Blasbalg, H. (SM)
Bloom, L. (M)
Bloomer, T. M. (SM)
Booth, J. D. (VA)
Bosse, M. L. (A)
Bottorf, R. J. (M)
Boykin, J. R. (SM)
Brach, J. P., Jr. (M)
Briggs, M. R. (F)
Brodwin, M. E. (M)
Brooks, N. E., Jr. (M)
Brown, D. (M)
Bucciero, J. (A)
Buck, J. R. (M)
Buckler, P. F. (A)
Buehler, G. V. (M)
Burn, J. M., Jr. (M)
Caldwell, E. E. (M)
Carter, C. E., Jr. (M)
Carter, J. C. G. (SM)
Cassedy, E. S., Jr. (M)
Cerva, C. H. (A)
Chapkovich, A. J. (A)
Chapman, R. W. (M)
Cheek, R. C. (M)
Choksy, N. H. (M)
Christianson, C. L. (M)
Clark, C. C. (A)
Clark, F. K., Jr. (M)
Claus, O. R., Jr. (A)
Cleaves, W. E. (SM)
Cochran, G. C. (M)
Cockaday, L. M. (M)
Cohen, H. A. (M)
Cohn, M. (M)
Cole, E. B., Jr. (SM)
Cole, R. C. (M)
Coleman, D. T., Jr. (M)
Collins, A. D. A. (M)
Conklin, W. S. (M)
Corbett, H. W. (A)
Cothron, W. C. (SM)
Crosby, G. E. (M)
Crotty, W. J., Jr. (M)
Csepely, J. A. (SM)
Dalle Mura, P. H. (A)
Darr, J. E. (M)
Daskalakis, A. (M)
Davies, E. R. (A)
Davis, J. W. (M)
Dax, P. R. (M)
Deise, L. F. (M)
De La Cova, P. V. (SM)
Denburg, D. L. (M)
Der, C. F. (M)
Derda, J. A. (A)
Desi, G. R. (M)
De Socio, G. (SM)
Digilio, R. C. (A)
Dianey, J. G., Jr. (A)
Donsbach, W. R. (SM)
Dozier, J. W. (A)
Duff, J. S. (A)
Durham, B. H. (M)
Eckels, A. E. (VA)
Edwards, J. D. (M)
Egger, C. P. (A)
Ekstrom, J. L. (M)
Ellert, C. A. (M)
Esterson, G. L. (M)
Evans, R. E. (A)
Fallon, G. P. (SM)
Farkas, I. (A)
Farkas, J. (A)
Farmer, W. C., Jr. (A)
Fell, T. T. (M)
Fellerman, K. D. (M)
Fells, W. E. (M)
Fenichel, I. (M)
Ferg, A. P. (A)
Ferris, H. (M)
Fialkowski, F. A. (M)
Finlayson, J. A. (M)
Fischbach, J. T. (A)
Fleishman, S. R. (M)
Floam, J. S. (A)
Foerster, R. P. (A)
Fox, R. C. (M)
Franchi, A. J. (A)
Frankenfield, C. C. (M)
Frattali, F. A. V. (M)
Frazier, R. M., Jr. (M)
Friedman, D. S. (M)
Friedmann, D. C. (A)
Fuller, W. C., Jr. (M)
Galloway, J. V. (M)
Gambrill, R. D. (M)
Garrison, C. P., Jr. (M)
General, J. (SM)
Gilbert, G. B., Jr. (M)
Gilmore, D. B. (M)
Giordano, J. R. (M)
Gisriel, J. W., Jr. (A)
Glaser, E. M. (M)
Glover, C. C. (M)
Glucksman, R. M. (SM)
Goldstein, B. L. (A)
Goodloe, R. R. (A)
Goodman, S. N. (M)
Gore, W. C. (SM)
Gott, E. (SM)
Graf, H., Jr. (VA)
Grandinetti, A. F. (M)
Grauling, C. H., Jr. (M)
Green, E. E. (A)
Griffith, B. H., Jr. (SM)
Griffiths, W. W., Jr. (A)
Grimes, J. S. (M)
Groszer, A. J., Jr. (A)
Gruenberger, H. S. (M)
Gunter, F. B. (SM)
Hagelgans, E., Jr. (M)
Halio, M. (A)
Hall, O. C. (A)
Hall, R. J. (A)
Haller, E. J. (A)
Ham, C., Jr. (A)
Ham, D. W. (M)
Hamburger, F., Jr. (F)
Hamby, J. O. (M)
Hankey, R. L. (M)
Hardesty, S. J. (A)
Harper, J. T. (A)
Harris, B. L. (M)
Harris, H. N. (M)
Harris, J. F. (SM)
Hartka, J. J. (M)
Hartley, H. F., Jr. (SM)
Hartwigsen, C. K. (M)
Hauck, V. D. (SM)
Hauf, J. C., III (A)
Hay, R. E. (A)
Hayden, H. P. (A)
Haynes, F. B. (SM)
Heck, J. R. (SM)
Hemphill, A. (M)
Henderson, R. J. (SM)
Hennessey, J. E. (M)
Henry, G. L. (M)
Henry, R. M., Jr. (M)
Herwald, S. W. (SM)
Hill, D. E. (M)
Hines, R. R. (M)
Hoffmanner, G. H. (M)
Hoge, H. H. (M)
Hogge, C. R., Jr. (A)
Hollis, R. M. (M)
Holman, J. G. (M)
Holzgang, W. F. (M)
Hooke, J. T. (A)
Hooper, E. H. (M)
Horsman, J. O. (A)
Horst, E. P. (M)
Hotz, M. (M)
Houghton, R. B. (M)
Houston, G. P., III (SM)
Houston, J. A. (M)
Howe, J. W. (A)
Hsu, C. (A)
Hucke, H. M. (SM)
Huckins, C. E. (M)
Huggins, W. H. (F)
Humphrey, A. L., Jr. (A)
Hunt, V. R. (A)
Hunt, W. W. (M)
Ichniowski, F. C. J. (M)
Ivkovich, T. (A)
Izso, A. J. (A)
Jackson, H. L. (SM)
Jacomini, O. J. (M)
Jenkins, J. L. (M)
Jenks, J. C. (A)
Jensen, A. S. (SM)
Jensen, J. (M)
Jett, E. K. (F)
Johnson, M. P. (M)
Jones, H. H. (M)
Jones, L. G. F. (M)
Jones, M. L. (SM)
Jones, R. K. (M)
Jones, R. E. (M)
Jory, W. H. (M)
Kahl, F. A. (SM)
Kammerman, P. E. (A)
Kampmeyer, R. A. (A)
Kantor, A. C. (A)
Karns, L. W. (M)
Karpa, P. (A)
Kasser, H. N. (A)
Katz, M. (A)
Kearry, H. F. (M)
Kegel, A. G. (SM)
Kempf, R. A. (M)
Kenny, B. C. (M)
Kernan, P. (M)
Kerr, D. E. (VA)
Khoury, N. (M)
Kiley, W. H., Jr. (M)
Kilgore, G. R. (F)
Kim, K. S. (M)
King, T. J. (M)
Kinn, T. P. (SM)
Kirk, J. A. (M)
Kitces, S. (M)
Klaasen, B. J. (M)
Kline, C. R. (M)
Knight, R. M. (M)
Konigsberg, R. L. (M)
Kott, M. A. (M)
Kovasznay, L. S. G. (SM)
Krakau, W. S. (A)
Kraybill, M. E., Jr. (M)
Kreutzberg, J., Jr. (M)
Kronlage, R. B., Jr. (A)
Kudo, F. M. (M)
Kuegler, G. K. (A)
Kumm, W. H. (M)
Kvarda, J. C. (M)
La Bree, C. T. (A)
Laing, J. T. (M)
Lamb, W. G. (M)
Lau, C. B. (A)
Lauderdale, L. K. (M)
Lavin, H. D. (M)
Lawson, E. J. (M)
Leahy, F. N. (A)
Leap, G. A. (A)
Lee, F. G. (M)
Lee, R. F. (A)
Leese, R. E. (M)
Lenz, H. G. (A)
Levin, W. S. (M)
Levine, S. (SM)
Levy, D. S. (A)
Limansky, I. (M)
Linder, H. S. (A)
Lindemann, H. B. (M)
Lindenthal, M. W. (A)
Linsenbardt, A. E. (M)
Lisbin, D. M. (M)
Little, D. G. (F)
Logan, W. F. (A)
Lomax, S. E. (SM)
London, C. (SM)
Long, L. B. (M)
Lord, P. H. (M)
Lory, H. J. (M)
Louk, G. V. (A)
Lubbert, G. L. (M)
Lynch, D. S. (SM)
Lyon, W. T. (M)
Mac Kenzie, J. E. (SM)
Mackes, D. V. (M)
Mackey, J. E. (A)
Mackey, J. R. (M)
Mahoney, D. F. (M)
Malloy, J. J. (M)
Mann, W. C. (M)
Manson, P. S. C. (M)
Margulies, H. H. (A)
Markham, A. S. (SM)
Markwalter, J. L., Jr. (SM)
Marshall, P. J., Jr. (A)
Martin, G. M. (M)
Martin, J. A. (M)
Martinelli, A. A. (A)
Masters, H. M. (M)
Mauro, E. A. (A)
Maxwell, D. J. (M)
Maxwell, R. F., Jr. (A)
May, H. A. (A)
Mayer, R. H. (M)
Mayhew, J. A., Jr. (A)
McAdie, C. H. (M)
McAuliffe, G. K. (M)
McClure, C. B., Jr. (M)
McCombe, D. H. (A)
McCord, R. D. (M)
McDonald, D. C. (SM)
McIver, D. A. (A)
McIver, N. E. (M)
McJunkin, W. D. (M)
McMullen, C. G. (SM)
McNabb, J. S. (A)
McNally, H. R., Jr. (A)
McPherson, L. G. (A)
Mealey, R. M. (A)
Meier, W. M. (M)
Mercer, W. T. (A)
Messner, R. W. (M)
Mester, J. C. (A)
Middleton, F. H. (M)
Mikuckis, J. S. (A)
Millar, R. I., Jr. (M)
Miller, A. A. (A)
Miller, C. F. (M)
Miller, J. A. (M)
Miller, W. H., Jr. (M)
Misey, J. J. (M)
Mockus, J. M. (M)
Mohr, G. A., Jr. (M)
Molz, K. F. (SM)
Monaco, M. (M)
Moore, C. R., Jr. (A)
Moore, D. D., Jr. (M)
Moore, W. H., IV (M)
Mordecai, N. J. (M)
Morris, E. W. (M)
Morris, V. B., Jr. (M)
Mosher, R. M. (A)
Mott, O. B. (M)
Mueller, E. J. (A)
Mullins, F. G., Jr. (SM)
Mundell, K. C. (M)
Murphy, R. E. (M)
Murray, J. B. (A)
Mutch, J. J. (M)
Myers, F. G. (SM)
Naughton, D. J. (M)
Newcomb, W. H., Jr. (A)
Newton, C. E., Jr. (M)
Nickerson, P. E. (M)
Nims, A. A., Jr. (SM)
Nobles, C. E. (SM)
Nolen, J. C. (M)
Nopper, C. G. (A)
Norris, R. N. (A)
Norris, V. L. (A)
O'Connor, W. A., Jr. (M)
O'Donnell, R. J. (SM)
Offermann, F. B. (M)
Ogg, F. C., Jr. (M)
Ogland, J. W. (SM)
O'Hare, W. S. (M)
Olson, W. R. (A)
Osborne, E. F. (M)
Orr, R. V. (M)
Oster, E. W., Jr.*(A)
Otto, W. C., Jr. (M)
Page, F. T. (M)
Park, A. R. (M)
Park, J. H., Jr. (A)
Parks, H. L. (A)
Parrish, W. F. (SM)
Parsons, D. W. (A)
Paska, R. A. (A)
Pearre, S., Jr. (M)
Penabad, J., Jr. (A)
Perlin, A. I. (M)
Peters, H. J. (M)
Phillips, B. E. (SM)
Pinckernell, H. (M)
Pipkin, J. E. (M)
Plante, K. L. (M)
Platt, J. F., Jr. (A)
Podraza, G. V. (M)
Poswiatowski, W. C., III (A)
Poehler, T. O. (M)
Powell, C. (M)
Pratt, A. (SM)
Pridgen, W. L. (M)
Puckett, H. R., Jr. (M)
Pulford, W. M. (M)
Quigley, W. W. (M)
Rainal, A. J. (M)
Rakoske, D. T. (A)
Ralston, G. (SM)
Rambo, S. I. (SM)
Rasch, C. F., Jr. (A)
Raudsep, I. G. (M)
Raynes, H. D. (M)
Real, P. (A)
Reca, J. V. (A)
Reichert, D. G. (M)
Reis, H. J. (M)
Reiter, W. J. (A)
Renwick, R. L. (M)
Rhodes, W. H. (A)
Richard, R. H. (A)
Richards, J. (M)
Richardson, K. C. (M)
Richardson, W. R. (M)
Richmond, I. D. (A)
Riegelhaupt, N. H. (M)
Riley, R. N. (M)
Ripnitz, A. (M)
Roberts, H. D. (A)
Roedel, S. (M)
Rogers, M. (M)
Rohner, A. J. (M)
Rose, G. C. (M)
Rosenberg, H. C. (M)
Rosenblum, I. I. (M)
Rosett, E. (M)
Rossi, A. D. (A)
Roush, R. G. (SM)
Rubenstein, S. E. (A)
Rueggeberg, W. (M)
Ruehl, G. C., Jr. (M)
Rutstein, H. S. (A)
Sachs, H. A. (M)
Sample, D. R. (A)
Sander, W. E. (M)
Sanford, R. W. (M)
Sanner, G. E. (M)
Sargent, C. R. (M)
Sarris, R. A. (A)
Sass, D. J. (M)
Sauceman, J. A. (M)
Scattergood, R. A)
Scheffel, A. G. (M)
Scheiner, S. R. (SM)
Scheneman, E. E. (SM)
Schillo, T. B. (SM)
Schreuer, W. (SM)
Schubert, C. J., Jr. (M)
Schuler, J. R. (M)
Schulkin, M. (SM)
Schullery, E. D. (A)
Schulmeyer, R. M. (M)
Schutz, H. (SM)
Scott, D. M. (A)
Scott, J. K. (M)
Sefton, H. B., Jr. (M)
Segal, M. (M)
Seman, A. E., Jr. (M)
Shagam, E. M. (M)
Shannon, H. H. (M)
Shaw, G. D. (M)
Shawker, C. H. (M)
Shirey, D. C. (M)
Sichelstiel, B. A. (M)
Siedband, M. P. (M)
Sieron, E. M. (M)
Silva, C. (A)
Sima, R. L. (M)
Smith, E. G., Jr. (M)
Smith, E. L., Jr. (M)
Smith, J. W. (M)
Smith, R. J. (M)
Smoot, W. L. (A)
Smythe, D. S. (A)
Solley, J. D. (M)
Sones, W. K. (M)
Soroka, B. (M)
Spencer, P. H. (M)
Spicer, W. T. (M)
Spiegel, S. S. (M)
Steele, R. C. (M)
Stefan, R. S. (M)
Sterling, G. E. (F)
Stiddard, H. R. (A)
Stout, G. P. (SM)
Stout, J. V. (M)
Strandberg, P. R. (M)
Stull, K. S. (M)
Sukhia, D. E. (M)
Tabisz, S. C. (M)
Takacs, S. J. (M)
Taragin, S. (M)
Tashjian, D. R. (SM)
Taylor, J. S. (M)
Taylor, M. (M)
Teleha, C. K. (A)
Telep, E. (A)
Thomas, A. G. (A)
Thomas, C. R. (A)
Thomas, J. F. (M)
Thompson, E. H. (A)
Thompson, J. E. (M)
Tice, D. P. (M)
Tischler, M. (M)
Tisdale, S. E. (A)
Titen, H. (M)
Titus, C. E. (M)
Todes, R. S. (M)
Tolj, H. D. (M)
Trinter, V. E. (M)
Tuttle, L. (M)
Tylor, H. L. (SM)
Urbanski, E. T. (M)
Valenzuela, G. R. (M)

Van Meter, J. L. (M)
Veazie, C. E. (A)
Vierling, H. D. (M)
Vogt, G. L. (M)
Vore, M. P. (M)
Wagner, J. L. (M)
Walch, R. C. Jr. (M)
Waldorf, S. K. (SM)
Wallace, H. E. (A)
Walls, A. B. (A)
Waters, R. H. (M)
Watson, T. E. (M)
Watts, H. M. (SM)
Wayt, H. J. (M)
Webb, G. N. (M)
Weems, C. M., Jr. (M)
Weingarten, M. (SM)
Weinstein, E. M. (A)
Welsted, I. G. (M)
Wenger, F. E. (A)
Wenig, J. (M)
Werner, S. A. (A)
Wexler, M. P. (M)
Wheeler, E. B. (M)
Wheeler, M. S. (M)
Whitcomb, M. F. (A)
White, B. (A)
Whitney, A. (SM)
Wilkes, L. D. (M)
Willey, R. E. (M)
Williams, A. D. (A)
Williams, R. L. (M)
Wilner, J. T. (SM)
Wiltse, J. C., Jr. (A)
Windley, W. D. (M)
Wintle, M. R., Jr. (M)
Wolf, F. H. (M)
Wolf, H. S. (A)
Wolfe, B. (M)
Wolfe, B. F. (M)
Wolfe, R. E. (M)
Wolpert, M. L. (M)
Wolsey, L. G. (M)
Wood, K. E. (M)
Woodard, W. W. (SM)
Woppman, G. H. (A)
Worrell, E. A. (M)
Yaffe, T. H. (SM)
Yeh, L. P. (M)
Yeich, V. B. (A)
Yolken, B. S. (M)
Young, L. (SM)
Zabawa, J. J. (M)
Zacharia, H. (M)
Zamoyta, J. A. (A)
Zeman, P. A. (A)
Zindler, G. F. (A)
Zins, W. A. (M)
Zukauskas, P. J. (A)
Zweier, I. (M)

Bel Air (BAL-3)
Delaney, R. P. (A)

Beltsville (W-DC-3)
Beyer, G. L., Jr. (M)
Biggerstaff, W. F. (M)
Butler, P. (A)
Kliescher, G. A. (M)
Lines, S. R. (M)
Newman, A., Jr. (A)
Reukauf, D. C. (M)

Berwyn Heights (W-DC-3)
Walton, W. W. (M)

Bethesda (W-DC-3)
Affelder, C. (SM)
Andelson, R. P. (A)
Apstein, M. (SM)
Arsem, C. (M)
Astin, A. V. (F)
Baluta, R. E. (M)
Baxter, J. L. (A)
Bedford, P. L. (M)
Birochak, E. (M)
Blanks, R. T., III (M)
Bode, G. F. (M)
Boese, W. C. (SM)
Bollum, C. W., Sr. (SM)
Bowman, R. L. (SM)
Bush, G. P. (SM)
Cacheris, J. C. (SM)
Cahn, L. (M)
Cahn, R. H. (M)
Calhoun, F. G. (M)
Cannon, R. E., Jr. (M)
Carley, W. S. (SM)
Conover, W. V. (A)
Diehl, L. G. (A)
Distad, M. F. (SM)
Dougherty, J. G., Jr. (M)
Doyle, E. M. (M)
Dunn, W. F. (M)
Eidson, R. A. (M)
French, J. C. (M)
Fong, L. B. C. (SM)
Frederick, C. L. (M)
Gager, W. B. (M)
Gebhart, J. H. (M)
Gerwin, H. L. (SM)
Goumas, N. P. (A)
Grant, C. R. (SM)
Grantham, R. E. (SM)
Grimm, R. E. (M)
Hartz, J. E. (SM)
Haydon, G. W. (M)
Hedrich, A. L. (SM)
Held, J. C. (M)
Henry, J. H. (M)
Hoff, R. S. (SM)
Jacobs, D. H. (M)
Jenkins, M. (M)
Jodon, F. R. (A)
Johnston, R. W. (SM)
Keery, W. J. (M)
Klima, W. M. (M)
Landis, P. E. (SM)
Levy, J. E. (M)
Liddel, U. (F)
Lilly, J. C. (M)
Mahaffey, G. N. (M)
Marthens, A. S. (M)
McBirney, H. R. (M)
McDowell, W. E. (M)
Meade, K. R. (M)
Meissner, P. (M)
Melton, B. S. (SM)
Merrill, H. B., Jr. (M)
Messenheimer, A. D. (M)
Mickey, L. (M)
Moore, J. W. (SM)
Nigro, J. P. (M)
Noble, F. W. (SM)
Osborn, M. E. (A)
Pearce, H. U. (A)
Pepper, W. H. (M)
Pfund, C. E. (M)
Portmann, P. A. (M)
Queen, J. L. (M)
Ream, D. L. (A)
Richards, A. P. (SM)
Ridenour, W. S. (A)
Roddy, V. S. (VA)
Rudigier, J. J., Jr. (M)
Rutz, E. M. (SM)
Saunders, W. K. (A)
Sawitz, P. H. (M)
Seymour, G. B. (A)
Shaull, J. M. (SM)
Shultz, R. S. (M)
Smith, K. A. H. (M)
Stewart, J. L. (M)
Stinchfield, J. M. (SM)
Thomas, T. L. (A)
Tripp, A. E. (A)
Trippel, W. G. (A)
Trump, B. C. (A)
Vann, I. M., Jr. (M)
Walters, C. S. (A)
Ware, R. S. (A)
Weaver, W. C. (M)
Webster, E. (M)
Weinschel, B. O. (SM)
Wenzinger, C. J., Jr. (M)
Wheeler, L. B. (M)
Williams, W. K. (M)
Wilson, C. A. (M)
Whittaker, D. A. (M)
Winter, C. W., Jr. (M)
Wolfand, D. (M)
Yost, W. E., Jr. (SM)

Bladensburg (W-DC-3)
Crabill, P. F., Jr. (A)
Talcott, J. W., Jr. (M)

Brandywine (W-DC-3)
Conner, L. M. (M)

Brentwood (W-DC-3)
Koepsell, E. M. (A)

Brookeville (W-DC-3)
Lundquist, G. A. (M)

Burtonsville (W-DC-3)
Claypool, W. S. (VA)
Peterson, R. E. (M)
Waltz, W. R. (M)

California (W-DC-3)
Browne, W. M. (SM)
Dogantzis, B. E. (A)
Wilder, J. M. (M)

Cambridge (BAL-3)
Heisler, W. D. (A)
Holdt, D. H. (A)
Orr, G. M. (M)

Cascade (W-DC-3)
Gutsmuth, H. R. (M)
Stevens, C. L. (A)

Catonsville (BAL-3)
Anderson, J. F. (M)
Behler, R. J. (SM)
Boenning, C. B. (M)
Bowen, J. R. (A)
Calhoun, C. D., Sr. (M)
Chapin, E. W. (SM)
Cole, D. P. (A)
Crutchfield, R. C., Jr. (M)
Des Lauriers, E. L. (A)
Francis, J. P. (M)
Getz, W. W. (A)
Hicks, C. S. (M)
Hoddinott, E. V. (A)
Hoffman, H. C., Jr. (SM)
Hughes, W. E. (M)
Jacob, M. I. (SM)
Johnson, H. W. (M)
Kinsman, W. D. (M)
Klein, G. I. (M)
Lahn, F. C. (M)
Mattern, J. (M)
Meyer, A. W. (SM)
Phelps, G. H. (SM)
Reyes, I. A. (M)
Ruth, H. O. (M)
Singel, J. B. (SM)
Smith, H. B. (M)
Taylor, C. J. (M)
Whatley, E. C., Jr. (SM)

Chase (BAL-3)
Kelly, L. J. (A)
Schultz, R. L. (A)

Cheltenham (W-DC-3)
Doheny, J. F. (M)

Chesapeake Beach (BAL-3)
Grosvenor, A. C. (SM)

Cheverly (W-DC-3)
Beegle, D. H. (SM)
Bosley, H. L. (M)
Davis, R. E. (M)
Gill, A. B. (A)
Gipe, R. C. (A)
Mehrbach, E. (M)
Oglesby, R. G. (M)
Raskhodoff, N. M. (M)
Sly, R. D. (M)
Waldo, G. V. (VA)
Weaver, C. E. (A)
Whitney, F. G. (M)
Young, C. E. (M)

Chevy Chase (W-DC-3)
Ainsworth, E. F. (A)
Alexander, S. N. (F)
Bay, Z. L. (SM)
Blumberg, M. (M)
Brady, J. B. (SM)
Bramhall, E. H. (SM)
Burgess, A. G. (M)
Caldwell, C. M. (SM)
Caporale, P. (SM)
Carter, H. J. (SM)
Caswell, G. L. (SM)
Clapper, H. T. (A)
Engel, F. H. (SM)
Gordon, D. I. (SM)
Hall, E. L. (SM)
Hill, L. P. (M)
Ikelman, G. J. (A)
Jenkins, J. L. (SM)
Jervis, E. R. (SM)
Kambouris, G. N. (M)
Kelley, G. W., Jr. (VA)
Kirsch, R. A. (M)
Larsen, P. J. (SM)
Lee, P. H. (SM)
Linvill, W. M. (M)
Little, J. L. (M)
McIntosh, K. H. (A)
Mills, M. H. (SM)
Moon, R. F. (M)
Neal, P. L. (SM)
Ohlson, A. (A)
Parkhurst, R. A. (M)
Quigley, C. E. (M)
Red, A. G. (M)
Redington, E. D. (SM)
Reggia, F. (A)
Rockwell, P. (SM)
Saito, S. (M)
Schnoor, K. G. (A)
Steggerda, C. A. (M)
Tellman, H. A. (SM)
Titus, D. C. (M)
Voyles, J. E. (SM)
Vurek, G. G. (M)
Wilcomb, E. F. (SM)
Williams, S. B. (F)

Chillum (W-DC-3)
Epstein, A. M. (SM)
Turner, W. R. (M)

Clarksville (BAL-3)
Ellis, R. T., Jr. (M)
Howard, K. M., Jr. (M)
Johnson, J. L. (SM)

Clinton (W-DC-3)
Hortman, J. D. (M)
Kennedy, C. A., Jr. (M)

Cockeysville (BAL-3)
Flagg, D. G. (A)
Healey, D. J., III (M)
McComas, A. D., Jr. (SM)
Redifer, J. L. (M)
Sartorio, D. R. (M)
Wells, R. W. (SM)

College Park (W-DC-3)
Barton, R. (M)
Blanchard, M. K. (M)
Blow, T. C. (M)
Boyd, J. E. (A)
Bricout, P. A. (M)
Chase, R. H. (A)
Chen, Y. M. (M)
Cooper, H. W., III (SM)
Corcoran, G. F. (F)
Haynes, J. M. (A)
Headrick, J. M. (M)
Headrick, W. C. (M)
King, C. L. (M)
Koch, C. F. (M)
Lepper, W. E. (A)
Lewis, J. K. (SM)
Lupton, W. H. (M)
Manning, G. C. (M)
Marshall, F. S., Jr. (A)
Maack, R. C. (SM)
Miller, J. W. (SM)
Morgan, R. (M)
Newberry, D. A. (M)
Pincus, R. (M)
Price, H. W., Jr. (M)
Reed, H. R. (SM)
Ringenbach, M. E. (M)
Rybon, J. C. (A)
Scibilia, W. R. (M)
Starbuck, F. (M)
Svanholm, J. K. V. (M)
Thompson, D. G. (M)
Turnbull, H. A. (SM)
Weber, J. (F)
Wyman, F. E. (M)

Crisfield (BAL-3)
Lawson, W. M., Jr. (M)

Crownsville (BAL-3)
Brown, T. A. (A)
Germain, R. C. (M)
Martin, G. E. (A)
Willner, W. H. (A)

Cumberland (PIT-4)
Stern, H. (SM)

District Heights (W-DC-3)
Ford, R. R. (M)
Wagner, R. B. (M)

Drayden (W-DC-3)
Kennedy, J. B. (M)

Dundalk (BAL-3)
Colvin, R. (VA)

Easton (BAL-3)
Wightman, P. E. (M)

East Riverdale (W-DC-3)
McCann, R. T. (M)
Owen, E. A. (SM)
Smith, E. D. (SM)

Edgewater (BAL-3)
Jones, H. H., Jr. (A)
Rosenberry, W. W. (SM)

Edgewood (BAL-3)
Frasher, M. M. (A)

Edmonston (W-DC-3)
Cannon, R. A. (M)

Ednor (W-DC-3)
Dinunno, J. J. (A)

Elkridge (BAL-3)
Fegely, W. D. (M)
Loux, P. B., Jr. (A)
Springer, J. C. (A)

Ellerton (W-DC-3)
Alexander, F. C. (SM)

Ellicott City (BAL-3)
Barnhart, E. F. (A)
Crocker, G. M., Jr. (M)
Fischer, F. W. (SM)
Fisher, S. G. (M)
Goldbach, A. C. (A)
Hogue, G. E. (M)
Hutchinson, J. O. (M)
Kimball, L. L. (M)
Koudelka, H. A. (M)
Kroft, H. M. (A)
Leister, R. E. (SM)
Mabry, F. S. (SM)
McDonough, J. T. (M)
Tharp, N. B. (SM)
Ulman, L. J. (M)
Ziegler, R. E. (M)

Fallston (BAL-3)
Marcroft, H. C. (SM)

Ferndale (BAL-3)
Neau, O. T. (M)
Smith, K. W. (A)

Forest Hill (BAL-3)
Barthel, D. R. (A)

Fort Meade (BAL-3)
Anderson, R. C. (M)
Bishop, F. W. (M)
Boedicker, D. J. (M)
Clifton, R. B. (M)
Fernstrom, C. H. (M)
Gold, N. (M)
Guyton, J. A. (M)
Miller, C. H. (M)

Frederick (W-DC-3)
Alexander, N. E. (SM)
Corcoran, J. W. (A)
Daugherty, E. J. (M)
Hankey, I. L. (M)
Kolsrud, E. R. (M)
Lockwood, E. H. (SM)
Martin, J. T. (M)
Miller, L. F. (A)
Price, O. I., Jr. (M)
Price, O. I., Sr. (M)
Roughan, J. V. (M)

Fullerton (BAL-3)
Friesner, J. M. (M)
Herndon, J. W. (SM)
Rubis, C. J. (M)

Gaithersburg (W-DC-3)
Adams, J. T. (M)
Campbell, W. S. (M)
Frelenmuth, W. L. (M)
Hamby, C. W. (M)
Johnson, R. N. (M)
White, J. W. (M)

Gambrills (BAL-3)
Welken, R. L. (M)
Wolff, R. L. (M)

Garrett Park (W-DC-3)
Aylor, R. P., Jr. (VA)

Glenarm (BAL-3)
Dudeney, P. N. (M)
Hershfield, S. (SM)
Jones, O. J., Jr. (SM)
Packard, R. F. (A)
Smith, D. W. (SM)
Spiker, R. A. (M)
Sturtevant, C. E. (SM)

Glen Burnie (BAL-3)
Aasen, M. D. (M)
Andreatta, J. H. (A)
Arnold, D. E. (M)
Asaki, G. G. (M)
Bauman, R. E. (A)
Bevan, W. R. (M)
Booth, T. L. (M)
Borchers, N. L. (M)
Boykin, C. R. (M)
Boyles, C. W. (A)
Brannon, D. L. (M)
Brown, E. A. (M)
Buchan, J. F. (A)
Burr, W. E. (M)
Castruccio, P. A. (SM)
Chauvin, D. M. (A)
Clany, M. C. (M)
De Andrade, W. C. (M)
De Lacy, E. M. F. (M)
Demougeot, G. M. (A)
Driggers, B. H. (A)
Dunn, J. E. (M)
Eckstein, G. (M)
Ewanus, W. (M)
Fiege-Kollmann, H. (M)
Filipowsky, R. (A)
Frame, T. E. (M)
Froggatt, J. W., Jr. (A)
Goulden, D. E. (A)
Hedgecock, D. M. (M)
Hockett, S. H., Jr. (M)
Jones, E. E. (M)
Kent, A. J. (A)
Koether, G. H., Jr. (M)
Lawton, H. D. (M)
McBride, J. F. (A)
Medlin, R. O., Jr. (A)
Merchant, S. A., Jr. (M)
Meunier, M. B. (A)
Moskowitz, C. (M)
Musk, H. A. (M)
Myers, F. S., Jr. (M)
Neyhart, P. L. (M)
Parris, W. J. (M)
Pearson, J. L. (A)
Plath, R. H. (M)
Potter, N. S. (SM)
Ragot, R. L. (M)
Rogers, C. L., Jr. (A)
Ryan, C. C. (M)
Shafer, M. W. (M)
Sorrell, P. A. (M)
Stebbins, W. J. (M)
Stewart, N. H. (SM)
Svensson, E. L. (A)
Tanner, D. A., Jr. (A)
Thompson, G. A. (A)
Thompson, J. E. (M)
Tomlinson, C. C. (SM)
West, J. P. (M)
White, J. E. (M)
Yates, W. A., Jr. (M)

Great Mills (W-DC-3)
Stitch, B. D. (A)

Greenbelt (W-DC-3)
Hanyok, A. (A)
Jones, G. R. (A)
O'Connor, T. M. (A)
Parkison, E. R. (A)
Parsons, P. H. (M)
Petkof, B. (M)
Zanin, B. P. (M)

Hagerstown (W-DC-3)
Dennis, J. (M)
Fuller, B. K. (M)
Maycock, J. C. (M)
McIntire, G. W. (A)
Philpot, J. W., Jr. (M)
Pitzer, H. B. (M)
Spencer, D. K. (M)
Yoakum, W. E. (A)

Halethorpe (BAL-3)
Becker, J. A. (SM)
Clemson, D. B. (M)
Jentilet, A. (M)

Hanover (BAL-3)
Evans, G. E. (M)
Quinn, B. O. (A)
Strong, J. L. (A)

Havre De Grace (BAL-3)
Arnold, N. W. (M)
Kintner, P. M. (A)
Putnam, R. E. A. (M)
Richard, V. W. (M)
Weik, M. H., Jr. (A)

Hillcrest Heights (W-DC-3)
Lynch, D. W. (M)

Hollywood (W-DC-3)
Baker, R. L. (SM)
Young, C. H. (M)

Huntingtown (BAL-3)
Voisich, J. (A)

Hyattsville (W-DC-3)
Adams, T. E. (M)
Ashcraft, C. D. (A)
Bartlett, R. C. (M)
Bell, B. D. (M)
Berry, J. E. (A)
Blouch, D. H. (M)
Blum, H. E. (A)
Boenning, W. R. (M)
Bradford, W. C. (A)
Breeskin, S. D. (M)
Burns, J. C. (A)
Carruth, D. E. (M)
Chu, Y. (SM)
Cirincione, G. V. (M)
Cohen, C. L. (M)
Crawford, G. D. (M)
Didra, W. E. (A)
Dyer, J. W. (M)
Fadden, B. J. (M)
Flanagan, J. D. (M)
Fulcher, C. S. (A)
Gager, F. M. (SM)
Gandy, C. L. (M)
Garner, W. E. (M)
Gouge, J. R., Jr. (M)
Gray, J. C., Jr. (M)
Gray, J. W. (M)
Graybeal, W. E. (A)
Greenwald, S. (M)
Hannon, J. R. (A)
Harris, G. T. (M)
Hausman, A. H. (M)
Hengen, J. G., Jr. (M)
Hepfer, J. W. (A)
Hicks, H. H. (M)
Hirsch, R. M. (SM)
Holden, S. E. (A)
Hutchinson, E. M. (M)
Izard, C. B. (M)
Jackson, E. H., Jr. (M)
Jones, J. J. (M)
Keller, T. B., Jr. (A)
Khu, E. B. C. (A)
Kulikowski, E. F. (SM)
Landfried, H. H. (M)
Lane, T. B., Jr. (A)
Latham, D. C. (M)
Lefkowitz, H. (M)
Lyons, R. E. (M)
Marcotte, P. G. (M)
Marquis, D. C. (M)
Marsh, E. V. (M)
Masching, R. G. (SM)
Merkel, M. A. (A)
Morse, W. R. (SM)
Moseley, J. C., Jr. (A)
Nace, P. E. (A)

Norvell, J. B. (M)
Palmer, L. C. (M)
Pamphilon, L. E. (M)
Pendleton, T. A. (M)
Pike, W. N. (M)
Potts, R. B. (M)
Reuse, M. L., Jr. (M)
Richie, S. M. (SM)
Rogal, S. Jr (A)
Rozanski, R. R. A. (M)
Ryals, J. W. (A)
Sennewald, P. F. (A)
Shuck, L. G., II (A)
Silverstein, A. (M)
Sorensen, G. L. (M)
Starobin, A. F. (M)
Stuntz, J. W. (M)
Sullivan, J. J. (A)
Summers, C. R. (A)
Sumpter, E. J. (A)
Sweeney, C. J., Jr. (M)
Tai, J. H. V. (M)
Tippett, J. T. (M)
Valkenburg, E. P. (M)
Ware, R. B. (M)
White, J. W. (A)
Yaplee, B. S. (M)

Indian Head (W-DC-3)
Anderson, R. A. (A)
Henderson, J. E. (M)
Ryon, J. C. (M)
Squire, R. K. (M)

Jessups (BAL-3)
Wilson, H. C. (M)

Joppa (BAL-3)
Davis, J. M., Sr. (A)

Keedysville (W-DC-3)
Lent, F. E. (A)
Nakamura, D. S. (A)

Kensington (W-DC-3)
Ahern, C. R. (M)
Alldredge, L. R. (M)
Anderson, W. H. (M)
Barline, F. E. (M)
Batten, J. C., Jr. (M)
Becker, W. E., Jr. (M)
Bell, W. S. (M)
Burcham, D. P. (M)
Carpenter, R. C. (M)
Clair, J. D. (M)
Compton, R. D. (A)
Cooperman, J. I. (M)
Crone, J. L. (M)
Davis, J. J. (A)
Gray, W. M. (M)
Harrison, C. J. (SM)
Hekimian, N. C. (M)
Hiltz, F. F. (A)
Horton, B. M. (M)
Hulse, W. H. (M)
Jenkins, K. A. (M)
Joseph, H. M. (SM)
Kaiser, J. A., Jr. (M)
Kaiser, O. C. (M)
Kendall, F. H., Jr. (M)
Lilly, R. G. (M)
MacQuivey, D. R. (M)
Meadows, L. A. (SM)
Miller, F. B. (A)
Mitoma, E. Y. (M)
Morey, F. C. (M)
Morse, A. O. (M)
Myrick, J. C. (M)
Notz, W. A. (M)
Ostaff, W. A. (SM)
Peters, M. W. (M)
Petrie, G. W., III (SM)
Pincus, S. (M)
Porreca, G. (M)
Radabaugh, E. L. (M)
Redmond, J. J. (SM)
Riblet, H. B. (SM)
Ridgely, N. R., Jr. (M)
Rosenberg, R. S. (M)
Schappals, E. A. (SM)
Shepperd, I. J. (M)
Spinks, A. W. (M)
Spool, J. (M)
Sprinkle, M. C. (M)
Waters, W. E., Jr. (M)
Wears, L. R. (A)
Webster, E. M. (F)
Whipple, L. G. (A)
Woodside, G. E., Jr. (M)
Yaffee, P. (SM)

Kingsville (BAL-3)
Andrews, W. R. (M)
Davis, H. P. (M)
Frazier, R. V. (M)
Pullen, K. A., Jr. (SM)

Landover (W-DC-3)
Fisher, R. H. (M)

Landover Hills (W-DC-3)
Moltrup, G. R. (M)

Lanham (W-DC-3)
Henry, V. F. (M)
Lyon, E., III (M)
Pielmeier, G. R. (M)
Stoops, C. W. (M)
Yuill, S. J. (M)

Lansdowne (BAL-3)
Travers, J. F., Jr. (A)

Laurel (W-DC-3)
Bell, H. P. (A)
Bickart, T. A. (M)
Collier, W. W. (M)
Craig, A. G. (M)
Herbert, L. G. (M)
May, C. (M)
Meares, C. W. (A)
Mobley, M. C. (M)
O'Connor, G. S. (SM)
Roberts, W. K. (M)
Schreyer, S. D. (M)
Shinn, E. N. (A)
Souder, G. H. (M)
Straughn, J. B. (M)
Worden, H. W. (M)

Lexington Park (W-DC-3)
Appleberry, T. K. (M)
Bartels, W. S. (SM)
Jayson, E. L. (A)
Leopard, G. W. (SM)
Maillet, A. J. (A)
Norkus, B. S. (M)
Peterson, C. H. (A)
Russell, C. M. (SM)
Wilson, R. T. (SM)

Linthicum (BAL-3)
Coulter, E. L. (M)
Hrybyk, W. L. (A)
Kuehn, H. S. (SM)
Ramsay, J. H. (M)
Rustad, L. W. (M)
Zrubek, W. E. (M)

Linthicum Heights (BAL-3)
Ap Rhys, T. L. (M)
Bastow, J. G., Jr. (M)
Bias, G. H., Jr. (M)
Bolt, C. A., Jr. (A)
Cichanowicz, H. J. (A)
Collins, Z. L. (M)
Dempsey, M. E. (A)
Eastland, F. M. (M)
Garrett, C. L. (A)
Goetz, L. P. (SM)
Hill, W. W., III (M)
Holman, F. P. (A)
Lee, R. E. (M)
Lee, R. (F)
Lungo, A. J. (A)
Modlin, C. J. (M)
Newhouse, P. D. (A)
Rogers, C. H. (A)
Seldon, W. Z. (M)
Tellier, J. (M)
Wolf, J. E. (M)
Wolf, S. (A)
Worster, J. R. (M)

Lutherville (BAL-3)
Albin, F. I. (M)
Biddlecomb, R. W. (M)
Brockway, A. L., Jr. (M)
Brugger, R. D. (M)
Carpenter, L. B. (A)
Claborn, K. D. (A)
Eby, J. T. (M)
Freeland, A. F. (M)
Gebhardt, R. C. (A)
Henck, E. D. (M)
Hom, W. R. (M)
Jackson, J. H. (M)
Kent, L. L. (M)
Knox, P. C. (SM)
Maurer, D. S. (M)
Noll, R. E. (M)
Philips, W. D. (M)
Rausa, G. J. (M)
Rice, C. I. (SM)
Roberts, C. O., Jr. (M)
Scanga, W. A. (M)
Schoenwetter, H. K. (M)
Selberlich, J. S. (M)
Senger, F. A. (M)
Tewkabury, J. M. (M)
Walter, R. J. (A)

Mayo (BAL-3)
Williams, W. S. (M)

Middle River (BAL-3)
Cook, A. R. (A)
Cyphers, R. F. (M)
Purner, R. C. (A)

Millersville (BAL-3)
Horn, R. E. (A)
Mooney, D. H., Jr. (SM)
Valenta, M. F. (SM)

Monkton (BAL-3)
Barnett, F. M., Jr. (A)
Thompson, F. J. (A)

Mount Airy (BAL-3)
Nikirk, H. S. (A)

Mount Rainier (W-DC-3)
Bush, J. E. (M)
Hurley, C. N. (A)
Kurtzman, S. P. (A)
Sheitelman, H. D. (M)
Slominski, T. V. (A)

North Chevy Chase (W-DC-3)
Redler, W. M. (SM)

North Linthicum (BAL-3)
Albright, R. K. (A)
Axelby, G. S. (SM)
Butala, E. F. (A)
Hamer, E. G., (SM)
Houston, D. R. (M)
James, C. L. (A)
Mack, K. M. (M)
Sutherland, D. (A)
Temple, J. M. (SM)

North Severna Park (BAL-3)
Christie, C. J. (SM)

Odenton (BAL-3)
Perko, E. M. (M)

Owings Mills (BAL-3)
Carter, A. J., Jr. (A)
Wilson, C. L. (A)

Parkville (BAL-3)
Silva, F. A. (M)

Pasadena (BAL-3)
Erwin, H. P., Jr. (M)
Miller, C. J. (SM)
Pegg, B. A. (M)
Shepherd, S. G., Jr. (A)

Patuxent River (W-DC-3)
Bonham, R. E. (M)
Braddy, J. A. (A)
Hannah, G. B. (A)
Martin, W. A., Jr. (A)
Yulo, C. (M)

Phoenix (BAL-3)
Bennighof, R. H. (SM)
Davis, R. J. (SM)
Johnson, P. S. (M)
Munson, L. A. (M)
Randall, M. W. (M)
Vergara, W. C. (SM)

Pikesville (BAL-3)
Barrack, C. M. (M)
Gilbert, E. M. (A)
Howe, R. B. (A)
Kasinoff, H. A. (M)
Kravetz, H. T. (M)
Lambert, J. (M)
Marie, C. S. (M)
McDade, J. G. (A)
Schrank, H. E. (SM)
Thomas, C. Y. (M)
Wright, R. E. (M)
Younginger, E. J. (M)

Point of Rocks (W-DC-3)
Loucks, I. H. (SM)

Potomac Heights (W-DC-3)
Bissett, E. B. (M)

Prince Frederick (BAL-3)
King, B. (A)

Randallstown (BAL-3)
Broady, S. N. (SM)
Burns, J. E. (A)
Dietz, J. H. (M)
Dokas, J., Jr. (A)

Reisterstown (BAL-3)
Duncan, R. S. (A)

Relay (BAL-3)
Reynolds, D. W. (A)
Taylor, D. (M)

Riderwood (BAL-3)
Ellen, S. T. (M)

Riverdale (W-DC-3)
Cain, R. J. (M)
Costanza, F. V. (M)
Dew, N. R. (A)
Nye, J. W. (M)
Powers, M. L. (A)
Smith, J. C., Jr. (A)
Tallerico, A. (A)
Troutner, J. R. (M)
Withrow, W. E. (M)

Rockville (W-DC-3)
Anderson, B. E., Jr. (A)
Aucremanne, M. J. (M)
Austin, J. H. (A)
Bacon, E. J. (M)
Barnard, G. L. (A)
Beck, W. L. (M)
Beecher, D. W. (M)
Benjamin, R. P. (A)
Biser, M. H. (SM)
Bowman, J. E. (A)
Brodie, A. H. (M)
Brush, J. W. (A)
Burnside, E. D. (M)
Carpenter, R. J. (M)
Cohen, G. S. (M)
Cole, W. M., Jr. (A)
Copeland, A. L. (M)
Dellasanta, O. (M)
Dozier, J. J., Jr. (A)
Dye, J. E. (M)
Eisenberg, R. M. (M)
Elam, F. E. (M)
Fitzgerald, R. T. (M)
Gardenhour, A. J., Jr. (A)
Geranis, A. J. (M)
Gilliland, H. W. (A)
Gleason, R. J. (SM)
Grady, T. J (A)
Haltiwanger, J. C. (A)
Hardin, C. D. (M)
Harris, E. M. (A)
Heilprin, L. B. (M)
Hoffman, L. (M)
Jones, R. H., Jr. (M)
Kelley, J. R. (M)
Kenney, W. D. (M)
Kingsbury, J. L. (M)
Kinnamon, J. G. (M)
Lang, E. T. (M)
Lehman, J. E. (M)
Luke, G. W., Jr. (A)
Mareden, C. P., Jr. (M)
McGolrick, J. E. (M)
Messera, J. R. (A)
Morison, C. T. (A)
Morris, G. T. (M)
Morse, M. S. (SM)
Noelcke, C. L., Jr. (SM)
Norris, R. F. (M)
Olewine, W. P. (M)
Paradis, R. J. (M)
Rapalus, H. W. (A)
Roccati, A. J. (A)
Rolfe, R. G. (A)
Ruscus, P. V. (A)
Self, C. T. (A)
Sledge, O. D. (SM)
Smith, R. F. (A)
Sorger, G. U. (M)
Sulzer, P. G. (F)
Swanekamp, J. E. (A)
Teres, B. W. (A)
Tynan, W. A. (A)
Udelson, B. J. (M)
Veras, C. F. (M)
Viera, F., Jr. (A)
Wagner, T. C. G. (M)
Waters, J. A., Jr. (M)
Watkins, C. F. (A)
Watkins, P. L. (M)
Wennberg, H. A., Jr. (A)
Whitlock, M. B., Jr. (A)
Whybrew, J. W. (M)

Ruxton (BAL-3)
King, D. D. (SM)
Martin, A. C. (M)

Saint Michaels (BAL-3)
Lewis, G. (F)

Sandy Spring (W-DC-3)
Iribe, P. (A)

Seabrook (W-DC-3)
Skaggs, J. W. (A)

Severn (BAL-3)
Burleson, C. T. (M)
Caputo, D. N. (A)
Hall, G. E. (A)
Heitman, E. H., Jr. (A)

Severna Park (BAL-3)
Bartlett, P. G. (SM)
Butler, H. J. (M)
Carr, R. W. (M)
Coleman, S. D., Jr. (M)
Gedance, A. R. (M)
Gray, M. G. (M)
Hastings, M. S. (M)
Hayes, M. E. (SM)
Hetrich, G. R. (M)
Hoffman, C. P. (A)
Hume, P. D. (M)
Jones, W. N. (M)
Koenig, P. E. (SM)
Le Febre, D. C. (A)
Mathieu, R. E. (M)
McClellan, C. E. (SM)
McKechnie, J. S. (SM)
Mooney, M., Jr. (A)
Praeger, W. C. (M)
Roeder, J. R. (M)
Strong, M. E. (M)
Van Duzer, K. W., Jr. (M)
Wascavage, J. A. (A)
Winter, G. W. (M)
Young, A. F. (M)

Silver Spring (W-DC-3)
Abramovich, M. N. (SM)
Adams, R. (M)
Alde, R. O. (A)
Allen, U. L., Jr. (M)
Anderson, H. C. (M)
Anderson, H. W. (SM)
Andrick, C. A. (A)
Anspacher, W. B. (SM)
Applebaum, A. (M)
Baldini, B. P. (A)
Barnard, E. H. (M)
Barse, G. R. (A)
Bassett, R. S. (M)
Beach, E. H. (M)
Beaulieu, A. J. (A)
Beck, E. A. (M)
Bernard, R. L. (M)
Bernstein, B. (M)
Bioseca, L. F. (M)
Blackburn, C. A. (M)
Blair, C. R. (A)
Blankenship, A. C. (M)
Bond, M. L. (SM)
Bonwit, K. S. (M)
Bonwit, S. E. (M)
Bowman, H. A. (M)
Braum, C. M. (SM)
Brimberg, M. M. (SM)
Brooks, J. W. (M)
Brooks, M. M. (A)
Brown, C. W. (SM)
Bryan, S. (SM)
Buckingham, S. A. (M)
Buckley, R. O. (A)
Burger, R. M. (M)
Bush, A. G., Jr. (M)
Bush, G. B. (M)
Byer, D. L. (M)
Campbell, S. S. (M)
Cancro, C. A. (M)
Carleton, H. (M)
Chambre, C. S. (M)
Chapin, H. E. (M)
Cheston, T. C. (SM)
Chwastyk, A. M. (M)
Cohen, J. (M)
Collins, J. (M)
Collins, J. R. (M)
Cook, F. W. (VA)
Cooper, H. W. (SM)
Coscarelli, E. (M)
Cosman, A. (M)
Costolo, C. L., Jr. (A)
Costrell, L. (SM)
Cote, A. J., Jr. (M)
Cotts, A. C. (SM)
Crabill, W. B. (A)
Craig, P. M., Jr. (M)
Danner, B. L. (M)
Davids, D. A. (M)
Davies, G. L. (SM)
Davis, G. W. (M)
Dean, F. A. (A)
Deitz, J. (SM)
Diambra, H. M. (A)
Dippell, R. E., Jr. (A)
Dobbins, B. D. (M)
Doud, R. D. (M)
Dunkelman, L. (A)
Durkovic, J. E. (SM)
Dye, R. E. (M)
Early, D. M. (A)
Edlen, G. G. (M)
Emch, G. F. (A)
Evans, R. J. (A)
Ewing, J. H. (M)
Fallon, C. (A)
Faram, H. D. (M)
Fink, C. (M)
Finkel, A. (M)
Fischer, W. (A)
Fischman, M. (A)
Fisher, E. M. (M)
Fitzgerald, J. P. (M)
Flato, M. (M)
Flyer, I. N. (SM)
Freeburger, B. P. (A)
Freeman, J. J. (SM)
Friedman, S. N. (M)
Frosolone, A. (M)
Fullen, W. E. (M)
Fund, S. R. (SM)
Funkhouser, R. E., Jr. (M)
Gale, M. (A)
Gammill, R. A., Jr. (A)
Garver, R. V. (M)
Gaynor, N. (M)
Geist, J. C. (SM)
Gessner, R. J. (A)
Gilbert, J. N. (SM)
Gillean, M. E. (M)
Glassco, P. B. (SM)
Glorioso, A. R. (M)
Goldfarb, B. J. (SM)
Goldstein, G. D. (M)
Goodman, S. I. (M)
Gordon, H. L. (M)
Gorozdos, R. E. (A)
Gossard, W. H. (M)
Gould, W. I., Jr. (M)
Greene, E. E. (M)
Grisamore, N. T. (A)
Gulda, J. A. (SM)
Hacker, P. S. (A)
Halev, I. (SM)
Halvorsen, H. W. (A)
Hambien, J. W. (M)
Hardy, A. O. (A)
Harrison, C. W. (M)
Harrison, H. (SM)
Heller, A. (M)
Hemdal, J. F. (M)
Herider, E. D. (M)
Hermach, F. L. (M)
Hibbard, W. D., Jr. (M)
Hickley, T. J. (SM)
Hickok, C. H. (A)
Hillstrom, W. B. (M)
Hiltner, R. P. (A)
Hirschel, L. R. (M)
Hoadley, J. C. (SM)
Hoffman, C. W. (M)
Hoffman, M. (M)
Hogan, D. L. (SM)
Holbrook, R. O. (SM)
Hollis, J. L. (SM)
Hooper, E. T. (M)
Hoover, K. W. (M)
Hosea, M. E. (M)
Huber, C. E. (M)
Hunker, W. (M)
Hurlburt, E. H. (SM)
Jacobs, G. (SM)
James, J. L. (M)
Jaques, A. T. (M)
Jaques, C. M. (A)
Jesurun, M. M. (M)
Johannessen, H. R. (M)
Johnson, R. M. (A)
Johnston, T. F. (M)
Jones, R. E. (M)
Jordan, S. A., Jr. (SM)
Josephson, G. C. (A)
Joslow, J. (A)
Kanter, J. I. (M)
Karl, C. R. (M)
Katz, I. (SM)
Kerney, R. W. (M)
Kiebler, J. W. (M)
King, R. G. (M)
King, W. P. (SM)
Kirkland, G. I. (M)
Klamm, G. E. (A)
Klein, M. H. (M)
Klink, G., Jr. (A)
Kraus, D. G. (M)
Kraus, R. W. (M)
Krebs, W. N. (VA)
Knowles, R. B. (M)
Knox, A. A. (M)
Koutsandreas, J. D. (M)
Kreis, A. L. (VA)
Kreithen, A. (SM)
Kreitzer, H. M. (M)
Kuck, J. H. (SM)
Lambidakis, P. G. (A)
Laine, R. O. (M)
Larson, R. C. (M)
Latson, F. W. (M)
Le Blanc, R. E. (A)
Lee, J. D. (M)
Le Gare, J. M. (SM)
Leibowitz, R. C. (M)
Leitma, G. (A)
Leonard, F. M. (M)
Leslie, C. B. (M)
Levine, S. (A)
Levy, I. J. (M)
Lieberman, G. (A)
Looney, H. C. (M)
Lord, J. B. (A)
Love, R. G. (M)
Lun, M. J. (M)
Machlin, A. (M)
Mack, S. J. (A)
Mader, L. W. (A)
Mallin, J. A. (M)
Maloney, R. S. (M)
McCall, T. D. (M)
McCarthy, L. J., Jr. (M)
McDuffie, G. E., Jr. (M)
McDonald, L. W. (A)
McKeel, P. D. (SM)
Marsh, D. S. (M)
Marshburn, C. E. (SM)
Martin, K. H. (SM)
Mawhood, S. A. (M)
McLaurin, T. S. (A)
Melvin, E. A. (M)
Mengel, J. T. (SM)
Merchant, W. J. (SM)
Michelsen, P. F. (A)
Mizzell, S. A. (M)
Montgomery, J. D. (M)
Morris, C. S. (A)
Morse, E. K. (SM)
Moser, E. B. (A)
Munson, H. B. (SM)
Nagrant, J., Jr. (A)
Nagy, A. W. (SM)

Nathanson, F. E. (M)
Newman, N. (A)
Nucci, E. J. (SM)
Oakes, J. B. (M)
Ober, H. E. (SM)
O'Hara, J. J., Jr. (M)
Oliver, M. E. (M)
Page, C. H. (F)
Palasky, E. C. (M)
Pales, J. C. (A)
Parker, M. J. (SM)
Parks, J. N. (A)
Pear, C. B., Jr. (M)
Petersen, J. A. (A)
Petritz, R. L. (A)
Phelps, R. W. (A)
Pickering, R. W. (M)
Plotkin, G. N. (M)
Poritzky, S. B. (M)
Preisman, A. (F)
Proudley, R. E. (A)
Prugh, T. A. (SM)
Pugh, M. E. (M)
Pulliam, S. B. (A)
Randolph, J. P., Jr. (SM)
Rappaport, G. (F)
Rattner, S. (SM)
Rayburn, R. A. (M)
Reagen, E. J. (M)
Redden, M. S., Jr. (M)
Reed, H. Z. (M)
Regnier, R. C. (A)
Rice, L. W. (VA)
Robel, R. B. (SM)
Robertson, T. M. (SM)
Robinson, R. O. (SM)
Rogers, A. L. (A)
Ronsaine, W. R. (M)
Rosenberg, J. D. (M)
Ross, R. R. (M)
Rotkin, I. (SM)
Rowland, R. W. (M)
Rueger, L. J. (SM)
Sanders, W. E. (A)
Sasse, J. (M)
Schlemm, N. H., Jr. (M)
Schmidt, B. H. (M)
Schroeder, A. J. (A)
Schuchard, E. A. (M)
Schulman, J. R. (M)
Schweitzer, A. J. (A)
Scillian, G. L. (SM)
Seaton, J. W. (M)
Sencenbaugh, D. W. (M)
Sera, F. (M)
Settersten, R. A. (M)
Shade, K. E. (A)
Shaw, H. F. (M)
Shawe, M. E. (A)
Sheppard, T. W. (M)
Silverman, H. M. (M)
Silverman, S. (SM)
Simms, A. (A)
Simon, A. (M)
Simons, D. E. (SM)
Simpson, M. E. (M)
Slife, J. F. (A)
Smith, C. B. (M)
Smith, C. N. (A)
Smith, R. W. (A)
Smittenaar, G. H. (M)
Smollett, R. J. (M)
Snow, C. E. (M)
Snowberger, A. A. (M)
Soler, A. (M)
Solow, M. (M)
Sorrows, H. E. (A)
Spenser, C. W. (M)
Spetner, L. M. (SM)
Star, J. (A)
Stein, M. (A)
Stott, W. T. (M)
Strasser, T. J. (A)
Street, H. W. L. (A)
Stroble, R. R. (M)
Sures, A. H. (SM)
Sutton, E. D. (M)
Swanson, E. E. (M)
Tate, R. T. (M)
Taylor, R. E. (SM)
Terrell, R. L. (VA)
Tiemann, R. F. (M)
Tims, E. F. (SM)
Toense, E. R. (M)
Toense, R. A., Jr. (A)
Tregidga, A. C. (SM)
Uglow, K. M., Jr. (SM)
Unkenholz, W. C. (M)
Upchurch, L. M., Jr. (M)
Upton, C. R. (M)
Urban, W. D. (M)
Van Hoesen, R. W. (A)
Vann, W. L. (M)
Varhus, H. H. (M)
Vilas, E. T. (M)
Wales, R. O. (M)
Walsh, G. W. (M)
Walters, F. M., III (M)
Walters, L., Jr. (M)
Watson, R. D. (SM)
Webster, K. R. (A)
Weichbrod, J. (SM)
Weinberger, A. (M)
Weinstein, M. S. (M)
Weitzel, R. L. (M)
Westerfield, E. E. (M)
Wetmore, G. B. (A)
White, N. (SM)
White, P. E. P. (A)
Williams, E. M. (SM)
Williams, V. L. (M)
Williams, W. E., Jr. (SM)
Willis, F., Jr. (SM)
Wilson, R. R., Jr. (A)
Winkler, S. (SM)
Witow, M. I. (M)
Witte, J. J. (M)
Worsley, G. (SM)
Wuertenberg, W. E. (A)
Wyman, R. C. (M)
Yates, W. A. (SM)
Young, H. M. (M)
Young, J. D. (SM)

Simpsonville (BAL-3)
Jones, L. S. (M)

Solomons (BAL-3)
Morris, A. D. (M)

Sparks (BAL-3)
Macnichol, E. F., Jr. (M)

Spencerville (W-DC-3)
Smith, W. L. (SM)

Stevenson (BAL-3)
Caplan, N. (SM)

Stevensville (BAL-3)
Wise, H. J. (SM)

Suitland (W-DC-3)
Fleischer, A. (M)
Gustavus, H. (A)

Takoma Park (W-DC-3)
Clark, G. L. (M)

Timonium (BAL-3)
Baker, D. A. (M)
Barbour, C. W., Jr. (SM)
Colvin, J. W. (M)
Dawson, S. R. (SM)
Duquet, E. A. (M)
Faber, D. C. (A)
Franz, W. J. (A)
Hart, A. C. (M)
Hoffman, P. A. (M)
Klitsch, L. L. (A)
Kroman, E. J. (M)
Lee, R. A. (A)
Mac Glashan, D. W. (M)
Pearce, J. M. (SM)
Petrou, N. V. (SM)
Pribble, N. F. (M)
Reel, G. M. (M)
Shelor, E. G., Jr. (M)
Shepherd, R. T. (M)
Singer, L. M. (M)
Smeltzer, R. F. (A)
Smith, W. J. (M)
Strickroth, G. J. (SM)
Towles, W. B. (SM)
Vanderlipp, R. R. (M)
Visher, W. A. (A)
Wedel, J. O., Jr. (A)
Weidner, E. J. (A)
Wild, T. A. (SM)

Towson (BAL-3)
Ackerman, W. W. (A)
Adams, R. L. (M)
Allinder, R. H. (M)
Allison, D. M., Jr. (SM)
Armstrong, J. H. (M)
Bang, B. A. (M)
Barclay, A. S. (M)
Barnes, A. E. (M)
Barnhill, R. B. (M)
Bulik, C. (A)
Campbell, R. R. (A)
Campbell, W. O. (M)
Carpenter, J. W. (M)
Chrisman, D. W. (SM)
Clark, M. C. (M)
Cope, R. W. (A)
Cosby, J. R. (M)
Covington, M. B., Jr. (A)
Diersing, C. B., Jr. (M)
Drake, J. E. (M)
Dullinger, A. G., Jr. (A)
Eaton, T. T. (SM)
Edwards, R. B. (M)
Esher, J. R., Jr. (SM)
Fales, D., III (M)
Fitzhugh, H. S., II (M)
Frome, M. K. (M)
Gage, D. D. (SM)
Gibson, R. L. (A)
Graffis, L. F. (SM)
Hall, H. S. (M)
Hammel, A. E. (M)
Hammond, J. W. (SM)
Hanks, H. C., Jr. (SM)
Hanna, R. E. (M)
Hatcher, J. H. (M)
Hatfield, G. I. (M)
Hayes, E. G. (M)
Henthorn, J. E. (SM)
Houck, J. W. (A)
Hulce, R. L. (M)
Jackson, E. L., Jr. (M)
Johnson, G. M. (M)
Kaltenbacher, D. M. (M)
Killion, R. H. (SM)
King, E. J. (M)
Kochevar, H. J. (M)
Lambdin, W. S. (SM)
Laning, W. A. (M)
Larkins, E. B. (M)
Levine, R. J. (M)
Macalady, B. D. (M)
Meador, A. B., Jr. (M)
Namey, A. E. (SM)
Paskman, M. (M)
Phalen, F. W. (A)
Pickens, R. A. (M)
Purington, H. G. (M)
Randolph, G. W. (M)
Ransom, J. R. (M)
Riggs, R. N. (A)
Rowley, R. C. (A)
Ruth, J. K. (M)
Schenck, T. M. (M)
Sherbarth, R. A. (M)
Silbert, W. C. (M)
Sinclair, A. L., III (M)
Slavin, M. (M)
Smith, H. E. (M)
Stephenson, J. O. (M)
Stout, D. R. (A)
Sudia, A. T. (M)
Taylor, J. H. (SM)
Thomas, C. E., Jr. (M)
Thomas, R. K. (SM)
Vana, C. J. (M)
Vinson, R. R. (M)
Wallace, B. E., Jr. (M)
Walter, G. M. (M)
Wells, L. C. (M)
White, G. R. (SM)
Whitney, M. E. (SM)
Wilkinson, R. L. (A)
Winn, O. D. (M)
Woodrow, G. V., Jr. (SM)
Wulff, L. H. (A)
Yarbrough, H. B. (M)
Yates, L. R. (M)
Zutkoff, A. I. (A)

University Park (W-DC-3)
Burke, J. K. (A)
Coker, R. H. (M)
Krason, H. C. (M)

Upper Marlboro (W-DC-3)
Davis, E. H. (A)

Walkersville (W-DC-3)
Carstensen, E. L. (SM)

Welcome (W-DC-3)
Lamm, C. M., Jr. (A)

West Hyattsville (W-DC-3)
Almquist, J. F. (A)
Bitz, E. A. (M)
Evans, T. R. (M)
Ferrara, A. A. (A)
Kessler, S. (A)
Kunetz, G. J. (M)
La Pointe, J. C. (SM)
Mackenzie, C. M. (M)
Marzetta, L. A. (M)
Navarro, R. C. (M)
Pan, P. M. (M)
Pittard, G. S., Jr. (M)
Roberts, P. M. (M)
Sakrison, D. J. (M)
Schwartz, R. J. (M)
Trezona, G. E. (M)
Wagner, W. F. (M)
Wolff, E. A. (M)
Young, H. D. (M)

Westminster (BAL-3)
Morgan, R. H. (M)
Morton, W. A., Jr. (M)

West Severna Park (BAL-3)
Cowan, K. D. (A)
Heazel, V. M., Jr. (A)
Pincoffs, P. H. (M)
Wojcicki, F. J. (A)

Wheaton (W-DC-3)
Cook, T. B. (M)
Gragnani, O. J. (A)
Marks, M. M. (SM)
Patton, R. E. (A)
Petes, J. (M)
Popowsky, W. J. (M)

Wheaton Heights (W-DC-3)
Baechtel, A. R. (M)

White Marsh (BAL-3)
Francis, J. P. (A)

Woodbine (BAL-3)
Mullinix, N. E. (M)

Woodstock (BAL-3)
Glover, F. N. (M)

MASSACHUSETTS

Abington (BOS-1)
Mielke, E. S. (A)
Pihl, G. E. (SM)

Acton (BOS-1)
Casey, R. F. (A)
Packard, L. E. (F)
Sawyer, C. E. (A)
Searle, R. W. (A)
Sletten, C. J. (M)

Adams (WMA-1)
Zabawa, E. P. (A)

Agawam (WMA-1)
Pickett, T. A. (M)
Rackliffe, R. J. (A)

Allston (BOS-1)
Allen, D. F. (M)
Belkin, A. (A)
De Mattos, R. F. (M)
Farrah, H. R. (M)
Ferguson, J. B. (M)
Futran, S. M. (M)
Goldman, D. J. (M)
Gray, E. L. (A)
Keegan, R. F. (M)
Labitt, B. H. (A)
Land, H. R. (M)
Max, S. M. (M)
Mongold, G. E., Jr. (M)
Plumb, D. R. (M)
Salow, S. R. (A)
Thompson, E. D. (M)
Vafiades, B. C. (A)
Wargo, J. J. (A)
Werner, C. P. (A)

Amesbury (BOS-1)
Hambleton, P. N. (SM)

Amherst (WMA-1)
Herald, C. A. (M)
Langford, J. W., Jr. (M)

Andover (BOS-1)
Bolman, J. G. (A)
Di Rocco, J. V. (M)
Fadden, J. J. (M)
Finley, A. D. (M)
Garfield, O. R. (SM)
Gearin, J. H., Jr. (A)
Heislein, J. T. (A)
King, R. A. (M)
Koch, A. A. (M)
Rounds, W. A. (A)
Schmidt, R. E. (SM)
Short, H. H. (A)
White, J. R. (M)
Wilson, R. S. (M)
Word, J. A. (SM)

Arlington (BOS-1)
Abell, G. R. (M)
Adams, W. L. (M)
Ames, B., Jr. (M)
Anouchi, A. Y. (M)
Arsenault, J. R. (A)
Astulfi, S. O. (A)
Bailey, D. L. (M)
Bogart, R. M. (M)
Buuck, W. P. (M)
Burbo, J. H. (M)
Campbell, D. J. (A)
Carroll, T. J. (M)
Chang, S. H. (SM)
Chisholm, V. T. (M)
Cohen, G. (M)
Cohen, M. S. (A)
Cole, B. R. (M)
Collins, W. E. (M)
Cosman, B. J. (A)
Curry, G. R. (M)
Davis, E. S. (M)
Defandorf, J. P. (M)
De Lisle, J. E. (M)
Favaloro, C. J. (A)
Forgie, J. W. (M)
Galeis, J. (M)
Galopin, A. (M)
Gano, J. J. (SM)
Gardella, C. E. (M)
Graham, J. W. (M)
Granlund, J. (M)
Gustaff, A. J. (M)
Hadlock, C. F. (SM)
Haire, P. F. (M)
Hammond, R. A. (SM)
Hansen, J. T. (M)
Hanson, G. (A)
Hawkins, R. S. (M)
Hiatt, R. E. (M)
Hovannesian, A. S. (M)
Jones, G. C. (M)
Katz, A. (M)
Kiesling, P. W., Jr. (M)
Knight, H. M. (M)
Kravitz, L. C. (A)
Lamson, H. W. (F)
Levy, A. O., Jr. (M)
Lovenstein, A. J. (SM)
Mayer, D. F. (M)
McCabe, H. P. (M)
McCann, J. F. (A)
Michaelis, H. P. (M)
Mills, A. L., Jr. (M)
Morganstern, R. I. (M)
Morrow, W. E. (M)
O'Brien, A. E., Jr. (M)
Pasho, E. I. (M)
Perry, B. D. (M)
Perry, K. E. (A)
Pierce, J. A. (F)
Plotts, E. L. (SM)
Ploussios, G. (M)
Prue, H. W. (A)
Rowe, A. J. (A)
Sawyer, P. B. (M)
Sheridan, W. F. (A)
Smoll, A. E. (SM)
Soron, H. I. (M)
Stephenson, L. (M)
Stevens, H. C. (A)
Tassinari, S. P. (M)
Tilton, C. S. (SM)
Trunfio, A. P. (M)
Valentine, L. F. (M)
Van Poppelen, F. J. (A)
Von Recklinghausen, D. R. (M)
Voutselas, T. (A)
Walsh, W. P. (M)
Warren, R. M. (A)

Arlington Heights (BOS-1)
Cleveland, L. (M)

Ashby (BOS-1)
Coleman, D. L., Jr. (M)

Ashland (BOS-1)
Biesele, R. L., Jr. (SM)
Pathe, J. F. (SM)
Scott, W. A. (M)
Tanigawa, G. (M)
Thesing, R. H. (A)
Zeller, H. R., Jr. (M)

Attleboro (BOS-1)
Gustafson, D. W. (A)
Logan, C. A. (M)

Attleboro Falls (BOS-1)
Gwyn, C. B., Jr. (SM)
Lerner, I. S. (M)

Auburn (BOS-1)
Beschle, R. G. (M)
Kee, R. C. (M)
La Brie, R. H. (A)

Auburndale (BOS-1)
Brand, E. G. (M)
Day, P. F. (A)
Finneran, W. J. (A)
Freudberg, R. L. (A)
Ingalls, R. P. (M)
Janis, P. (SM)
Kotsaftis, C. J. (A)
Ryan, C. E. (M)
Sheppard, L. E. (M)
Zimbel, N. S. (M)

Avon (BOS-1)
Chappell, I. C. (A)
Edwards, E. W. (A)
Hourihan, A. M. (A)

Ayer (BOS-1)
Richards, R. E. (M)
Rison, D. M. (A)

Babson Park (BOS-1)
Horton, W. P. (M)
Riblet, H. J. (F)

Ballard Vale (BOS-1)
Zink, A. J., Jr. (SM)

Barre (BOS-1)
Cronin, J. F. (A)

Bedford (BOS-1)
Adolph, E. H. (A)
Alexander, R. M. (M)
Anderegg, J. S. (M)
Angus, R. B., Jr. (SM)
Baker, R. H. (M)
Baldwin, J. M. (M)
Barabush, A. (M)
Barker, H. R., Jr. (M)
Barnes, J. W. (M)
Barrett, R. M. (M)
Bartee, T. C. (M)
Beaumariage, D. C. (M)
Bishop, W. B. (M)
Brennan, J. X. (M)
Brown, D. M. (M)
Brown, R. B., III (M)
Buzzard, R. D. (A)
Canty, W. J. (A)
Carman, J. N. (A)
Claflin, R. E., Jr. (M)
Crandell, P. A. (M)
Del Guercio, J. V. (M)
De Vita, A. J. (A)
Drew, D. B. (A)
Fernald, R. A. (A)
Field, W. G. (M)
Fischer, H. L. (M)
Fricks, R. E. (M)
Friedman, M. (M)
Gerhardt, R. H. (M)
Gicca, F. A. (M)
Gindsberg, J. (SM)
Hammond, G. H. (SM)
Harris, K. L. (M)
Harrison, J. R. (M)
Harwood, A. (M)
Hawes, A. R. (SM)
Healy, B. H. (A)
Hinckley, K. M. (M)
Hofmann, E. J. (A)
Ivanov, A. (M)
Johnson, P. C. (M)
Jurgielewicz, S. S. (A)
Koehler, R. L. (M)
Konkle, K. H. (A)
Lee, J. H. (M)
Libby, W. B. (M)
Lipinoga, L. (M)
Lipke, D. W. (M)
Lovell, R. W. (M)
Madle, E. J. (M)
McCurley, E. P. (M)
McMurtrie, D. L. (SM)
Miccioli, A. R. (M)
Morgenthaler, F. R. (M)
Morin, J. O. (M)
Mudgett, W. L. (M)
Nagy, F., Jr. (M)
Ockene, N. J. (M)
Peeler, G. D. M. (M)
Perkins, J. F., Jr. (A)
Rand, J. C. (A)
Ratti, J. N. (A)
Reinecke, H., Jr. (M)
Rey, T. J. (SM)
Rodman, A. K. (M)
Rohlinger, D. J. (A)
Sebasky, G. M. (M)
Selfridge, J. L. (A)
Sen, H. K. (SM)
Shapiro, M. L. (M)
Sherburne, A. E. (M)
Smith, A. G. (M)
Smith, C. L. (M)
Stevens, R. T. (M)
Stone, N. (M)
Vance, W. H., Jr. (M)
Ward, J. H. R., III (A)
Willis, J. T. (M)
Wulfsberg, K. N. (M)

Belmont (BOS-1)
Albert, B. (A)
Barry, J. G. (SM)
Blackburn, J. F. (M)
Chatterton, E., Jr. (M)
Corrigan, J. P. (M)
Cox, W. W. (M)
Crapo, S. T. (M)
Crosby, R. C. (M)
Cullington, E. H. (M)
Davidson, D. (M)
De Florio, G. P. (A)
Deuitch, D. E. (M)
Dolbear, B. L. (SM)
Drake, F. D. (M)
Dudley, B. (SM)
Duncan, N. L. (M)
Edgerton, H. E. (F)
Falt, P. J. (A)
Foster, R. P. (A)
Glennan, T. K., Jr. (M)
Gray, H. L. (A)
Hellenbrand, C. M. (M)
Hildebrand, J. G., Jr. (M)
Hunt, F. V. (F)
Klein, J. A. (A)
Klemperer, H. (A)
Kohler, H. M. (M)
Kondi, S. E. (A)
Luscher, R. W. (A)
Macrakis, M. S. (A)
McCarthy, D. J. (M)
Mercer, W. R. (SM)
Murphy, J. E. (M)
Naylor, T. K. (M)
O'Day, M. D. (M)
O'Hara, F. J. (A)
Peters, A. T. (A)
Phaneuf, C. A. (M)
Reed, J. (SM)
Reintjes, J. F. (SM)
Restaino, A. D. (M)
Richardson, A. S. C. (M)
Rines, R. H. (SM)
Ringer, M. (M)
Rona, T. P. (SM)
Saunders, A. C. W. (M)
Schmidt, W. G., Jr. (M)

Simons, J. C., Jr. (SM)
Stein, J. (A)
Vogan, E. L. (M)
Wagner, C. A. (M)
Wagner, R. W. (M)
Ward, H. R. (A)
Woodward, R. H. (M)

Berkshire (WMA-1)
Lord, R. W. (M)

Berlin (BOS-1)
Krackhardt, R. H. (A)

Beverly (BOS-1)
Biggs, O. H. (M)
Brown, N. J. (A)
Callely, J. A., Jr. (A)
Carr, E. G. (M)
Dillaby, E. F. (SM)
Ferris, P. A. (A)
Finneault, W. I. (M)
Ghen, W. R. (M)
Hangstefer, J. B. (M)
Heins, H. (A)
Kraeuter, L. D. (M)
Kriensky, J. (M)
Krinsky, B. D. (M)
Lesch, F. A. (A)
Martin, J. E. (M)
McCarthy, H. J. (SM)
McKinley, J. J. (A)
Perron, R. R. (M)
Pierce, D. H. (M)
Prescott, G. A. (A)
Rudenberg, H. G. (SM)
Ryan, H. G. (M)
Safran, L. (M)

Ballerica (BOS-1)
Arbuckle, W. L. (M)
Benjamin, C. R. (M)
Brooking, B. M. E. (M)
Heiser, W. W. (M)
Kirshner, H. J. (A)
Mohr, M. C. (M)
Murano, L. (M)
Nickless, H. C. (A)
O'Brien, W. F. (M)
Parker, E. O., Jr. (M)

Bolton (BOS-1)
Graustein, W. W., Jr. (M)
Mechlin, R. N. (M)
Slade, C. B. (A)
Wilson, H. M. (SM)

Boston (BOS-1)
Alford, A. (F)
Almquist, M. L., Jr. (M)
Andreika, J. T. (M)
Bachman, W. S., Jr. (M)
Bailey, R. B. (A)
Baird, H. S. (A)
Bairnsfather, R. R. (M)
Bakalar, D. (M)
Bardfield, M. L. (M)
Barnes, R. P., Jr. (M)
Benison, R. D., (A)
Bistany, F. A. (A)
Blitz, D. (M)
Bolinder, E. F. (M)
Bothwell, T. P. (A)
Bramson, M. (M)
Bress, C. (M)
Brettler, B. J. (M)
Brilliant, M. B. (M)
Briner, C. D. (A)
Brodhead, W. M. (M)
Brown, H. H., III (A)
Chandler, C. H. (SM)
Cheatham, T. P., Jr. (SM)
Chopra, A. (A)
Christian, J. W., Jr. (M)
Chung, Y. T. (M)
Cowperthwait, F. N., Jr. (A)
Davy, S. J. (SM)
Detrick, D. M. (M)
De Wolf, N. (M)
Dolansky, L. O. (SM)
Dougherty, J. D. (A)
Downes, A. B. (A)
Dulskis, R. (M)
Eaton, L. G. (M)
Engel, P. F. (M)
Epstein, H. D. (M)
Essigmann, M. W. (SM)
Evans, R. R. (M)
Farnsworth, E. P. V. (SM)
Faughnan, B. W. (M)
Fenter, W. S. (A)
Foundas, G. J. (M)
Fricker, S. P. (M)
Gallagher, P. N., Jr. (M)
Gearn, G. R. (A)
George, G. F. (M)
Germeshausen, K. J. (SM)
Gianoukos, W. A. (M)
Glass, W. G. (M)
Goldberg, H. B. (M)
Gordon, B. M. (M)
Grossimon, H. P. (A)
Gunders, E. (M)
Guterman, S. S. (SM)
Haberstroh, A. (SM)
Hague, W. M., Jr. (M)
Hallenstein, N. A. (M)
Hamre, J. B. (A)
Hartman, C. J. (M)
Hearn, K. F., Jr. (M)
Heinz, J. M. (M)
Hieken, C. (A)
Hobson, J. E. (F)
Hofstetter, E. M. (M)
Hughes, A. M. (A)
Hulburt, H. J., Jr. (M)
Jennings, M. H. (SM)
Johnsen, N. B. (M)
Jones, R. N. (A)
Kennedy, F. (A)
Kelner, R. C. (A)
Kerk, C. T. (M)
Kilroy, H. P. (M)
Kim, Y. S. (M)
Klein, R. D. (M)
Kohlenberg, A. (SM)
Kostecki, W. (M)
Lee, F. (M)
Lee, R. C. (M)
Levine, M. W. (M)
Lewis, G. A. (M)
Littleboy, H. S. (M)
Loewenthal, M. (M)
Lundberg, T. H. (A)
MacDonald, C. J. (A)
Mead, F. M. (A)
Meyer, H. R. (A)
Miles, R. J. (M)
Mott-Smith, J. C. (M)
Newman, B. R. (M)
Noyes, B. I. (M)
Palmer, R. T. (M)
Peters, F. H. F. (A)
Phelps, L. I. (A)
Pryor, J. G. (M)
Ramler, D. A. (A)
Randall, D. S. (A)
Regan, J. F. (A)
Rex, R. A., Jr. (M)
Richardson, T. L. (M)
Rigby, S. (M)
Rines, D. (M)
Roberts, L. W. (SM)
Rose, J. E. (M)
Rosenes, O. (M)
Rynard, J. P. (A)
Salomone, L., Jr. (M)
Scher, N. (M)
Schindler, J. A. (A)
Schochet, J. R. (A)
Schwartz, S. (SM)
Sciegienny, J. (M)
Scott, R. E. (M)
Sheingold, D. H. (M)
Sherman, P. (A)
Shortell, A. V., Jr. (M)
Smith, B. H. (M)
Smith, R. D. (SM)
Sokal, N. O. (SM)
Spitzer, E. (M)
Stone, S. G. (A)
Straehley, E. H. (M)
Strimling, W. E. (M)
Talambiras, R. P. (M)
Teragawa, R. T. (M)
Thomas, A. S. (A)
Toperzer, R. S. (M)
Wagner, P. S. (M)
Waite, S. (VA)
Wayne, G. H. (SM)
Weingarten, J. (M)
Wilson, G., M. (A)
Winn, H. L. (M)
Woodward, J. H. (SM)
Wozencraft, J. M. (SM)
Zabludowsky, A. (A)

Boxford (BOS-1)
Fulton, R. O. (A)
Kuczun, C. G. (M)

Braintree (BOS-1)
Brennan, J. E. (M)
Myrbeck, E. R. (SM)
Polachowski, B. A. (A)

Bridgewater (BOS-1)
Trocchi, R. F. (M)
Wilber, L. C. (M)

Brighton (BOS-1)
Abrams, S. M. (M)
Bernstein, H. (M)
Chan, M. C. H. (M)
Clymas, G. (A)
Dobson, A. M. (A)
Feigenson, A. (A)
Friedman, A. L. (A)
Gada, N. (M)
Gillis, J. E. (M)
Globus, L. A. (M)
Goldman, E. M. (A)
Greenfield, S. E. (M)
Hanopol, L. (M)
Haroules, G. G. (M)
Jacob, F. (M)
Katz, L. (M)
Kauff, P. L. (M)
Larkin, J. D. (M)
Lowenstein, H. L. (A)
MacGregor, N. (A)
Montanari, R. E. (M)
Margolin, M. C. (M)
Niederberger, S. A. (A)
O'Neil, R. E., Jr. (M)
Riceman, E. A. (M)
Rotman, W. (M)
Rubinovits, J. I. (SM)
Talley, W. K. (M)
Tsacoyeanes, C. W. (M)
Weiner, G. (M)
Wolf, S. M. (A)
Worth, G. E. (M)
Yurt, X. (VA)

Brockton (BOS-1)
Ewell, R. M., Jr. (A)
Fortier, O. V. (M)
James, P. G., Jr. (A)
Loughlin, B. J. (A)
MacLeod, A. D. (M)
Marshall, A. R. (M)
Rubin, H. L. (A)
Sampson, E. J. (A)
Shuck, T. L. (A)
Swanson, H. A. (M)
Ward, A. G. (M)

Brookline (BOS-1)
Ackerman, R. L., Jr. (M)
Anfenger, E. (M)
Bergmann, S. M. (M)
Bloom, J. H. (M)
Bow, B. H. (A)
Cohler, E. U. (SM)
Crystal, M. I. (M)
Debski, J. M. (M)
Doctor, D. E. (A)
Dunn, A. G. (M)
Feldman, H. (M)
Flanzbaum, W. K. (M)
Frewald, W. J. (A)
Garber, T. A. (A)
Gerber, I. B. (M)
Golembe, S. N. (M)
Hart, W. H. (M)
Hoffman, S. (M)
Howard, C. I. (M)
Kaminow, I. P. (A)
Kapian, B. J. (M)
Kodis, R. D. (SM)
Lorant, C. R. (M)
Miller, A. (SM)
Morris, R. J. (M)
Neumann, H. D. (A)
Newberg, I. L. (A)
Owen, S., Jr. (M)
Parks, J. T. (M)
Patralko, J. (A)
Peluso, D. J. (A)
Polayes, M. B. (A)
Rappaport, M. B. (M)
Reichner, A. J. (M)
Schiff, A. (A)
Segel, H. P. (A)
Sikoryak, W. J. (A)
Smith, T. B. (M)
Spira, H. (M)
Waltzer, B. (A)
Weiner, M. M. (M)
Weinstein, I. J. (M)
White, D. H. (M)

Burlington (BOS-1)
Borton, J. T., Jr. (M)
Brown, J. R. (M)
Carruthers, C. W. (M)
Clougherty, J. F. (M)
Collins, R. B., Jr. (M)
Eiane, B. (A)
Ellis, W. R. (M)
Gibson, R. E. (M)
Gill, M. S. (A)
Hergenrother, R. M. (M)
Hutton, V. E. (M)
Lally, R. D. (M)
Marino, P. F. (M)
Markow, E. W. (SM)
McCully, R. G. (A)
Morrison, C. D. (A)
Neldorf, E. (M)
Newins, J. L., Jr. (M)
Nygard, J. C. (M)
Peterson, D. E. (M)
Preston, J. L. (M)
Reece, D. L. (A)
Ross, D. A. (M)
Rudolph, H. W., Jr. (M)
Sandholm, R. G. (M)
Schorr, M. G. (M)
Scotney, J. H. (M)
Thomassen, N. E. (M)

Buzzards Bay (BOS-1)
Anderson, R. W. (A)
Engstrom, H. T. (SM)

Byfield (BOS-1)
Jacomb, R. A. (M)

Cambridge (BOS-1)
Adams, G. J. (SM)
Adler, R. B. (SM)
Aiken, H. H. (SM)
Akhurst, D. O. (M)
Alonso, R. L. (A)
Applegate, C. E. (SM)
Apsokardos, E. (A)
Arthurs, E. (M)
Babb, D. D. (M)
Baghdady, E. J. (M)
Bagley, P. R. (M)
Baker, G. T. (M)
Ball, J. H. (M)
Baruch, J. J. (M)
Batchelder, L. (F)
Beecher, A. E. (A)
Benfield, A. E. (SM)
Benson, F. M., Jr. (A)
Bers, A. (A)
Bertolini, A. (M)
Bixby, H. O. (SM)
Blair, J. (M)
Blankenbaker, J. V. (A)
Blood, B. E. (A)
Bolt, R. H. (SM)
Bose, A. G. (M)
Bouyoucos, J. V. (M)
Bowles, E. L. (F)
Bradspies, S. (A)
Brady, M. M. (M)
Brennan, D. G. (SM)
Bridge, H. P. (A)
Brown, G. S. (F)
Broxmeyer, C. (M)
Buchanan, G. D. (M)
Burke, C. T. (F)
Bussgang, J. J. (SM)
Cairns, H. E. (A)
Calingaert, P. (M)
Camus, A. L. (A)
Carpenter, C. H. (M)
Carr, C. E. (A)
Carr, K. L. (A)
Chaffee, E. L. (F)
Chang, C. M. (A)
Chao, S. K. (M)
Chu, T-H (M)
Clapp, R. E. (M)
Clayton, J. M. (SM)
Coll, D. C. (M)
Comstock, D. F., Jr. (M)
Cook, J. H. (SM)
Cooper, P. W. (M)
Cooper, R. S. (A)
Corey, B. W. (A)
Craven, R. B. (M)
Crawford, C. H. (M)
Davidson, G. A. (M)
De Blois, S. W. (M)
Delzell, R. P. (M)
De Marco, V. R. (M)
Dillinger, W. D. (SM)
Distler, R. C. (M)
Donovan, A. C. (M)
Downing, R. E. (M)
Draper, C. S. (F)
Dunn, B. C., Jr. (M)
Eastham, M. (F)
Eisenstadt, B. M. (M)
Elias, P. (M)
Engel, J. S. (M)
Fallows, E. M. (A)
Fano, R. M. (F)
Field, M. D. (M)
Fitzgerald, J. J. (SM)
Fock, H. W. (A)
Forsen, G. E. (M)
Fridman, H. D. (A)
Gilman, M. A. (M)
Glassmaker, L. G. (A)
Goad, R. J. (M)
Goldstein, B. S. (M)
Goldstein, M. H., Jr. (M)
Gould, L. A. (M)
Grande, D. I. (A)
Gray, D. A. (M)
Gray, D. J. (A)
Gray, J. C. (M)
Gray, T. S. (SM)
Green, D. (A)
Greenough, H. V., Jr. (M)
Grim, W. M., Jr. (M)
Guillemin, E. A. (F)
Hagan, T. G. (A)
Hamilton, D. H., Jr. (A)
Hanley, L. D. (A)
Haring, D. R. (M)
Harmer, J. D. (A)
Harney, P. J. (M)
Hathaway, G. M. (A)
Hazen, H. L. (SM)
Heart, F. E. (M)
Heller, P. N. (A)
Herah, J. F. (M)
Herskovitz, S. B. (M)
Hickman, R. W. (SM)
Hilliger, R. E. (SM)
Hillman, H. D. (M)
Hirsch, H. R. (M)
Hogan, W. D. (M)
Hom, R. N. G. (M)
Hopkins, A. L., Jr. (M)
Hughes, G. W. (M)
Humphrey, W. M. (M)
Ingrao, H. C. (A)
Irons, F. H. (M)
Iverson, K. E. (A)
Jayne, A. W. (M)
Jedynak, L. (M)
Johansen, D. E. (M)
Johnson, K. R. (A)
Joyce, C. C., Jr. (M)
Kaiser, J. F. (A)
Kasvand, T. (A)
Kay, A. F. (M)
Kaye, M. G. (M)
Keller, C. C. (A)
Kellner, R. (M)
Kerwin, E. M., Jr. (SM)
Kessler, J. A. (SM)
Khambaty, M. B. (M)
King, R. W. P. (F)
Knight, G., Jr. (M)
Kocher, D. G. (M)
Kramer, J. D. R., Jr. (M)
Kurtz, A. D. (M)
Kyhl, R. L. (M)
Ladd, R. E. (M)
Lahanas, C. J. (SM)
Lee, Y. W. (SM)
Leon, B. J. (A)
Leonhard, J. (M)
Lerner, R. M. (SM)
Levy, D. M. (M)
Lewis, P. G. (A)
Lincoln, A. J. (M)
Little, E. P. (A)
Lyman, F., Jr. (M)
Lynch, T. J. (M)
Macalka, M. P. J. (M)
Mack, C. L., Jr. (A)
Mack, R. B. (A)
Maling, G. C., Jr. (A)
Malme, C. I., Jr. (A)
Margolin, B. (M)
Martin, T. E. (A)
Mason, S. J. (SM)
Matz, C. H., (SM)
McCulloch, W. S. (SM)
McGowan, E. A. (A)
Mednick, R. (M)
Medoff, J. L. (A)
Menzel, D. H. (SM)
Metz, P. R. (M)
Michaelis, M. (SM)
Michelini, R. D. (M)
Mimno, H. R. (F)
Minsky, M. L. (M)
Mooers, C. N. (M)
Morgenstern, J. C. (A)
Moritz, C. (M)
Narud, J. A. (M)
Nesline, F. W., Jr. (M)
Nogle, E. V. (M)
Nottingham, W. B. (F)
O'Connor, C. (M)
Oettinger, A. G. (M)
Olsson, E. A. (M)
Parisi, F. E. (M)
Pastan, H. L. (M)
Peterson, R. K. (M)
Pompian, S. D. (M)
Pomponi, S. J. (M)
Popp, F. G. (A)
Pote, A. J. (SM)
Powers, D. A. (M)
Pugh, A. L., III (M)
Quint, A. S. (M)
Ramsey, W. H. (M)
Randell, T. C. (M)
Randolph, R. V. (M)
Raney, W. P. (M)
Reichard, R. W. (M)
Reis, J. H. (M)
Remillard, W. J. (A)
Renhard, J. A. (SM)
Richmond, H. B. (F)
Richmond, R. B. (SM)
Robinson, K. W. (M)
Roehrig, J. R. (SM)
Roellke, D. A. (M)
Ronat, E. E. (M)
Roth, C. H., Jr. (M)
Rubenstein, A. H. (A)
Ruplenas, R. J. (M)
Rupp, A. (M)
Russell, L. (A)
Ruthazer, L. B. (M)
Sarles, F. W., Jr. (M)
Scheidenhelm, R. (M)
Schmitt, H. J. (A)
Schoeffler, J. D. (M)
Schwab, W. C. (M)
Sear, H. (A)
Searcy, J. B. (M)
Semon, W. L. (SM)
Seo, H. (M)
Shapiro, J. M. (M)
Shapiro, R. I. (A)
Sheppard, E. M. (M)
Siebert, W. M. (M)
Silver, R. (M)
Simmons, A. J. (A)
Sklar, S. J. (M)
Slade, H. L. (M)
Sly, W. G. (M)
Smith, M. K. (A)
Smith, M. T. (SM)
Smith, W. C. (M)
Smullin, L. D. (F)
Solomonoff, R. J. (M)
Sparrendahl, G. E. W. (A)
Spencer, R. H. (M)
Sponsler, J. W. (A)
Stevens, K. N. (M)
Stoddart, H. F. (M)
Strandberg, M. W. P. (SM)
Stratton, J. A. (F)
Sussenguth, E. H., Jr. (M)
Susskind, A. K. (M)
Szulewski, E. P. (A)
Tang, A. Y. C. (A)
Terman, F. W. (M)
Thiessen, A. E. (SM)
Thomas, J. (M)
Thurston, W. R. (SM)
Tierney, J. (M)
Trantham, H., Jr. (M)
Troll, J. H. (M)
Tucker, C. E. (SM)
Tucker, J. A. (M)
Turner, A. S. (M)
Van Den Biggelaar, H. (M)
Vander Velde, W. E. (M)
Van Meter, D. (SM)
Verzuh, F. M. (M)
Vilbig, F. (SM)
Wantuch, E. (M)
Ward, J. E. (M)
Wasserman, R. (A)
Watson, P. C. (A)
Webb, H. A. J. (M)
Webster, F. A. (A)
Webster, W. G. (SM)
Westphal, W. B. (M)
Whelan, C. R. (M)
White, S. A. A. (A)
Wiener, F. M. (SM)
Wiesner, J. B. (F)
Wildermuth, J. L., Jr. (M)
Wildes, K. L. (SM)
Willenbrock, F. K. (M)
Winston, A. W. (M)
Wissmann, H. B. (M)
Wollenberg, W. J. (A)
Woodson, H. H. (M)
Worthen, C. E. (SM)
Wright, W. D. (SM)
Yamron, J. (M)
Young, F. M. (SM)
Youngblood, W. A. (M)
Youtz, P. (M)
Zacharias, J. R. (SM)

Canton (BOS-1)
Buckley, E. F. (SM)
Burgoyne, C. L. (M)
Cahill, T. C. (A)
Cuming, W. R. (M)
Dionne, J. H. (M)
Dorian, J. M. (M)
Dunleavey, F. S. (A)
Keller, A. L. (A)
Volk, M. C. (A)
Wissenbach, F. O. (A)

Carlisle (BOS-1)
Davis, J. C. (M)
Gillette, J. S. (A)
Macmillan, R. R. (M)
Parke, N. G., III (M)
Torrey, B. M. (SM)

Chelmsford (BOS-1)
Cart, R. E. (A)
Lin, H. C. (M)
Manahan, G. F. (A)
Manahan, J. F. (M)
Manty, W. A. (SM)
Martin, R. A. (M)
McCormack, T. L. (M)
Palmer, W. F. (A)
Wade, L. E. (SM)
Wallace, N. E. (A)
Weller, C. E. (A)

Chelsea (BOS-1)
Chernyshov, V. N. (M)
Fishman, D. S. (A)
Johnson, H. K. (M)
Rosen, S. (M)
Scudney, B. V. (M)

Cheshire (WMA-1)
Leonard, S. C. (SM)

Chestnut Hill (BOS-1)
Bezuszka, S. J. (M)
Blanchard, R. L. (SM)
Frank, W. I. (A)
Gansler, J. S. (M)
Johnson, A. B. (A)
McFarlan, R. L. (SM)
Richards, P. I. (A)

Chicopee (WMA-1)
Zdeb, S. E. (M)

Chicopee Falls (WMA-1)
Dulchinos, J. (M)
Shaw, M. E. (M)

Clinton (BOS-1)
Surprenant, A. H. (A)

Cochituate (BOS-1)
Bean, O. E. (M)
Billig, L. S. (M)
Donner, J. B. (SM)
Falgen, I. M. (SM)
Higgins, W. F. (M)
Hudson, K. (M)
Humphrey, W. S. (SM)
Johnson, S. L. (A)
Kraanick, B. (M)
Kurth, H. H. (SM)
Locher, J. P., III (M)
Lucas, E. J. (M)
Marcley, W. E. (M)
Sharaf, H. M. (M)
Smith, A. H., Jr. (M)

Cohasset (BOS-1)
Ainslie, H. W., Jr. (M)
Lippitt, K. H. (SM)
Massa, E. A. (SM)
Massa, F. (M)
Palmiter, R. B. (SM)
Rowland, H. J. (SM)

Concord (BOS-1)
Anderson, H. E. (M)
Bergstad, P. A. (SM)
Biernson, G. A. (M)
Blacksmith, P., Jr. (M)
Bonis, W. J. (A)
Burley, R. M. (A)
Buxton, E. T., Jr. (A)
Cayouette, R. L. (A)
Chu, G. Y. (M)
Connelly, M. E. (M)
Craig, J. W., Jr. (M)
Daniels, R. (A)
Davenport, W. B., Jr. (F)
Dickson, A. W. (M)
Donnelly, F. J., Jr. (A)
Edelberg, S. (M)
Ehrenfried, A. D. (SM)
Enticknap, R. G. (SM)
Fischer, R. F. (M)
Fitzmorris, M. J., Jr. (M)
Forrester, J. W. (F)
Fritsch, P. C. (M)
Guethlein, V. J. (A)
Gunn, K. C. C. (M)
Harper, R. (M)
Haywood, W. J. (M)
Heuchling, T. P. (SM)
Hollingsworth, L. M. (SM)
Kilham, L. F., Jr. (SM)
Kline, J. (SM)
Lambert, J. C. (A)
Logemann, H., Jr. (SM)
Long, H. S. (A)
Long, J. B., Jr. (M)
Lush, M. J. (M)
Macdonald, W. S. (M)
Mack, R. A. (M)
Marsh, H. S. (M)
Martin, L. H. (A)
McCouch, G. P. (SM)
Middleton, D. (SM)
Montgomery, D. B. (M)
Newman, P. (SM)
Penfield, H. (M)
Roberts, G. T. (M)
Rotondo, P. A. (M)
Sanderson, A. E. (M)
Schenck, J. (M)
Seamans, J. O. (M)
Sears, N. E., Jr. (M)
Sferrino, V. J. (M)
Slade, M. G. (M)
Stacey, J. M. (M)
Sullivan, D. L. (A)
Temme, D. H. (M)
Tuttle, W. N. (F)
Tyler, V. M., II (M)
Ursch, R. R. (M)
Vance, P. R. (A)
Walen, R. S. (M)
Walworth, W. Y. (M)
Westcott, V. C. (M)
Wingate, S. A. (M)
Zerfas, G. J. (A)

Dalton (WMA-1)
Allen, J. J. (M)

Danvers (BOS-1)
Bevitt, W. D. (M)
Birnie, B. A. (M)
Carter, G. E., Jr. (M)
Carter, G. W. (M)
Dirks, L. H. (M)
Dominick, F. J. (M)
Farmer, J. W. (SM)
Franzen, G. H. D. (A)
Frohock, W. S. (M)
Hecht, B. P. (M)
Hull, J. A. (A)
Kauders, E. (A)
Kern, R. H. (M)
Koen, F. T. (M)
Record, F. A. (M)
Segelstrom, C. V. (A)
Sokolov, D. A. (M)
Spillotis, P. J. (A)
Straney, E. O. (M)
Weinburg, E. F. (A)
Wroblewski, T. (SM)
Yee, T. G. (M)
Zack, A. (A)

Dedham (BOS-1)
Ackles, J. A. (A)
Dantas, C. E. (M)
Hastings, T. M., Jr. (SM)
Macie, S. C. (A)
Nackley, J. F., Jr. (M)
Spadoni, E. R. (A)
Tahan, E. N. (SM)

Dennis (BOS-1)
Zopatti, R. C. (A)

Dorchester (BOS-1)
Austin, C. S. (M)
Berman, J. (M)
Blumenthal, S. P. (A)
Chin, B. M. (A)
Cohen, T. J. (M)
Czechowski, E. W. (M)
Deerfield, A. J. (A)
Ellins, V. (M)
Epstein, M. A. (A)
Fox, R. M. (A)
Goldstein, D. S. (A)
Herzberg, R. F. (M)
Jones, W. C., Jr. (M)
Kalakowsky, C. B. (M)
Kriger, L. V. (M)
Krinsky, M. L. (M)
McLaughlin, P. J. (A)
Meister, M. (A)
Morris, J. P. (A)
Ostis, J. N. (M)
Rawlinson, P. E. (M)
Renner, G. W. (M)
Shear, H. (A)
Silberberg, R. W. (A)
Sims, B. S. (M)
Tessari, V. P. (M)
Turisky, B. (A)
Worobey, E. (M)
Yallen, S. (A)

Dover (BOS-1)
Hermans, M. E. A. (M)
Melancon, L. (A)

Dudley (BOS-1)
Swana, M. R. (A)

East Boston (BOS-1)
Berni, L. W. (M)
Capobianco, A. A. (M)
D'Entremont, A. O., Jr. (M)
Mastromarino, J. A. (A)
Orfano, R. D. (A)
Welling, A. J. (M)

East Brookfield (BOS-1)
Houlihan, R. P. (M)

East Falmouth (BOS-1)
Bierman, C. W. (A)

Easthampton (WMA-1)
Gnacek, W. J. (M)
Mesh, T. J. (SM)

East Longmeadow (WMA-1)
Fugere, D. G. (M)
Landers, T. P. (M)
O'Connell, P. R. (A)

East Lynn (BOS-1)
Gibson, R. E. (A)
Kazules, A. J. (M)

East Natick (BOS-1)
Roberts, D. A. E. (M)

Eastondale (BOS-1)
Ray, K. B. (A)

East Pepperell (BOS-1)
Wagner, P. E. (A)

East Walpole (BOS-1)
Ackerman, S. (M)

East Weymouth (BOS-1)
Fulton, L. G. (A)
Karaian, E. (A)

Egypt (BOS-1)
Frank, L. G. (M)
Salsgiver, J. P. (A)
Versoy, I. R., Jr. (M)

Everett (BOS-1)
Clark, N. M. (M)
Ganitt, E. D. (A)
Murphy, T. F. (A)
Newell, B. C. (A)
Salerno, J. (M)
Solano, J. (M)
Veal, J. E. (M)

Fairhaven (BOS-1)
Robinson, W. M. (SM)

Fall River (BOS-1)
Buchan, R. (A)
Buchanan, J. R. (A)
Buckley, A. E., Jr. (A)
Cardozo, D. J. (A)
Ryan, J. E. (A)

Falmouth (BOS-1)
Johnston, A. T. (M)
Landry, S. G. (M)
Werner, C. T. (M)

Fayville (BOS-1)
Dunnet, W. J. (M)
Pouliot, L. J. (A)

Feeding Hills (WMA-1)
Call, S. S. (A)
Zucco, V. S. (M)

Fitchburg (BOS-1)
Arthur, G. M. (M)
Dallin, E. B. (SM)
Lundberg, R. E. (M)
Manseau, H. L. (M)
Moran, J. M. (SM)
Pandiscio, A. A. (M)
Snyder, D. C. (M)
White, D. A. (A)

Florence (BOS-1)
Rachals, R. (M)

Fort Devens (BOS-1)
Fiorelli, M. C. (M)

Foxboro (BOS-1)
Soderstrom, R. E. (A)
Sturgeon, S. S. (M)
Terrell, G. C. (A)
Wells, C. H. (A)

Framingham (BOS-1)
Abdun-Nabi, Z. (M)
Appleman, M. A. (M)
Archambault, R. E. (M)
Bennett, H. W. (SM)
Bond, E. E. (SM)
Breitbord, J. L. (M)
Brundage, E. J. (M)
Callahan, R. J. (M)
Daly, R. H. (A)
Doyle, J. W. (A)
Earl, R. J. (M)
Elinthorpe, A. W. (A)
Falkowitz, M. (A)
Fangmann, G. (A)
Finnegan, F. J. (SM)
Floridia, M. S. (M)
Forgione, E. A. (A)
Ginsberg, I. (A)
Guy, S. A. (M)
Hoffer, J. M. (A)
Hoogasian, H. (A)
Irish, F. E., Jr. (A)
Jamieson, J. B., Jr. (M)
Kallin, R. L. (A)
Kohnle, A. P., Jr. (M)
Kokidko, A. (A)
Kopeloff, B. G. (A)
Kross, V. (M)
Krulee, R. L. (M)
Lacey, N. F. (A)
Lindberg, J. E. (M)
Long, F. (A)
Mazurkiewicz, H. G. (M)
Mellen, G. L. (SM)
Mercurio, J. F., Jr. (M)
Michelson, M. (M)
Miller, M. M. (M)
Miller, S. J. (M)
O'Gorman, J. B. (SM)
Palughi, J. F., Jr. (A)
Pennington, E. T. (M)
Rahilly, J. P. (M)
Randles, W. C. (M)
Remington, R. C. (M)
Robertson, A. S. (M)
Rosen, L. (SM)
Salzberg, E. (A)
Sawyer, D. S. (A)
Scyocurka, S. (A)
Sonnabend, J. S. (A)
Steudel, F. (M)
Tenenholtz, R. (M)
Timms, A. S. (A)
Traub, A. C. (M)
Ungvary, R. L. (M)
Vartanian, V. (M)
Walbridge, C. E. (M)
Williams, R. (A)
Woodley, G. V. (M)
Yalen, S. (M)
Zwerling, M. (A)

Framingham Center (BOS-1)
Danforth, W. C., Jr. (A)
Driscoll, W. G. (SM)
Gerdes, J. W. (M)
Hadfield, B. M. (SM)
Hammond, C. R. (M)
Huribut, W. A. (A)
Ifland, J. J. (SM)
Keleher, A. E., Jr. (M)
Riel, R. W. (M)
Weisman, J. B. (A)

Franklin (BOS-1)
Johnson, A. F. (M)

Gardner (BOS-1)
Neunherz, R. K. (M)

Georgetown (BOS-1)
Gammie, J. (M)
Leonard, M. V. (A)
Nunan, K. W., Sr. (A)
Petraitis, A. J. (A)

Gloucester (BOS-1)
Hammond, J. H., Jr. (SM)
Ktistes, P. J. (M)
Olson, A. J. (A)
Paschal, H. A. (M)
Poole, J. F. (A)
Purington, E. S. (SM)
Short, J. A., Jr. (A)

Great Barrington (WMA-1)
Allison, R. F. (M)
Hemmes, R. T. (M)

Greenbush (BOS-1)
Brooks, G. W. (M)

Greenwood (BOS-1)
Newcombe, D. A. (M)
Wheeler, D. R. (M)

Groton (BOS-1)
Pineo, V. C. (A)
Woodsum, S. P. (M)
Young, K. A. (SM)

Groveland (BOS-1)
Bradley, H. L. (M)

Hamilton (BOS-1)
Bosse, W. F. (SM)
Hamiln, W. O. (A)
Hammann, R. K. (M)
Nichols, H. F., Jr. (A)
Street, E. L. (A)

Hanover, (BOS-1)
McGrath, J. L. (M)

Harvard (BOS-1)
Burton, G. L. (M)
Coburn, R. W. (A)
Goldstein, S. J., Jr. (M)
Hammett, T. F. (M)
Hynes, R. T. (M)
Osborn, A. (M)
Strang, D. B. (SM)
Whitfield, W. D. (A)

Haverhill (BOS-1)
Atwood, D. J., Jr. (M)
Falkenham, G. A. (A)
Feldman, E. J. (A)
Halloran, T. F. (A)
Krawiec, J. P. (M)
Servetnick, J. (M)

Hawthorne (BOS-1)
Nichols, N. P. (M)

Haydenville (WMA-1)
Curtis, L. F. (SM)

Hingham (BOS-1)
Broster, G. S. (M)
Cary, T. R., Jr. (M)
Hall, I. A. (M)
Hyland, R. C. (A)
Kennedy, D. S. (M)
Murphy, A. L. (M)
Pratt, F. (VA)
Vander Wolk, W. W., Jr. (M)
Wood, J. O. (M)

Hinsdale (WMA-1)
Davis, A. J. (M)

Holbrook (BOS-1)
Coughlin, J. J. (A)
Stone, I. M. (A)
Wisneski, W. F. (M)

Holden (BOS-1)
Andreasen, I. (M)
Wilder, F. H., Jr. (A)
Wise, D. P. (SM)

Holliston (BOS-1)
Gordon, R. R. (M)
Nobles, F. L. (A)
Peters, J. D., Jr. (A)
Sharpe, D. (A)
Thomas, H. J., Jr. (A)
Valpey, R. S., Jr. (A)
Wyckoff, R. L. (M)

Holyoke (WMA-1)
Hampson, F. W. (A)
Kennedy, D. J. (A)
King, F. H. (M)
Marek, L. W. (A)
Marek, M. B. (A)
Paszko, H. A. (A)
Stafford, B. H. (M)
Wernick, H. (A)

Hopedale (BOS-1)
Sample, R. F. (M)
Tinkham, M. E. (A)

Hopkinton (BOS-1)
Fraleigh, R. V. (A)
Moylan, J. D. (M)

Hudson (BOS-1)
Burdick, G. E. (M)
Dobrowolski, E. P. (A)
Pauplis, L. M. (M)

Hyde Park (BOS-1)
Burke, W. T. (M)
Feileman, P. G. (M)
Martin, T. H. (M)
Nucefora, M. A. (M)
Toth, W. E. (A)

Indian Orchard (WMA-1)
Aykanian, A. A. (M)

Ipswich (BOS-1)
Blair, G. R. (M)
Dwork, L. E. (SM)
Foss, D. W. (M)
Gholson, A. H. (M)
Jolly, J. B. (M)
Mavroides, W. G. (M)
McMillan, E. B. (SM)
Moran, J. G. (M)
Plaisted, A. H. (A)
Sweetser, L. R. (M)
White, H. B. (A)

Islington (BOS-1)
Hedlund, D. A. (M)
Root, W. L. (SM)
Saltmarsh, H. J. (A)

Jamaica Plain (BOS-1)
Arenberg, D. L. (M)
Beaudette, C. G. (M)
Castle, K. J. (M)
Cetaruk, W. K. (A)
Moore, G. M., Jr. (M)
Roat, W. F. (M)

Kingston (BOS-1)
Sullivan, D. R. (M)

Lawrence (BOS-1)
Ameen, S. J. (M)
Augeri, J. J. (M)
Barcroft, R. W. (M)
Blanchette, C. F. (M)
Bowen, M. J. (A)
Brindley, W. E. (M)
Buotte, J. R. (A)
Callahan, J. F. (M)
Chakmanian, J. A. (A)
Crane, J. J. (M)
Gilliam, D. (M)
Hanley, J. J. (A)
Hicks, W. J. (M)
Kates, R. (M)
Kugelman, F. (M)
Kyros, W. (A)
Langberg, E. (M)
Lieber, M. (M)
Mandle, P. J. (SM)
Meehan, D. J. (A)
Page, H. M. (A)
Pappas, J. (M)
Perkins, E. H. (SM)
Powers, R. E. (A)
Redpath, D. C. (M)
Rich, G. H. (A)
Talbot, R. R. (A)
Zusman, A. G. (A)

Lee (WMA-1)
Luoma, R. A. (M)

Leicester (BOS-1)
Day, L. R. (M)

Lenox (WMA-1)
Hartwell, R. L. (A)
Minella, M. J., Jr. (A)

Leominster (BOS-1)
Testarmata, N. R. (M)

Lexington (BOS-1)
Abel, W. G. (M)
Aldrich, F. W., Jr. (M)
Arneth, A. P., Jr. (M)
Barker, D. B. (M)
Bean, R. H. (M)
Benkley, F. G. (M)
Berg, R. S. (M)
Best, R. L. (M)
Blake, C. (M)
Bosco, J. (M)
Bougas, A. C. (M)
Bragar, P. (M)
Bramley, F. A. (M)
Brick, D. B. (SM)
Brown, C. J. (M)
Budd, A. E. (M)
Burgess, L. M. (M)
Burwen, R. S. (SM)
Byers, W. F. (M)
Byrne, D. A. (A)
Chute, D. H. (M)
Clark, A. (M)
Clark, D. L. (M)
Clark, W. A., Jr. (A)
Clough, J. F. (A)
Coburn, W. K. (SM)
Cohen, S. H. (A)
Corwin, G. (M)
Crane, J. D., Jr. (A)
Crowther, T. S. (M)
Currier, J. R., Jr. (M)
Czeropski, W. P., Jr. (M)
Daggett, N. L. (M)
Dalrymple, G. F. (A)
Dearborn, F. K. (M)
Demetrick, J. S. (SM)
Demuth, R. L., Jr. (M)
Dentler, C. E. (M)
Dinozzi, A. D. (M)
Domenichini, C. P. (SM)
Dougherty, R. L. (A)
Doyle, W. (SM)
Dumanian, J. A. (M)
Elliott, W. G. (M)
Faflick, C. E. (A)
Fahringer, G. S. (A)
Farley, B. G. (M)
Farr, C. W. (A)
Fowle, E. N. (M)
Fox, D. F., Jr. (M)
Fox, H. M. (M)
Fraser, G. R. (SM)
Frazer, J. F. (M)
Freeman, L. D. (M)
Freimer, M. L. (M)
Gallagher, R. D. (M)
Galvin, A. A. (M)
Gaposchkin, E. M. (M)
Gardner, O. K. (M)
Gee, F. A., Jr. (A)
Gilfix, E. L. (M)
Glick, A. L. (M)
Globe, S. (SM)
Goldberg, S. (M)
Goldberg, S. H. (M)
Goldstein, I. (M)
Goodyear, W. F. (M)
Gordon, C. R. (A)
Gray, H. L., Jr. (M)
Grayzel, A. I. (M)
Guditz, E. A. (M)
Hackenberger, R. B. (A)
Hall, W. M. (SM)
Halpern, J. (M)
Harcher, A. J. (M)
Harrington, J. V. (SM)
Hauser, W. H. (M)
Hazel, F. P., Jr. (M)
Holden, W. E. (M)
Holmes, L. G. (M)
Horowitz, S. (M)
Huffman, D. A. (M)
Hufton, C. D. (A)
Hughes, A. D. (M)
Hurney, P. A., Jr. (M)
Huseland, N. (M)
Hutchins, W. R. (SM)
Hyde, G. M. (M)
Jeffery, L. R. (A)
Jenkinson, J. V. (A)
Jervis, E. W., Jr. (M)
Johnston, R. C. (M)
Jones, N. T. (M)
Kates, W. A. (A)
Kendall, R. (SM)
Keren, D. (A)
Key, E. L. (M)
Kingston, R. H. (M)
Kinnard, K. F. (M)
Knauss, H. C. (SM)
Knubbe, H. (M)
Koffman, H. J. (M)
Kostriza, J. A. (M)
Kramp, K. M. (M)
Kuhn, B. G. (M)
Labitt, M. (M)
Labonte, R. C. (M)
Lambert, J. R. (M)
Lane, J. F., Jr. (M)
Lemnios, W. Z. (M)
Lerner, H. A. (A)
Lewis, R. W. (M)
Lin, C.-S. (M)
Litsios, S. (M)
Maartmann-Moe, R. (M)

MacDonald, D. A. (M)
Mackechnie, H. K. (SM)
Manasse, R. (M)
McCully, G. R. (M)
McLeod, W. W., Jr. (M)
McWhorter, A. L. (M)
Mitchell, J. L. (A)
Moore, R. L. (M)
Mowatt, A. Q. (M)
Mullen, J. P. (A)
Naka, F. R. (SM)
Nelson, A. A. (A)
Neumann, L. (M)
Nilssen, R. H. (A)
Northrop, P. A. (M)
Ogden, W., Jr. (SM)
O'Neil, S. J. (M)
Packard, R. H. (M)
Papian, W. N. (SM)
Parker, A. C. (M)
Parker, H. H. (A)
Parsons, G. C. (M)
Pascalar, H. G. (M)
Paton, C. D. (M)
Pease, R. L. (SM)
Peck, C. B., III (M)
Peterson, H. P. (A)
Pilkington, E. J. (VA)
Plemenos, F. A. (M)
Prescott, R. S. (M)
Pullis, F. D. (A)
Purinton, R. M. (SM)
Rabinowitz, S. J. (A)
Radford, W. H. (F)
Raffel, J. I. (A)
Rediker, R. H. (A)
Reiffen, B. (M)
Reiger, S. H. (SM)
Ring, W. F. (M)
Roberts, W. (M)
Roche, J. F. (M)
Rodgers, F. A. (M)
Rosato, F. J. (SM)
Rullman, R. G. (A)
Santelmann, W. F., Jr. (M)
Scharfman, H. (M)
Schell, A. C. (M)
Schorr-Kon, J. J. (M)
Sclulli, J. E. (M)
Seed, R. G. (M)
Sheldon, E. J., Jr. (A)
Sherman, H. (SM)
Silverman, E. (M)
Skolnik, M. I. (SM)
Sokol, G. M. (SM)
Sookikian, V. (M)
Spearin, F. W., Jr. (M)
Spencer, R. C. (SM)
Sproul, R. W. (M)
Stark, L. (M)
Stockebrand, T. C. (A)
Sussman, J. P. (M)
Terkanian, H. (M)
Tobin, F. H., Jr. (M)
Towle, D. M. (M)
Tritter, A. L. (M)
Uskavitch, C. W. (M)
Valley, G. E., Jr. (SM)
Vanderburgh, A., Jr. (M)
Walter, C. M. (M)
Wathen-Dunn, W. (SM)
Weatherbee, W. H. (M)
Weiss, H. G. (SM)
Weiss, W. R., Jr. (M)
Wells, W. I. (M)
Whitney, D. B. (M)
Williams, J. B. (M)
Williams, S. B. (SM)
Willis, E. M., II (M)
Wilson, P. B., Jr. (A)
Wolf, E. W. (M)
Wolfe, R. (A)
Wong, G. W. (M)
Yakutis, A. J. (A)
Yewell, P. G. (SM)
Zieman, H. E. (M)
Zraket, C. A. (SM)
Zucker, F. J. (A)

Lincoln (BOS-1)
Atchley, D. W., Jr. (M)
Edmonds, D. S., Jr. (M)
Haworth, L. D. (M)
Scott, H. H. (F)
Wang, A. (SM)

Littleton (BOS-1)
Chatfield, N. V. (A)
Chu, L. J. (F)
Gaither, T. B. (M)
Hollis, C. C. (M)
Houghton, R. W. (M)
McElroy, T. R. (M)
Meyers, D. E. (M)
Nixon, N. E. (A)
Paquette, N. A. (A)
Taylor, H. P. (M)
Therrien, H. J. (M)
Williams, D. G. (M)

Littleton Common (BOS-1)
Root, H. G. (M)
Wall, R. B. (M)

Longmeadow (WMA-1)
Bassett, E. D. (M)
Cohen, M. (M)
Dorshimer, R. C. (M)
Gostyn, E. (M)
Lutz, L. E. (M)
Metcalf, W. C. (M)

Lowell (BOS-1)
Aslanian, A. (M)
Carroll, I. (M)
Czurkrasz, Z. P. (A)
Dukakis, S. G. (M)
Hlavacek, A. R. (A)
Karas, N. V. (M)
Kirwin, G. J. (M)
Landry, L. H. (VA)
Marcotte, A. G. (A)
McParland, F. H. (A)
Michaels, A. G. (M)
Mingins, C. R. (SM)
Zygadlo, F. (M)

Lynn (BOS-1)
Ajootian, G. (A)
Andrews, H. J. (A)
Barnes, D. J. (M)
Deradourian, C. (A)
Duffy, J. M. (A)
Durso, J. L. (M)
Eklund, A. M. (M)
Fierston, S. A. (M)
Haggis, J. C. (A)
Morgan, D. R. (M)
Murphy, M. F. (M)
Sampson, E. N. (A)
Whittaker, H. F., Jr. (M)

Lynnfield (BOS-1)
Cronburg, C. I., Jr. (M)
Hosterman, C. W. (M)
Kremheller, W. G. (M)
Leavy, P. M., Jr. (M)
Quayle, G. (M)
Zimmermann, H. J. (SM)

Lynnfield Center (BOS-1)
Benkus, P. D. (M)
Brown, O. C., Jr. (M)
Clapp, C. W. (M)
Nettleton, E. L. (A)
Perkins, K. C. (M)
Schmidt, R. A. (M)
Trenholme, W. M. (M)

Malden (BOS-1)
Amis, C. W. (M)
Cook, C. G. (M)
Cutler, C. I. (M)
Fast, S. (SM)
Fennessy, P. Q. (M)
Fenton, L. F. (SM)
Frusztajer, B. B. (M)
Hardin, C. A. (M)
Kinzinger, W. C. (M)
Linell, A. E. (A)
Lydiard, C. E. (A)
Mugnai, R. G. (A)
Norlund, B. (M)
Oxman, M. H. (M)
Rutledge, P. D. (A)
Saret, J. (M)
Schwarzlander, H. (A)
Shelton, C. H. (M)
Shiels, P. B. (A)
Sloan, E. L., Jr. (M)
Stone, J. H. (M)
Strickholm, G. E. (M)
Tepper, M. (A)
Thompson, R. H. (M)
Tortorella, A. (A)
Williams, E. E. (M)
Zantos, N. G. (A)

Manchester (BOS-1)
Cuikay, R. S. (M)
Falconer, S. (A)
Juhola, C. (SM)
Taft, E. A., Jr. (A)
Wolfe, R. W. (M)

Mansfield (BOS-1)
Sabin, E. A. (M)

Marblehead (BOS-1)
Bach, R. E., Jr. (M)
Chun, H. H. (M)
Copithorne, A. R. (A)
Grant, E. F. (SM)
Hallett, J. L., Jr. (M)
Hubbard, M. M. (SM)
Kilham, R. E. (SM)
Mills, E. D. (M)
Pauloski, S. H. (M)
Roberts, F. B. (SM)
Sayer, W. H., Jr. (SM)
Stromeyer, C. F. (M)
Stuart, R. M. (M)

Marion (BOS-1)
Francis, S. A. (M)
Warriner, R. R. (SM)

Marlboro (BOS-1)
Clark, F. E. (M)
Fay, F. H. (M)
Graham, J. S. (A)
Kelly, T. J. (M)
Macdonald, C. A. (M)
Smith, R. V. (A)

Mattapan (BOS-1)
Arabian, J. H. (M)
Bello, P. A. (A)
Fertig, K. (M)
Hannon, J. J. (A)
Millen, S. G. (A)
Pengeroth, P. P. (A)
Slawsby, N. (M)
Wilkie, L. E. (A)

Mattapoisett (BOS-1)
Collins, J. L. (SM)

Maynard (BOS-1)
Adair, R. P., Jr. (M)
Campbell, B. D. (M)
Chapell, H. F. (M)
Cleary, R. W. (A)
Dworshak, F. G. (M)
Dyett, E. G., Jr. (M)
Ginsburg, G. S. (M)
Harris, S. M. (M)
Hettich, R. E. (M)
Kemp, J. A. (M)
Lund, R. T. (A)
Mong, R. C. (M)
Olsen, K. H. (A)
Pomper, V. H. (SM)
Seay, W. B. (M)
Vernon, S. J. (M)
Walsh, J. J. (A)

Medfield (BOS-1)
De Clue, J. L. (M)
Glauberman, M. H. (M)
Hurd, P. A. (M)
Jacobs, C. E., Jr. (M)
Jewell, R. L., Jr. (M)
Marcille, R. E. (SM)
Meader, P. W. (M)
Peardon, A. P. (M)
Walker, C. E. (A)

Medford (BOS-1)
Anderson, A. F. (A)
Belinski, A. M. (A)
Brady, J. T. (M)
Fiorello, E. A. (M)
Greenberg, I. D. (M)
Hobbs, C. F. (SM)
Honeck, H. C. (A)
Howell, A. H. (SM)
Kosowsky, D. I. (M)
Lofgren, F. W. (M)
Lyon, R. E. (M)
Menzies, R. W. (A)
Morelli, A. (M)
Pennelli, A. P. (M)
Pike, A. L. (M)
Pote, W. J. (A)
Powers, E. J., Jr. (M)
Rago, K. A. (M)
Rollins, J. A. (M)
Rosen, G. (M)
Smith, R. L. (A)
Stevens, W. J. (SM)
Twombly, B. B. (M)

Medway (BOS-1)
Spector, F. L. (M)

Melrose (BOS-1)
Berg, R. (M)
Cayer, R. E. (M)
Giriunas, J. J. (M)
Gradijan, J. R. (M)
Greene, R. D. (M)
Harrington, E. W. (M)
Jenkins, R. J. (A)
Klane, C. H. (M)
Kotowski, J. P. (M)
Lewis, E. W. (A)
Mac Dowell, R. F. (M)
Mackowiak, J. K. (M)
McCoubrey, A. O. (SM)
McGeoch, C. R., Jr. (M)
Meader, R. B. (M)
Mrose, J. E. (M)
Nichols, R. P. (A)
Orenberg, A. (M)
Radnor, R. R. (M)
Rogers, W. S. (A)
Rowell, W. G. (M)
Snell, C. T. (M)
Wong, W. G. (M)
Young, N. H. (A)

Melrose Highlands (BOS-1)
Braden, R. S. (A)

Merrimac (BOS-1)
Brooks, R. S. (M)
Weeman, R. K. (A)

Methuen (BOS-1)
Buck, R. E. (M)
Chontoian, P. (M)
Dinsmore, C. H. (M)
Kennedy, W. F. (M)
Mallison, R. E. (M)
Ryan, J. W., Jr. (A)
Woodburn, E. S., Jr. (A)

Middleton (BOS-1)
Hayden, P. C. (A)

Milford (BOS-1)
Kurlansky, S. (A)

Millis (BOS-1)
Allen, R. S. (M)
Bannister, L. H. (M)
Biagiotti, R. J. (A)
Sanders, E. W. (SM)
Walsh, K. J. (A)

Milton (BOS-1)
Arnold, C. E. (M)
Bradshaw, D. B. (M)
Day, W. J. (M)
Garber, A. M. (M)
Gerber, A. (M)
Haus, H. A. (A)
Jeffries, D. (SM)
Kaupp, D. R. (M)
Metcalfe, I. J. (M)
Mullen, J. A. (SM)
O'Connell, J. J., Jr. (M)
Scheffler, E. C. (M)
Shnitzler, R. K. (M)
Smith, W. A., Jr. (SM)
Spitz, H. S. (A)
Stasey, C. M. (M)
Sternick, S. H. (M)
Whigham, T. J. (M)

Minot (BOS-1)
Chevli, N. A. (A)
Mongeau, R. A. (M)

Nabnasset (BOS-1)
Russell, E. D. (M)

Nahant (BOS-1)
Demrow, R. I. (M)

Natick (BOS-1)
Balekdjian, K. (M)
Bastow, W. R. (M)
Batcheller, A. (SM)
Bennett, R. K. (M)
Benoit, G. F. (M)
Bittel, M. M. (SM)
Blaisdell, A. A. (M)
Bram, J. M. (M)
Carson, C. H. (A)
Child, J. W. (M)
Devane, M. E. (A)
Dicarlo, V. J. (A)
Dixon, R. A. (M)
Driscoll, J. F. (A)
Geier, L. W. (SM)
Greim, R. E. (A)
Harden, C. M. (M)
Heaton, R. G. (M)
Hilliard, I. W. (SM)
Howard, E. P. (M)
Hunt, D. G. (M)
James, F. E. (M)
Kane, G. (M)
Kessel, B. (M)
Kopelman, J. (A)
Korn, S. J. (M)
Levin, M. H. (A)
Lockhart, H. H. (M)
Long, R. G. (M)
Luftman, A. S. (M)
McCullough, J. H. (A)
Meyer, M. A. (M)
Miller, H. A. (M)
Nye, J. H. (M)
O'Keefe, B. S. (SM)
Platt, H. J. (SM)
Porter, A. D. (M)
Powers, D. M. (M)
Prager, M. (M)
Pughe, E. W., Jr. (M)
Repella, N. (SM)
Rosenthal, M. L. (A)
Rubin, R. (M)
Schontzler, J. G. (M)
Topol, S. (A)
Washington, L., Jr. (M)
Weiss, B. J. (M)
Weiss, H. R. (M)
Whitcraft, W. A., Jr. (SM)
White, D. J. (M)
White, M. M. (A)
Zimmer, J. T. (M)

Needham (BOS-1)
Adams, H. E. (A)
Alden, J. M. (A)
Alessi, P. A. (M)
Alpert, E. (M)
Arnesen, R. F. (M)
Baldwin, P. K. (SM)
Bullard, A. H., Jr. (M)
Crocker, D. C. (A)
Cross, H. H. (SM)
De Bettencourt, J. (M)
De Miglio, F. J. (M)
Dench, E. C. (SM)
Dinowitz, E. E. (M)
Eckhardt, D. L. (SM)
Ewen, H. I. (SM)
Feuerstein, E. (M)
Goldberg, O. D. (SM)
Hadge, E. (M)
Handly, E. J. (M)
Henry, J. M. (VA)
Hill, D. G. (M)
Hurd, W. H. (M)
Kadet, J. (SM)
Keane, L. M. (M)
Keay, D. M. (A)
Kinne, C. B. (M)
Lally, V. E. (A)
Landall, L. B. (M)
Lees, J. W., Jr. (A)
Lowe, M. E. (SM)
Mahoney, T. F. (M)
Paananen, R. A. (A)
Rattman, W. J. (M)
Rote, W. A. (SM)
Sargent, H. P., Jr. (A)
Shelton, E. J., Jr. (M)
Smith, H. J. (M)
Spencer, G. R. (M)
Stacy, J. E. (SM)
Tiffany, G. B. (M)
Turner, J. L. (M)
Wolfe, J. A. (M)
Wyke, A. A. (M)

Needham Heights (BOS-1)
Colbourne, R. H. (M)
Crowley, D. J., Jr. (M)
Dean, F. R. (M)
Dolan, F. J. (A)
Fuller, H. W. (M)
Harris, H. C., Jr. (M)
Kalisky, A. (A)
Nolan, W. (A)
Pucel, R. A. (M)
Smith, H. A. (A)
Stanney, W. J. (M)
Works, A. R. (M)

New Bedford (BOS-1)
Bailey, W. M. (SM)
Collins, E. D. (A)
Da Cruz, A. M. (M)
Grad, P. P. (A)
Klemm, G. H. (A)
Milner, J. J. (A)
Picard, H. E. (A)
Pickett, J. H. (M)
Silva, C. C., Jr. (A)
Sobolewski, F. (A)

Newbury (BOS-1)
Christiansen, D. (M)
Wright, M. E., III (M)

Newburyport (BOS-1)
Adams, J. R., Jr. (M)
Fyler, N. F. (M)
Hadley, W. C. (M)
Hodge, T. P. (M)
Lynch, R. E. (A)

Newton (BOS-1)
Aarons, J. (M)
Altman, N. G. (M)
Arnold, W. F. (M)
Balmuth, N. (M)
Beedle, R. H. (A)
Brown, H. B. (A)
Burgarella, J. P. (A)
Carey, W. M., Jr. (M)
Coolidge, C. A., Jr. (A)
Craig, A. G., Jr. (M)
Dean, W. B. (A)
Dibiase, A. F. (M)
Eachus, J. J. (SM)
Golahny, Y. (A)
Good, L. F. (M)
Grossman, M. C. (M)
Gutman, A. S. (A)
Hagman, H. B. (SM)
Hobbs, F. W. (A)
Kraemer, J. H. (M)
Lourie, N. M. (M)
Malone, M. H. (A)
McCormack, R. L. (SM)
Meyrowitz, P. E. (A)
Nugent, W. R. (A)
Pierce, J. N. (M)
Plaisance, S. F. (M)
Rockwood, A. C. (SM)
Rubin, M. D. (M)
Urbanetti, J. J. (A)
Weltl, G. R. (M)
Wexler, H. T. (SM)
Whelden, J. W. (M)
Wilson, R. D. (SM)
Wylen, J. (M)

Newton Center (BOS-1)
Burke, A. W. (M)
Hersh, A. I. (M)
Hill, D. C. (M)
Jacobs, B. S. (M)
Justman, S. (M)
Kellner, R. L. (M)
Krim, N. B. (M)
Linsky, A. B. (M)
Lippincott, S. (M)
Low, W. C. (M)
Mandell, A. (SM)
McLean, A. S. (A)
Mintzer, L. (M)
Riceman, S. (M)
Robinson, S. (A)
Rothstein, J. (SM)
Segal, S. (A)
Smith, M. D. (M)
Stein, S. (SM)
Tafapolsky, B. (M)
Wolfson, J. A. (M)
Woo, W. D. (SM)
Zottu, P. D. (F)

Newton Highlands (BOS-1)
Boehme, R. M. (M)
Cudlitz, S. (M)
Dokken, G. O. (M)
Fallows, R. S. (M)
Friree, F. L. (M)
Gorman, R. K. (M)
Harkless, L. B. (M)
Harper, S. D. (SM)
Holst, W. F. (M)
Jacobson, R. E. (M)
Kahn, W. M. (M)
Leonard, R. R. (M)
Muckenhoupt, F. W. (M)
Osman, M. S. (M)
Ramamoorthy, C. V. (M)
Savell, R. E. (M)
Sheingoli, L. S. (SM)
Singer, T. (M)
Strohmeier, W. (M)
Sutro, L. L. (M)
Ward, W. W. (M)
Wise, N. (M)
Yamins, H. G. (M)

Newton Upper Falls (BOS-1)
Smith, L. C. (SM)

Newtonville (BOS-1)
Baker, T. E., Jr. (M)
Berkeley, E. C. (M)
Blanton, H. E. (SM)
Bloom, M. I. (M)
Gravel, C. L. (M)
Heaviside, M. G. (SM)
Kaufmann, P. (M)
Merrill, B. (M)
Nathan, P. M. (M)
Oazy, A. J. (M)
Phillips, R. E. (M)
Roossin, N. (M)
Smith, D. C. (M)
Woodward, C. A. (A)
Wright, B. D. (M)

North Abington (BOS-1)
Stucke, E. A. (A)

North Adams (WMA-1)
Allison, W. M. (SM)
Brafman, H. E. (M)
Christenson, E. C. (A)
Christopher, A. J., Jr. (A)
Cushman, N. (M)
Devey, G. B. (M)
Dorst, S. (M)
Henry, A. L. (A)
Hooks, A. K. (M)
Lamoureaux, R. A., Jr. (A)
Lazier, W. A. (A)
Lehovec, K. (F)
Mead, E. S. (A)
Mulford, J. E. (M)
Novacek, W. G. (M)
Peterson, R. C. (A)
Purpura, E. (A)
Robinson, P. (M)
Sprague, R. C. (SM)
Stoneham, C. E. (A)
Tlezzi, A. A. (SM)
Tremblay, G. V. (M)
Tyler, R. H. (A)
Zuleeg, R. (M)

Northampton (WMA-1)
Combie, A. A. (A)
King, A. D. (M)

North Andover (BOS-1)
Anderson, R. E. (M)
Banton, W. E. (A)
Berger, U. S. (SM)
Custer, C. J. (M)
Eberhart, E. K. (SM)
Edwards, P. G. (SM)
Frils, R. W. (SM)
Griffiths, H. D. (M)
Hallenbeck, F. J. (SM)
Kerwien, A. E. (SM)
King, F. H. (M)
Mischler, W. D. (M)
Monell, F. B. (SM)

Owens, C. D. (SM)
Penick, D. B. (SM)
Pomeroy, A. F. (SM)
Sagaser, D. D. (M)
Sandamark, P. I. (M)
Smith, R. S. (M)
Somers, L. (M)
Stansel, F. R. (SM)
Taylor, E. R. (M)
Thulin, C. W. (SM)
White, E. F. (A)
Yeutter, C. S. (M)

North Attleboro (BOS-1)
Fownes, R. F. (A)
Scanlon, W. C. (A)

North Beverly (BOS-1)
Briggs, R. S. (M)

North Billerica (BOS-1)
Bosch, F. M. (M)
Sloan, G. H. (M)
Thomas, A. C. (M)

Northboro (BOS-1)
Hardsog, H. N. (SM)

Northbridge (BOS-1)
Landry, N. R. (M)

North Chelmsford (BOS-1)
Hathaway, S. W. (SM)
Rideout, H. A. (M)

North Dartmouth (BOS-1)
Kahn, L. (SM)
Luse, J. D. (M)
Simmons, F. A. (M)

North Easton (BOS-1)
Allen, L. W. (M)
Ames, D. (M)
Anderson, A. L. (M)
Dudley, T. C. (M)
Govein, J. F. (A)

North Hanover (BOS-1)
Howes, B. S. (M)

North Natick (BOS-1)
Getter, C. M. (M)

North Randolph (BOS-1)
Flaherty, F. E., Jr. (M)

North Reading (BOS-1)
Bishop, R. I. (M)
Millen, J. (VA)
Ross, T. C. (A)
Rubin, S. (A)

North Scituate (BOS-1)
Creaser, C. W., Jr. (M)

North Weymouth (BOS-1)
Alter, A. C. (SM)
Copeland, R. C. (M)

North Wilmington (BOS-1)
Buck, D. A. (M)
Elowe, E. N. (M)
Zaino, A. L. (A)

North Woburn (BOS-1)
Goldberg, W. P. (M)

Norton (BOS-1)
Winsor, D. M. (A)

Norwell (BOS-1)
Harris, C. C. (SM)
Hills, W. L. (M)
Maglathlin, R. N. (M)

Norwood (BOS-1)
Arnstein, P. B. (M)
Benson, R. A. (M)
Burns, H. S. (M)
Erb, D. R. (M)
Fitzgerald, T. J., Jr. (M)
Glynn, J. J. (M)
Gronroos, E. (A)
Hennessey, C. W. (A)
Johnson, H. A. (A)
Kleps, E. W. (A)
Larsen, R. L. (M)
Martinson, R. M. (M)
McDonough, J. C. (M)
Monahan, A. M. (M)
Race, H. C. (M)
Stone, I. C. (M)
Tucker, J. E., Jr. (M)
Vuozzo, A. J. (A)
Waddell, R. B. (A)
Winitzer, A. J. (A)

Oxford (BOS-1)
Zieper, H. S. (M)

Palmer (WMA-1)
Calkins, D. F. (M)

Paxton (BOS-1)
Alexander, D. C. (M)
Stannard, G. E. (M)

Peabody (BOS-1)
Alexander, H. C. (M)
Anderson, V. H. (A)
Cherwek, R. A. (M)
Dodge, R. B. (A)
Freedman, I. M. (A)
Gagnon, R. L. (M)
Gates, E. K. (M)
Giuffrida, J. (M)
Grayton, R. F. (M)
Lipnick, J. (A)
Maguire, W. M. (SM)
O'Brient, E. J., Jr. (M)
Senges, W. (M)
Shapiro, I. (A)
Taylor, J. C. (M)
Tully, P. P. (A)

Pepperell (BOS-1)
Wood, R. (SM)

Pinehurst (BOS-1)
Band, H. E. (SM)

Pittsfield (WMA-1)
Abboushi, A. K. (A)
Borgese, A. J. (M)
Boyajian, A. (SM)
Burkart, H. H. (SM)
Canfield, E. B. (M)
Chertok, S. L. (M)
Ciaschini, W. (M)
Corman, D. (M)
Darrison, J. (M)
Egan, W. E. (M)
Forman, A. H., Jr. (SM)
Hardy, E. R. (A)
Hesse, M. H. (M)
Hucko, H. (M)
Landers, J. J. (A)
Mackey, E. F. (M)
Neff, J. W. (M)
Neubert, W. E. (A)
Pack, E. L. (M)
Patch, R. J. (M)
Pierce, J. L. (M)
Podolsky, L. (F)
Ringlee, R. J. (M)
Ruiz, A. L. (SM)
Samuel, R. W. (M)
Shepard, B. R. (SM)
Velkers, G. D. (A)
Wood, L. A. (M)
Wright, J. B. (A)

Plainville (BOS-1)
Negus, L. E. (M)

Quincy (BOS-1)
Brown, R. S. K. (A)
Burak, M. (M)
Burr, G. S. (M)
Dewey, W. P. (A)
Grass, A. M. (M)
Hudson, H. K. (SM)
Jokinen, R. A. (M)
Kramer, R. (M)
Langelier, G. P. (A)
Mastico, R. A. (A)
McLaughlin, W. C. (M)
Obrezza, W. S. (A)
Osgood, R. C. (A)
Scolamiero, D. M. (M)
Tsao, C. H. K. (M)

Randolph (BOS-1)
Heaton, L. B. (A)
Kiabis, R. A. (M)
Mann, A. M. (M)
McMakin, W. B. (M)
Pasciuto, R. D. (A)
Roeber, F. W. (M)
St. Andre, G. O. (A)
Shannon, P. D. (A)
Wolf, S. H. (A)

Reading (BOS-1)
Alter, R. S. (M)
Benson, E. D. (A)
Blottman, J. B., Jr. (M)
Brent, P. (A)
Butcher, S., Jr. (M)
Caywood, R. W. (SM)
Chess, R. B. (SM)
Collins, R. M. (M)
Conary, W. R. (A)
Danehy, R. T. (M)
Dratch, J. E. (A)
Freeman, R. I. (A)
Guy, H. D. (SM)
Hagan, R. A. (M)
Horwinski, E. R. (M)
Leslie, M. B. (M)
Loesch, B. (M)
Martel, C. W. (SM)
Morrison, D. A. (M)
Parsons, R. L. (M)
Robbins, L. W. (A)
Rosenthal, R. E. (A)
Senator, R. S. (A)
Skitzki, P. (M)
Smith, W. R. (M)
Spongberg, R. C. (A)
Taylor, N. H. (SM)
Van de Stadt, W. (M)
Vant, L. M. (SM)
Zitsow, H. P. (M)

Revere (BOS-1)
Abel, F. (M)
Carrabes, M. J. (M)
Creighton, J. E. (A)
Haas, E. W. (A)
Harwood, E. (A)
Romano, L. P. (A)
Siegel, M. (M)
Storm, M. L. (A)
Tranfaglia, T. E. (A)
Vecchia, E. F. (A)
Williams, A. H. (M)

Rockland (BOS-1)
Linney, F. J., Jr. (A)
Thayer, W. D. (M)
Westhaver, R. O. (M)

Rockport (BOS-1)
Betts, M. D. (M)
Wendell, E. N. (F)

Roslindale (BOS-1)
Amante, J. J. (A)
Catalano, A. L. (A)
Di Giorgio, J. A. (M)
Doyle, F. A. (A)
Goodway, J. T. (M)
Hamilton, S. J. (A)
Kerian, R. D. (A)

Rowley (BOS-1)
Potts, T. J., Jr. (SM)

Roxbury (BOS-1)
Ellis, B. E. (M)
Ellsworth, E. A., Jr. (A)
Goldman, H. N. (A)
Magnani, B. J. (A)
Metten, W. H. (M)
Schwartz, F. L. (M)
Swanson, G. W. (A)
Tomasz, J. (A)
Walker, R. M. (SM)

Salem (BOS-1)
Bowman, J. W. (A)
Cannon, J. H. (M)
Coggins, D. I. (M)
Delaney, W. P. (M)
Olbrych, J. E. (A)
Rainville, L. P. (A)
Rotstein, J. (M)
Solodiuk, A. (M)
Wiederhold, P. R. (A)

Saugus (BOS-1)
Bradbury, R. A. (M)
Cunningham, J. E. (M)
Daniel, F. H. (A)
Marie, C. G. (A)
Moulton, W. D. (M)
Williams, A. R. (M)

Saxonville (BOS-1)
Brunelly, J. J., Jr. (A)
Brunton, R. H., III (A)
Crossley, W. P. (M)
Engman, G. E. (M)
Haley, J. T. (A)
Hevesh, A. H. (SM)
Hosmer, B. E. (A)
Kern, D. R. (A)
Levy, M. R. (M)
Mannette, R. T. (M)
Ponte, A. G. (A)
Rocheleau, G. S. (M)
Sebestyen, G. S. (M)
Weygandt, P. A. (M)

Scituate (BOS-1)
Lemmon, W. S. (SM)
Morton, G. E. (A)
Williams, H. G. (SM)

Seekonk (BOS-1)
Bliss, W. W. (A)

Sharon (BOS-1)
Bartlett, E. R. (M)
Bresnick, H. L. (M)
Clements, W. S. (M)
Cushman, R. W. (A)
Gaull, R. M. (M)
Laschever, N. L. (SM)
Lawlor, J. A. (M)
Rochefort, J. S. (M)
Rosenthal, M. H. (A)
Sallen, M. J. (A)
Van Veen, F. T. (M)
Zeuli, E. A. (A)

Sherborn (BOS-1)
Rockwell, C. F. (M)

Shrewsbury (BOS-1)
Harrington, E. W. (A)

Somerset (BOS-1)
Ironfield, R., Jr. (M)
Wardle, W. F. (A)

Somerville (BOS-1)
Bradley, C. L. (M)
Chapman, P. W. (M)
Cross, A. H. (A)
Fegley, K. A. (M)
Fitzgerald, W. D. (M)
Gallagher, E. F. (M)
Johnson, R. A. (SM)
Kolster, C. C. (SM)
Matthewson, A. (M)
Maurer, H. E. (M)
McNamara, W. E. (A)
Pantazelos, P. G. (A)
Richter, G. H. (A)
Rotondi, G. L. D. (M)
Rubino, C. F. (A)
Solomon, A. N. (A)
Vaccaro, P. (M)
White, R. J. (A)
Zullo, W. J. (M)

South Acton (BOS-1)
Janvrin, W. A., Jr. (SM)
MacMullen, A., Jr. (M)
Pfeiffer, H. F. (M)
Powers, R. J. (M)
Ruze, J. (SM)

South Berlin (BOS-1)
Beauregard, W. G. (M)

Southboro (BOS-1)
Borghetti, J. C. (A)
Boyle, D. A. (M)

South Boston (BOS-1)
Karosas, R. (M)
Spelios, J. S., Jr. (A)
Stevens, E. F. (M)
Vitkus, P. L. (M)

South Braintree (BOS-1)
Goodwin, R. C. (M)
Hirtle, A. C. (M)
MacEwan, A., Jr. (M)

Southbridge (BOS-1)
Chace, H. E. (A)
Craig, R. B. (M)
Frey, H. B., Jr. (M)
Johnston, J. E. (A)
Lindsay, G. A. (M)
Tillyer, E. D. (SM)
Wells, J. M. (SM)

South Chatham (BOS-1)
O'Day, A. C. (A)

South Dartmouth (BOS-1)
Davis, S. L. (SM)
Fitzsimmons, T. J. (M)
Golenpaul, C. (A)
Hoover, H. H., Jr. (A)

South Egremont (WMA-1)
Borg, W. N. (M)

South Hamilton (BOS-1)
Boise, E. B. (A)
Peek, S. C. (SM)
Silverman, D. M. (M)
Wolfskill, J. R. (SM)

South Hingham (BOS-1)
Bird, W. S. (A)

South Lawrence (BOS-1)
Rose, E. P. (A)

South Lincoln (BOS-1)
Boehmer, H. W. (SM)
Brown, D. R. (M)
Caswell, J. R. (A)
Drisko, B. B. (M)
Faran, J. J., Jr. (SM)
Fullerton, A. L., Jr. (SM)
Gibbs, N. E. (M)
Gross, T. A. O. (M)
Harris, J. N. (M)
Jorgensen, S. W. (M)
Row, R. V. (A)
Shansky, D. (M)
Stevens, F. R. (M)
Wilson, M. S. (M)

South Natick (BOS-1)
Horan, W. H. (A)

South Sudbury (BOS-1)
Armstrong, D. G. (M)
Blanchard, J. M. (M)
Bobroff, D. L. (M)
Boole, R. A. (A)
Bovill, A. W. (M)
Brown, K. E. (M)
Byington, R. E. (M)
Caldwell, R. J. (SM)
Cohen, H. I. (M)
Duncan, K. W. (M)
Fickett, M. M. (M)
Forbes, G. D. (M)
From, W. H. (M)
Gronemeier, H. J. (A)
Ivesdal, T. A. (M)
Kirkland, R. E. (M)
Mackin, R. N., III (M)
McAleer, H. T. (A)
McCoy, A. M., Jr. (M)
Ostroff, E. D. (M)
Pritchard, W. L. (SM)
Reach, R. W., Jr. (A)
Rich, E. A. (M)
Senseman, R. W. (M)
Warner, G. L. (M)
Waters, R. A. (SM)

Southville (BOS-1)
Chenez, R. D. (M)

South Wellfleet (BOS-1)
Kiel, J. H. (A)

South Weymouth (BOS-1)
Aronson, J. H., Jr. (M)
Cook, W. M. (M)
Hill, H. F. (VA)
McMonagle, D. B. (M)
Stefanowicz, S. S. (A)

Spencer (BOS-1)
Dennis, L. F. (M)

Springfield (WMA-1)
Andrews, W. J. (A)
Bookman, R. E. (SM)
Cameron, J. A. (M)
Cushing, T. F. (VA)
Dewey, C. S. (M)
Dideum, M. A. (A)
Fratar, F. J. (M)
Harvey, D. E. (A)
Hellenday, F. W. (M)
Hettinger, S. (M)
Kitty, F. J. (M)
LaLiberte, E. J. (M)
Lyman, J. R. (A)
Richardson, H. M. (SM)
Salame, G. (M)
Townsend, G. R. (M)
Zinchuk, M. (A)

Stoneham (BOS-1)
Bassett, J. D. (SM)
Boyd, H. R. (SM)
Burke, N. W. (M)
De Agazio, E., Jr. (M)
Gardner, H. A. (SM)
Halchak, J. R. (M)
Herrera, J. C. (M)
Jamgochian, E. (SM)
Lucy, R. F. (M)
Puorro, T. A. (M)
Riska, G. G. (M)
Rojak, F. A. (A)
Sorbye, K. E. (M)
Stone, M. L. (M)
Waters, M. L. (A)
Westbrook, E. P. (M)
Wexler, R. K. (M)
Williams, J. J. (M)

Stoughton (BOS-1)
Dolan, R. P., Jr. (A)
Giuda, H. W. (M)
Lang, K. T. (M)
Litchfield, P. O. (A)
McDonnell, J. Q. (A)
McGarvey, J. P. (A)
Scripture, F. R. (SM)

Stow (BOS-1)
Schwarzkopf, D. B. (M)
Shoemaker, P. B. (A)

Sudbury (BOS-1)
Bell, J. W. (SM)
Bradley, G. G. (M)
Chase, D. G. (M)
Dahlstrom, R. D. (M)
Edwards, L. C. (M)
Emerson, W. P. (A)
Fraim, E. G. (M)
Galindo, V. (M)
Hand, S. E. (SM)
Keith, W. W. (A)
Kirshner, D. R. (SM)
Mazzarese, N. J. (M)
Partridge, G. R. (M)
Petrishen, J. (A)
Plum, L. W. (M)
Sarratt, E. R. (M)
Stromsted, E. A. (M)
Thomas, E. K. (A)
Throckmorton, K. L. (M)
Watson, J. C., Jr. (M)

Swampscott (BOS-1)
Berman, I. (SM)
Ludlam, W. A. (M)
Manna, E. E. (A)
Strongylos, M. L. (A)
Williamson, R. J. (A)

Taunton (BOS-1)
Silvia, E. R. (A)
Snell, C. R., Jr. (A)

Tewksbury (BOS-1)
Cohen, A. (M)
Goldstein, A. L. (M)
Green, L. M. (M)
McCarthy, J. D. (A)
Montague, L. L. (A)
Wholey, L. T. (A)

Topsfield (BOS-1)
Goddard, C. T. (SM)
Harrington, E. C. (M)
Jansen, J. J. (M)
Norton, G. A. (M)
Roche, T. F. (A)
Wimpy, E. K. (SM)

Tyngsboro (BOS-1)
Du Bois, W. E. (A)
Spindell, F. A. (SM)

Waban (BOS-1)
Antman, M. A. (SM)
Berg, A. L. (A)
Berner, A. S. (M)
Ellis, R. H. (M)
Friedman, B. L. (M)
Hall, R. E. (M)
Hunter, W. H. (M)
McDade, H. J. (A)
Mofenson, J. (SM)
Morrison, L. H. (SM)
Salzer, E. (M)
Spencer, P. L. (F)
Ward, A. E. (SM)

Wakefield (BOS-1)
Baker, W. F. (M)
Bianco, J. F. (SM)
Brown, E. O. (M)
Burnett, E. F. (A)
Cicciarella, C. (M)
Clark, N. F. (A)
Eisenacher, P. L. (M)
Gallagher, P. (A)
Howe, S. E. (A)
Jones, R. C., Jr. (M)
Krause, B. F. (M)
Lynch, E. E. (SM)
Navon, D. H. (M)
Peet, A. R. (A)
Rich, E. S. (SM)
Savage, J. E. (M)
Schunk, H. F. (A)
Slusher, W. E. (M)
Somerset, S. J. (M)
Stein, H. (SM)

Walpole (BOS-1)
Antonio, J. (A)
Esthimer, W. F. (M)
Fisher, R. E. (M)
Lord, J. S. (A)
Purdy, W. E. (A)

Waltham (BOS-1)
Ackley, R. M. (A)
Alexander, R. (SM)
Allen, J. L. (M)
Altschuler, S. (M)
Annis, E. W., Jr. (M)
Aoyama, H. T. (A)
Arnum, M. (M)
Aron, N. (SM)
Ashford, F. L. (M)
Baker, A. (M)
Bartlett, R. P. (M)
Bickford, W. J. (M)
Block, A. V. (M)
Brady, J. P., Jr. (A)
Brody, G. H. (A)
Brown, D. F. (M)
Brunton, D. A. (A)
Bunting, J. H. (A)
Casanave, C. L. (M)
Charles, R. E. (SM)
Chernosky, E. J. (M)
Chittenden, K. M. (M)
Colten, B. (SM)
Conway, J. W. (M)
Cooperstein, M. (M)
Coroniti, S. C. (SM)
Crosby, R. E. (M)
Crosthwait, J. L. (M)
Delano, A. B. (M)
Devereux, J. G. (A)
Di Lorenzo, B. A. (M)
Dombrowski, G. E. (M)
Drake, W. W., Jr. (M)
Drury, W. H. (A)
Dukat, F. M. (SM)
Dunbar, E. E. (M)
Dusault, A. J. (M)
Earsy, R. M. (M)
Ehrlich, S. L. (A)
Elkind, J. I. (M)
Engelberger, J. K. (A)
Englund, E. T. (A)
Falor, O. K. (M)
Faulkner, W. H., Jr. (SM)

Forderhase, R. S. (M)
Francis, E. A. (A)
Gerrig, E. (A)
Gibson, S. K. (M)
Gillen, R. M. (A)
Gitelman, E. (M)
Granger, C. E. (M)
Granger, E. A. (M)
Gregory, J. G. (SM)
Gross, H. G. (SM)
Grund, J. B. (SM)
Guiney, R. J. (A)
Hafer, T. W. (M)
Hamant, D. (M)
Hannon, S. (SM)
Hines, P. P. (A)
Hobby, J. L. (A)
Hostbjor, A. (M)
Hovnanian, H. P. (SM)
Hull, D. R. (F)
Huntley, W. F. (M)
Jackson, S. R. (M)
Jones, G. M., Jr. (M)
Jones, R. V., Jr. (A)
Joyal, M. W. (M)
Kehr, J. E. (M)
Keilson, J. (SM)
Knapp, G. P. (SM)
Koskinen, G. K. (M)
Kreindel, B. (A)
La Haise, C. A., Jr. (M)
Lehr, C. G. (SM)
Lester, D. R. (M)
Leverton, W. F. (SM)
Longo, P. (M)
Lyon, E. F. (M)
Mac Gregor, D. F. (A)
Mac Master, G. H. (A)
Manley, H. J. (A)
Mark, R. B. (A)
Melanson, F. J. (M)
Melanson, W. W. (A)
Moore, T. A. (M)
Morey, R. F. (M)
Morley, H. B. (M)
Mueller, B. H. (M)
Mussard, M. E. (A)
O'Brien, D. G. (M)
Osepchuk, J. M. (M)
Parkinson, G. B. (A)
Pearson, A. L. (A)
Peterman, J. H. (A)
Peters, C. J. (A)
Philips, C. M. (M)
Pick, G. G. (M)
Pollack, D. (SM)
Price, B. F. (M)
Price, R. A. (A)
Primpas, L. V. (M)
Princlotta, M. A. (M)
Randall, J. E. (M)
Ratts, B. H. (SM)
Rea, W. W. (SM)
Reed, R. D. (M)
Reifel, H. (M)
Ricciardi, F. (M)
Rittenburg, S. E. (M)
Rodimon, C. C. (M)
Rogers, T. F. (SM)
Sallen, R. P. (M)
Saltzberg, W. (M)
Santa, M. M. (M)
Santangelo, J. (SM)
Saunders, N. B. (SM)
Schrimpf, H. W. (A)
Seamans, R. C., Jr. (SM
Sedik, J. J. (M)
Shaw, G. J. (M)
Sievers, W. E. (M)
Skowron, J. F. (A)
Smith, B. K. (M)
Smith, D. W. (M)
Soltes, A. S. (M)
Stauffer, F. K. (M)
Stifter, F. J. (M)
Stockman, H. (SM)
Stoddard, J. C. (M)
Stoddard, R. D. (M)
Storer, J. E. (SM)
Sybalisty, S. (M)
Tanner, W. E. (M)
Taylor, K. A. (M)
Teich, W. W. (SM)
True, W. A. (SM)
Trusty, D. C. (A)
Tryon, L. E. (M)
Ullman, H. A. (M)
Vacca, R. H. (SM)
Waldman, A. (A)
Webster, A. L. (A)
Welts, J. (A)
Werman, M. S. (M)
Wilkinson, C. W. (M)
Wilson, E. F. (M)
Windsor, R. B. (SM)
Winsor, D. L. (M)
Yoshida, S. (A)
Zettler, W. R. (A)

Watertown (BOS-1)
Altman, J. L. (A)
Aronow, S. (M)
Bagnall, J. J., Jr. (SM)
Belounge, L. W. (A)
Block, D. E. (M)
Bowness, C. (M)
Brooks, P. R., Jr. (M)
Burke, J. J. (M)
Campbell, R. G. (A)
Chacran, J. J. (M)
Champeny, J. C. (M)
Charasz, J. G. (M)
Clements, D. F. (M)
Colby, G. V., Jr. (A)
Cosentino, A. V. (M)
Crosby, R. L. (SM)
Cryer, J. M., Jr. (M)
Czerwonka, H. V. (A)
Decof, D. N. (M)
De Shon, H. C. (M)
Epstein, D. J. (M)
Field, R. F. (F)
Fulton, D. A. (A)
Giallongo, S. J. (A)
Griffin, W. J. (A)
Haas, D. L. (M)
Haase, K. H. (M)
Hampson, E. R. (M)
Holmes, K. O. (SM)
Hood, L. F. (M)
Huang, C. (SM)
Kahaian, C. H. (M)
Kasparian, K. D. (A)
Lambert, T. A. (M)
Lechner, R. J. (A)
Leibman, M. H. (A)
Lenhardt, L. J. (M)
Mallumian, L. (A)
Malter, R. H. (A)
McDougall, J. C. (M)
Micol, R. L. (M)
McGinn, J. F. (M)
Petraitis, J. A. (A)
Pettersen, R. J. (M)
Read, V. H. (A)
Robinson, M. P. (M)
Roche, T. E., Jr. (M)
Salvo, R. A. (M)
Samson, E. W. (SM)
Schless, G. (A)
Schiffman, M. M. (M)
Sewell, C. R. (M)
Sherry, M. E. (M)
Spink, P. G. (A)
Sussman, S. M. (M)
Toman, K. (M)
Wang, S. C. (M)
Whelpton, J. P. (A)
Whittier, R. J. E. (M)
Willim, D. K. (M)
Wong, M. S. (SM)
Wood, R. M. (A)
Woolf, J. (A)

Waverly (BOS-1)
Mekota, J. E., Jr. (M)

Wayland (BOS-1)
Allen, D. C. (A)
Alstad, N. J. (M)
Anderson, F. J. (SM)
Barker, H. J. (M)
Borts, R. B. (SM)
Conard, R. W. (A)
Davis, L., Jr. (SM)
De Bruyn, P. R. (M)
Dutton, R. H. (A)
Gillespie, C. N. (M)
Hodgkinson, W. S. (M)
Hough, H. O. (M)
Humphrey, G. S. (A)
Jenks, F. A. (SM)
Johnson, A. H. (M)
Jordan, C. E. (M)
Kather, E. N. (M)
Leake, B. W. (M)
Letaw, H., Jr. (SM)
Lowery, W. E. (SM)
MacKenzie, A. K. (A)
Mathews, K. C. (M)
Mathis, G. (M)
McNally, I. L. (SM)
Minicucci, R. P. (M)
Naugler, A. W. (M)
Peoph, A. (M)
Phillips, T. L. (M)
Pontecorvo, P. J. (SM)
Prendergast, W. R. (M)
Proctor, H. E., Jr. (A)
Rider, D. V. (M)
Robertson, C. L. (M)
Serotta, N. (M)
Shafer, C. G. (M)
Sharpe, W. P., Jr. (M)
Smith, H. L. (M)
Smulowicz, B. (SM)
Soorsoorian, S. A. (M)
Stewart, R. F. (A)
Stites, F. H. (M)
Tandy, P. C. (M)
White, A. D. (M)
Whiteside, H. (M)
Whitham, G. E. (A)

Webster (BOS-1)
Chapin, R. S. (SM)
Lanman, T. W. (A)

Wellesley (BOS-1)
Baumann, A. (M)
Berger, R. (M)
Brainerd, H. B. (SM)
Bristol, H. B. (M)
Buckbee, J. A. (M)
Camp, W. W. (M)
Charow, W. J. (M)
Frelich, P. D. (A)
French, R. F. (SM)
Gerlach, A. M. (M)
Hart, H. M. (SM)
Hartley, M. S. (SM)
McDowell, L. S. (SM)
McKinley, W. D. (A)
Newton, G. C., Jr. (M)
O'Donnell, A. J., Jr. (SM)
Palmer, P. J. (M)
Pease, W. M. (SM)
Pierce, G. B. (A)
Plouffe, R. H. (A)
Plough, C. T., Jr. (A)
Reed, W. O. (M)
Saad, T. S. (SM)
Thomson, E. C. (M)
Tucker, N. (A)
Weil, T. A. (M)
Weis, J. L. (M)

Wellesley Hills (BOS-1)
Anderson, C. W. (M)
Blasdel, F. G., Jr. (M)
Banks, D. S. (M)
Chaffee, R. E. (SM)
Cron, A. C. (M)
Eager, M. (SM)
Galagan, S. (SM)
Gostenhofer, G. (M)
Gould, R. (M)
Greene, G. G. (SM)
Hatton, W. L. (M)
Hiller, E. R. (M)
Hinckley, G. A. (A)
Kline, F. S. (VA)
Kriz, J. (A)
Maples, T. K. (SM)
Murphy, W. M., Jr. (M)
Nichols, B. E. (M)
O'Donnell, T. F. (SM)
Peyser, P. (A)
Reddan, E. D. (M)
Ricardi, L. J. (M)
Seeley, P. E. (A)
Ulrich, V. K. (SM)
Walsh, J. E. (M)
Weeks, P. T. (F)
Williams, J. B., Jr. (M)

Wenham (BOS-1)
Gysan, R. L. (A)
Heft, E. J. (A)
Schafer, E. W. (SM)

West Acton (BOS-1)
Bowe, J. J. (M)
Broadwell, H. S. (M)
Brusch, D. W. (M)
Campbell, R. T. (M)
Enemark, R. B. (M)
Fordon, W. A. (M)
Guba, R. F. (M)
Hodgdon, H. W. (M)
Janes, C. W. (SM)
Lawton, D. C. (M)
May, J. P. (M)
Panetta, A. R. (M)
Pensyl, J. F. (M)
Perry, J. P. (M)
Petrucci, S. J. (M)
Richter, E. (M)
Roediger, F. E. (SM)
Sims, J. R. (M)
Stewart, A. K. (M)

Westboro (BOS-1)
Quick, J. H. (SM)
Scott, A. C. (M)
Wiggin, W. R. (M)

West Concord (BOS-1)
Ausin, H. A. (M)
Bousquet, A. G. (SM)
Cady, C. A. (SM)
Chitouras, C. G. (A)
Cleveland, A. W. (M)
Dawes, H. H. (M)
Dippolito, P. W. (M)
Eames, A. M., Jr. (M)
Easton, I. G. (SM)
Frank, R. W. (SM)
Gross, E. E., Jr. (SM)
Hall, H. P. (M)
Hatch, R. M., Jr. (M)
Holtje, M. C. (SM)
Johnson, G. O. (M)
Karplus, E. (F)
Leballister, D. C. (A)
Lewis, F. D. (SM)
Littlejohn, H. C. (M)
Lyon, W. W. (A)
McElroy, P. K. (F)
Nelson, R. R. (A)
Paton, J. E. (M)
Pechacek, R. E. (M)
Peterson, A. P. G. (F)
Pilkington, D. W. (M)
Reem, G. M., II (M)
Robinson, M. P., Jr. (M)
Romaine, G. E. (A)
Sebring, P. B. (M)
Sinclair, D. B. (F)
Soderman, R. A. (SM)
Strum, P. D. (SM)
Stuart, R. W. (A)
Wentworth, A. M. (A)
Whitman, J. A. (M)
Woodward, C. A., Jr. (SM)

West Falmouth (BOS-1)
Austin, J. F. (A)

Westfield (WMA-1)
Kotowski, L. E. (A)
Mahar, T. F. (M)

Westford (BOS-1)
Chace, W. G. (M)
Vaughn, J. R., Jr. (A)

West Granville (WMA-1)
Hodsdon, J. S. (M)

West Lynn (BOS-1)
Laurent, J. A., Jr. (M)
White, A. (A)

West Medford (BOS-1)
Lanciani, D. A. (M)
McCarthy, J. F. (M)
Memishian, J. (M)
Stevens, C. A. (SM)

Westminster (BOS-1)
Nesman, E. F. (M)

West Natick (BOS-1)
Sessions, A. E. N. (SM)

West Newbury (BOS-1)
Anderson, W. R. (M)
Fidler, R. R. (M)
Susen, C. P. (A)

West Newton (BOS-1)
Apelbaum, J. H. (A)
Breslow, D. H. (A)
Brown, B. D. (M)
Cooper, G. (M)
D'Argento, F. R. (M)
Dixon, R. K. (M)
Eakman, S. L. (M)
Elkan, J. (M)
Freedman, N. (SM)
Halder, G. W. (M)
Hergenrother, R. C. (F)
Ingber, L. K. (A)
Jones, W. J. (SM)
Kaliszewski, T. (M)
Kaufman, D. L. (M)
Lukianov, R. E. (A)
MacDowell, K. M. (M)
Madeson, A. H. (A)
Manning, C. J. (A)
Myers, H. L. (M)
Owen, J. Q. (M)
Pekin, H. T. (SM)
Plumley, C. (M)
Smith, J. E. (F)
Teixeira, N. A. (M)
Vago, J. P. (M)
Wilcox, R. B. (M)
Woo, W. G. (SM)
Wyckoff, P. H. (M)
Young, P. T. K. (A)

Weston (BOS-1)
Abate, A. (M)
Alcaide, H. D. (A)
Bark, A. (M)
Brown, W. C. (SM)
Burt, W. G., Jr. (M)
Crowley, A. H. (M)
Dairiki, S. (M)
Dewey, O. L. (M)
Eames, R. D. (M)
Erickson, P. W. (SM)
Fellows, G. E. (SM)
Finison, H. J. (M)
Green, P. E., Jr. (SM)
Gross, F. A. (VA)
Havinga, J. C. (A)
Holt, R. B. (SM)
Kahler, R. C. (A)
Kelly, T. J. (M)
McKenney, H. F. (SM)
Mork, R. P. (M)
Searle, C. L. (M)
Stoffel, F. T. (M)
Underhill, B. B. (SM)

Westover AFB (WMA-1)
Wensley, D. C. (M)

West Peabody (BOS-1)
Bovarnick, M. L. (M)
Genett, W. F. (A)
Goldberg, D. (A)
Grant, J., Jr. (A)
Lessin, I. (M)
Rogers, D. C. (M)
Simon, E. (M)
Snow, S. D. (A)
White, C. E. (M)

West Roxbury (BOS-1)
Bonica, J. S. (A)
Downing, J. T. (M)
Duross, C. J. (M)
Fairbanks, C. G. (A)
Fay, S. (M)
Haddad, S. G. (M)
McCarthy, J. G. (M)
Parsons, A. (M)
Sullivan, P. A. (A)
Thomas, J. E. (M)

West Somerville (BOS-1)
Noonan, J. T. (A)
Tringale, S. R. (A)

West Springfield (WMA-1)
Burnett, K. H. (M)
Sheehan, J. J. (A)
Smith, R. D. (M)

Westwood (BOS-1)
Abrahamsen, F. H. (M)
Arlin, M. N. (SM)
Brock, G. W., Jr. (M)
Gere, A. J. (SM)
Hildebrant, B. M. (A)
Lane, C. R. (SM)
Paddock, R. B. (M)
Staples, E. B. (SM)
Talanian, W. B. (A)
Wasley, R. L. (A)
Westborn, A. C., Jr. (SM)
Wilson, R. T. (M)
Wiren, J. (M)

Weymouth (BOS-1)
Hamm, G. M. (SM)
Nord, R. F. (M)

Whitman (BOS-1)
Simmons, E. C. (M)

Wilbraham (WMA-1)
Webber, F. G. (SM)

Williamstown (WMA-1)
Curry, J. R. (M)
Galbraith, J. S. (M)
Hansen, R. C. (A)
Hardy, H. G. (A)
Johansson, E. W. (M)
Lull, R. E. (M)
Ness, O. A. (M)
Newlon, R. M. (M)
Paine, B. B. (M)
Peck, D. B. (M)
Postle, A. H. (M)
Powell, R. F. (M)
Rowland, W. H. (A)
Scarborough, F. S. (A)
Schenker, B. (M)
Schimmel, J., III (M)
Stabler, H. P. (SM)
Wellcome, F. L., Jr. (M)
White, J. A. (M)

Wilmington (BOS-1)
Hartwell, H. G. (M)
Hooper, W. G., Jr. (M)
Merenda, F. S. (M)
Montgomery, J. L. (SM)

Winchester (BOS-1)
Babakian, J. (M)
Beranek, L. L. (F)
Blakely, J. R. (SM)
Blanchard, J. T. (M)
Cade, P. J. (M)
Chandler, G. E. (M)
Channing, W., Jr. (A)
Corderman, C. L. (SM)
De Young, J. A. (SM)
Dietrich, E. J. (M)
Djorup, R. S. (M)
Durage, A. H. (M)
Freedman, J. (SM)
Fritch, D. J. (SM)
Glendon, R. E. (M)
Hanson, P. R. (M)
Heyck, H. D. (M)
Holdam, J. V., Jr. (SM)
Ivers, J. H. (SM)
Jackson, W. E. (A)
Larson, C. O. (SM)
Leach, H. H. (A)
Mainberger, W. A. (SM)
Marino, D. J. (A)
McCusker, J. H. (A)
McVicar, K. E. (M)
Meretsky, P. L. (M)
Metzgar, K. J. (M)
Otto, F. B. (M)
Parkhill, D. F. (M)
Parks, F. B. (SM)
Purrington, R. L. (M)
Rice, D. H. (A)
Robinson, T. B. (M)
Ross, R. M. (M)
Schlener, J. E. (A)
Schroeder, R. K. (A)
Segerstrom, C. A., Jr. (SM)
Slack, C. B. (M)
Smith, W. B. (M)
Thornton, R. D. (M)
Tunnicliffe, W. W. (M)
Unger, D. M. (A)
Watts, C. B., Jr. (M)
Wilcox, J. F. (M)
Wundt, R. M. (SM)

Winthrop (BOS-1)
Altshuler, E. E. (M)
Diaz, L. V. (A)
Esakov, D. A. (M)
McDonald, F. J. (A)
Nardone, L. J. (M)
Newton, D. J. (M)
Peterson, D. G. (M)
Rivera, R. A. (M)
Williamson, J. H. (M)

Woburn (BOS-1)
Acton, D. J. (M)
Bandes, H. (SM)
Bayliss, R. E. (M)
Bettencourt, J. P. (M)
Briana, A. M. (M)
Brown, H. E. (A)
Chrusciel, M. R. (M)
Driscoll, V. (A)
Ferrante, D. (M)
Hassett, F. C. (A)
Jeffrey, R. F. (M)
Katz, L. (SM)
Kolp, J. S. (M)
Mac Donald, K. J. (A)
Mayer, A. (M)
Mead, D. C. (SM)
Merrill, R. B. (M)
Molica, A. J. (A)
Murachver, J. (M)
O'Connor, L. J. (M)
Ray, G. H., Jr. (A)
Sabo, J. D. (M)
Seifert, W. W. (SM)
Shaw, G. B. (SM)
Simon, D. H. (M)
Steen, J. R. (F)
Turgiss, W. W. (M)
Ulm, E. H. (M)
Walters, S. H. (SM)
Wang, S. (M)
Weissenstern, M. (M)
Yeiter, M. R. (A)

Wollaston (BOS-1)
Bixby, W. L. (M)
Despathy, R. G. (M)
Di Loreto, A. A. (A)
Edmonston, A. S. (M)
Kliman, G. B. (M)
McNamara, T. J. (M)

Woods Hole (BOS-1)
Hervey, J. P. (M)

Worcester (BOS-1)
Anderson, R. M. (A)
Bronwell, A. B. (F)
Browning, E. A. (M)
Connolly, J. (M)
Didio, R. E. (A)
Edinburg, M. W. (A)
Engelsted, J. (A)
Eteson, D. C. (M)
Forsberg, C. A. (M)
Hirvi, H. E. (M)
Hoogasian, L. (M)
Howe, D. W., Jr. (M)
Howes, D. E. (M)
Jolda, J. M. (M)
Karazia, R. J. (M)
Kasper, J. P., Jr. (M)
Kirsch, H. (A)
Mancoog, J. C. (M)
Millas, E. (M)
Morgan, T. H. (SM)
Newell, H. H. (SM)
Newman, H. C. (A)
Petit, A. F. (M)
Richardson, G. A. (SM)
Sawyer, D. E. (M)
Shulman, L. (A)
Skogsberg, C. H. (A)
Stoupis, T. (M)
Wadsworth, W. B. (M)
Wolnlewicz, R. S. (A)
Wright, M. W. (M)

MICHIGAN

Ada (W-MI-4)
Cummins, D. L. (M)

Alger (DET-4)
Ernst, C. E. (A)

Allegan (W-MI-4)
Borsi, P. N. (A)
Malila, W. A. (M)

Allen Park (DET-4)
Bailey, K. V. (SM)
Bledsoe, J. A. (A)
Granlund, D. L. (A)
Hogle, R. C. (M)
Jackson, T. R. (A)
Klingler, D. E. (M)
Tosh, W. M. (M)

Alma (W-MI-4)
George, E. E. (M)
Schwartz, H. (A)
Smith, R. P. (A)

Anchorville (DET-4)
Hughes, R. M. (M)

Ann Arbor (DET-4)
Attwood, S. S. (SM)
Bartman, F. L. (M)
Barton, B. F. (M)
Beutler, F. J. (M)
Black, J. R. (M)
Blott, E. J. (M)
Blythe, R. (M)
Boggess, R. L. (M)
Boyd, J. A. (M)
Bozoian, M. (A)
Breikss, I. P. (A)
Browder, J. E. (M)
Brown, J. (SM)
Brown, R. K. (M)
Bublitz, A. T. (A)
Burns, J. A. (A)
Butler, T. W., Jr. (A)
Carlsen, R. A. (A)
Carr, J. W., III (M)
Cath, P. G. (M)
Chaney, L. W. (M)
Cohen, G. S. (M)
Collard, R. S. (M)
Collins, A. B. (M)
Connors, T. L. (M)
Crane, R. B. (SM)
Cutrona, L. J. (SM)
De Hart, W. R. (M)
Dow, W. G. (F)
Dute, J. C. (M)
Early, H. G. (SM)
Earshen, J. J. (M)
Evans, H. L. (A)
Farrell, T., Jr. (A)
Farris, H. W. (M)
Ferris, C. C. (M)
Frese, R. E. (M)
Friedberg, I. S. (M)
Garner, H. L. (M)
Gaskill, R. A. (M)
Gilbert, E. G. (M)
Gilbert, E. O. (M)
Goode, H. H. (SM)
Grant, E. C. (A)
Greenwood, D. T. (M)
Grimes, D. M. (M)
Haddock, F. T. (M)
Hall, G. O. (M)
Hamilton, R. E., Jr. (M)
Hansen, R. J. (M)
Harmon, S. T. (M)
Hazeltine, B. (M)
Henry, E. E. (A)
Hok, G. (F)
Holland, L. N. (SM)
Homic, S. G. (A)
Horvath, W. J. (SM)
Howe, R. M. (M)
Johnston, R. W. (M)
Kaufman, L. (M)
Kazda, L. F. (M)
Kent, C. E. (M)
Klimer, W. L. (M)
Larson, R. W. (A)
Larson, R. W. (M)
Lawrence, W. H. (M)
Le Vezu, C. G. (A)
Liang, D. Y. (M)
Lillie, R. E. A. (M)
Lindsay, W. J. (A)
Loughry, B. W., Jr. (M)
Machol, R. E. (SM)
Macnee, A. B. (SM)
Martin, E. A. (M)
Mason, D. R. (M)
Masten, S. C. (A)
McMillan, S. H. (A)
McNabb, J. W. (A)
McPherson, R. P. (M)
Metzelaar, P. N. (A)
Miller, M. H. (M)
Mollard, W. N. (M)
Mouzon, J. C. (SM)
Moy, L. L. (M)
Nakagawa, N. (A)
Nichols, A. D. (M)
Nunn, W. M., Jr. (SM)
O'Neal, R. D. (SM)
Orr, L. W. (M)
Pantek, H. R. (M)
Peterson, G. E. (SM)
Petrowski, J. P., Jr. (M)
Ploughman, T. L. (M)
Pool, M. H. (A)
Potter, W. H. (A)
Rauch, L. L. (SM)
Raymond, W. W. (M)
Reiher, H. F. (M)
Remley, F. M., Jr. (M)
Ristow, H. E. (M)
Robinson, G. H. (M)
Rock, A. L. (M)
Rollin, R. A., Jr. (M)
Roth, P. F. (M)
Rothschild, D. R. (A)
Rowe, J. E. (M)
Rupke, E. (M)
Sattinger, I. J. (SM)
Schaefer, E. J. (M)
Schulte, H. F., Jr. (A)
Schupp, A. A., Jr. (M)
Scott, N. R. (SM)
Sharpe, C. B. (M)
Siegel, K. M. (SM)
Smith, B. A. (M)
Sondeen, P. (M)
Spencer, N. W. (SM)
Spengos, A. (M)
Steinmann, W. L. (SM)
Stoehr, W. F. (M)
Stone, J. L. (M)
Stout, M. B. (SM)
Strand, J. (M)
Sutton, W. A. (A)
Tarboux, J. G. (SM)
Theofil, D. V. (M)
Tieman, C. R. (SM)
Tieng, K-Y. (M)
Wallace, V. L. (M)
Willett, R. M. (M)

Auburn (DET-4)
Ayers, E. D. (M)
Engelhardt, L. J. (M)

Battle Creek (W-MI-4)
Arrowsmith, R. (M)
Bandel, R. D. (A)
Burton, E. T. (SM)
Dewey, C. E., Jr. (M)
Loggie, T. W. (A)
Saunders, E. R., Jr. (M)
Summerford, D. C. (SM)

Bay City (DET-4)
Bowden, F. J. (M)
Dunlap, G. R. (A)
Malzahn, D. F. (A)
Matko, J. W. (M)
Sackett, W. T., Jr. (M)
Woody, F. (A)

Belleville (DET-4)
Kranz, H. E. (SM)

Benton Harbor (SB-M-5)
Fiebich, E. C. (A)
Martz, A. F., Jr. (M)
Phillips, G. D. (M)

Berkley (DET-4)
Faris, W. R. (M)
Norris, W. J. (M)

Berrien Springs (SB-M-5)
Lashier, H. M. (M)

Birmingham (DET-4)
Allwine, H. S. (A)
Armil, R. W. (A)
Baird, G. A. (M)
Benaglio, R. V. (M)
Burge, F. L. (M)
Chapman, F. W. (SM)
Clayton, G. H. (A)
Craig, A. D. (A)
Fisk, R. H. (M)
Harokopus, W. P. (M)
Hawley, G. H. (M)
Holmes, W. E. (M)
Kuba, R. E. (M)
Leydorf, G. F. (SM)
McDonnell, W. F. (M)
Michaels, C. L. (SM)
Mika, H. S. (SM)
Morgan, H. K. (F)
Olson, D. R. (M)
Ragsdale, W. H. (M)
Richards, D. B. (A)
Roggenbuck, R. A. (SM)
Sanderson, A. G. (M)
Scherba, M. B. (SM)
Somerville, A. (M)
Wendt, F. S. (M)
Whiteside, A. E. (M)

Buchanan (SB-M-5)
Beaverson, W. A. (M)
Burroughs, L. R. (A)
Carter, C. R., Jr. (M)
Freathy, R. E. (A)
Hagey, L. P. (M)
Mosier, H. F. (M)
Pawlowski, R. J. (A)
Shipman, L. E. (M)
Tomcik, D. J. (M)
Wood, J. F. (A)

Byron Center (W-MI-4)
Jager, A. J. (A)

Cannonsburg (W-MI-4)
Hart, W. N. (A)

Charlotte (W-MI-4)
Fox, M. L. (A)
Rypstra, B., Jr. (M)

Clarkston (DET-4)
Bartek, R. J. (M)

Clawson (DET-4)
Dougherty, R. H. (M)
Quin, W. J. (A)

Climax (W-MI-4)
Griffin, R. E. (M)

Coldwater (FT-W-5)
Munn, E. H., Jr. (M)

Dearborn (DET-4)
Anger, L. E. (M)
Boltz, H. A. (SM)
Boyer, W. D. (M)
Caliadine, G. T. (M)
De Camillis, M. (M)
Doyle, W. J. (M)
Emery, R. R. (M)
Ference, M., Jr. (SM)
Giacoletto, L. J. (F)
Higgins, N. S. (A)
Huber, P. (M)
Krug, E. G. (A)
Lien, C. E. (VA)
Liskiewicz, W. T. (M)
McLaren, I. H. (M)
Nuber, S. E. (A)
Olson, R. G. (M)
Popkiewicz, F. (A)
Roberts, G. A. (M)
Saigeon, N. D. (M)
Sather, R. O. (SM)
Sims, R. C. (A)
Stoner, M. J. (A)
Stretanski, P. A. (A)
Toton, E. J. (A)
Urban, L. R. (A)

Detroit (DET-4)
Abend, D. L. (A)
Alimpich, N. (M)
Almas, S. L. (M)
Amber, P. S. (M)
Andrews, G. B. (M)
Asuncion, J. F. (M)
Atems, E. (M)
Bandoian, P. (A)
Banhagel, E. W. (A)
Barich, T. J. (M)
Blett, E. B. (VA)
Brabant, C. E. (A)
Brauning, T. W. (M)
Brede, E. F. (M)
Brosch, H. T. (A)
Brossman, H. A. (A)
Bryant, J. H. (SM)
Buchanan, A. B. (SM)
Butchart, R. D. (A)
Butcher, J. H. (M)
Cannon, R. C. (A)
Capron, R. W. (M)
Carr, A. E. (M)
Chow, H. (M)
Chute, G. M. (SM)
Cindric, G. T. (SM)
Clark, E. H. (A)
Clements, H. R. (A)
Cook, W. N. (A)
Corte, R. L. (A)
Cotton, R. J. (SM)
Cowles, E. D. (A)
Curran, J. H. (A)
Currie, J. H. (M)
Da Roza, F. G. (M)
Davis, C. (M)
Datwyler, W. F. (A)
Denstaedt, E. C. (SM)
De Tar, J. B. (M)
Diem, C. W. (A)
Dixon, J. K. (A)
Donelson, L. E. (A)
Donovan, R. (M)
Drane, H. (A)
Dubois, R. C. (M)
Duda, E. M. (A)
Dunlap, W. C., Jr. (SM)
Edlefsen, N. E. (F)
Egger, R. J. (M)
Erhart, D. L. (M)
Erway, P. B. (M)
Estes, H. H. (A)
Ferguson, D. R. (A)
Fisk, N. C. (SM)
Fontaine, A. P. (SM)
Forgacs, R. L. (M)
Forsythe, E. H. (M)
Franklin, R. M. (M)
Friedenthal, A. (M)
Gardner, D. C. (M)
Garelis, C. (A)
Goldstone, G. H. (A)
Goodman, G. (A)
Griffith, W. A. (A)
Griffith, W. A. (M)
Gundersen, R. E. (A)
Hafstad, L. R. (F)
Hartz, F. M. (M)
Hein, D. W. (M)
Heiser, E. S. (SM)
Hess, H. M. (M)
Hill, F. E. (M)
Hoogesteger, J. R. (M)
Houston, C. D., Jr. (M)
Howard, L. R. (M)
Howe, G. E. (A)
Hubbard, W. B. (A)
Jeska, R. D. (M)
Johnson, J. S. (SM)
Johnson, K. E. (A)
Johnson, S. M. (A)
Johnston, R. J. (M)
Jones, C. W. (A)
Jones, R. E. (M)
Kahle, F. L. (A)
Kaiser, E. E. (A)
Kamm, V. C. (A)
Kato, Z. (A)
Kattoua, I. E. (A)
King, L. E. (VA)
Kivimaki, V. C. (A)
Kocher, C. F. (SM)
Kock, W. E. (F)
Konopka, E. P. (A)
Kossuth, A. K. (M)
Krullkoski, S. J., Jr. (M)
Kubala, A. M. (M)
Kudela, A. F. (A)
Kuzyk, E. (A)
Lawrence, S. C. (M)
Lax, B. (A)
Leese, J. R. (A)
Le Fevre, H. P. (M)
Leggatt, G. E., Jr. (A)
Lenhardt, R. W. (M)
Lesinsky, F. (M)
Licht, G. L. (A)
Lipkin, L. (SM)
Lippmann, S. A. (M)
Lipski, D. B. (M)
Longerich, E. P. (M)
Loughridge, D. H. (SM)
Love, E. J. (SM)
Luzer, H. J. (M)
Macewka, N. (M)
Madgett, W. H. (A)
Malafouris, T. (A)
Mann, D. W. (M)
Mathamel, F. A. (M)
McCartin, L. M. (A)
McDonald, L. R. (M)
McFatridge, J. E. (M)
McGlinn, E. J. (M)
McKelvie, J. L. (M)
Melchior, A. D. (A)
Milek, H. (M)
Miller, K. L. (A)
Miller, R. C. (A)
Millett, L. F. (M)
Mills, R. J. (A)
Miwa, G. Y. (A)
Monroe, R. E. (M)
Monticello, W. A. (A)
Morgan, J. J. (M)
Nagy, J. R. (M)
Nartonis, W. C. (A)
O'Brien, D. J. (M)
Ogletree, W. A. (M)
Osborne, R. L. (VA)
Parker, D. G. (M)
Patton, H. W. (SM)
Payne, D. V. (M)
Payne, G. J. (M)
Pecar, A. J. (A)
Peifer, A. G. (M)
Penhollow, H. A. (VA)
Piper, C. A. (SM)
Poppe, P. A. (M)
Rehwoldt, T. V. (M)
Reiss, N. D. (M)
Renkiewicz, R. (M)
Retko, E. (A)
Reust, R. H. (M)
Rissi, T. L. (A)
Robb, D. E. (SM)
Rockafellow, S. C. (M)
Ross, H. G. (A)
Ross, P. A. (M)
Rosselot, G. A. (M)
Rothfuss, J. C. (A)
Roush, F. H. (M)
Rubin, B. Z. (M)
Runkel, W. E. (M)
Runkle, E. G., Jr. (M)
Ryan, G. E. (VA)
Rykala, T. P. (A)
Rymarz, L. E. (M)
Scanlan, R. J. (VA)
Schlachter, H. J. (A)
Schmalzriedt, T. T. (A)
Scott, D. E. (A)
Scott, D. P. (M)
Sefcik, M. J. (A)
Shockley, L. A. (A)
Sobolak, S. J. (M)
Sterling, S. (M)
Stewart, J. A. (SM)
Stocker, D. V. (M)
Stone, E. W. (A)
Sweet, J. (A)
Tanney, R. B. (M)
Tarpinian, H. D. (A)
Taylor, K. J. (A)
Terry, R. E. (M)
Tevlin, R. J. (M)
Thomas, J. E., Jr. (SM)
Tompos, S. F. (A)
Travis, I. (F)
Turkish, M. C. (M)
Turnquist, D. W. (M)
Van Rennes, A. B. (SM)
Walt, W. H. (M)
Walker, J. R. (A)
Walton, E. D. (M)
Waltz, F. M. (A)
Warnke, U. J. C. (M)
Webb, A. E. (A)
Webber, H. C. (A)
Webster, G. J. (M)
Weidman, J. S. (A)
Weller, E. F., Jr. (SM)
Welsand, J. B. (A)
Williams, R. P. (M)
Williams, W. B. (SM)
Winters, C. S. (A)
Wodtke, W. H. (A)
Wojciak, J. A. (A)
Wolber, W. G. (A)
Wong, A. (M)
Yakas, J. (M)
Yaskoff, R. (M)
Youkstetter, F. (M)
Zacharopoulos, G. (A)
Zettel, D. A. (M)

Drayton Plains (DET-4)
Clark, R. K. (M)
Lima, E. J. T. (M)
Rosbury, F. H. (A)

East Detroit (DET-4)
Affeldt, W. A. (A)
Boyda, M. C. (A)
Stricker, I. J. (A)

East Lansing (DET-4)
Baccus, I. B. (SM)
Blackwell, W. A. (M)
Ebert, I. O. (SM)
Evans, R. J. (M)
Hiedemann, E. A. (SM)
Howard, L. L. (M)
Keeney, M. G. (M)
Koenig, H. E. (SM)
Kreglow, G. L. (M)
Larue, J. J. (M)
McMahon, E. L. (M)
Melehy, M. A. (SM)
Pennington, R. B. (A)
Reed, M. B. (SM)
Reid, R. J. (M)
Ryder, J. D. (F)
Smith, A. E. (M)
Strelzoff, J. A. (SM)
Tokad, Y. (A)
Von Tersch, L. W. (SM)
Weeg, G. P. (M)

Edwardsburg (SB-M-5)
Hecksel, W. (M)

Erie (DET-4)
Bushroe, G. A. (A)

Farmington (DET-4)
Brengle, A. S. (M)
Dubois, D. A. (M)
Niehaus, D. J. (A)
Schafer, R. H. (M)
Thomsen, T. R. (A)

Ferndale (DET-4)
Amman, E. A. (A)
Erickson, E. A. (A)
Ludwig, C. J. (A)
Searle, L. M. (M)
Seleno, A. A. (M)
Wagoner, C. E., Jr. (M)

Flint (DET-4)
Anderson, H. J. (M)
Bridgen, G. A. (M)
Colosi, A. (A)
Common, C. A. (A)
Filkins, L. D. (M)
Grimm, R. A. (A)
Hoop, R. E. (M)
Johnson, H. G. (M)
Johnson, R. (A)
Jones, M. N. (M)
McBride, W. J. (M)
McGillem, C. D. (M)
Nance, D. K. (A)
Parker, W. J. (A)
Welker, C. M. (A)

Flushing (DET-4)
Clark, P. R. (A)
Loshbough, P. A. (A)

Fraser (DET-4)
Cameratta, P. J. (M)
Hoehn, A. M. (M)

Fremont (W-MI-4)
Bouwsma, W. J. (A)

Garden City (DET-4)
Harrigan, P. M. (M)
McGregor, A. D. (M)
Newell, C. J. (M)
Taplin, L. B. (A)
Ward, D. B. (A)

Grand Blanc (DET-4)
Jacobs, M. A. (A)

Grand Junction (W-MI-4)
Krieger, H. C. (M)

Grand Rapids (W-MI-4)
Anderson, T. G. (M)
Barfuss, J. D. (M)
Bateman, G. H. (SM)
Berg, R. C. (A)
Braverman, R. (M)
Brown, C. S. (M)
Calahan, L. F. (M)
Costanzo, P. A. (M)
Davis, R. L. (M)
De Jong, P. G. (M)
Florman, L. W. (M)
Gaydos, G. J. (M)
Giardina, J. F. (A)
Gorton, E. D. (M)
Hekker, T. L. (A)
Kenoyer, H. W. (A)
Lundberg, R. L. (M)
MacPhail, N. C. (A)
Mort, V. A. (A)
Pickel, F. E. (M)
Robison, C. F. (M)
Sanders, J. W. (A)
Schulte, F. E. (M)
Scott, H. R. (M)
Stevens, R. R. (SM)
Van Oort, G. W. (A)
Van Zoest, C. (A)
Voice, C. C. (M)
Waldner, R. G. (M)
Wick, A. E. (A)
Zwiep, T. C. (M)

Grass Lake (DET-4)
James, F. M. (M)

Greenville (W-MI-4)
Marquis, A. (M)

Grosse Pointe (DET-4)
Mac Kenzie, E. P. (A)

Grosse Pointe Farms (DET-4)
Book, E. (A)
Dayton, M. S. (M)
Smale, V. E. (A)

Grosse Pointe Woods (DET-4)
Dacken, L. L. (M)
Delmege, A. H. (M)
Haigh, J. B. (A)
Hamman, P. E. (A)
Jones, T. N. (A)
Sullivan, R. P. (M)

Hamtramck (DET-4)
Kozinski, R. E. (A)
Maslowski, R. S. (M)
Szewczyk, Z. I. (M)

Haslett (DET-4)
Hedges, H. G. (M)

Hastings (W-MI-4)
Branch, R. (VA)

Hazel Park (DET-4)
Kuzara, S. W. (M)
Nutter, H. G. (A)
Onia, J. (A)
Schubring, N. W. (M)
Thomas, T. (A)

Highland Park (DET-4)
Stinson, R. C. (VA)

Hillsdale (DET-4)
Zaiser, J. E. (A)

Holland (W-MI-4)
McKenney, J. G. (A)
Tysse, H. L. (VA)

Holly (DET-4)
Felch, J. L. (M)

Holt (DET-4)
Hemmye, J. H. (A)

Houghton (MIL-5)
Hempton, L. A. (A)
Jones, R. J. (SM)
Lind, M. S. (A)
Manders, A. M. (M)
Oswald, J. A. (A)
Soper, J. A. (M)

Huntington Woods (DET-4)
Conrath, L. R. (SM)
Smith, J. W. (M)
Van Dusen, H. J. (M)
Wilton, V. A. (M)

Inkster (DET-4)
Cheal, J. (M)
Cleveland, A. J. (M)
Le Baron, G. M. (M)
Nilssen, O. K. (M)
Rheaume, R. O. (M)
White, O. (M)
Wood, T. A. (M)

Jackson (DET-4)
Arasim, J., Jr. (A)
Baker, F. J. (A)
Braddock, R. C. (M)
Bush, C. H., Jr. (A)
Devereaux, R. N. (A)
Foy, S. (A)
Gillam, J. R. (A)
Hungerford, R. S. (M)
Klem, R. F. (SM)
Longman, E. R. (M)
Norwood, W. R. (A)
Owen, D. R. (A)
Paprocki, C. R. (M)
Probert, D. C. (M)
Troup, E. O. (M)
Wegman, C. J. (M)
Westrate, M. C. (M)
Zieger, C. H. (M)

Kalamazoo (W-MI-4)
Alway, C. D. (M)
Fetzer, J. E. (SM)
Lee, C. E. (A)
Marburger, W. G. (M)
Woods, O. R. (M)

Lansing (DET-4)
Bennett, C. T. (A)
Brooke, C. E. (A)
Carter, G. E. (M)
Hawkins, J. R. (A)
Hewitt, J. E. (A)
Kruger, V. (A)
Simons, H. C. (A)
Taylor, L. C. (A)
Whitacre, J. W. (A)
Winters, L. C. (A)
Wyble, J. J. (M)

Leslie (DET-4)
Redman, D. A. (M)
Stansfield, S. J. (M)

Lincoln Park (DET-4)
Bradley, R. W. (A)
Tank, H. F. (VA)

Livonia (DET-4)
Barsamian, A. S. (A)
Michaels, P. A. (A)
Stout, C. D. (A)
Thomas, T. R. (M)
Weiss, M. (A)

Ludington (W-MI-4)
Petters, J. F. (A)

Madison Heights (W-MI-4)
Knapp, W. H. (A)

Manistique (MIL-5)
Babladelis, G. (M)

Marne (W-MI-4)
Vanderveen, G., Jr. (A)

Marshall (W-MI-4)
Brownell, G. T. (SM)

Melvindale (DET-4)
Christ, D. R. (A)
Stinson, E. R. (M)
Ziniuk, M. A. (M)

Midland (DET-4)
Adler, S. E. (M)
Bauss, H. H. (A)
Woodland, P. C. (A)

Milford (DET-4)
Jacke, S. E. (A)
Sink, W. C. (A)
Stark, M. K. (M)
Talaski, C. E. (M)

Monroe (DET-4)
Peters, R. V. (M)
Stearns, G. D. (A)

Morenci (W-MI-4)
Cottrell, M. (M)

Mount Clemens (DET-4)
Bolston, L. (A)
Brunais, E. G. (A)
Burrows, R. M., Jr. (M)
Child, R. W. (M)
Christman, C. J. (M)
Henry, R. J. (M)
Hunter, J. S., Jr. (A)
Miller, C. E. (M)
Morrison, D. O. (A)
Pfannkuche, T. E. (M)
Watanabe, A. S. (M)

Muskegon (W-MI-4)
Castenholz, F. E. (M)
De Vries, D. H. (M)
Hammer, R. V. (M)
Mau, J. C. (M)
McElyea, W. W. (M)
Riekels, H. E. (A)
Saums, H. L. (A)
Schecter, C. W., Sr. (A)

Muskegon Heightst (W-MI-4)
Tsaggaris, J. N. (M)

New Boston (DET-4)
Niswonger, B., Jr. (A)

Niles (SB-M-5)
Corey, F. B. (A)
Cusick, D. H. (M)
Hammond, R. J. (M)
Kennedy, R. L. (A)
Miller, J. M., Jr. (SM)
Ramsey, R. C. (M)
Snyder, D. R. (A)
Wesel, G. K. (A)
Wiggins, A. M. (SM)
Wise, D. R. (A)

Oak Park (DET-4)
Antoniou, M. I. (M)
Barcus, R. (M)
Burr, J. A. (M)
Hutchinson, R. W. (M)
Le Barre, S. D. (M)
Nichols, A. C. (M)
Rosen, P. J. (M)
Theodoroff, T. J. (A)
Warnick, A. (M)
Zimmerman, W. A. (M)

Orchard Lake (DET-4)
Gibbs, D. E. (A)

Oscoda (DET-4)
McMurdie, T. E. (A)

Petoskey (W-MI-4)
Horniman, N. L. (M)

Pleasant Ridge (DET-4)
Leland, R. D. (M)

Plymouth (DET-4)
Amick, R. H. (A)
Baumgartner, W. H. (M)
Chapelle, W. E. (A)
Griggs, J. O., Jr. (M)
Smith, E. H. (M)
Town, H. W. (A)

Pontiac (DET-4)
De Haan, R. F. (M)
Fisher, M. R., Jr. (M)
Lawrence, B. T. (A)
McCall, W. A. (M)
Rexroad, R. A. (A)
Sanders, W. J. (A)
Smith, L. G., Jr. (A)
Young, D. B. (M)

Port Huron (DET-4)
Assaf, E. J. (M)

Rapid River (MIL-5)
Scott, K. J. (M)

Ravenna (W-MI-4)
Korson, A. W. (A)

River Rouge (DET-4)
Scrimshire, J. B., Jr. (A)
Shepley, L. (A)

Rives Junction (DET-4)
Monroe, D. G. (M)

Rochester (DET-4)
Albert, A. H. (M)
Allured, R. B. (SM)
Collier, A. F. (A)
Hart, D. E. (M)
Jouppi, A. (A)
Ostrander, L. V., Jr. (M)
Oxford, C. J., Jr. (A)
Pennanen, V. W. (A)
Ranke, E. K. (M)
Robinson, R. C. (M)
Wanttaja, G. E. (A)
Whitehurst, J. D. (A)

Romeo (DET-4)
Smith, A. M. (M)

Roscommon (DET-4)
Klemetti, R. O. (A)

Roseville (DET-4)
Bartell, V. T. (M)
Cumeralto, Q. C. (M)
Meltvedt, H. (M)

Royal Oak (DET-4)
Ansorge, H. W. (M)
Badger, A. H. (A)
Barber, L. E. (M)
Beck, E. R. (A)
Berg, R. E., Jr. (A)
Boyd, D. R. (A)
Brown, L. R. (A)
Chadwick, R. T. (M)
Chiavarini, E. W. (M)
Coates, A. L. (VA)
Edwards, C. M. (SM)
Fahringer, W. H. (A)
Gerrish, C. R. (M)
Grundberg, R. K. (A)
Hanysz, E. A. (M)
Hoge, R. R. (M)
Johnson, A. C. (M)
Johnson, E. C., Jr. (SM)
Larime, L. H. (SM)
Lindberg, E. E. (A)
Mackenzie, W. G. (A)
Montross, R. A. (A)
Neu, J. D. (A)
Reinhold, H. W. (M)
Robinson, D. F. (M)
Rodgers, G. M. (A)
Satullo, A. R. (M)
Schlorff, R. F. (M)
Schooley, M. H. (A)
Solley, S. W. (A)
Troll, W. C. (A)
Tuksal, M. A. (M)
Walker, J. C. (M)
Wilmot, W. R. (M)
Young, A. E. (SM)

Saginaw (DET-4)
Hummer, J. L. (M)
Loucks, J. W. (A)
Wagenseller, G. W. (A)

St. Clair Shores (DET-4)
Adkins, H. T. (M)
Jones, H. E. (M)
Membery, A. H. (A)
Salomone, S. M. (M)
Stevens, J. E. (M)
Szajna, E. F. (A)
Weagel, K. D. (A)
Wooster, A. F. (M)

St. Joseph (SB-M-5)
Moore, D. G. (SM)
Robertson, C. A. (M)
Wennerberg, A. L. (A)
Wilson, D. L. (M)

Saline (DET-4)
Brace, L. H. (A)

Sault Ste. Marie (MIL-5)
Hayworth, R. G. (A)
Klingler, R. R. (A)
McPherson, R. T. (A)

Selfridge AFB (DET-4)
Hirvela, R. J. (M)
Thompson, R. B. (M)

Smiths Creek (DET-4)
Koziara, E. H. (M)

Southfield Township (DET-4)
Machwart, R. J. (A)

South Haven (W-MI-4)
McGlashan, K. W. (M)

Spalding (MIL-5)
Johnson, H. W. (M)

Three Rivers (FT-W-5)
Fife, D. W. (M)
Fife, G. E., Jr. (M)
Perkins, M. L. (VA)

Traverse City (W-MI-4)
Biederman, L. M. (M)

Trenton (DET-4)
Buehler, F. A. (M)
Mills, G. L. (A)
Thornton, C. H. (A)

Utica (DET-4)
Donovan, M. A., Jr. (A)
Green, H. V. (A)
Holiak, A. F. (A)
Swartz, E. E. (A)

Van Dyke (DET-4)
Schreiber, C. L. (M)

Vermontville (W-MI-4)
Moehring, W. D. (M)

Walled Lake (DET-4)
Belprez, G. R. (M)
Hart, A. D. (M)
Littlefield, K. E. (M)

Warren (DET-4)
Blake, J. A. (A)
Burley, H. A. (M)
Craig, J. P. (M)
Fleming, H. A. (M)
Hall, J. R. (M)
Heinrich, B. F. (M)
Lisiecki, M. (A)
Marshall, J. (A)
McKee, J. M. (M)
Zukowski, J. A. (M)

Wayne (DET-4)
Haddad, M. T. (M)
Tackett, R. W. (M)
Wickman, C. R. (M)

Wellston (DET-4)
Thunder, L. C. (M)

Whitmore Lake (DET-4)
Podewils, N. R. (A)

Wyandotte (DET-4)
Blowers, R. C. (A)
Kraft, G. R. (A)
Moore, J. B. (VA)
Wesser, C., Jr. (A)
Wesser, C. H. (SM)

Ypsilanti (DET-4)
Amble, H. A., Jr. (M)
Augustus, L. M. (M)
Birdsall, T. G. (M)
Bilkken, W. A. (M)
Breymaier, R. W. (M)
Doll, R. E. (M)
Douglas, W. J. (M)
Harding, W. G. (M)
Harwood, F. E. (M)
Hoagbin, J. E. (M)
Keyser, R. W. (M)
King, L. G. (A)
Kroll, R. T. (A)
Larrowe, B. T. (A)
Lawson, A. C., Jr. (A)
Lund, T. J. (A)
Maes, R. E., Jr. (M)
Miller, R. E. (M)
Monroe, K. E. (M)
Morita, Y. (M)
Ohlsson, R. L. (M)
Otterman, J. (M)
Sherman, H. W. (M)
Smith, D. F. (A)
Smith, N. (F)
Smith, W. (M)
Stewart, M. J. (A)
Van Valkenburg, E. S. (SM)
Weinert, B. R. (M)
Wheatley, W. A. (M)
Wilbur, E. T. (M)
Wilcox, G. A. (A)
Williams, R. O. (SM)
Yeh, C. (SM)

Zeeland (W-MI-4)
Wolters, D. G. (M)

MINNESOTA

Anoka (TC-5)
Collier, G. X. M. (VA)
Kimberly, H. D. (M)
Longfellow, R. C. (SM)

Austin (TC-5)
Holan, J. L. (A)

Bloomington (TC-5)
Meyer, B. L. (M)

Chanhassen (TC-5)
Peterson, C. E. (A)
Peterson, C. K. (M)

Columbia Heights (TC-5)
Baker, G., Jr. (A)

Coon Rapids (TC-5)
Graves, G. L. (M)

Duluth (TC-5)
Bolger, A. E. (A)
Dettman, R. A. (A)
Erickson, J. H. (A)
Moore, H. I. (M)
Weed, J. R. (A)

Edina (TC-5)
Carlson, K. J. (M)

Ely (TC-5)
Persons, C. B. (SM)

Excelsior (TC-5)
Pree, W. G. (SM)

Faribault (TC-5)
Folsom, D. E. (M)
Van Wychen, R. O. (A)

Fergus Falls (TC-5)
Nesting, J. W. (A)

Forest Lake (TC-5)
Bolenbaugh, J. E. (M)

Glen Lake (TC-5)
Biltz, F. J. (M)

Hastings (TC-5)
Karpen, R. L. (A)

Hopkins (TC-5)
Aske, V. H. (M)
Bearinger, V. W. (A)
Johnson, R. G. (M)
Larsen, F. J. (SM)
Lindemann, W. W. (M)
McWilliams, R. R. (M)
Nussbaum, A. (A)
Palmer, D. R. (M)
Stucky, N. P. (M)
Stuetzer, O. M. (SM)
Trent, J. E. (A)

Isle (TC-5)
Scherf, A. L. (M)

Lake Wilson (TC-5)
Sraders, G. (M)

Mankato (TC-5)
Robertson, A. J. L. (M)

Marshall (TC-5)
Ahmann, R. M. (A)
Priebe, N. F. (M)

Minneapolis (TC-5)
Adams, G. E. (SM)
Alderson, R. C. (M)
Allison, P. K. (M)
Alterman, F. J. (M)
Anderson, E. M. (A)
Anderson, G. P. (M)
Anderson, L. I. (A)
Anderson, L. T. (M)
Anderson, P. M. (M)
Anderson, R. E. (A)
Andrs, W. L. (M)
Arnold, D. E. (M)
Ault, J. C. (A)
Baker, H. E. (M)
Bakken, E. E. (A)
Baldwin, J. M. (SM)
Baller, H. (SM)
Berg, O. H. (M)
Bergan, K. N. (SM)
Blais, P. D. (A)
Bolmgren, L. N. (M)
Bonde, R. L. (M)
Bonrud, L. O. (M)
Borth, J. W. (M)
Branstad, D. H. (M)
Brunker, L. A. (M)
Bulleyment, K. J. (M)
Bukosky, J. R. (A)
Burrell, W. P. (M)
Callen, M. W. (A)
Carlson, C. J. (M)
Casey, T. J. (M)
Christensen, V. E. (A)
Churchill, R. W. (M)
Clark, N., Jr. (M)
Clifford, D. E. (M)
Coffin, W. R. (M)
Cohen, A. (SM)
Cooley, P. (M)
Corbett, J. A. (M)
Cray, S. R. (M)
Croze, M. W. (M)
Cummings, K. C. (M)
Davis, W. W. (M)
Disser, C. J. (M)
Donahue, C. D. (A)
Dorosh, M. (A)
Dubbe, R. F. (A)
Dundovic, J. F. (A)
Eckstein, E. A. (A)
Eglite, J. A. (M)
Eiler, A. H. (M)
Engelman, C. W. (M)
Englund, R. M. (M)
Featherstone, R. P. (M)
Field, B. W. (A)
Fink, J. S. (M)
Flaskerud, K. A. (A)
Fosseen, I. J. (M)
Frohbach, H. F. (M)
Gannett, A. C. (A)
Geffe, P. R. (M)
Geick, G. H. (SM)
Gergen, J. L. (M)
Gise, F. G., Jr. (A)
Gleanes, R. W. (A)
Gottlieb, D. C. (A)
Goyer, R. B. (M)
Grabowski, J. H. (A)
Granberg, M. L. (M)
Grashorn, G. N. (M)
Green, S. S. (M)
Grindheim, E. A. (A)
Grosz, W. S. (M)
Gustafson, H. A. (M)
Hansen, G. F. (A)
Harding, E. W. (M)
Hartig, H. E. (F)
Harvey, P. O. (M)
Haxby, B. V. (A)
Headen, H. V. (M)
Herrlin, J. M. (M)
Herrmann, F. W. (M)
Hill, B. M. (A)
Hill, E. L. (SM)
Hinz, D. I. (SM)
Hirashima, H. K. (M)
Hird, F. S. (M)
Hogie, W. I. (M)
Hutton, W. I. (SM)
Ingvaldsen, R. E. (A)
Inman, T. F. (SM)
Jacobsen, E. L. (M)
James, W. (A)
Johnson, G. H. (M)
Johnson, K. R. (M)
Johnson, R. E. (M)
Johnson, R. R. (A)
Kalb, R. M. (SM)
Kanda, A. F. (M)
Kelar, J. (SM)
Kellough, S. H. (M)
Kennedy, E. J. (M)
Kershaw, J. A. (M)
Ketchum, J. R. (M)
Klene, R. C. (M)
Kinsman, R. B. (M)
Knox, M. E. (M)
Krantz, K. B. (A)
Kubicek, W. G. (M)
Laegreid, N. (A)
Laitinen, W. R. (M)
Lambert, R. F. (A)
Lamm, J. L. (M)
Langlie, L. O. (A)
Lasarsky, S. G. (M)
Lehnert, W. E. (M)
Limberg, A. C. (M)
Lindberg, D. W. (A)
Lisowski, J. R. (M)
Lockwood, R. L. (M)
Lorenz, R. (A)
Ludwig, J. T. (A)
Lundstrom, D. E. (M)
Maass, C. A. J. (A)
Malcolm, D. H. (M)
Maloney, P. G. (M)
Markusen, D. L. (M)
Marshall, J. F. (M)
Martin, A. L., Jr. (A)
Matthys, R. J. (A)
McElroy, W. J. (M)
McGinnis, W. J. (M)
McKinney, J. W. (A)
Mellon, G. E. (A)
Miller, F. V. (M)
Mogen, D. C. (M)
Morrish, A. H. (SM)
Muckenhirn, O. W. (SM)
Museus, H. U. (M)
Nelson, E. J. (M)
Nelson, R. H. (M)
Nelson, W. G. (M)
Newman, M. M. (M)
Nichols, R. F. (M)
Nordstrom, J. E. (A)
Nunn, E. C. (M)
O'Brien, H. G. (A)
Olsen, M. R. (M)
Olson, K. A. (M)
Olson, R. E. (A)
Ormsby, R. D. (A)
Ostberg, E. H. (M)
Ott, J. T. (A)
Pedersen, I. C. (SM)
Pence, C. J. (M)
Persson, E. K. (M)
Pettigrew, J. L. (M)
Phelps, B. (A)
Pidcock, R. E. (M)
Pierce, W. R. (A)
Ponticello, J. A. (M)
Poole, J. A. (A)
Premack, J. (M)
Prince, J. P. (M)
Prom, G. J. (M)
Purnell, T. E. (A)
Quinn, R. D. (M)
Raasch, F. D. (SM)
Randall, R. H. (M)
Rebne, H. K. (M)
Reidel, R. L. (A)
Reinke, J. A. (M)

Reinke, R. F. (M)
Renk, B. J. (M)
Reuyl, J. S. (M)
Rodgers, D. L. (M)
Roeschlein, E. R. (A)
Rohner, T. G. (A)
Runkle, L. D. (M)
Saprasa, A. G. (M)
Saxton, A. W., Jr. (A)
Schiebe, F. R. (M)
Schindler, R. P. (M)
Schmitt, O. H. (F)
Schott, O. A. (M)
Schuck, O. H. (F)
Schulz, D. G. (M)
Schulz, S. W. (M)
Seils, H. A. (M)
Sell, R. L. (M)
Senstad, P. D. (M)
Shabatura, D. P. (M)
Sharp, J. C. (M)
Shepherd, W. G. (F)
Sheppard, H. F., Jr. (M)
Sherman, J. M. (SM)
Shoquist, M. C. (M)
Smersh, C. K., Jr. (A)
Spencer, W. H. (M)
Sprecher, N. D. (M)
Stankosky, J. J. (M)
Stone, N. T. (M)
Storm, J. F. (A)
Suthers, B. H., Jr. (M)
Thompson, V. L. (A)
T'Kach, H. V. (M)
Tobin, R. D., Jr. (M)
Toth, D. H. (M)
Van Der Ziel, A. (F)
Vegemast, R. G. (M)
Volk, H. M. (M)
Warhol, N. (M)
Weber, R. G. (A)
Wehner, G. K. (M)
Werner, W. (A)
Weyrauch, H. E. (M)
Wicks, A. A. (M)
Wilson, W. R. (M)
Wolf, P. I. (A)
Woll, L. J. (M)
Wyllie, C. E. (M)
Yeager, R. L. (M)
Zimmer, E. D. (A)
Zimmerman, S. L. (A)
Zirkle, R. E., Jr. (A)
Zmeskal, A. (SM)
Zobel, E. R. (M)

Moorhead (TC-5)
Sorum, H. D. (A)

New Brighton (TC-5)
Halverson, R. P. (M)
Karsten, J. P. (A)
Lind, A. L. (M)
Palo, A. M. (M)
Pearson, M. R. (M)
Petersen, J. F. (M)
Schwantes, R. C. (M)

Northfield (TC-5)
Jensen, M. C. (M)
Roesing, T. D. (SM)

North St. Paul (TC-5)
Hill, J. L. (M)

Owatonna (TC-5)
Eccles, W. J. (M)

Princeton (TC-5)
Sanford, D. C. (M)

Red Wing (TC-5)
Jelatis, D. G. (M)
Lee, G. M. (M)
Rickett, R. J. (M)

Richfield (TC-5)
Barbour, R. E. (A)
Carlson, R. A. (M)
Doherty, R. P. (M)
Vint, J. L. (A)

Rochester (TC-5)
Anderson, J. A. (M)
Brown, L. M. (M)
Coats, W. H. (A)
Cross, R. W. (A)
Edgington, G. E. (M)
Eng, R. A. (M)
Floyd, R. A., Jr. (M)
Gmeiner, P. (M)
Herrick, J. F. (M)
Isaacson, J. (M)
Jacboesen, H. J. (M)
Jenkins, K. W. (M)
Jones, R. E. (SM)
Luh, J. Y. S. (A)
McCarthy, C. E. (SM)
Morris, J. D. (M)
Sanders, J. J. (A)
Shaw, D. G. (M)

Rosemount (TC-5)
Chiswell, E. (M)
Geronime, R. L. (A)
Vikla, A. M. (A)

St. Louis Park (TC-5)
Miller, C. B. (A)

St. Paul (TC-5)
Alman, J. (M)
Alton, J. M. (A)
Anderson, D. E. (M)
Anderson, E. A., Jr. (M)
Anderson, S. E. (M)
Arndt, R. B. (M)
Baldy, G. A. (M)
Balzart, E. J., Jr. (M)
Barnes, J. C. (SM)
Bartlett, V. W. (A)
Beck, V. W. (A)
Beckler, H. E. (M)
Benassi, D. A. (M)
Bergman, R. J. (M)
Block, E. J. (M)
Bookin, M. L. (M)
Bouschart, K. A. (M)
Brackett, C. R. (M)
Bratschi, R. W. (M)
Bronkala, H. J. (A)
Buchanan, K. J. (A)
Callahan, J. F. (M)
Campbell, R. N. (M)
Casale, C. T., II (M)
Chapin, G. G. (M)
Chen, R. K. (M)
Christgau, M. A. (A)
Christofferson, A., Jr. (M)
Coawette, R. T. (A)
Coli, N. B. (SM)
Compton, C. G. (M)
Coon, R. R. (M)
Deeb, E. P. (M)
De Vir, J. F. (A)
Dubbel, W. C. (A)
Dunwell, R. D. (M)
Dyal, J. O., Jr. (A)
Edam, D. M. (M)
Edhlund, A. J. (A)
Enyeart, T. L. (A)
Erickson, R. S. (M)
Erickson, V. M. (M)
Ess, A. J. (A)
Eulberg, R. J. (SM)
Finegan, E. F., Jr. (M)
Fontenot, J. A. (M)
Foreman, J. J. (M)
Fryer, R. B. (M)
Fullwiler, F. K. (M)
Gehring, R. D. (M)
Gille, W. H. (SM)
Gist, W. W. (M)
Glewwe, C. W. (M)
Glick, A. D. (M)
Hanson, G. N. (M)
Harrington, D. A. (M)
Hass, E. G. (A)
Hawley, C. L., Jr. (M)
Hendry, A. J. (M)
Herzfeld, V. E. (A)
Hildyard, V. G. (A)
Hill, B. F. (M)
Holdaway, D. R. (M)
Hough, W. E. (M)
House, E. A. (M)
Hulstrand, B. E. (A)
Jallen, G. A. (A)
Jennings, R. W. (M)
Jensen, W. (M)
Jestice, A. L. (A)
Johnson, C. A. (M)
Joiner, E. R. (M)
Kahnke, J. (M)
Keating, D. J. (M)
Keefer, D. E. (A)
Keel, B. G. (M)
Kelsey, J. R. (A)
Kerrins, R. K. (A)
Khambata, A. J. (A)
Kidder, H. F. (M)
Kimlinger, J. A. (A)
Kjeer, C. P. (A)
Kleason, D. B. (M)
Knapp, H. L. (M)
Knoblauch, A., Jr. (M)
Knox, W. B. (M)
Koenig, J. D. (M)
Kolling, J. A. (M)
Kovachik, E. (A)
Kucera, F. M. (A)
Kuller, L. (M)
Lahue, P. M. (M)
Lantz, J. D. (A)
Larson, J. A. (A)
Lee, M. E. (M)
Lewis, R. E. (A)
Lillo, C. L. (M)
Lode, T. (A)
Macaulay, M. (A)
Malone, R. J. (M)
Mayo, P. M. (A)
Maze, R. O. (M)
McDonald, R. E. (M)
McInerny, J. W. (A)
McLane, R. C. (A)
McMahon, R. F. (M)
McNaughton, R. J. (M)
Melius, F. G. (M)
Miller, L. B. (A)
Moe, W. L. (M)
Moen, J. W. (A)
Moerke, R. W. (M)
Mullaney, F. C. (SM)
Navoichick, C. (M)
Neese, J. L. (M)
Nellis, W. M. (M)
Oen, J. A. (A)
Oman, R. M. (A)
Orenstein, E. D. (M)
Osofsky, H. (M)
Overas, R. E. (M)
Pallas, C. E. (M)
Paluka, C. F. (SM)
Paup, R. E. (M)
Pearson, R. P. (A)
Peterson, N. C. (M)
Pierce, A. J. (A)
Poveda, H. (A)
Raabe, H. P. (SM)
Robinson, T. O. (M)
Roble, A. R. (M)
Rogers, J. R. (SM)
Root, M. R. (A)
Rowan, T. D., Jr. (M)
Rowland, C. A., Jr. (M)
Sabine, L. E. (M)
Sanders, R. M. (M)
Schellenberg, A. G. (M)
Shekela, H. D. (SM)
Smith, A. J. Jr. (M)
Smythe, G. R. (M)
Somermeyer, H. F. (M)
Stahmann, J. R. (M)
Steele, T. S. (M)
Stevens, W. T., Jr. (M)
Strand, H. D. (M)
Strandberg, K. R. (A)
Swyrd, M. (A)
Szeremeta, P. J. (M)
Thewe, R. F. (M)
Thompson, P. E. (A)
Thurnauer, H. (M)
Tu, J. C. (M)
Tufte, R. C. (A)
Turnquist, R. D. (M)
Vidro, E. F., Jr. (M)
Von Behren, R. A. (M)
Weil, D. S. (A)
Wells, W. S. (M)
Wesman, C. (A)
Wesslund, R. E. (M)
Wiedman, R. E. (M)
Williams, G. I. (M)
Williamson, W. R. (M)
Wilson, D. L. (M)
Winget, W. F. (M)
Wolfe, E. K., Jr. (M)
Wychor, W. (A)
Youngquist, R. J. (M)
Zuercher, D. H. (A)

Savage (TC-5)
Pearsall, P. J. (M)
Retzlaff, E. E. (A)

Waseca (TC-5)
Bruring, W. E. (M)
Hager, F. M., Jr. (SM)
Johnson, E. F. (M)
Kosan, F. J. (A)

Wayzata (TC-5)
Johnson, L. E. (M)
Mooers, H. T. (SM)
Neveaux, R. J. (M)
Thompson, R. H. (M)
Wagner, F. C. (M)
Young, S. B. (VA)

West St. Paul (TC-5)
Haselhorst, D. D. (M)

White Bear Lake (TC-5)
Crampton, W. M. (M)
Edstrom, C. A. (A)
Evans, J. M. (SM)
Pool, K. C. (M)

Winona (TC-5)
Carney, G. (M)
Schmidt, D. G. (A)

MISSISSIPPI

Baldwyn (HUN-M-3)
Williams, T. J. (M)

Biloxi (NO-6)
Blacquier, J. R. (A)
Brewer, L. R. (M)
Davison, R. E. (A)
Dawson, J. E. (M)
Griffin, W. G., Jr. (A)
Gunther, W. J. (A)
Jensen, H. S. (M)
Pixton, J. R. (M)
Shoemaker, W. J. (A)
Van Loon, R. M. (A)
Vaughan, D. G. (A)
Williams, A. C. (A)

Columbus (HUN-3)
Stewart, D. E. (M)

Corinth (HUN-3)
Holman, H. E. (A)
Reeves, D. S. (M)

Ethel (HUN-3)
Krimbrough, W. R. (A)

Greenwood (HUN-3)
Johnson, H., Jr. (M)

Gulfport (NO-6)
Darack, O. C. (A)
Savino, L. J. (A)
Wallis, J. C. (A)

Hattiesburg (NO-6)
McLemore, B. B. (M)
Parish, J. P. (M)
Watson, J. N. (M)

Holly Springs (HUN-M-3)
Lollar, H. C. (M)
Vizzier, B. A. (M)

Indianola (HUN-3)
Blount, J. F. (M)

Jackson (NO-6)
Bates, F. E. (A)
Benson, G. G. (M)
Courtenay, J. A. (SM)
Palmer, D. B. (M)

Kessler AFB (NO-6)
Berger, E. G. (M)
Jackson, L. J. (M)
Polk, I. D. (M)
Porter, E. M. (A)
Wolfe, D. C. (M)

Laurel (NO-6)
McKay, R. A. (M)
Smith, L. G. (M)
Wright, W. W., Jr. (M)

Lucedale (NO-6)
Calhoun, J. D. (M)
Gilbert, W. N. (M)

Natchez (NO-6)
Bowers, D. E. (M)

Pass Christian (NO-6)
Helwick, E. A. (A)

Saltillo (HUN-M-3)
Peach, S. E. (M)

Sledge (HUN-M-3)
Parnell, C. C., Jr. (A)

Starkville (HUN-3)
Godwin, P. F., Jr. (M)
Guyton, R. D. (M)

State College (HUN-3)
Ball, B. J. (M)
Fitzgerald, D. F. (M)
McCowan, H. H. (A)
Murray, M. P. (M)
Simrall, H. C. (SM)
Woods, H. G. (M)

University (HUN-M-3)
Cullen, A. B., Jr. (A)
Herring, R. A., Jr. (M)

Vicksburg (NO-6)
Hanes, F. P. (A)
Jones, J. F. (A)

West Point (HUN-3)
Barton, C. (M)

MISSOURI

Affton (SL-6)
Apel, C. K. (M)
Brickler, J. B. (M)
Fuerst, R. J. (M)
Nurre, H. H., Jr. (M)
Rodenroth, R. D. (M)
Shirling, G. K. (M)
Wulfmeyer, J. A. (M)

Altenburg (SL-6)
Fischer, F. E. (M)

Belton (KC-6)
Bossert, L. H. (M)
Brownfield, A. W. (A)
Hopp, H. W. (M)
Howard, R. M. (A)
Verploegen, A. W. (A)
Weise, S. K. (A)

Berkeley (SL-6)
Anderson, K. M. (A)
Crowe, E. W. (A)
Esker, A. T. (M)

Boonville (KC-6)
Lang, R. H. (A)

Brentwood (SL-6)
Droege, R. F. (A)
Gillerman, L. (M)
Gosselin, B. G. (A)
Hollandsworth, W. J. (SM)
Johnson, A. B. (A)
Jones, C. H. (A)
Kuhlman, E. A. (A)
Longshore, J. F. (M)
Weigle, D. M. (M)
Wiese, A. H. (M)

Cape Girardeau (SL-6)
Brennan, R. D. (M)
Hawkins, D. L. (M)
Hirsch, O. C. (M)
Hirsch, R. O. (M)
Poe, H. E. (A)
Walter, D. R. (M)

Clayton (SL-6)
Fiedler, G. J. (SM)
Gildenberg, D. I. (M)

Clinton (KC-6)
Underwood, S. W. (A)

Columbia (SL-6)
Barman, J. E., Jr. (A)
Benningfield, L. M. (A)
Hogan, J. C. (M)
Lago, G. V. (M)
Lamb, J. F. (M)
Randall, J. E. (M)
Tudor, J. R. (A)
Waidelich, D. L. (F)
Wallis, C. M. (SM)

Crestwood (SL-6)
Boman, W. T., Jr. (M)

Creve Coeur (SL-6)
Frankowski, A. P. (M)
Hemler, C. E. (M)
Lechtreck, L. W. (M)
Miller, R. A. (M)

Deepwater (KC-6)
Shaffner, L. D. (A)

Doniphan (SL-6)
Rice, G. M. (M)

Farmington (SL-6)
Meyer, G. L. (M)
Milster, J. L. (A)

Ferguson (SL-6)
Cave, J. H. (A)
Davis, R. T., Jr. (M)
Henderson, H. W. (M)
Hobbs, E. W. (SM)
Miller, G. L. (M)
Reed, D. L. (M)
Reiser, W. (A)
Rekart, A. F. (VA)
Schewe, R. W. (M)
Sudfeld, C. C. (M)
Wilger, G. P. (A)
Wolf, C. P. (M)

Flordell Hills (SL-6)
Meyer, G. A. (A)

Florissant (SL-6)
Beerman, S. D. (A)
Bell, J. H. (A)
Campbell, L. G. (M)
Cherer, M. J., Jr. (M)
Doll, J. W. (M)
DuCharme, M. D. (M)
Eckess, W. S., Jr. (M)
Estes, B. H. (M)
Fenton, R. J. (A)
Grubbs, W. H. (A)
Hamilton, R. H. (A)
Haselwood, S. (M)
Hoft, W. L. (A)
Houston, W. C. (M)
Jacobsmeyer, H. T. (SM)
Jugend, H. E. (M)
Mackin, R. J. (M)
Menasco, L. C. (A)
Norman, C. F. (M)
Olson, C. B. (A)
Payne, J. E. (M)
Pectol, J. L. (M)
Pyle, H. S. (A)
Rokes, N. W. (A)
Rowton, E. E. (M)
Russell, N. E. (SM)
Schulze, G. H. (M)
Smith, D. E. (M)
Spillman, R. M., Jr. (M)
Vieth, R. V. (M)
Willard, B. A. (A)
Withington, J. G. (M)
Yarian, E. L. (A)

Fort Leonard Wood (KC-6)
Cattafesta, W. M. (M)

Fulton (SL-6)
Nickles, R. W. (M)

Glendale (SL-6)
Hill, R. D., Jr. (SM)
Malsbary, J. S. (M)
Rustemeyer, G. L. (A)

Gower (SL-6)
Wiley, T. A. (M)

Grandview (KC-6)
Fernane, J. (M)
Frogge, W. F. (A)
Gase, C. A. (M)
Hearts, L. C. (M)
Schlesselman, L. A. (A)
Ware, J. F. (M)
White, D. C. (A)

Hickman Mills (KC-6)
Hailey, W. (A)
Long, E. D. (A)
Mason, R. E. (M)
Mayfield, B. D. (A)
McCallen, P. M. (SM)
Parks, J. V. (M)
Scrivener, O. E. (A)
Smith, F. M. (M)
Witte, W. E. (M)

Independence (KC-6)
Beck, R. (A)
Beebe, J. A. (M)
Benedict, K. D. (M)
Borgman, K. W. (A)
Brown, S. F. (A)
Canning, D. C. (A)
Christenson, N. B. (M)
Denman, E. D. (M)
Forristal, J. A. (A)
Hanaway, P. R. (M)
Koontz, F. A. (M)
McCall, E. A. (M)
McDole, M. M. (A)
Riegle, G. W. (A)
Slatten, C. E. (A)

Jennings (SL-6)
Litton, V. M. (A)
Lortscher, K. L. (M)
Soehngen, D. W. (A)

Kansas City (KC-6)
Anderson, R. W. (M)
Ashley, W. H., Jr. (M)
Bahm, D. H. (M)
Benzon, C. G. (M)
Bergren, A. L. (SM)
Berry, F. M. (M)
Bettis, M. E. (A)
Bishop, G. W. (M)
Bossert, A. J., Jr. (M)
Boutros, O. L. (M)
Boyles, J. O. (M)
Brink, D. K. (M)
Brumley, A. R. (M)
Burnham, R. E. (A)
Butler, R. W. (SM)
Camden, K. E. (A)
Catalano, S. J. (M)
Chinn, F. T. (M)
Clarke, E. L. (A)
Clarke, R. L. (M)
Clawson, L. F., Jr. (A)
Cleary, D. R. (M)
Cohn, R. M. (M)
Constant, P. C., Jr. (SM)
Davis, S. E. (A)
Devine, W. F. (SM)
Dillon, R. B. (M)
Donovan, R. W. (M)
Easterday, M. R. (M)
Elder, C. B. (A)
Ellis, T. H. (A)
Epstein, S. (A)
Few, F. A. (M)
Finlay, R. S. (A)
Fitzgerald, J. A. (M)
Foster, C. L. (SM)
Fouts, A. L. (M)
Fry, L. D. (A)
Fry, W. E. (A)
Garrett, W. A. (A)
Glass, A. H. (M)
Gloystein, E. E. (M)
Goldenberg, H. E. (M)
Gordon, J. M. (M)
Grogger, G. M. (A)
Hall, W. H. (M)
Harris, J. B. (M)
Hathborn, W. R. (A)
Hearson, L. T. (A)
Heffelfinger, J. B. (SM)
Heisey, W. H. (A)
Heyde, H. C. (M)
Hoefer, J. J. (M)
Jensen, L. J. (A)
Johnson, L. R. (M)
Jones, F. S. (M)
Kabrick, A. J. (M)

Karns, K. B. (M)
Kay, J. R. (A)
Kay, J. P. (A)
Keith, J. M. (A)
Kidd, C. D. (A)
Kimball, C. N. (F)
Kolen, N. (A)
Kring, C. I. (M)
Lane, J. W. (A)
Lanier, W. T. (A)
Lewis, W. R. (SM)
Lutes, R. K. (M)
Lutz, J. W. (SM)
Mackie, S. P. (A)
Marks, W. A. (A)
Martin, E. J., Jr. (SM)
Martinez, J. (A)
May, R. C. (A)
McAllister, M. J. (A)
McDowell, J. B. (A)
McKnight, H. P. (A)
Meador, B. M. (SM)
Merritt, J. R. (M)
Middleton, E. R. (A)
Miller, C. V. (M)
Minnick, O. H. (M)
Mitchell, C. W. (A)
Modcrin, M. R. (A)
Moore, H. H. (M)
Musburger, R. B. (A)
Nail, P. L. (M)
Neidenberger, T. A. (A)
Newnham, N. G. (A)
Newton, K. V. (SM)
Pascuzzi, C. A. (A)
Pierce, C. H. (M)
Powell, K. W. (A)
Rainey, J. P. (M)
Redlingshafer, R. A. (A)
Rhodes, M. H. (M)
Rowlands, E. R. (M)
Rubali, I. H. (SM)
Ruby, D. P. (M)
Salzer, C. E. (VA)
Schell, R. H. (A)
Schmitendorf, J. A. (M)
Schwerin, E. B. (SM)
Scribner, N. (M)
Shapiro, E. (A)
Shontz, L. A., Jr. (SM)
Slusher, R. W. (A)
Smeltzer, V. J. (M)
Smith, C. B. (A)
Soldanels, R. M. (A)
Solomon, K. E. (A)
Somers, R. M. (SM)
Spies, F. A. (A)
Starlin, H. E. (A)
Sterner, W. J. (A)
Stone, J. B. (A)
Stout, H. L. (SM)
Swafford, J. H. (A)
Taylor, G. L. (SM)
Tomcak, J. F. (A)
Troeglen, K. (SM)
Uhrig, R. B. (M)
Van Gundy, C. G. (VA)
Van Horn, J. H. (SM)
Vasen, G. (A)
Verhyden, L. C. (A)
Vilander, N. E. (M)
Watson, J. F. (M)
Welborn, D. L. (A)
Werner, W. T. (M)
White, J. D., Sr. (A)
White, R. N. (SM)
Wielenga, W. G. (M)
Wilcox, J. V. (SM)
Willinger, K. G. (A)
Wolfskill, R. F. (SM)
Young, C. D., Jr. (M)

Kirksville (SL-6)
Porter, B. L. (A)

Kirkwood (SL-6)
Barnes, J. A. (M)
Binzel, M. S. (M)
Dubuque, T. J. (M)
Hermon, R. (M)
Laws, C. R. (A)
McAllister, J. C. (M)
Phillips, J. B. (A)
Risk, J. E. (M)
St. Vrain, W. E. (M)
Susek, J. F., Jr. (A)
Verbarg, L. E. (SM)
Watson, G. A. (M)
Winter, D. F. (F)
Yount, T. L. (SM)

La Due (KC-6)
Zak, S. J. (SM)

Lathrop (KC-6)
Austin, J. E. (M)

Lee's Summit (KC-6)
King, E. J., Jr. (SM)

Liberty (KC-6)
Hilton, W. A. (M)
Lovan, J. E. (M)

Macon (SL-6)
Rogers, H. D. (A)

Manchester (SL-6)
Kell, E. W. (A)

Maplewood (SL-6)
Earley, J. M. (M)
Fricke, L. H., Jr. (A)

Maryville (KC-6)
Thompson, P. H. (A)

Moberly (SL-6)
Stroup, R. E. (A)

Neosho (KC-6)
Bolinger, N. C. (A)

Normandy (SL-6)
Murty, E. H. (M)
Stephens, E. T. (A)
Volk, J. A. (SM)

North Kansas City (KC-6)
Bishop, W. T., Jr. (SM)
Crissman, L. R. (M)
Wackly, J. J., Jr. (A)

Northwoods (SL-6)
Bossert, J. A. (A)

Olivette (SL-6)
Schwarz, R. M. (SM)
Trugman, J. (M)

Overland (SL-6)
Dean, J. W. (M)
Iwan, R. D. (M)
Lienhard, O. W. (A)
Mosley, C. E. (SM)
Nordling, W. K., Jr. (M)
Schrimp, E. E. (A)

Parkville (KC-6)
Clark, W. B. (M)

Pattonville (SL-6)
Liuzza, V. (A)

Perry (SL-6)
Davis, C. L. (SM)

Perryville (SL-6)
Schrumph, D. A. (M)
Short, L. E. (A)

Platte City (KC-6)
Hanson, D. K. (A)

Raytown (KC-6)
O'Neal, W. O. (M)
Repper, O. C. (A)

Richmond (KC-6)
Basham, R. (M)

Richmond Heights (SL-6)
Cummings, G. M. (SM)
Harris, R. L., Jr. (M)
Luedde, W. J. (A)
Lynch, F. R. (M)

Robertson (SL-6)
Hall, R. S. (M)
Kline, R. M. (M)

Rock Hill (SL-6)
Frazier, R. L. (M)
Pallozola, M. F. (A)
Wilson, L. V. (M)

Rolla (SL-6)
Brown, P. O. (M)
De Woody, R. T. (M)
Mitchum, M. M. (M)
Nau, R. H. (SM)
Nolte, R. E. (SM)
Rivers, J. L. (A)
Severson, M. L. (A)
Skitek, G. G. (M)
Thompson, D. (M)
Tingley, F. T. (M)

St. Ann (SL-6)
Devereux, J. (A)
Schepflin, D. J. (A)
Sharp, E. F., Jr. (M)
Wall, D. E. (M)
Walsh, G. J. (A)

St. Charles (SL-6)
Benner, B. (M)
Bosworth, V. O., Jr. (A)
Bromberg, B. G. (SM)
Finke, H. G. (M)
Hommes, H. E. (M)
Wagner, F. R. (A)

St. Clair (SL-6)
Meyer, R. L. (M)

St. Joseph (KC-6)
Carroll, J. C. (M)
Koelling, A. J., Jr. (M)
Lux, K. E. (A)
Simonds, R. L. (A)

St. Louis (SL-6)
Abkemeier, L. R. (M)
Adams, C. B. (A)
Andersen, A. R. (A)
Appleton, E. R. (A)
Augustine, R. J. (A)
Babka, F. J. (M)
Baker, C. E. (M)
Beller, E. H. (A)
Bennetsen, W. J. (M)
Betzold, E. J., Jr. (A)
Bitzer, R. J. (M)
Black, D. R. (M)
Brent, L. L. (SM)
Browne, E. T. (A)
Bundschuh, W. A. (M)
Cassidy, R. E. (M)
Chambers, R. M., Jr. (M)
Chenoweth, J. A. (M)
Clement, C. F. (A)
Clodfelter, G. C. (M)
Condon, E. U. (F)
Connell, J. B. (M)
Cornell, J. I. (SM)
Cox, J. R., Jr. (A)
Darwin, F. A. (SM)
Detchemendy, J. A. (M)
Deutschmann, F. C. (M)
Dickneite, A. J. (A)
Dowdle, E. E. (M)
Dreifke, G. E. (M)
Duchek, H. W. (A)
Ehlers, E. A. (M)
Ellis, G. A. (A)
Emmerich, C. M. (M)
Fabey, J. R. (M)
Faust, C. W. (M)
Fenci, J. G. (M)
Fennewald, R. W. (A)
Fiedler, R. A. (A)
Fillmore, F. A. (SM)
Fordyce, S. W. (M)
Fox, G. W. (SM)
Fulton, C. L., Jr. (A)
Furfine, A. L. (M)
Gahn, E. H. (M)
Germeroth, J. H. (M)
Gessley, D. (M)
Gioia, S. C. (M)
Gonring, D. L. (A)
Goodberlet, E. F. (M)
Griffiths, O. H. (M)
Hall, J. T. (M)
Hamilton, S. (A)
Hamm, H. W. (A)
Hanford, R. W. (SM)
Hardison, C. W. (M)
Harris, H. H. (M)
Harrison, C. E. (SM)
Haywood, O. G. (SM)
Heitzeberg, C. H. A. (SM)
Herchenreder, H. (M)
Herries, D. G. (M)
Hicks, H. J. (M)
Hoffart, H. M. (A)
Honnell, P. M. (F)
Hubenschmidt, W. E. (A)
Jackson, J. R. (M)
Kathrinus, N. W. (A)
Keiser, B. E. (A)
Kelly, L. A., Jr. (M)
Kling, N. (A)
Kosfeld, W. H. (M)
Kouba, E. R., Jr. (M)
Lauher, V. A. (M)
Lawson, R. G. (A)
Little, G. R. (A)
Lowell, B. W. (A)
Lowell, T. B. (A)
Makela, L. V. (A)
Mayer, M. F., Jr. (M)
McAninch, C. H. (M)
McCabe, W. M. (M)
McDaniel, O. S. (SM)
McGary, W. T. (A)
McHoney, L. M. (SM)
McKinney, H. F. (A)
Million, T. E. (A)
Min, H. S. (M)
Mohrman, R. F. (A)
Mollman, L. A. (M)
Nichols, W. L. (M)
Ordinachev, M. D. (A)
Over, J. J., Jr. (M)
Ozment, R. W. (A)
Polk, G. D. (M)
Pultman, L. (M)
Quick, J. R. (M)
Roberts, E. M., Jr. (M)
Rosenkoetter, E. A. (M)
Ross, D. K. (M)
Sack, V. M. (M)
Sayer, J. D. (M)
Schaeperkoetter, L. C. (A)
Scherz, C. J. (M)
Schettler, D. A. (M)
Schmidt, E. C., Jr. (M)
Schneider, V. A. (M)
Schwarz, C. J. (SM)
Sevett, R. (M)
Sheenan, J. S. (M)
Shepard, W. D. (M)
Siepman, A. B. (A)
Small, F. R. (SM)
Stanhope, R. D. (A)
Steenhausen, D. R. (A)
Steinmeyer, D. J. (A)
Stertmann, W. E. (A)
Stokely, R. J. (A)
Swartz, C. W. (M)
Swift, W. H., Jr. (M)
Tash, M. (M)
Taylor, J. J. (M)
Taylor, W. (M)
Thielen, H. H. (A)
Thomas, R. M. (A)
Twombly, J. W., Jr. (M)
Upton, L. (A)
Vogel, E. H. (M)
Volpe, S. J. (A)
Wall, H., Jr. (A)
Waterstreet, I. A., Jr. (A)
White, C. E. (A)
Wilson, R. B. (M)
Withers, J. S. (A)
Wolf, N. F. (M)
Wolin, S. (SM)
Zaborszky, J. (SM)
Zehr, N. J. (SM)
Zurbriggen, J. H. (M)

Sappington (SL-6)
Schillinger, E. J. (M)

Sedalia (KC-6)
Morrison, M. M. (M)

Springfield (KC-6)
Curry, W. F. (A)
Gentges, F. H. (A)
Kramer, H. S. (A)
Summers, O. H., Jr. (M)
Trotter, C. E. (M)
Wheat, W. M. (M)

University City (SL-6)
Butler, J. G., Jr. (M)
Frager, A. M. (A)
Goldberg, J. G. (M)
Hieken, M. H. (M)
Joerger, C. D. (M)
Motchan, H. L. (M)
Scheer, M. L. (M)
Szukalski, D. J. (M)
Tucker, M. F. (M)
Varnum, J. B. (M)
Watson, S. E., Jr. (A)

Warrenton (SL-6)
Butler, S. C. (M)

Webster Groves (SL-6)
Ceries, R. E. (M)
Jeter, W. C. (M)
Sigman, H. M. (M)
Smith, H. N. (M)

Whiteman AFB (KC-6)
Lynn, F. M. (A)

MONTANA

Billings (SEA-7)
Behrendt, R. T. (A)
Klichi, J. A. (M)
Lundquist, F. E. (M)
Mills, N. W. (A)
Porter, H., Jr. (A)

Bozeman (SEA-7)
Nickerson, J. F. (M)
Seibel, R. C. (M)
Weaver, D. K., Jr. (M)
Weir, T. T. (M)

Butte (SEA-7)
Kerns, R. L. (A)
McCourt, A. R. (M)

Great Falls (SEA-7)
Andersen, V. O. (M)
Haefer, J. A. (A)
Lopuch, A. J. (M)
Parker, J. E. (VA)
Rynning, J. L. (M)

Helena (SEA-7)
Graham, D. R. (A)

Livingston (SEA-7)
Littleton, D. A. (A)

Missoula (SEA-7)
Hodgskiss, W. L. (M)
Taylor, A. S. (M)

Opheim (SEA-7)
Day, J. B. (A)

NEBRASKA

Alliance (OM-L-5)
Klesner, J. L. (A)

Beatrice (OM-L-5)
Emerson, W. R. (M)

Bellevue (OM-L-5)
Glover, B. W. (M)
Heyne, M. W. (M)
Logue, H. L., Jr. (M)

Columbus (OM-L-5)
Carter, G. W. (M)
Matejka, J. (M)
Risk, G. (A)
Theisinger, L. P. (A)
Watley, O. D. (M)

Dakota City (OM-L-5)
Shadbolt, M. H. (A)

Grand Island (OM-L-5)
Farrall, W. R. (M)
Lynch, U. L. (M)
Runyon, R. E. (A)

Hastings (OM-L-5)
Allison, D. B. (M)

Hebron (OM-L-5)
Uphoff, R. D. (M)

Holdrege (OM-L-5)
Sylvester, R. C. (M)

Kearney (OM-L-5)
Beshore, P. S. (VA)
Pace, R. A. (M)

Lincoln (OM-L-5)
Barry, R. W. (M)
Bashara, N. M. (M)
Church, A. K. (A)
Ebel, A. J. (SM)
Elwell, W. G. (M)
Estes, J. F. (A)
Ferris, W. C., Jr. (A)
Hlavaty, L. F. (M)
Hyde, C. M. (M)
Marts, B. C. (M)
Mientka, W. E. (M)
Norris, F. W. (SM)
Palmer, D. R. (M)
Revay, A. W., Jr. (M)
Robison, W. C. (M)
Savelis, A. (M)
Scebold, R. D., (A)
Soderholm, L. H. (M)
Sohl, L. H. (M)
Taylor, D. R. (A)
Thomas, D. H. (A)
Watson, G. W. (A)
Winkler, C. W. (VA)

Livingston (OM-L-5)
Bitner, R. J. (M)

McCook (OM-L-5)
Lenwell, L. W. (M)

Nebraska City (OM-L-5)
Wier, E. J., Jr. (M)

North Platte (OM-L-5)
Griffin, D. C. (A)
Seide, J. H. (M)

Oakland (OM-L-5)
Olson, M. W. (M)

Offutt AFB (OM-L-5)
Marks, J. B. (M)
McDavid, J. A. (SM)
Petersen, R. R. (M)

Ogallala (OM-L-5)
Oakes, R. E. (M)
Pestel, T. L. (A)
Wainwright, R. M. (SM)
Wiles, Q. T. (A)

Omaha (OM-L-5)
Babick, J. (M)
Bartlett, J. E. (A)
Bates, A. G. (M)
Becker, H. W. (SM)
Beenken, H. G. (M)
Blanchard, B. E. (M)
Borcher, E. J. (A)
Chamberlain, I. J. (SM)
Curry, H. D. (M)
Doll, C. L. (A)
Dunbar, B. L. (M)
Dunn, A. L. (SM)
Dunn, F. L. (SM)
Edgerton, M. J. (A)
Flynn, G. (M)
Follmer, G. C. (A)
Garland, W. J. (A)
Hadsell, G. C. (SM)
Hagrman, C. O. (A)
Hansen, C. L. (M)
Hill, R. L. (M)
Hower, P. A. (M)
Jett, C. O. (SM)
Johansen, H. M. (A)
Joy, H. H. (M)
Kelley, J. M. (A)
Kotera, W. J. (SM)
Kozicki, L. J. (A)
Krogstad, M. O. (A)
Kuklin, H. S. (A)
Lobel, H. (A)
Loch, R. D. (A)
McGowan, M. L. (M)
Pedlow, L. M. (M)
Peterson, L. P. (M)
Petrik, J. S. (SM)
Ralls, R. H. (SM)
Risley, M. I. (A)
Rogers, J. A. (M)
Ryba, F. J. (A)
Scheel, L. W. (A)
Sedlak, L. J. (A)
Sibilia, L. (M)
Smith, F. R. (A)
Stanphill, J. R. (A)
Stratbucker, R. A. (M)
Trullinger, L. L. (A)
Vickland, R. J. (M)
Wayne, J. W., III (M)
Weina, R. E. (A)
Winkler, G. E. (M)
Zink, R. L. (A)

Overton (OM-1-5)
Wycoff, K. H. (M)

Pilger (OM-L-5)
Nelson, D. (A)

Silver Creek (OM-L-5)
Barker, D. W. (M)

Sutherland (OM-L-5)
Townsend, J. G. (M)

Weeping Water (OM-L-5)
Olive, D. W. (M)

NEVADA

Elko (SLC-7)
Murphy, J. L. (A)

Fallon (SAC-7)
Larkin, W. D. (M)

Las Vegas (LA-7)
Patten, R. B. (A)
Peckham, V. D. (A)
Rollins, D. F. (A)
Schulman, M. (M)
Shrock, J. B. (SM)
Stephenson, P. L. (A)

North Las Vegas (LA-7)
Hopkinson, E. A. (A)

Reno (SAC-7)
Cann, R. W. (M)
Carlson, A. L. (M)
Conly, E. R. (A)
Domingos, H. (M)
Mattingly, C. D. (A)
Pendleton, L. S. (A)
Ricketts, D. B. (M)
Sandorf, I. J. (SM)

Sparks (SAC-7)
Cowdrey, H. R. (A)

Tonopah (SAC-7)
Pickles, S. (SM)
Yeager, R. J. (M)

NEW HAMPSHIRE

Amherst (B-NH-1)
Martin, P. E. (M)
Orth, R. T. (SM)
Wenzel, J. H. (A)

Atkinson (B-NH-1)
Perryman, N. A. (M)

Brookline (B-NH-1)
Sommers, D. J. (A)

Canterbury (B-NH-1)
Grace, G. M. (M)

Charlestown (B-NH-1)
Buckland, F. A. (M)

Chester (B-NH-1)
Minks, F. A. (SM)

Concord (B-NH-1)
Bartelink, E. H. B. (SM)
Brew, R. A. (M)
Dwyer, J. J. (M)
Evans, C. B. (M)
Fermanian, A. (M)
Frost, D. F. (M)

Hermansen, L. A. (M)
Katz, R. P. (M)
Longley, M. R. (A)
Murray, W. J. (A)
Oleson, D. R. (M)

Derry (B-NH-1)
Dollinger, K. (M)

Dover (B-NH-1)
Armitage, P. E., Jr. (A)
Hesse, H. R. (M)
Immen, G. H. (M)
Mucher, G. J. (SM)
Youngblood, I. J. (SM)

Durham (B-NH-1)
Clark, R. R. (M)
Frost, A. D. (SM)
Hellar, M. W., Jr. (M)
Melvin, D. W. (M)
Winn, A. L. (M)

East Rochester (B-NH-1)
Ashton, D. (M)

Exeter (B-NH-1)
Carbonneau, V. J. (M)
Emanovsky, A. E. (M)

Francestown (B-NH-1)
Bailey, A. B. (SM)

Gilmanton (B-NH-1)
Wilkens, W. B. (SM)

Greenville (B-NH-1)
Wellman, B. (M)

Hampton (B-NH-1)
Leoutsakos, G. N. (M)
Outten, R. E. (A)

Hanover (B-NH-1)
Curtis, H. W. (M)
Heckbert, A. I. (A)
Morgan, M. G. (SM)
Pratt, B. (M)

Hillsboro (B-NH-1)
Carruth, R. O. (M)

Hinsdale (B-NH-1)
Greene, C. R., Jr. (M)

Jackson (B-NH-1)
Stone, A. P. (M)

Keene (B-NH-1)
Cloutier, D. L. (M)

Laconia (B-NH-1)
Campbell, R. H., Jr. (M)
Hadden, G. H. (M)
Newcomb, R. E. (M)

Lakeport (B-NH-1)
Pattison, W. L., Jr. (A)

Lebanon (B-NH-1)
Spencer, M. C. (M)

Lincoln (B-NH-1)
Lessard, R. J. (A)

Lyme (B-NH-1)
Johnson, G. L. (SM)
Wood, J. A., Jr. (SM)

Manchester (B-NH-1)
Axelrod, A. (M)
Baer, R. H. (M)
Barr, P. (M)
Bean, F. E. (M)
Bouchard, J. G. F. (M)
Brous, D. W. (SM)
Casey, R. J. E. (A)
Dabrowski, S. A. (M)
Drescher, D. C. (M)
Dugre, M. L. (A)
Gabor, W. D. (M)
Halle, C. F. (A)
Haselton, E. F. (A)
Lamere, B. E. (A)
Moriarty, R. A. (A)
Nadeau, R. U. (A)
Rust, W. F., Jr. (SM)
Tilton, D. S. (M)
Westlake, N. L., Jr. (M)
Whelan, F. X., Jr. (A)
Wilkinson, H. W. (M)

Milford (B-NH-1)
Romney, E. (A)

Nashua (B-NH-1)
Ayer, D. R. (M)
Bales, C. W. (M)
Bradley, D. J. (M)
Butler, J. L. (M)
Cann, A. J. (M)
Dahlberg, A. W. (A)
Dickinson, R. V. C. (A)
Eggerding, H. B. (A)
Gagne, F. W. (M)
Gallagher, L. R. (M)
Gilligan, L. H. (M)
Goodwin, R. O. (A)
Goulder, M. E. (M)
Grenier, C. A. (A)
Hawes, R. B. (SM)
Huntington, W. J., Jr. (M)
Jacobi, R. J. (M)
Kaplan, P. D. (M)
Klarman, K. J. (A)
Le Blanc, R. A. (A)
Le Van, J. D. (M)
Low, R. C. (A)
Lowe, W. R., Jr. (M)
Manoogian, H. (SM)
Misek, V. A. (M)
Morgan, W. E., Jr. (M)
Newsom, E. G. (A)
Newton, L. W. (SM)
O'Neil, J. F., Jr. (A)
Pothier, R. G. (M)
Putnam, H. (A)
Rathje, E. (M)
Rich, D. A. (M)
Richmond, M. R. (M)
Rusch, W. T. (M)
St. Jean, L. E. (SM)
Sanders, R. C., Jr. (M)
Sheftelman, E. H. (M)
Steeg, G. F. (A)
Sweenie, G. C. (M)
Uhrich, W. J. (SM)
Ursin, B. E. (M)
Woodruff, T. E. (M)
Woods, R. E. (M)

Penacook (B-NH-1)
Brock, J. M. (M)

Plaistow (B-NH-1)
Backard, M. J. (M)
Fiore, M. (A)
Minnich, E. L. (M)

Portsmouth (B-NH-1)
Acton, E. E. (M)
Long, J. H. (A)
Molla, J. J. (M)

Salem (B-NH-1)
Limanni, M. A. (A)

Salem Depot (B-NH-1)
Savage, R. P. (M)

Somersworth (B-NH-1)
Widmann, L. C. (M)

South Menimack (B-NH-1)
Comstock, D. C. (M)

Windham (B-NH-1)
Nakasato, J. (A)

NEW JERSEY

Allendale (NNJ-2)
Fosher, W. A. P. (M)
Havstad, H. (SM)
Lawson, R. H. (M)
Robinson, A. S. (M)
Simoni, F. R. (A)

Allenhurst (NY-M-2)
Greer, W. R., Jr. (SM)
Haddock, J. W. (M)
Wiener, A. (M)

Allwood (NNJ-2)
Koch, S. J. (A)

Alpha (NNJ-2)
Schaefer, J. B. (SM)

Alpine (NNJ-2)
Merry, J. M. P. (A)

Andover (NNJ-2)
Hires, J. B. (M)
Ostlund, E. M. (SM)

Arlington (NNJ-2)
Durie, J. C., Jr. (A)

Asbury Park (NY-M-2)
Acker, M. (M)
Bauer, P. S., Jr. (M)
Belmont, E. (M)
Dorothy, J. M. (M)
Dravneek, W. R. (M)
Dworzak, D. C. (A)
Ercolino, M. D. (A)
Fritz, M. G. (M)
Gisonno, G. L. (M)
Greenblum, C. (M)
Hanel, R. A. (A)
Jones, J. D. (M)
Kolchin, R. I. (M)
Reich, B. (M)
Reilly, V. E. (M)
Resnick, A. (M)
Richardson, E. (M)
Sakatos, M. J. (M)
Sarlo, L. M. (M)
Schelleng, J. C. (F)
Schodowski, S. S. (A)
Stampfl, R. A. (A)
Steinberg, J. (A)
Strasser, S. (M)
Tobias, W. T. (M)
Weitz, S. (M)

Ashland (PHI-3)
Baumgardner, P. E. (M)
Harmon, G. B. (A)
Kowalski, L. E. (A)

Atco (PHI-3)
Liebold, F. A. (A)
Stanko, E. (SM)

Atlantic City (PHI-3)
Bremmer, L. F. (SM)

Atlantic Highlands (NY-M-2)
Barrett, L. C., Jr. (A)
Burr, J. K., Jr. (A)
Durrer, J. H. (A)
Gottschalk, W. M. (M)
Heiman, E. F. (M)
Jacobsen, T. L. (M)
Knauss, D. L. (A)
Petersen, P. B. (M)
Popovich, R. G. (A)

Audubon (PHI-3)
Beers, R. A. (SM)
Haining, L. E. (M)
Kozanowski, H. N. (SM)
Lewis, R. J. (SM)
Massari, J. P. (A)
Michel, C. A. (A)
Noakes, G. L. (A)
Rolf, T. E. (M)
Rutherford, R. O. (M)
Ryan, J. G. (M)
Shahbender, R. A. (M)
Slate, M. W. (M)
Smalts, F. W. (M)
Stasz, C. E. (M)
Taylor, C. W. (A)
Weisbecker, J. A. (M)

Avenel (PRI-2)
Seward, D. T. (A)
Shuskus, J. M. (A)

Avon (NY-M-2)
Egley, T. H. (A)

Avon-by-the-Sea (NY-M-2)
Child, T. M. (SM)

Barnegat (NY-M-2)
Morrison, J. G. (A)

Barrington (PHI-3)
Fisher, C. D. (M)
Johnson, C. W. (M)
Johnson, E. (M)
Thompson, J. R. (M)
Wynne, J. J. (A)

Basking Ridge (PRI-2)
Engelbrecht, R. S. (A)
Farmer, W. B. (M)
Ford, G. T. (SM)
Glauber, J. J. (SM)
Hasley, A. D. (SM)
Hedel, K. K. (M)
Hull, R. W. (M)
Jacobus, H. R. (SM)
Power, D. W. (SM)
Reusch, R. K. (M)
Talpey, T. E. (M)
Thompson, T. H. (M)
Uhler, K. W. (SM)
Wittels, J. L. (M)

Bay Head (NY-M-2)
Parker, J. A. (M)

Bayonne (NNJ-2)
Eager, G. S., Jr. (M)
Pettegrove, G. G. (A)
Schnipper, A. (M)
Skibneski, C. E. (M)
Szmerda, R. J. (A)

Bedminster (PRI-2)
Gateka, F. A. (M)

Belford (NY-M-2)
Cowgill, R. M. (M)
Glendinning, W. B. (M)
Motsek, M. (A)

Belle Mead (PRI-2)
Pressey, C. W. (A)

Belleville (NNJ-2)
Bagno, S. M. (SM)
Blake, R. F. (A)
Bolakas, J. A. (M)
Gallay, H. (M)
Greene, V. A. (M)
Grundler, H. L. (M)
Holley, J. J. (A)
Leblebooijian, G. (A)
Malloy, J. J. (M)
Mock, W. C., Jr. (SM)
Moreno, C. N. (M)
Presto, A. F. (M)
Reilly, R. A. (A)
Richards G. P. (M)
Roeloffs, E. H. (A)
Schenck, H. P. (A)
Scherer, M. (A)
Senio, N. (M)
Sherman, V. W. (SM)
Silverman, M. L. (M)
Singer, F., Jr. (SM)
Spiro, N. J. (M)
Steers, W. F. (SM)
Sussman, E. B. (M)
Taylor, A. R. (A)
Wallace, F. C. (SM)
Warren, J. E. (M)
Winship, T., Jr. (M)
Woodman, R. A., Jr. (M)
Yellen, S. (A)

Bellmawr (PHI-3)
Balchaitis, A. V. (M)

Belmar (NY-M-2)
Boxer, V. (M)
Gartner, W. W. (M)
Jarema, E. D. (M)
Kampinsky, A. (M)
Krueger, T. O. (M)
Lee, A. S. J. (SM)
Stone, H. A. G. (A)
Stone, M. V. H. (A)
Theissing, H. H. (SM)
Townes, W. D. (SM)
Wagner, H. M. (SM)

Belvidere (NNJ-2)
Hunsicker, R. K. (A)

Bergenfield (NNJ-2)
Abend, I. J. (M)
Anolik, B. S. (M)
Bright, T. F. (A)
Crawford, A. R. (M)
Fee, D. R. (M)
Frimtzis, R. (M)
Jones, M. E. (A)
Loring, L. W. (A)
Losher, M. I. (A)
Meadow, S. (M)
Morrison, R. E. (M)
Musselman, H. (A)
Rusch, H. (A)
Schmidt, C. J. (SM)
Taylor, R. G. (M)

Berkeley Heights (NNJ-2)
Andrews, H. W. (A)
Austin, J. E. (M)
Chruney, M. (M)
Clotworthy, J. H. (M)
De Grasse, R. W. (M)
Estoppey, R. F. (M)
Greven, P. J. (M)
Hall, R. E. (M)
Heacock, B. E. (SM)
Kiessling, E. H. (M)
Lewis, E. M., III (M)
Maher, T. P. (M)
Mann, H. (A)
Newland, E., Jr. (M)
Olson, H. M. (M)
Owen, R. W. (M)
Quate, C. F. (M)
Rowe, H. C. (SM)
Schade, F. W. (A)
Williams, C. E. (M)

Berlin (PHI-3)
Bail, J. W. (M)
Erichsen, H. K. (M)
Moore, W. L. (A)

Bernardsville (PRI-2)
Berg, G. M. (M)
Coddington, G. H. (M)
Green, N. H. (M)
Levine, S. (M)
Murphy, J. A., Jr. (M)
Shomer, J. E. (A)
Upthegrove, H. N. (A)

Beverly (PHI-3)
Chamin, R. B. (M)
Cottone, C. V. (A)
Day, R. F. (M)
Horton, P. R. (M)
Konczal, F. D. (M)
Soohoo, E. L. (A)
Taylor, D. M. (M)
Wolcott, R. G. (M)

Blackwood (PHI-3)
Kaufmann, D. C. (M)
Swedloff, B. (A)

Blairstown (NNJ-2)
Widenor, P. E., Jr. (SM)

Bloomfield (NNJ-2)
Accardo, N. A. (M)
Ashbrook, J. M. (A)
Atkins, C. E. (SM)
Bates, J. K., Jr. (A)
Baxter, H. R. (M)
Bitinas, J. (M)
Cerone, J. R. (M)
Coon, C. E. (M)
Crowley, J. F. (A)
Elston, G. F. (SM)
Everett, L., Jr. (SM)
Fedorka, R. T. (M)
Fortin, R. C. (SM)
Grandmont, P. E. (M)
Hacker, S. J. (M)
Hansen, J. A. (M)
Hawk, W. H. (M)
Hayes, W. A. (M)
Heberling, W. W., Jr. (M)
Heney, F. F. (M)
Higgs, H. P. (A)
Hobbs, J. (A)
Hollberg, R. W. (A)
Ivey, H. F. (SM)
Jarmick, R. J. (A)
Johnson, V. L. (M)
Kelso, R. J. (M)
Kerwin, B. D. (A)
Knochel, W. J. (SM)
Kreer, J. G., Jr. (SM)
McMurtrie, C. L. (M)
McNall, J. W. (SM)
Menne, R. S. (A)
Meyers, K. F. (M)
Mitchell, A. V. (A)
Mitchell, C. D. (SM)
Moltz, A. J. (M)
Nussear, J. G. (SM)
Pfeiffer, J. H., Jr. (A)
Polkinghorn, F. A. (F)
Przywozny, W. C. (A)
Quickel, T. E. (A)
Rhodes, H. A. (M)
Seizer, P. (M)
Satinsky, S. (M)
Schotland, R. M. (A)
Schulke, G. F. (M)
Sloan, F. M. (A)
Sporn, M. (A)
Sullivan, J. F. (M)
Wallace, P. A. (M)
Weber, R. M. (A)
Wetzel, K. C. (A)
Widell, E. G. (SM)
Williams, N. T. (SM)
Wilmarth, R. W. (SM)
Wood, G. R., Jr. (M)
Zelen, H. J. (A)

Bogota (NNJ-2)
Gilcher, V. (A)
Hafenmaier, H. F. (M)

Boonton (NNJ-2)
Anderson, N. J. (A)
Bailey, H. (M)
Benning, H. H. (SM)
Bidlack, R. H. (M)
Christensen, H. (M)
Cook, L. (VA)
Downsbrough, G. A. (M)
Drake, F. H. (F)
Engert, G. W. (M)
Erickson, L. E. (M)
Houlroyd, G. F. (M)
Hoyt, W. F. (M)
Hull, C. J. (A)
Hull, L. M. (F)
Jacobus, W. M. (A)
Jones, J. J. (M)
Kenney, C. M. (A)
King, P. B., Jr. (SM)
Mannik, G. (A)
March, P. S. (VA)
Milner, C. M. (M)
Molnar, J. T. (A)
Montcalm, S. R. (SM)
Newell, R. A. (M)
Parkes, A. W., Jr. (SM)
Pittenger, A. W. (M)
Pittenger, R. C. (A)
Plahn, R. W. (M)
Redington, J. H. (SM)
Rheams, C. J. B. (M)
Richardson, A. G. (F)
Richardson, S. A. (M)
Seabury, E. S. (A)
Schanz, W. H. (M)
Urbach, K. (SM)
Weinberg, J. (A)
White, W. F. (M)
Winter, J. W. (A)
Zayac, F. R. (M)
Zieger, J. A. (A)

Bordentown (PHI-3)
Cude, H. H. (A)
Martin, E. O. (M)
Meier, D. J. (M)

Bound Brook (PRI-2)
Brown, W. A. R. (A)
De Versterre, W. I. (M)
Gerhardt, G. E. (A)

Bradley Beach (NY-M-2)
Brown, M. A. (M)
Caparn, C. (M)
Halprin, L. H. (M)
Levy, S. J. (SM)
Macallister, A., Jr. (A)

Brainards (NNJ-2)
Slampyak, S., Jr. (M)

Bridgeton (PHI-3)
Avellino, W. R. (M)
Deal, J. H. (A)

Brielle (NY-M-2)
Eason, C. R. (A)
Schor, H. (M)

Brookside (NNJ-2)
Adams, E. W., Jr. (M)
Dean, F. C. (A)

Browns Mills (PHI-3)
Kannawin, W. I. (A)
Tellier, J. C. (SM)

Budd Lake (NNJ-2)
Peil, W. (M)

Burlington (PHI-3)
Bechtold, G. W. (M)
Cole, D. A. (A)
Dubrow, W. (A)

Butler (NNJ-2)
Bradford, D. C. (M)
Gordon, J. P. (SM)
Gradjelick, T. J., Sr. (A)
Hoagland, K. A. (SM)
McKeon, T. M. (M)
Wachter, J. E. (M)
Wild, R. F. (SM)

Caldwell (NNJ-2)
Fichter, W. C., Jr. (M)
Graff, E. S. (A)
Horner, J. E. W. (A)
Hotopp, A. H., Jr. (SM)
Janes, A. W. (M)
McBrair, H. C. (M)
McKeeby, R. W. (M)
Meixell, O. S. (SM)
Neu, E. C. (M)
Powers, S. J. (M)
Schoenbaum, J. R. (SM)
Schwerin, R. L. (SM)
Spelle, T. F. (A)
Sur, J. D. Y. (M)
Sutherlin, L. (SM)
Vogel, W. H., Jr. (M)
Webb, C. E. (M)
Whitley, E. G. (A)
Williams, W. J., Jr. (A)

Camden (PHI-3)
Aitken, K. M. (SM)
Annus, L. E. (A)
Arthur, G. R. (M)
Baker, L. (M)
Barber, F. H. (M)
Bartlett, T. L. (M)
Batsel, M. C. (F)
Beaver, M. W. (M)
Berg, C. O. (M)
Berry, E. W., Jr. (M)
Blair, B. D. (M)
Boenecke, C. A. (M)
Boggess, J. W. (A)
Bonshock, S. N. (M)
Booth, A. T., Jr. (M)
Bowen, D. C. (SM)
Bowman, C. (M)
Butler, J. G. (A)
Caron, E. J. (SM)
Casey, R. H. (M)
Chen, D-B. (A)
Ciarrocchi, J. A. (M)
Cimerman, I. (A)
Clay, B. R. (SM)
Colton, R. M. (A)
Corrington, M. S. (F)
Courtney, J. E. (M)
Cramer, R. E., Jr. (M)
Creager, F. L. (M)
Crosby, D. R. (SM)
Curtis, W. C. (A)
Dickens, B. L. (A)
Dion, D. F. (A)
Di Paolo, L. A. (A)
Domin, F. J. (A)
Dzwonczyk, J. G. (M)
Eagen, J. F., Jr. (A)
Edwards, N. E. (M)
Feibel, R. L. (M)
Feyerherm, M. P. (M)
Fink, W. R. (M)
Finkelstein, M. B. (SM)
Flomenhoft, M. (A)

Fricke, R. H. (M)
Galanek, G. J. (A)
Gelchis, M. V., Jr. (A)
Ginsberg, A. (M)
Gleerup, R. E. (M)
Glenn, A. B. (SM)
Gloates, E. (A)
Gunther, C. A. (F)
Harris, S. J. (SM)
Harris, W. A. (SM)
Hasenberg, W. (SM)
Heacock, D. P. (SM)
Hendrickson, J. R. (M)
Hills, V. E. (M)
Hollander, M. (M)
Holler, F. W., Jr. (M)
Howard, D. V., Jr. (A)
Johnson, E. O. (SM)
Jolliffe, C. B. (F)
Jones, L. F. (SM)
Kidd, M. C. (SM)
Kiessling, G. A. (M)
Koch, W. R. (F)
Koenig, M. (A)
Kornfield, N. R. (M)
Kreuzer, B. (M)
Kunstadt, G. H. (SM)
Lacy, W. H. (A)
Lazarus, F. F. (M)
Lee, D. H. (M)
Loeb, P. (M)
Luck, D. G. C. (F)
Maguire, J. A. (A)
Maloff, I. G. (F)
McCollough, E. C. (M)
McDonnell, F. M., Jr. (M)
McGee, A. K. (M)
McGough, R. P., Jr. (M)
McNicol, F. R. (A)
Meyer, B. (M)
Miller, E. H. (M)
Miller, W. A. (M)
Monshaw, V. R. (M)
Moy, R. G. (A)
Patterson, T. T., Jr. (SM)
Peebles, P. Z. (M)
Penberthy, E. J. (A)
Rao, G. V. (M)
Reade, R. B. (M)
Reardon, L. J. (M)
Reeves, T. C. (M)
Rich, P. L. (M)
Rosenberg, A. L., Jr. (SM)
Rosenthal, R. E. (A)
Sands, W. F. (SM)
Schlegelmilch, H. K. (M)
Schoenberger, W. J. (SM)
Scull, W. E., Jr. (SM)
Sendler, N. J. (A)
Shectman, M. (M)
Shenoy, R. P. (M)
Smith, A. L. (A)
Smith, C. J. (M)
Smith, T. A. (SM)
Suther, G. A. (M)
Terris, D. (M)
Tourshou, S. (SM)
Trainer, M. A. (SM)
Trebing, G. W. (M)
Vilkomerson, B. S. (SM)
Walker, B. F. (M)
Walter, J. C. (SM)
Wasiski, E. B. (A)
Waters, G. B. (A)
Wern, D. W., Jr. (A)
Wilson, R. E. (M)
Wirtz, E. L. (A)
Wolfe, W. R. (M)
Woods, W. E. (A)
Wright, S. L. (A)
Zarnoch, E. J. (M)

Carlstadt (NNJ-2)
Christaldi, P. S. (F)
Ederer, N. (M)
Kaiser, A. W. (SM)
Kim, Y. C. (M)
Lowers, C. E. (SM)

Carteret (PRI-2)
Mazurek, F. (A)
Wheeler, A. J. (A)

Cedar Grove (NNJ-2)
Altman, H. (A)
Baracket, A. J. (SM)
Beckers, A. E. (M)
Brown, W. G. (M)
Bulkley, A. W. (M)
Clarke, A. F., Jr. (A)
Cole, H. W. (M)
Davis, R. C. (A)
Dooner, J. L. (M)
Golick, G. (M)
Gordon, R. F. (A)
Gorss, C. G., Jr. (A)
Hartmann, J. C. (M)
Himmel, L. (SM)
Keim, F. J., Jr. (A)
Kettmann, H. W. (A)
Klein, A. M. (M)
Kramer, A. S. (SM)
Kuras, H. F. (M)
Lawrence, J. T. (SM)
Learner, H. M. (M)
Lenker, J. N. (M)
Luongo, J. (M)
Magdeburger, P. E. (M)
Moskowitz, S. (M)
Muller, C. R. (SM)
Petrusselli, R. T. (A)
Pogoda, A. L. (M)
Reeves, E. H. (M)
Reichert, W. G., Jr. (M)
Shackelford, C. L. (SM)
Sutton, L. E., III (A)
Van Brunt, L. B. (M)
Van Duyne, J. P. (M)
Weber, W. N. (SM)
Weitmann, O. (SM)
Whittle, R. L. (SM)

Cedar Knolls (NNJ-2)
Eden, B. F. (M)
Hetzel, G. L. (M)

Chatham (NNJ-2)
Albrecht, H. W. (SM)
Andrew, H. B. (M)
Arnold, C. G. (SM)
Babcock, W. C. (M)
Bethel, C. D., Jr. (SM)
Bishop, J. D. (A)
Bobeck, A. H. (M)
Bondy, M. (M)
Bryant, N. W. (SM)
Cousins, V. M. (M)
Edwards, J. R. (M)
Felch, E. P. (F)
Filo, J. P. (M)
French, H. N. (M)
Funk, D. L. (M)
Hangley, R. M. (M)
Harris, S. (A)
Hensel, W. G. (SM)
Herud, E. C. (M)
Higgs, R. E. (M)
Hilberg, E. A., Jr. (A)
Hopper, K. D. (M)
Houghton, E. W. (SM)
Johnston, J. M. (M)
Kinaman, E. W. (M)
Klesse, W. R. (M)
Koch, D. G. (M)
Lynch, D. J. (M)
McLean, D. A. (SM)
Meinholtz, H. J. (A)
Moorhead, G. H. (M)
Morrow, S. R. (A)
Nast, D. W. (A)
Neltzert, C. (M)
Peterson, A. C., Jr. (SM)
Radcliffe, F. E. (SM)
Rehrig, E. S. (M)
Rohn, W. B. (M)
Rose, R. H., II (M)
Rupp, O. R. (A)
Sagan, E. A. (A)
Schnebbe, A. D. (M)
Sears, P. R. (M)
Smoot, A. W. (M)
Southworth, G. C. (F)
Sproul, P. T. (SM)
Sweeny, C. P. (SM)
Taylor, P. H. (M)
Troy, E. M. (M)
Vaughan, H. E. (SM)
Vaughan, V. N., Jr. (SM)
Vodopia, S. N. (A)
Von der Linden, M. A. (SM)
Wintringham, W. T. (F)
Wirsz, N. C. (A)

Chatham Township (NNJ-2)
Singer, F. J. (SM)

Chester (NNJ-2)
Hill, G. V. (A)
Hubbell, B. (M)
Ruff, J. A. (A)
Mortlock, C. E., Jr. (M)

Clark (NNJ-2)
Basarab, J., Jr. (M)
Hall, R. W. (A)
Phillimore, H. R. (A)
Whitty, M. S. (M)

Clayton (PHI-3)
Dovey, H. N. (M)

Clementon (PHI-3)
Connelly, J. J. (M)
Rose, M. D. (M)

Cliffside Park (NNJ-2)
Lefebvre, R. E. (A)
Welblen, R. E. (M)

Clifton (NNJ-2)
Arditi, M. (SM)
Arkus, H. (A)
Arp, R. H. (A)
Ault, C. F. (M)
Battel, F. A. (A)
Bellman, H. C. (A)
Brady, J. F. (SM)
Brady, L. J. (M)
Brockel, E. P. (A)
Brown, R. I. (A)
Callanan, W. F. (M)
Casabona, A. M. (M)
Clemens, J. R. (M)
Davidson, G. M. (M)
Dolan, F. J. (A)
Dumont, A. B. (F)
Dunn, R. H. (M)
Dzula, B. (M)
Elbert, C. H. (M)
Feldt, R. (SM)
Foster, H. (M)
Foster, J. E. (A)
Garfunkel, A. C. (M)
Glomb, W. L. (M)
Goldstein, R. L. (A)
Gradner, H. (A)
Green, M. W. (M)
Grey, A. J. (M)
Haefeli, J. E. (A)
Haines, J. H. (M)
Herbin, L. (A)
Hilton, J. J. (M)
Hoberman, M. J. (M)
Hogan, M. J. (A)
Howard, E. J., Jr. (A)
Hval, H. N. (M)
Jeans, J. R. (M)
Katzmann, F. L. (M)
Kiss, M. L. (M)
Krehbiel, K. K. (M)
La Plant, W. P. (A)
Lappin, D. (M)
Librizzi, P. N. (SM)
Mills, H. J. (M)
Moron, M. (A)
Morrow, R. A. (A)
Munroe, P. C. (SM)
Murphy, G. G. (SM)
Nelson, J. E. (SM)
Oglesby, J. D. (SM)
Osifchin, N. (A)
Oswald, R. L. (M)
Otis, A. N., Jr. (A)
Pollack, L. (SM)
Postal, R. H. (A)
Romano, J. A. (A)
Snell, P. A. (M)
St. Louis, R. A. (M)
Salzer, R. M. (M)
Sanford, E. E. (A)
Schneider, A. E. (M)
Schneiderman, M. (A)
Schwartz, P. L. (M)
Smith, C. B., Jr. (A)
Snadyc, A. M. (SM)
Stein, S. (M)
Trim, M. E. (A)
Trivelas, A. C. (M)
Yaroshko, P. (A)
Yeisley, W. F. (M)
Zahner, C. F. (M)
Zweibel, J. (M)
Zyskowski, J. J. (M)

Closter (NNJ-2)
Metzger, J. E. (SM)
Slawson, W. J. (M)
White, L. E. (A)

Collingswood (PHI-3)
Ackerman, M. J. (SM)
Aron, S. (M)
Aronson, A. I. (M)
Aurand, J. A. (M)
Avella, N. R. (A)
Baker, W. W. (M)
Bancroft, H. S. (M)
Beauchemin, A. (M)
Beaulieu, D. E. (A)
Bergman, R. H. (M)
Boel, D. D. (A)
Booth, G. W. (M)
Boutwell, E. D. (M)
Brotzman, E. S. (SM)
Brown, D. W. (M)
Brown, E. M. (M)
Buck, D. G. (M)
Buder, S. H. (M)
Buroojy, T. J. (M)
Chin, G. D. (M)
Clark, E. L. (SM)
Cohen, K. J. (A)
Crawford, R. D. (M)
Davidson, R. A. (M)
Davis, C. E. (M)
Desrochers, R. E. (M)
Di Russo, E. (M)
Dobbins, L. W. (M)
Dobson, D. B. (M)
Dougherty, J. P. (A)
Douglas, J. W. (A)
Duffin, J. D. (M)
Eiselein, J. E. (SM)
Erdmann, R. G. (A)
Farnett, E. C. (M)
Field, G. R. (SM)
Freedman, D. D. (A)
Genetta, T. L. (M)
Gilmore, J. P. (SM)
Glazer, B. G. (M)
Gluyas, T. M., Jr. (SM)
Goodman, H. (SM)
Goodrich, H. C. (SM)
Hall, J. R. (M)
Himmel, R. N. (M)
Homan, A. A. (M)
Honda, H. (M)
Houck, G. S. (M)
Hurford, W. L. (M)
Katz, E. S. (M)
Keohane, E. L. (M)
Kolar, R. F. (M)
Kolodin, L. (A)
Kouns, W. D., Jr. (M)
Kowal, A. (A)
Krugman, L. M. (SM)
Lapidos, R. W. (M)
Lauer, H. (M)
Lefczik, S. W. (A)
Levy, A. S. (M)
Lynn, S. (SM)
Mac Innes, N. A. (M)
Malitz, E. (A)
Marsten, R. B. (SM)
Martin, G. H. (M)
McGiffney, D. Z. (A)
Meeker, W. F. (M)
Morrison, E. L., Jr. (M)
Myers, B. D., Jr. (A)
Nagy, T. (M)
Neubauer, J. R. (SM)
Noguchi, R. Y. (A)
Olson, C. L. (M)
Orendac, B. M. (A)
Pettengill, G. W. (M)
Phillips, L. B. (M)
Resek, G. (A)
Roe, J. H. (SM)
Scharff, L. (SM)
Schwarz, H. G. (M)
Selby, E. O. (M)
Sharp, R. F. (M)
Shelton, C. T. (M)
Shelton, J. A. (M)
Shoaf, J. R., II (SM)
Skorup, G. E. (M)
Southworth, W. T. (M)
Staniszewski, J. R. (A)
Stupp, R. W. (VA)
Talmage, F. E. (SM)
Theles, J. B. (A)
Thompson, E. E. (M)
Thomsen, C. M. (A)
Tice, G. Y. (M)
Turner, A. H. (M)
Underwood, J. F. (SM)
Varsos, S. G. (M)
Venters, D. C. (M)
Ver Wys, G. A. (M)
Wang, T. (A)
Warnick, G. E. (M)
Watson, F. M. (A)
White, R. J. (M)
Wiseman, P. E., Jr. (M)
Wolf, R. R. (M)
Woodward, B. J. (VA)
Yin, H-B. (A)

Colonia (PRI-2)
Anderson, E. C. (A)
Click, C. L. (M)
Sheffield, B. (SM)
Zeier, A. J. (A)

Coytesville (NNJ-2)
Kertesz, Z. J. (A)
Schnall, E. (M)

Cranbury (PRI-2)
Morgan, J. M. (M)
Shankweiler, R. G. (SM)
Wolff, S. S. (M)
Wysocki, J. J. (A)

Cranford (NNJ-2)
Abrams, H. (M)
Backinoff, B. (M)
Bell, B. A. (M)
Brown, A. S. (M)
Di Giovanni, A. E. (A)
Hillyer, C. (M)
Jacobus, L. A., Jr. (M)
Jagerman, D. L. (M)
Jakub, J. J. (M)
Kolts, R. C. (M)
Linzer, G. M. (A)
Madan, R. W. (A)
Massey, R. P. (A)
Rearick, C. C. (M)
Rearwin, R. H. (A)
Reymond, W. K. (M)
Roesel, W. C. (M)
Sansalone, F. J. (M)
Schaner, F. A. (SM)
Shenk, J. J. (M)
Silverman, D. (A)
Sullivan, H. J. (M)
Widmann, E. (M)

Cresskill (NNJ-2)
Bearman, A. L. (A)
Langan, J. E. (A)
Lippner, B. (A)
Stebbins, M. D. (A)

Deal (NY-M-2)
Bennett, H. S. (SM)
Klayton, M. H. (SM)

Deans (PRI-2)
Petermann, L. A. (M)

Delanco (PHI-3)
Brennan, J. B., III (M)
Hermann, P. E. (M)
Phillips, J. W. (A)
Potter, E. H. (SM)

Delawanna (NNJ-2)
Klein, M. S. (M)
Sanfield, S. H. (M)

Demarest (NNJ-2)
Foster, D. (M)
Furrer, C. G. (A)
Thompson, R. G. (A)

Denville (NNJ-2)
Baker, R. A. (M)
Bemis, A. R. (M)
Farbaniak, E. (A)
Fifer, W. C. (M)
Gilbert, E. A. (M)
Hofmann, H. R. (M)
Hughes, H. H. (SM)
Koch, H. J. (M)
Kodner, J. L. (A)
Kruger, H. A. (M)
Mindes, A. S. (M)
Minter, J. B. (M)
Porter, E. A. (M)
Renwick, E. B., Jr. (M)
Vanek, L. J. (M)
Van Winkle, D. (A)

Dover (NNJ-2)
Backer, L. A. (SM)
Benson, R. K. (M)
Calafati, S. S., Jr. (SM)
Frank, J. E. (M)
Glass, L. H. (M)
Grinoch, A. (A)
Hart, R. E. (A)
Helm, G. D. (SM)
Hotvedt, A. (M)
McCrory, J. R. (M)
Mc Kechnie, K. H., Jr. (M)
Peretko, H. T. (M)
Posternak, H. (A)
Prehn, G. G. (M)
Ritterman, S. A. (M)
Schwartz, A. J. (M)
Snyder, E. C., Jr. (M)
Waxler, D. (SM)
Zenk, G. E. (A)

Dumont (NNJ-2)
Apfel, G. J. (A)
Auld, J. S. (A)
Eland, P. D. (M)
Finch, J. B. (A)
Garrison, R. J. (M)
Hahn, J. (A)
Hammerstein, H. A. (M)
Kerner, S. J. (M)
Kompass, E. J. (M)
Leahy, G. F. (A)
Schwerin, P. (SM)
Strain, M. (M)
Sundberg, A. (A)

Dunellen (PRI-2)
Chabrak, T. A. (M)
Geigel, A. A. (M)
Helenek, A. R. (A)
Longo, C. V. (SM)
Povich, J. (A)
Rose, A. J. (SM)
Schmidt, S. J. (M)

East Orange (NNJ-2)
Bowblis, V. J. (A)
Boyer, J. T. (M)
Broekhuysen, W. C. (SM)
Carlat, B. (SM)
Coen, R. T. (M)
Conrad, T. E., Jr. (M)
Forman, J. A. (M)
Gawler, H. C. (SM)
Gonzalez, C. (M)
Greenberg, H. (M)
Guppy, J. W., Jr. (A)
Henry, T. J. (SM)
Hodowanec, G. (M)
Kantrowitz, W. (A)
Kase, H. A. (M)
Kendall, B. W. (SM)
Lachocki, E. (A)
Lardieri, G. (A)
Lindon, J. (A)
Maguire, J. T. (M)
Marshall, B. O. (A)
Meyers, S. T. (SM)
Middings, S. H. (M)
Moot, D. (A)
Nelson, R. S. (M)
Pierce, W. L. (M)
Ruston, J. (M)
Sandretto, P. C. (F)
Schulz, F. J. (A)
Schwalbe, M. I. (SM)
Scott, F. L., Jr. (M)
Smith, H. H. (M)
Smith, M. A. (M)
Smith, W. P. (A)
Spies, D. (A)
Stalker, F. B. (M)
Waskiewicz, L. R. (A)
Weible, N. R. (VA)
Worthington, R. L. (A)

East Paterson (NNJ-2)
De Falco, N. J. (M)
Deichert, R. W. (M)
Gardner, J. L. (A)
Grosbaum, E. (M)
Grower, B. B. (M)
Hamer, W. A. (A)
Hatchwell, J. A. (M)
Hesse, H. R. (SM)
Hoffman, P., Jr. (A)
Koenig, J. A. (A)
Krell, J. (A)
Maron, M. (M)
Neill, W. E. (M)
Northrop, D. T. (M)
Rabb, M. (A)
Wolfish, H. H. (M)

East Rutherford (NNJ-2)
Kesgen, E. W. (SM)
Skalski, W. A. (M)

East Vineland (PHI-3)
Konrad, L. (M)

Eatontown (NY-M-2)
Abercrombie, G. D. (A)
Bartow, J. E. (M)
Benanti, M. A. (A)
Bogar, J. E. (M)
Burkhard, H. F. (M)
Caffrey, J. V., Jr. (M)
Cerier, M. M. (M)
Curtis, M. W. (M)
Deblasio, C. (A)
Fenstress, T. D., Jr. (SM)
Gaskell, R. J. (A)
Goubau, G. J. E. (F)
Haley, R. G. (M)
Hanson, E. D. (M)
Hathaway, W. E. (A)
Heinlein, J. V. (A)
Kane, B. P. (M)
Kelley, L. C. (M)
Kelly, B. M. (SM)
Kesselman, W. A. (M)
Landberg, A. (M)
Laugesen, T. C. (A)
Lucyk, J. (M)
Lupinski, A. M. (M)
Occhiogrosso, T. (M)
McNaul, J. P. (M)
Petrillo, S. E. (F)
Schulke, H. A., Jr. (A)
Shanahan, J. C. (M)
Shirley, T. L. (M)
Smidowicz, T. Z. (M)
Strange, M. G. (M)
Voelcker, H. B., Jr. (A)
Wall, R. A. (SM)

Edgewater (NNJ-2)
Harris, C. D. (A)

Edgewater Park (PHI-3)
Seidenberg, P. N. (A)

Elberon (NY-M-2)
Bady, I. (SM)
Bates, W. J. (M)
Blum, M. S. (M)
Burke, M. H. (M)
Gould, W. B., III (A)
Hatkin, L. (M)
Hill, J. F. (M)
Ikrath, K. (A)
Jacoby, D. L. (M)
Malkin, S. (M)
Prichard, A. C. (SM)
Schafer, J. P. (SM)
Skobel, M. (SM)
Susdorff, R. R. (M)
Tanzman, H. D. (A)
Woodworth, J. D. (M)
Wynne, W. M. (VA)
Ziegler, H. K. (SM)

Elberon Park (NY-M-2)
Trauben, W. (M)

Elizabeth (NNJ-2)
Bellis, V. L. (A)
Blaisdell, W. C. (SM)
Chasek, M. B. (A)
Cooper, C. G. (A)
Garfinkel, B. D. (M)
Glaseman, S. H. (M)
Green, L. N. (M)
Handen, J. (M)

Harrell, C. D. (M)
Heinen, J. (M)
Kiss, M. J. (M)
Klein, J. (A)
Kvedaras, A. P. (M)
Lakin, G. A. (M)
Macina, N. A. (A)
Medway, A. D. (M)
Nellis, S. (A)
Nelson, D. E. (M)
O'Neill, M. P. (M)
Pecina, R. G. (A)
Peterson, T. A., Jr. (SM)
Pinto, R. C. (M)
Scaturo, C. (A)
Vernon, R. R. (M)
Von Urff, C. A., Jr. (M)
Walsh, L. (SM)

Elmer (PHI-3)
Tipton, W. F. (M)

Emerson (NNJ-2)
Axtelle, G. E. (M)
Boyens, R. D. (SM)
Dorney, P. E. (SM)
Freid, J. (M)
Geiger, R. H. (A)
Heck, R. F. (A)
Long, J. H. (SM)
MacVeety, R. C., Jr. (M)
Reeves, J. L. (SM)
Rubino, J. W. (SM)
Sacco, V. (M)
Swiggett, W. O. (A)

Englewood (NNJ-2)
Anick, G. (A)
Borg, R. H. (A)
Craig, J. A. (M)
Dern, H. (SM)
Elders, D. S. (M)
Florant, L. E. (M)
Gruber, A. E. (A)
Hillman, L. (M)
Hughes, K. E. (M)
Judge, W. J. (A)
Parker, S. R. (M)
Press, M. (SM)
Roselli, D. J. (A)
Saliba, G. J. (SM)
Saliba, J. R. (M)
Sargeant, C. E. (VA)
Smith, P. C. (A)
Stiefel, E. (A)
Thomas, E. R. (M)

Englishtown (NY-M-2)
Austin, F. H. (M)

Erlton (PHI-3)
Benner, R. H., II (SM)
Blaisdell, H. L. (SM)
Carignan, R. J. (M)
Casolaro, R. N. (M)
D'Amato, E. J. (A)
Foley, T. U. (M)
Hanson, R. E. (M)
Horowitz, L. A. (M)
Mahler, J. (M)
Mechler, E. A. (SM)
More, C. C. (M)
Mullen, C. V. (A)
Pearson, R. W. (M)
Schottenfeld, I. A. (A)

Erskine Lakes (NNJ-2)
Cosgrove, T. (SM)

Essex Fells (NNJ-2)
Blancke, T. B. (A)
Henneberger, T. C., Jr. (M)

Fair Haven (NY-M-2)
Aronoff, M. (SM)
Chappell, J. F. (A)
Corkran, D. H. (SM)
Dickson, F. H. (M)
Evans, E. D., Jr. (M)
Hanley, J. F. (SM)
Harrison, D. J. H. (A)
Kolar, E. F. (SM)
Lartaud, H. R. (SM)
Loud, V. F. (A)
Ohl, R. S. (F)
Priebe, F. K. (M)
Puzio, P. S. (A)
Riehs, R. C. (SM)
Russell, W. J., Jr. (M)
Ruthroff, C. L. (M)
Schedlbauer, C. M. (SM)
Triolo, F. J. (M)
Van Deusen, G. L. (F)
Young, J. A., Jr. (M)
Zahl, H. A. (F)

Fairlawn (NNJ-2)
Bawer, L. I. (SM)
Bradburd, E. M. (M)
Brodsky, J. L. (M)
Brown, C. R. (M)
Carlin, B. (M)
Cooper, B. (M)
Diepeveen, N. (M)
Felt, L. (A)
Fischer, L. O. (VA)
Friedman, D. (M)
Fruchter, C. L. (M)
Gaines, R. I. (M)
Grabois, B. (M)
Gulack, J. G. (SM)
Guthrie, T. F. (A)
Hill, E. (M)
Hill, E. R. (A)
Johnson, A. C. (M)
Kaylin, R. R. (M)
Lafferty, R. E. (SM)
Le Vine, D. J. (SM)
Levitsky, J. (M)
Lupo, F. J. (SM)
Maloy, M. (A)
Mansberg, H. (M)
Moroze, M. W. (M)
Moulton, J. H. (M)
Perry, M. A. (M)
Rizzo, J. E. (M)
Rosenberg, L. (A)
Sachs, H. S. (A)
Scarr, H. F. (SM)
Schacher, D. L. (M)
Schwartz, E. I. (M)
Sherman, H. (A)
Silver, M. (M)
Smolen, A. (M)
Spector, M. (A)
Stein, E. (M)
Torrey, L. W., Jr. (M)
Woodward, R. J. (M)
Zerkin, M. (M)

Fairview (NNJ-2)
Maurice, J. M. (A)
Meo, M. (A)
Nunziata, A. (A)
Pattan, B. A. (M)

Fanwood (NNJ-2)
Brossok, W. C. (M)
Cooke, J. P. (A)
Henley, E. J. (A)
Hower, M. M. (A)
Isaacson, A. M., Jr. (A)
Roberts, D. C. (A)
Seidel, H. (M)
Thomas, A. W. (M)
Walter, R. A. (A)
Wise, H. W. (SM)

Far Hills (PRI-2)
Grissler, H. W. (M)
Peery, W. E. (M)
Serig, H. W. (SM)

Farmingdale (NY-M-2)
Hartley, J. H. (M)
Rock, F. E. (M)

Fayson Lakes (NNJ-2)
Duncombe, W. M. (A)

Flanders (NNJ-2)
Habib, N. (M)
Haugk, G. (A)
Johnson, J. R. (M)
Johnson, L. C. (A)

Flemington (PRI-2)
Hoffmann, K. G. (M)

Florham Park (NNJ-2)
Breunig, J. J. (M)
Chapman, C. M. (M)
Coonce, H. E. (M)
Fultz, K. E. (A)
Giffin, D. A. (M)
Greenwood, T. S. (A)
Kudlich, R. A. (SM)
Littell, J. G. (M)
Mahr, M., Jr. (M)
McKersie, A. D. (M)
Rawson, H. B. (M)
Richardson, F. A. (A)
Simone, C. F. (M)
Sullivan, M. V. (SM)
Wells, H. G., Jr. (M)

Fords (PRI-2)
Bieganski, W. J. (A)
Glickman, V. (M)
Gumbs, J. (A)
Helm, R. J. (A)
Hoedemaker, R. W. (M)
Kalista, S. A. (A)
Kemash, A. E. (M)
Lo, A. W. (SM)
Zapotocky, A. C. (M)

Fort Lee (NNJ-2)
Benewicz, T. F. (M)
Cynamon, J. J. (A)
Frisch, F. W. (M)
George, W. P. (M)
Goldberg, S. R. (M)
Grant, M. S. (M)
Sullivan, V. J. (A)
Unold, R. W. (M)

Fort Monmouth (NY-M-2)
Bechmann, R. (SM)
Brazee, G. (SM)
Brown, H. M. (SM)
Burke, A. L. (SM)
Corderman, W. P. (SM)
Davitt, J. H. (SM)
Fair, R. D. (M)
Garber, J. F., Jr. (SM)
Hartman, J. C. (M)
Hawley, R. C. (M)
Hirst, W. B., Jr. (M)
Meyer, R. G. H. (SM)
Mitchell, J. D. (M)
Myers, R. F. (M)
Northfield, W. E. (M)
Rood, R. S. (M)
Shumaker, M. J. (A)
Skagerberg, W. A. (M)
Watters, J. E. (SM)
White, H. E. (M)

Franklin (NNJ-2)
Segarra, J. (A)

Franklin Lakes (NNJ-2)
Houghton, T. F. (M)
Piccoli, P. E. (M)
Pulchlopek, E. S. (M)
Scoskie, A. T. (A)

Franklin Park (PRI-2)
Moore, T. H. (M)
Brown, H. R. (A)

Freehold (NY-M-2)
Bastian, C. W. (A)
Buck, D. T. (M)
Hersh, H. J. (SM)
Kaiser, E. J. (M)
Katz, S. (M)
Lawn, F. (M)
Pochmerski, D. (M)

Garfield (NNJ-2)
Mayurnik, G. (A)
Mihal, J. (A)
Paradise, R. Y. (M)
Sadvary, J. W. (A)
Suklich, W. J. (A)

Gibbsboro (PHI-3)
Ellopoulos, A. J. (A)
Friedman, S. (M)
Neely, W. J. (A)
Nikolayuk, N. (A)

Gillette (NNJ-2)
Kannenberg, W. F. (SM)
Rist, R. E. (M)
Rystedt, T. (M)
Szczebak, E. J. (M)
Turrin, R. H. (M)
Villars, C. P. (M)
Vitkovits, S., Jr. (M)

Glassboro (PHI-3)
Deml, A. J. (M)
Katinos, L. J. (A)

Glen Ridge (NNJ-2)
Brubaker, P. M. (M)
Dorff, L. A. (SM)
Hamilton, G. E. (SM)
Heinzerling, E. W. (M)
Hopgood, R. C. (SM)
Laport, E. A. (F)
Mandel, M. (M)
Olsen, E. U. (M)
Polyzou, J. (M)
Reveal, P. A. (M)
Tambling, R. L. (SM)
Treanak, R. F. (M)
Waite, G. F. (A)
Wolfe, T. R. (M)

Glen Rock (NNJ-2)
Abrams, I. (M)
Ballou, F. M. (M)
Becken, E. D. (M)
Browne, R. (M)
Clark, L. E. (VA)
Cotellessa, R. F. (SM)
Fischer, L. G. (SM)
Green, R. C. (A)
Kloster, D. E. (A)
Lukas, W. (M)
McGovern, J. J. (M)
Ringer, R. L., Jr. (M)
Sanger, R. B. (A)
Singer, E. (M)
Willes, R. L. (A)

Gloucester (PHI-3)
Cornet, E. (SM)
Fisher, D. M. (A)
Leung, T.-C. (M)
Li, K. (A)
Osler, S. J. (M)
Quan, K.-K. (M)

Great Notch (NNJ-2)
Berkley, C. (A)
Godley, P. F. (VA)
Godley, P. F., Jr. (M)
Goldman, H. (A)

Grenloch (PHI-3)
Henuset, F. V., III (A)

Guttenberg (NNJ-2)
Brackett, J. J. (A)

Hackensack (NNJ-2)
Arcidiacono, J. (M)
Bastian, A. L. (M)
Gambuti, P. F. (A)
Hodde, F. W. (M)
Kasserman, P. (M)
Kelhner, J. K. (M)
Maasik, C. (A)
Mate, H. (M)
McKenzie, A. A. (SM)
Rauch, L. R. (M)
Roemisch, J. L. (SM)
Samuelson, C. D. (SM)
Schentes, M. J. (SM)
Siltanen, J. C. (M)
Wertman, R. C. (M)
Wylde, W. N. (M)

Hackettstown (NNJ-2)
Dinzl, R. A. (A)
Glass, J. F. (A)
Ouellette, L. A. (A)

Haddonfield (PHI-3)
Achenbach, J. C. (SM)
Adams, R. L. (M)
Alexander, E. M. (M)
Amemiya, H. (A)
Amlinger, P. R. (M)
Anderson, J. B. (M)
Anderson, T. E. (A)
Andrews, K. E. (M)
Anlage, J. J. (A)
Arlan, L. (A)
Armbruster, G. J. (A)
Ashton, H. A. (M)
Baker, A. B. (M)
Bailey, R. E. (M)
Bantle, D. W. (A)
Barton, D. K. (M)
Bauer, W. R. (M)
Beard, A. D. (A)
Beck, F. X., Jr. (M)
Beers, G. L. (F)
Bender, E. R. (M)
Benner, A. H. (SM)
Binzer, C. (A)
Blodgett, E. D. (SM)
Boerner, T. J. (SM)
Bowman, S. T. (A)
Brady, T. J., Jr. (M)
Brandt, M. M. (M)
Breckman, J. (M)
Brock, F. M. (A)
Brooks, C. L., Jr. (A)
Brown, H. W., Jr. (SM)
Bullock, J. B. (M)
Burke, A. M. (A)
Caldwell, H. R. (M)
Campanella, M. J. (M)
Canavan, T. P. (M)
Cantafio, L. J. (A)
Carter, G. W. (SM)
Case, C. W. (M)
Cederbaum, L. R. (M)
Cheetham, R. P. (M)
Chiabrando, J. C. (A)
Chiel, F. D., Jr. (M)
Chittick, K. A. (F)
Coburn, G. S. (M)
Cohen, P. (SM)
Cole, D. D. (SM)
Coleman, J. B. (F)
Coleman, R. E. (M)
Colligan, J. A. (M)
Connor, W. J., Jr. (M)
Cook, M. E. (M)
Cooper, R. M., III (M)
Cooper, S. (M)
Cooperman, M. (M)
Covely, F. D., III (SM)
Crooks, H. N. (SM)
Cunningham, O. B. (SM)
Curran, G. M., Jr. (M)
Daniels, A. J. (M)
Davidson, J. (M)
Dehm, R. E. (A)
Denton, B. E. (SM)
Desautels, G. L. (M)
Dewitt, C. C. (A)
Diehl, D. W. (M)
Dishler, J. J. (A)
Douma, T. (M)
Drake, A. H. (A)
Ehrich, W. G. (M)
Elliott, H. M. (M)
Facer, R. S. (A)
Federlin, H. M. (M)
Felix, E. H. (SM)
Ferron, J. A. (M)
Fink, M. (A)
Fiore, R. E. (M)
Fitzpatrick, A. G. (M)
Flodman, L. J. (SM)
Fong, T. T. (M)
Forrester, C. A. (A)
Forte, S. R. (M)
Frankenberg, A. J. (M)
Frary, R. S. (M)
Frost, C. R. (M)
Funk, K. A. (M)
Furnstahl, J. S. (M)
Gallo, L. (M)
Gran, R. W. (A)
Gray, F. D. (M)
Grever, J. L. (M)
Groff, J. H. (M)
Gross, D. T. (M)
Guerber, H. P. (A)
Guertin, R. J. (M)
Halpern, H. M. (A)
Haynes, H. E. (SM)
Heiser, J. T. (M)
Hermeling, G. C., Jr. (SM)
Herrmann, F. J. (SM)
Hill, N. R. (A)
Hillman, E. L. (A)
Holshouser, J. R., Jr. (A)
Housey, L. J. (M)
Hubbard, B. L. (M)
Hymas, D. G. (M)
Into, A. N., Jr. (A)
Joffe, I. (M)
Johnson, E. J. (M)
Johnson, R. V. (A)
Kellom, B. K. (A)
Kempf, B. E. (M)
Kessler, B. I. (M)
Kettler, A. H. (SM)
Joyner, A. A. (SM)
Kalkman, E. C. (M)
Keefe, J., Jr. (A)
King, R. E. (M)
Kingan, J. (M)
Kirkwood, L. R. (SM)
Kita, R. K. (M)
Kleinberg, H. (M)
Knouse, G. H. (M)
Kolesnik, M. (M)
Korce, L. L. (SM)
Kraaney, S. (A)
Kreitzer, H. M. (A)
Kropp, G. W. (A)
Kruger, I. D. (M)
Lamontagne, R. S. (SM)
Landeman, L. (M)
Larson, K. E. (M)
Lavedan, L. J., Jr. (M)
Lee, R. H. (SM)
Lerner, N. C. (M)
Lev, S. N. (M)
Levy, L. S. (M)
Liebermann, J. (A)
Lind, A. H. (M)
Lindner, G. H. (A)
Linhardt, R. J. (SM)
Lisicky, A. J. (M)
Lowe, M. H. (M)
Luddy, E. N. (M)
Luksch, J. A. (M)
Lund, R. C. (M)
Lundgren, D. L. (SM)
Lundon, J. J. (M)
Lyndon, W. L. (SM)
Magyarics, R. P. (A)
Maine, R. E. (M)
Maldoon, L. M. (M)
Manning, A. J. (SM)
Maron, J. (M)
Mascoll, V. J. (A)
Mathwich, H. R. (M)
Matson, L. E., Jr. (M)
Mayer, D. B. (M)
Mayo, A. L. (A)
McCoy, J. F. (SM)
McGahey, E. W., Jr. (M)
McGaughey, P. C. (SM)
McKee, D. M. (A)
Meisenheimer, R. L. (SM)
Meng, D. R. (M)
Mertz, H. W. (M)
Messina, M. F. (M)
Milewski, C. A. (M)
Miller, G. F. (M)
Mitchell, W. T. (M)
Morita, J. T. (M)
Moule, W. N. (M)
Munson, I. K. (M)
Muolo, A. W. (A)
Murakami, T. (SM)
Murdock, W. G. (A)
Nahay, L. P. (M)
Nesmith, J. T., Jr. (SM)
Newman, J. J. (M)
Nicholson, B. E. (M)
Nieh, N. Y. C. (M)
Nishimura, G. H. (M)
Noel, R. Y. M. (M)
Nossen, E. J. (A)
Obenland, D. K. (M)
Oberle, G. W. (SM)
Ohler, A. E. (M)
O'Neil, P. T. (M)
Osborne, J. M. (SM)
Paley, L. I. (M)
Palmer, J. E. (A)
Paris, A. A. (A)
Perry, S. V. (VA)
Peterson, C. E. (A)
Peterson, R. A. (SM)
Petri, W. H., Jr. (M)
Poehls, V. J. (M)
Poitras, D. J. (M)
Poorte, G. E. (M)
Potts, J. B. (A)
Pratt, D. (SM)
Price, W. E. (SM)
Pritchard, E. M. (SM)
Pyle, M. O. (M)
Reimerts, R. R. (M)
Reinert, D. O. (A)
Rettig, A. S. (SM)
Rhodes, P. G. (M)
Rocamora, R. L. (M)
Rose, H. E. (M)
Rose, W. A. (A)
Rosenberg, N. (A)
Ross, G. T. (M)
Roth, J. H. (SM)
Rudner, M. A. (SM)
Ryan, V. F., Jr. (M)
Rydz, J. S. (M)
Ryerson, C. M. (SM)
Samartino, R. F. (A)
Sander, S. (M)
Sattler, E. W., Jr. (A)
Schrader, H. J. (F)
Schwartz, B. R. (M)
Seelig, G. (SM)
Shapiro, L. (M)
Sheetman, N. (M)
Sheridan, E. W. (A)
Shih, W.-M. (M)
Siegal, M. E. (M)
Singer, G. A. (M)
Skarbek, I. R. (M)
Skidmore, W. S. (M)
Smith, J. N. (M)
Sonnenfeldt, R. W. (SM)
Spiegel, S. S. (M)
Spoelstra, R. J. (M)
Srolovits, H. R. (A)
Stafford, R. H. (A)
Stanford, C. E. (M)
Starner, C. J. (M)
Starr, S. C., Jr. (M)
Staton, M. G. (M)
Stockton, E. M. (M)
Stone, F. B. (SM)
Strickland, K. T. (A)
Sublette, I. H. (M)
Sullivan, J. L. (A)
Taylor, J. P. (A)
Taylor, W. E. (A)
Thomas, A. R. (M)
Thomas, L. P. (M)
Toscano, P. M. (M)
Townsend, B. N. (M)
Trachtenberg, R. (SM)
Trinkle, R. C. (A)
Trouant, V. E. (SM)
Truesdell, R. L. (A)
Turecki, A. (M)
Turner, R. R. (M)
Wahlstrom, R. N. (A)
Wald, S. (SM)
Walter, C. E., III (SM)
Watson, S. H. (SM)
Webb, R. B. (A)
Weidemann, R. F. (M)
Weir, W. T. (A)
Weise, R. C. (VA)
Weiss, M. V. (M)
Weiss, S. L. (M)
Weitz, M. K. (A)
Welsh, R. R. (SM)
Welsher, C. E. (SM)
Wentworth, J. W. (M)
Wentz, J. L. (A)
Westwood, D. H. (S)
Wheeler, B. F. (SM)
Widmann, F. W. (SM)
Wilcox, R. C. (SM)
Wilder, M. K. (A)
Willman, R. C. (SM)
Wilson, H. S. (A)
Winn, R. E. (M)
Witt, L. R. A. (A)
Wolf, L. J. (SM)
Wood, M. H. (SM)
Wooten, L. B. (A)
Wuerffel, H. L. (SM)
Yanis, E. M. (M)
Zimnoch, J. J. (A)
Zoltan, I. N. (M)

Haddon Heights (PHI-3)
Aitel, M. L. (A)
Arrowood, W. E. (M)
Auerbach, B. (M)
Barger, J. R. (M)
Boehm, P. P. (M)
Boyd, E. A. (A)
Carlson, D. J. (M)
Conroy, G. J. (M)
Cummings, J. J. (SM)
Darnell, W. E. (SM)
Eulo, G. R. (M)
Farr, C. E. (M)

Franke, J. L. (SM)
Goodman, G. H. (SM)
Gunter, D. L. (M)
Hartmann, H. (A)
Hong, J. C. T. (A)
Hoyle, W. E. (M)
Latham, N. D. (M)
Link, J. M. (M)
McMorrow, C. F. (M)
Moore, E. E. (M)
Mulle, W. A. (M)
Pan, W. Y. (F)
Parker, J. R. (M)
Phillips, C. R. (M)
Rumble, W. G. (M)
Smith, J. G. (M)
Solomon, K. (M)
Steoger, J. E. (A)
Warren, C. S. (A)
Wolf, L. (SM)
Woll, H. J. (SM)

Hamburg (NNJ-2)
Tomey, J. G. (M)

Hamilton Square (PRI-2)
Edwards, L. M. (A)

Hammonton (PHI-3)
Aichelmann, F. J. (M)
Reber, P. W. (A)

Hanover (NNJ-2)
Byrne, E. R. (M)
Doll, W. E. (M)
Leonard, T. H. (M)
Wunch, E. R. P. (M)

Harbourton (PRI-2)
Reed, R. D. (SM)

Harrington Park (NNJ-2)
Kaufman, A. S. (M)
Vieth, W. G. (M)

Harrison (NNJ-2)
Austin, W. M. (M)
Ayer, R. B. (SM)
Bahls, W. E. (SM)
Bertin, E. P. (M)
Burke, L. P. (M)
Burnap, R. S. (F)
Carrona, J. J. (M)
Cimorelli, J. T. (SM)
Cranmer, W. S. (SM)
Dunn, R. F. (M)
Eberly, H. L. (SM)
Freedman, N. S. (SM)
Freeling, M. R. (M)
Fuller, K. H. (M)
Hirlinger, J. F. (SM)
James, W. M. (SM)
Kauzmann, A. P. (SM)
Kelly, R. L. (SM)
Kleinman, B. (M)
Koustas, P. (SM)
Kurys, C. J. (A)
Levine, B. (M)
McElwee, E. M. (SM)
McPartland, J. F. (A)
Mead, W. H. (M)
Meyer, C. A. (SM)
Morris, C. M. (SM)
Novak, G. (M)
Nowogrodzki, M. (M)
Perkins, T. B. (M)
Poch, S. (M)
Rose, G. M., Jr. (F)
Schade, O. H., Jr. (A)
Scholz, L. C. (M)
Shaw, G. R. (F)
Shuttleworth, E. (A)
Smith, D. V. (SM)
Talpey, R. G. (SM)
Wanchow, J. J., Jr. (M)

Hasbrouck Heights (NNJ-2)
Conrad, R. J. (M)
Drew, R. E. (A)
Helwege, G. (A)
Henn, W. (A)
Lasch, W. F. (M)
Lazos, N. J. (A)
Norton, E. A. (M)
Watts, G. J. (M)
Zoref, A. S. (A)

Haskell (NNJ-2)
Ryan, H. J. (M)

Haworth (NNJ-2)
Croyle, J. C. (M)
Guy, R. F. (F)
Osborn, P. H. (M)
Terry, F. B. (A)

Hawthorne (NNJ-2)
Carlson, E. S. (A)
Constantin, L. L. (M)
Greenleaf, J. L. (M)
Strole, J. C. (M)

Hazlet (NY-M-2)
Harries, W. (M)
Morgan, R. L. (M)

Hewitt (NNJ-2)
White, R. E. (SM)

High Bridge (PRI-2)
Bartles, E. K. (A)

Highland Park (PRI-2)
Bocchieri, A. J. (A)
Gaul, W. L. (A)
Lipnick, R. (M)
Molony, D. A. (M)
Stephenson, M. L. (A)

Highlands (NY-M-2)
Ferrar, R. C. (SM)
Rohrle, T. A. (A)

Hightstown (PRI-2)
Bowker, J. D. (A)
Crooke, A. W. (A)
Miller, H. L. (M)
Murr, J., Jr. (A)
Pantuso, A. J., Jr. (M)

Hillsdale (NNJ-2)
Gregg, W. G. (M)
Klein, M. E. (M)
Lapham, F. K., Jr. (A)
Marriner, A. W. (M)
Marsh, C. O., Jr. (M)
Sullinger, W. B. (SM)
Teitler, A. (SM)

Hillside (NNJ-2)
Aleixo, A. (M)
Hrvosvsky, S. (A)
Kahant, C. G. (A)
Maffenbeier, J. B. (M)
Rosenman, D. (A)
Wilner, G. (A)
Zentmaler, K. H. (M)

Hoboken (NNJ-2)
Ficken, W. H. (M)
Gilmore, A. C., Jr. (M)
Hauser, E. B. (M)
Merrill, L. L. (SM)
Rossi, S. (A)
Simberkoff, J. A. (A)
Simberkoff, S. W. (A)
Sullivan, W. L. (SM)

Hohokus (NNJ-2)
Ebersol, E. T., Jr. (M)
Mangels, L. A. (A)
Markus, J. (SM)
Saul, E. R. (M)
Spaulding, H. K. (A)

Holmdel (NY-M-2)
Budenstein, P. P. (M)
De Lange, O. E. (M)
Marcatili, E. A. J. (M)

Hopewell (PRI-2)
Heffernan, H. J. (A)
Robertson, G. C. (M)
Townsend, C. C., Jr. (M)

Hudson Heights (NNJ-2)
Sigman, M. (M)

Interlaken (NY-M-2)
Todd, W. (M)

Interlaken Estates (NY-M-2)
French, H. H. (A)

Ironia (NNJ-2)
Brown, R. E. (M)
Fogarty, L. L. (A)
Markle, R. E. (M)
Weiss, A. A. (A)

Irvington (NNJ-2)
Albanese, D. F. (M)
Baker, D. (A)
Caspar, C. W., Jr. (M)
Goldshine, A. D. (M)
Gropp, B. P. (A)
Heber, J. F. (M)
Kosmaczewski, I. (M)
Mommo, E. J. (VA)
Nesselroth, M. D. (A)
Nickless, W. H. (A)
Shurley, R. M. (M)
Sutton, R. H. (A)
Szulczynski, Z. J. (M)

Iselin (PRI-2)
Fryer, W. R. (M)
Libes, S. (A)

Jersey City (NNJ-2)
Balter, L. (M)
Blackwell, W. C., Jr. (A)
Brogan, J. M. (M)
Caputo, W. R. (M)
Faber, M. J., Jr. (A)
Fox, J. W. (M)
Gaudiosi, J. V. (A)
Israel, D. D. (F)
Kunin, L. (M)
Lahey, P. J. (M)
Leslie, F. (M)
Loiterman, L. (M)
Marchand, O. P. (A)
Mayor, R. (A)
Olin, R. P. (M)
Parrillo, V. J. (M)
Polcyn, S. J., Jr. (M)
Putt, D. R. (A)
Raffel, L. (A)
Scherzer, K. (M)
Seel, M. (A)
Tenten, R. C. (A)
Witherell, C. E. (M)
Wormcke, W. (M)
Yaworsky, Y. J. (M)
Yurechko, J. J. (A)

Kearny (NNJ-2)
Belamarich, J. P. (A)
Bondon, L. A. (SM)
Gerulat, T. G. (A)
Helwig, W. J. (M)
Koijane, D. F. (M)
Lewis, R. F. (M)
Percival, W. R. (SM)

Keasbey (PRI-2)
Snyder, C. L. (SM)

Kenilworth (NNJ-2)
Gams, T. C. (M)
McCarroll, A. K. (A)

Kenvil (NNJ-2)
Lanning, H. E. (A)
McIntyre, J. W. (A)

Keyport (NY-M-2)
Angel, K. W. (M)
Bernhardt, W. L. (M)
Blumberg, L. (M)
Bryson, W. B. (M)
Ehrlich, W. E. (A)
Goldin, S. M. (M)
Schlaack, N. F. (SM)
Schmeling, A. M. (A)
Slobodin, L. (M)
Tetreault, N. E. (M)

Kinnelon (NNJ-2)
Gaw, N. W. (M)

Lake Hiawatha (NNJ-2)
Bremer, H. A. (VA)
Pettijohn, C. L. (M)
Rosenbusch, F. (A)
Wade, R. J. (M)

Lake Parsippany (NNJ-2)
Hughes, T. A. (M)
Nasto, S. N. J. (A)

Lake Pine (PHI-3)
Gavinski, V. A. (M)

Lakewood (NY-M-2)
Bell, J. (A)
La Cava, E. (A)

Laurel Springs (PHI-3)
Coffey, E. W. (M)
Smith, W. J. (A)

Laurelton (NY-M-2)
Kasper, H. W. (A)
Vorwerk, F. A. (A)

Lawrenceville (PRI-2)
Kihn, H. (SM)
Olive, G. A. (M)
Snedeker, E. K., Jr. (M)

Lebanon (PRI-2)
Mortimer, A. J. (M)
Schooley, R. W., Jr. (M)

Leonia (NNJ-2)
Brown, C. B. (SM)
Burger, F. J. (A)
Christie, F. W. (M)
Dietsch, C. G. (SM)
Grube, W. O. (M)
Kennedy, T. R., Jr. (SM)
Kerman, M. (A)
Moglia, A. B. (A)

Lincoln Park (NNJ-2)
Quinlan, D. E. (A)

Lincroft (NY-M-2)
Bawden, H. G. (M)
Novick, W. (M)
Sher, H. T. (M)

Linden (NNJ-2)
Braun, L. (A)
Garshelis, I. J. (A)
Genser, M. (A)
Gladden, C. J. (A)
Goldstein, M. I. (A)
Jordan, C. J. (M)
Levin, R. M. (A)
Meyer, S. F. (M)
Poarch, M. F. (M)
Redd, T. M. (M)
Riley, G. B. (SM)
Tkach, G. D. (M)
Turner, C. R. (M)
Wexler, B. (A)

Lindenwold (PHI-3)
Scott, P. B. (M)

Little Falls (NNJ-2)
Bluhm, R. W. (A)
Bondy, J. O. (A)
De Ryder, H. (VA)
Edwards, R. A. (M)
Huettner, O. A. (M)
Nord, H. H. (M)
Pacini, H. P. (M)
Talamini, A., Jr. (SM)
Thiergartner, G. J. (A)
Turkheimer, P. M. (M)

Little Silver (NY-M-2)
Borgeson, C. A. (SM)
Bracken, J. R. (M)
Brueckmann, H. L. (F)
Butler, H. (M)
Craig, L. H. (SM)
Fox, K. H. (SM)
Garoff, K. (M)
Goldsmith, B. M. (SM)
Griffiths, R. J. (SM)
Havel, J. M. (M)
Huebner, D. L. (M)
Jensen, A. M. (M)
King, H. D. (SM)
Klenk, L. M. (SM)
Krevsky, S. (SM)
Lowry, L. R. (SM)
Mack, A. (M)
Miller, L. (SM)
Mond, L. I. (M)
Morris, M. M. (SM)
Paschetto, E. J. (M)
Pick, L. A. (M)
Pollock, D. (M)
Poteet, D. P. (VA)
Sharp, C. E. (SM)
Shive, S. L. (SM)

Livingston (NNJ-2)
Augenblick, H. A. (M)
Bishop, J. B. (SM)
Bogner, I. (SM)
Bystrycky, W. (M)
Cunningham, T. M. (M)
Dorros, I. (M)
Feinstein, J. (M)
Galanty, H. (A)
Gallo, J. E. (SM)
Hatch, R. W. (M)
Hetherington, R. W. (A)
Hoeh, F. W. (M)
Hoerner, E. F. (M)
Houghton, H. V., Jr. (M)
Jandoli, L. R. (M)
Kafalas C. (M)
King, J. H., Jr. (M)
Kronacher, G. (SM)
Kulik, V. A. (M)
Markosian, V. (SM)
Mawhinney, D. D. (M)
Mennie, J. H. (M)
Newman, L. (A)
Nordlin, H. G. (SM)
Normando, N. J. (M)
Ost, S. B. (M)
Plouffe, R. L., Jr. (SM)
Post, D. B. (M)
Prawdzik, C. A. (M)
Safford, F. J. (SM)
Sanger, D. M. (M)
Steinhoff, R. (M)
Stinehelfer, H. E., Sr. (M)
Treuhaft, M. A. (SM)
Ussery, P. W. (M)
Vadersen, C. W. (M)
Zacharais, E. M., Jr. (M)

Locust (NY-M-2)
Massell, E. (SM)

Lodi (NNJ-2)
De Troy, B. A. (A)
Doniger, J. (M)
Gage, L. W. (A)
Glacken, R. E. (A)
Meyer, R. W. (M)
Sidari, P. J. (A)
Thompson, W. T. (M)
Weidman, B. (A)

Long Branch (NY-M-2)
Ackerman, H. I. (M)
Adamson, A. L. (SM)
Allen, J. A. (M)
Balton, I. A. (M)
Barr, H. (M)
Berman, G. (M)
Brown, A. (SM)
Caldwell, W. C. (SM)
Chernow, M. (M)
Christianson, L. F. (SM)
Coffin, W. W. (A)
Conroy, T. R. (M)
Dove, D. E. (M)
Durgin, T. R. (A)
Dwin, D. (A)
Gelernter, B. (M)
Greenspan, S. (M)
Grubman, S. (M)
Gubin, L. L. (A)
Inslerman, H. E. (M)
Kardauskas, E. (M)
Kravitz, M. L. (M)
Marsh, C. J. (M)
Martinson, F. L. (SM)
Meijer, R. R. (SM)
Meyers, M. M. (A)
Perlman, S. (SM)
Rauffer, W. M. (A)
Reder, F. H. (A)
Ross, P. (M)
Sacks, F. A. (A)
Schwab, D. (M)
Silberman, A. (M)
Silva, A. A. (M)
Stuart, W. D. (M)
Swan, R. A. (A)
Tetley, W. H. (M)
Weinstock, M. (A)

Long Valley (NNJ-2)
Fessler, W. H. (M)

Lumberton (PHI-3)
Gray, R. K. (A)

Lyndhurst (NNJ-2)
Di Stadio, D. (M)
Domanico, P. T. (M)
Friberg, V. (A)
Horbach, S. (M)
Kelmis, K. J. (A)
La Medica, K. O. (A)
Robinson, G. D. (A)
Rucki, D. H. (M)

Madison (NNJ-2)
Alexander, E. J. (M)
Aster, A. K. (M)
Barclay, J. C. (M)
Barney, H. L. (SM)
Cadden, W. J. (M)
Carter, H. T. (SM)
Coultas, R. A. (A)
D'Asaro, L. A. (M)
Diederich, P. A. (M)
Dimock, P. V. (SM)
Elcock, G. C. (A)
Ellis, B. T., Jr. (SM)
Grantges, R. F. (A)
Gross, F. J. (M)
Hartzell, J. W. (M)
Hofmockel, D. L. (A)
Howard, E. J. (SM)
Lanford, L. D. (A)
Livera, A. L. (M)
Lundin, J. A. (M)
Mearns, A. B. (M)
Melville, J. R. (A)
Neely, L. E. (M)
Neunzig, R. C. (A)
Ossanna, J. F., Jr. (M)
Oster, F. J. (M)
Phillips, W. E., Jr. (SM)
Reed, J. F., Jr. (M)
Roetken, A. A. (F)
Ross, A. T. (SM)
Ruckelshaus, J. G. (SM)
Schwarz, G. R. (M)
Skellett, A. M. (F)
Smith, J. W. (SM)
Stewart, J. B. (M)
Strandt, E. R. (M)
Swain, R. G. (M)
Taylor, C. D. (M)
Thompson, C. F. (A)
Vogelsong, J. H. (M)
Weppler, H. E. (M)
Whitney, W. (SM)
Wilson, W. F. (M)

Magnolia (PHI-3)
Lawton, R. S. (M)

Mahwah (NNJ-2)
Constantine, A. (A)
Constantine, P. M. (A)
Humphrey, R. M. (A)
Sielski, A. T. (M)

Manahawkin (NY-M-2)
Taylor, J. W. (A)

Manasquan (NY-M-2)
Cline, D. E. (M)
May, M. M. (M)
Gibbons, D. R. (M)
Teetsel, W. P. (M)

Maple Shade (PHI-3)
Abeyta, I. (M)
Hoover, E. W. (M)
Matonak, L. A. (A)
Morgan, W. L. (A)
Murphy, J. J. (M)
Naubereit, H. (M)
O'Donnell, J. J. (M)
Parmer, M. E. (M)
Ramsell, J. L. (M)
Sable, J. D. (M)
Singleback, G. W. (A)
Small, H. E. (A)
Sommer, W. G. (M)
Twinam, J. R. (A)

Maplewood (NNJ-2)
Barkley, H. F. (M)
Borden, D. C. (M)
Bown, R. (F)
Cohen, D. (M)
Curry, T. F. (M)
Dickey, D. W. (SM)
Fromer, M. (M)
Gardner, P. S. (A)
Halstead, W. K. (SM)
Hankinson, F. K. (A)
Hazeltine, A. L. (F)
Helfrich, J. H. (M)
Humphrey, H. C. (M)
Mayer, J. H. (A)
Murphy, W. F., Jr. (M)
Oswald, A. A. (F)
Prosser, T. C. (A)
Pruden, H. M. (SM)
Schulz, W. J. (A)
Sherman, A. E., Jr. (A)
Sippach, F. W., Jr. (A)
Strieby, M. E. (SM)
Vance, H. C. (SM)
Wallenstein, J. P. (M)
Wilhelm, J. F. (SM)
Youngstrom, N. C. (M)

Margate City (PHI-3)
Thron, B. K. (M)

Marlboro (NY-M-2)
Bernard, J. L., Jr. (VA)
Hindin, A. (A)

Marlton (PHI-3)
Cochran, S. W. (SM)
Fulroth, W. H. (M)
Kentner, C. D. (M)
Shaffer, R. C. (M)
Thowless, E. A. (A)

Martinsville (PRI-2)
Bethke, J. R. (A)

Masonville (PHI-3)
Leeser, R. H. (SM)

Matawan (NY-M-2)
Kibler, L. U. (M)
Ronson, H. T. (A)

Maywood (NNJ-2)
Babcock, W. E. (SM)
Fichtl, R. R. (A)
Halpern, E. L. (M)
Kochler, J. A. (M)
Savisaar, A. (M)
Seibert, J. L. (SM)
Shapiro, S. (A)

McGuire AFB (PRI-2)
Bonselgneur, P. J., Jr. (A)
Clarke, D. R. (A)

Medford (PHI-3)
Hess, W. J. (A)
Malvin, M. A. (A)
Weise, D. S. (M)

Medford Lakes (PHI-3)
Baldwin, H. A. (M)
Cichon, H. P. (M)
Frazier, R. M. (M)
Liddle, R. W., Jr. (A)
McCoy, J. W. (A)

Mendham (NNJ-2)
Brooks, R. E. (M)
Lewis, W. D. (F)
Murray, J. L. (M)
Ong, F. C. (SM)
Pocius, C. F. (A)
Saltus, G. E. (A)
Wilder, K. T. (M)
Winternitz, T. W. (M)

Mercerville (PRI-2)
Sowiak, M. M. (M)

Merchantville (PHI-3)
Alexander, J. R. (A)
Andrews, D. R. (M)
Ankenbrandt, F. L. (F)
Barkow, W. H. (A)
Brown, I. (M)
Cafaro, J. A. (M)
Carey, G. R. (M)
Combellack, E. M. (M)

Coston, H. E. (SM)
Cubert, J. S. (A)
Darling, W. (M)
Deal, H. B. (SM)
Dordick, H. S. (M)
Falvey, T. L., Jr. (M)
Fell, W. F. (M)
Franks, T. A. (M)
Gainey, L. L. (M)
Gallo, P. (SM)
Gaynor, E. (SM)
Gewant, S. (SM)
Gihring, H. E. (SM)
Gilmore, W. C. (A)
Goldman, L., Jr. (M)
Graham, R., Jr. (SM)
Grim, E. D. (M)
Hamm, N. G. (SM)
Hobbs, C. A., Jr. (M)
Hoger, D. T. (A)
Hopkins, A. R. (SM)
Hoyt, C. W. (SM)
Keller, E. W. (M)
Kimmel, J. (M)
Lappin, L. S. (SM)
Law, C. K. (SM)
Lawler, J. J. (A)
Lawrence, W. L. (VA)
Layer, J. H. (A)
Lending, R. D. (A)
Lewis, E. S. (A)
Llewellyn, A. D. (M)
Luther, A. C., Jr. (M)
Marsh, D. R. (M)
McKinney, J. G. (M)
McKinney, R. S. (A)
Miller, J. P. (VA)
Mittleiman, W. (M)
Musto, W. C. (M)
Oman, N. J. (M)
Orr, J. R. (M)
Patterson, E. B. (SM)
Peck, C. D. (SM)
Pendred, C. R. (M)
Quinn, W. H. (M)
Reese, J. S. (VA)
Richter, R. (M)
Sanborn, J. W. (SM)
Schach, S. (A)
Schwartz, A. J. (M)
Shepherd, R. C. (A)
Sheppard, W. H. (A)
Smyton, S. A. (A)
Stokes, I. (SM)
Story, T. H. (SM)
Swierczak, P. C. (SM)
Thompson, L. E. (F)
Uhland, J. C. (M)
Vonderschmitt, B. V. (A)
Warren, M. V. (A)
Washburn, E. M. (SM)
Williamson, J. V. (A)
Young, J. E. (SM)

Metuchen (PRI-2)
Aderente, A. A. (M)
Bernstein, A. L. (A)
Brereton, C. H. (SM)
Cook, R. W. (M)
Downie, D. E. (M)
Dranetz, A. (M)
Ford, R. W. (M)
Ginsberg, L. H. (SM)
Grill, C. (A)
Hautzik, R. M. (SM)
Heffron, C. B. (M)
Hellstrom, M. J. (A)
Hensperger, E. S. (M)
Kasner, E. (M)
Kingsford-Smith, C. A. (M)
Kmosko, J. A. (A)
Kornetz, N. S. (SM)
Larson, G. C. (SM)
Lee, H. C. (M)
Lemelson, J. H. (A)
Lempert, I. E. (M)
Lerner, A. M. (M)
Ley, G. S. (SM)
MacDonald, A. F. (SM)
Mathews, R. H. G. (SM)
Mazur, S. (M)
McClane, C. T. (M)
Russell, G. H. (M)
Salaman, R. G., Jr. (A)
Sampson, F. A. (A)
Scarpa, T. J. (A)
Scheer, F. H. (SM)
Schiffmayer, G. F. (M)
Schofield, C. R. (A)
Sienkiewicz, L. J. (M)
Sillman, D. (SM)
Staffin, R. (A)
Thomas, D. G. (M)
Toft, H. L. (M)
Wasserman, J. (A)
Weaver, B. M. (A)
Welkowitz, W. (M)
Whitney, G. H. (A)

Middlesex (PRI-2)
Guerino, M. (M)
King, M. L. (A)
Schreiber, O. P. (M)
Warren, R. E. (A)

Middletown (NY-M-2)
Baumann, D. A. (A)
Brenner, M. M. (M)
Hayes, F. A. (A)
Keen, H. J. (A)
Kerr, S. A. (M)
Luebbert, W. F. (SM)
Martin, J. E. (M)
Mikkelsen, W. R. (A)
Miller, S. E. (F)
Stanley, A. M. (M)
Wyman, J. H. (SM)

Middletown Township (NNJ-2)
Allen, M. R. (A)

Midland Park (NNJ-2)
Bertram, H. A. (A)
Brophy, W. T. (A)
Ellison, B. (M)
Solms, S. J. (M)
Swanson, V. D. (A)

Millburn (NNJ-2)
Bailey, A. (F)
Freeman, R. H. (A)
Higgins, W. H. C. (SM)
Johnson, J. B. (F)
Maurushat, J., Jr. (M)
Mazer, W. M. (M)
Morris, R. M. (F)
Nyquist, H. (F)
Shackleton, S. P. (SM)

Millington (NNJ-2)
Alexander, A. A. (M)
Bodmer, M. G. (M)
Boschen, A. C. (M)
Dettman, M. C. (M)
Drenick, R. (SM)
Frost, H. B. (M)
Harrison, C. W. (M)
James, G. W. (M)
Morelock, J. (SM)
Schwenker, J. E. (M)

Monmouth Beach (NY-M-2)
Menzel, H. W. (A)

Montclair (NNJ-2)
Baker, C. I. (SM)
Bibbins, L. L. (A)
Bradley, J. L. (A)
Busignies, H. (F)
Crombie, K. F. (A)
Digrindakis, M. (M)
Dooley, M. N. (M)
Du Bois, J. H. (SM)
Dulac, J. P. P. (M)
Freeman, L. C. (M)
Fu, C. (A)
Gage, W. M. (A)
Goodfriend, L. S. (SM)
Harmon, H. D. (M)
Haynes, H. S. (M)
Heising, W. P. (M)
Hooson, R. W. (A)
Jones, D. M. (A)
Josephson, P. R. (A)
Kauffman, C. W. (M)
Kirchner, K. F. (SM)
Lane, F. A. (M)
Leighton, H. W. (M)
Maginnis, W. P. (SM)
Nuttall, A. F. (A)
Organ, W. H. (SM)
Payne, M. P. (SM)
Peck, J. L. (M)
Razdow, A. (M)
Richardson, A. L. (A)
Rose, F. C. (M)
Schwartz, S. L. (M)
Seipel, A. J. (M)
Sprague, V. G. (M)
Steinbrecher, E. E. (M)
Thomas, H. E. (SM)
Townsend, R. L. (A)
Trackman, J. C. (M)
Vosburgh, M. C. (SM)
Wolff, F. M. (M)
Yamagami, Y. (M)

Montvale (NNJ-2)
Corcoran, D. G. (M)
Hoyns, G. W., Jr. (A)
Taylor, H., Jr. (A)

Montville (NNJ-2)
Atwood, H. Jr. (M)
Griffin, W. F. (SM)
Higgins, L. A. (A)
Rathjen, P. (M)

Moonachie (NNJ-2)
Barnes, D. B. (M)
Brown, C. S. (M)
Mason, H. J., Jr. (A)

Moorestown (PHI-3)
Alexander, W. R. (M)
Anderson, W. G. (A)
Andros, L. R. (A)
Baker, H. F. (M)
Baker, R. H. (SM)
Ballentine, E. C. (SM)
Breitwieser, G. F., Jr. (SM)
Brelsford, H. A. (SM)
Brough, J. R. (SM)
Brown, E. R., Jr. (M)
Bucher, T. T. N. (M)
Bushnell, R. H. (M)
Colby, N. C. (M)
Corum, D. R. (M)
Cox, A. L. (A)
Curtin, W. A. (M)
Dahms, D. F. (M)
Davis, R. S. (A)
Duszak, H. (M)
Fischbeck, K. H. (A)
Fisher, R. M. (A)
Foley, A. A. (A)
Foster, J. A. (M)
Gibo, E. (A)
Gillespie, H. C. (M)
Graham, M. L. (SM)
Greene, A. H. (M)
Greenwood, H. T., III (SM)
Hadlock, W. O. (SM)
Hammel, D. G. (M)
Hanft, H. (M)
Hannan, W. J. (M)
Hartnett, E. J. (M)
Hawley, M. E. (SM)
Herbst, P. J. (F)
Hinckley, R. H. (SM)
Holmes, D. B. (SM)
Howery, R. W. (M)
Hughes, C. J. (M)
Ireland, F. H. (SM)
Jackson, A. (A)
Jacobs, L. (M)
Jacobs, R. M. (M)
Jose, R. S. (M)
Kitchens, L. E. (M)
Korman, N. I. (F)
Kroupa, H. F. (M)
Ladof, L. G. (SM)
Lewis, W. P. (M)
Lindsay, J. E. (M)
Macqueene, P. H. (SM)
McCall, E. G., Jr. (M)
McCulley, J. M. (A)
Mertens, L. E. (A)
Metzger, G. V. (M)
Mills, H. J. (M)
Morrison, W. C. (SM)
Nagle, J. J. (M)
Nishino, H. H. (SM)
North, G. R. (A)
Paiss, M. H. (SM)
Palester, J. (SM)
Palm, K. E. (SM)
Palmer, J. B., Jr. (M)
Perecinic, W. S. (M)
Poch, W. J. (F)
Porter, J. W. (M)
Price, J. F. (M)
Rawdin, E. (A)
Ray, R. H. (M)
Renfrow, R. J. (M)
Rettenmeyer, F. X. (F)
Robinson, J. E. (M)
Rodman, M. D. (M)
Rulifson, R. R. (M)
Schmit, D. F. (F)
Sevian, E. A. (M)
Sheeder, A. M. (A)
Sherman, S. M. (SM)
Smith, R. M. (SM)
Snyder, R. L. (SM)
Sonntag, W. A. (M)
Stevens, R. W. (M)
Taenzer, E. (SM)
Tall, M. M. (M)
Taylor, T., Jr. (A)
Teach, W. L. (SM)
Vance, D. H. (M)
Vick-Roy, J. W. (M)
Wege, H. R. (SM)
Wheeler, G. M., Jr. (M)
Whisonant, J. T. (SM)
Whitman, C. L. (A)
Williams, E. A. (M)
Wills, W. P. (SM)
Wing, D. H. (M)

Morganville (NY-M-2)
Lavoie, S. D. (A)

Morris Plains (NNJ-2)
Andrews, R. J. (M)
Benz, B. D. (M)
Brown, V. L. (M)
Burkhart, W. H. (M)
Campbell, M. E. (SM)
Dougherty, H. J. (M)
Freeman, W. C., Jr. (SM)
Geils, J. W. (M)
Gibbon, J. (M)
Gretsch, W. R. (M)
Iderstine, A. V. (SM)
Johannesen, J. D. (M)
La Manna, R. J. (M)
Oliwa, W. S. (A)
Raddin, F. M. (A)
Reynolds, R. B. (M)
Robertson, J. P. (M)
Stiles, M. G. (M)
Townley, R. C. (M)
Underwood, M. D. (A)
Vreeland, J. B. (A)
Waldhauer, F. D. (M)
Wilde, A. E., Jr. (SM)

Morristown (NNJ-2)
Bell, W. L. (M)
Caprarola, L. J. (A)
Cohen, R. M. (SM)
Cooper, D. I. (SM)
Crowell, M. H. (M)
Davis, C. G. (M)
Diamond, D. M. (M)
Ehrlich, N. (SM)
Evans, P. H. (F)
Filmer, W. L. (M)
Gerth, J. H. (SM)
Githens, J. A. (M)
Goldfarb, S. (M)
Greene, J. F. (A)
Gulden, W. W. (M)
Hagelbarger, D. (M)
Hall, W. G. (M)
Hammer, H. (M)
Harkless, E. T. (M)
Harris, J. R. (M)
Hotopp, K. A. (A)
Howard, W. A. (M)
Huyck, W. J., Jr. (M)
Irvine, M. M. (M)
Jacobs, O. B. (M)
Jewell, A. G. (A)
Kellogg, W. M. (SM)
Kelly, M. J. (A)
Klenzle, H. G. (A)
Kingsland, D. H., Jr. (A)
Lancia, T. (M)
Larisch, R. W. (M)
Lennon, F. W. (A)
Levinson, J. (SM)
Lunney, R. E. (M)
May, C. J., Jr. (M)
Mayo, J. S. (A)
McDaniel, W. J. (M)
Meltzler, A. H. (M)
Miessner, B. F. (F)
Mohr, A. E. (M)
Morrison, H. (SM)
Mowery, V. O. (A)
Okean, H. C. (M)
Peskin, E. (SM)
Peterson, R. B. (M)
Poage, J. F. (M)
Poole, N. K. (A)
Potter, R. K. (F)
Priebe, H. F., Jr. (A)
Roxberry, R. C. (M)
Shaw, H. M. (A)
Slomski, J. J. (M)
Smith, G. W., Jr. (A)
Staubel, E. P. (M)
Sund, E. T. (M)
Spollen, F. J. (M)
Taylor, F. F. (M)
Tikoian, P. (A)
Timm, W. C. (A)
Torpey, G. J. (A)
Tracy, J. E. (M)
Unger, S. H. (M)
Van Beuren, J. M. (A)
Voeller, R. L. (M)
Wakefield, P. R. (A)
Willett, R. J. (A)

Mountain Lakes (NNJ-2)
Amos, B. (M)
Armstrong, J. H. (M)
Bareiss, M. (SM)
Beck, R. J. (M)
Bender, W. G. (M)
Black, W. L. (SM)
Dodington, S. H. M. (SM)
Doremus, J. A. (SM)
Gabel, W. (M)
Honnell, M. A. (SM)
Houck, H. W. (F)
Hughes, R. W. (SM)
Jackson, F. R., Jr. (SM)
Krist, H. K. (SM)
Leef, G. R. (M)
Marble, F. G. (SM)
Merriam, F. F. (SM)
Moore, W. C. (SM)
Naugle, R. B. (A)
Nordstrom, B. H. (SM)
Noyes, A., Jr. (SM)
Osterland, E. (SM)
Tyzzer, H. J. (SM)
Webster, F. D. (SM)
West, J. M. (SM)

Mountainside (NNJ-2)
Anderson, T. N. (SM)
Browne, G. W. (M)
Kniaziuk, M. (M)
Legendre, V. (M)
Vreeland, W. E. (A)
Wagner, S. J. (SM)

Mount Ephraim (PHI-3)
Daiber, E. M. (A)
Lavender, W. E. (M)
Taylor, J. M., Sr. (M)

Mount Freedom (NNJ-2)
Stockman, R. R. (M)

Mount Holly (PHI-3)
Chittick, D. R. (M)
Cooner, W. M. (A)
Cornell, J. A. (SM)
Custer, C. W. (M)
De Rose, J. F. (A)
Dressler, J. W. (M)
Fogelberg, A. E., Jr. (SM)
Goldberg, E. (A)
Gorman, J. (M)
Griffith, B. D. (M)
Guhn, D. K. (A)
Heyer, E. M. (A)
Hinchee, A. E. (A)
Johnson, J. E. (M)
Johnson, M. C. (M)
Kaden, G. (M)
Langelo, V. A. (A)
Million, J. W., Jr. (SM)
Pruitt, D. L. (SM)
Stepchiw, J. (A)
Sturm, F. L. (A)
Taylor, J. R. (A)
Tweet, B. O., Jr. (M)

Mullica Hill (PHI-3)
Siddall, W. J. (M)
Wright, T. O. (M)

Murray Hill (NNJ-2)
Aaron, M. R. (M)
Aaronson, D. (A)
Abbott, H. H. (SM)
Abraham, L. G. (F)
Abraham, R. P. (M)
Affel, H. A. (F)
Allen, T. E. (SM)
Andreatch, P. (A)
Andrews, F. T., Jr. (M)
Andrews, J. L. (A)
Autrey, S. W. (A)
Badgley, R. H. (SM)
Baldwin, G. L. (SM)
Baldwin, M. W., Jr. (F)
Bangert, J. T. (SM)
Barnett, W. T. (M)
Barstow, J. M. (SM)
Bashkow, T. R. (M)
Becker, F. K. (SM)
Becker, G. E. (SM)
Bennett, W. R. (F)
Bishop, W. M. (A)
Bissell, H. M. (A)
Black, D. M. (SM)
Bleisch, G. W. (M)
Bode, H. W. (F)
Bollwage, F. C. (A)
Bomba, J. S. (A)
Bowker, M. W. (A)
Braga, F. J. (M)
Bridges, T. J. (M)
Brown, A. B., Jr. (SM)
Bullington, K. (F)
Bullock, D. B. (M)
Burford, T. M. (M)
Busch, K. J. (A)
Butterly, P. J. (M)
Carbrey, R. L. (M)
Carlson, D. E. (M)
Chapman, R. C., Jr. (A)
Chisholm, D. A. (A)
Church, S. E. (M)
Ciccolella, D. F. (SM)
Cleveland, H. M. (M)
Cocker, J. T. (M)
Cook, J. S. (M)
Cornell, W. A. (M)
Crowley, T. H. (M)
Cutler, C. C. (F)
Dacey, G. C. (SM)
Daggett, E. H. (A)
Darlington, S. (F)
David, E. E., Jr. (SM)
Davis, M. G. (M)
Dayem, A. H. (A)
Dennis, F. R. (M)
Depp, W. A. (SM)
Dickieson, A. C. (SM)
Doba, S., Jr. (SM)
Dollard, P. M. (M)
Drazy, E. J. (M)
Drexler, J. (M)
Dubosky, D. D. (A)
Durkee, A. L. (M)
Ebbe, G. L. (M)
Eglin, J. M. (M)
Ehrbar, R. D. (SM)
Elmendorf, C. H. (SM)
Farney, G. K. (M)
Fay, C. E. (F)
Feher, G. (A)
Felker, J. H. (SM)
Ferrell, E. B. (F)
Finch, T. R. (M)
Fischer, H. B. (SM)
Fisher, H. J. (SM)
Fisk, J. B. (F)
Flanagan, J. L. (M)
Flegal, J. R. (SM)
Fletcher, R. C. (SM)
Fraser, J. M. (SM)
Fulmer, R. J. (M)
Gannett, D. K. (SM)
Gewartowski, J. W. (M)
Giger, A. J. (SM)
Giguere, W. J. (M)
Glaser, J. L. (SM)
Glass, M. S. (SM)
Goldey, J. M. (M)
Goodale, W. D., Jr. (A)
Graham, R. E. (SM)
Graham, R. S. (SM)
Gray, M. C. (M)
Greenman, R. R. (M)
Grossman, A. J. (SM)
Gryb, R. M. (M)
Haas, H. H. (M)
Hamming, R. W. (A)
Harker, K. J. (A)
Hartman, C. D. (VA)
Harvey, F. K. (M)
Hathaway, J. W. (A)
Hefele, J. R. (SM)
Hempstead, C. F. (M)
Herr, F. J. (M)
Hines, M. E. (M)
Hirsch, A. E., Jr. (M)
Hohmann, L. A., Jr. (M)
Holzman, R. E. (M)
Hopkins, H. F. (SM)
Hornbeck, J. A. (SM)
Horton, A. W., Jr. (SM)
Hudack, J. M. (SM)
Ingram, S. B. (SM)
Irvin, H. D. (SM)
Israel, J. O. (SM)
Iwersen, J. E. (M)
Jaeger, R. P. (SM)
James, D. B. (M)
Jensen, A. G. (F)
Jepson, M. R. (A)
Johanson, A. E. (M)
Joseph, D. F. (M)
Julesz, B. (M)
Jutson, R. P. T. (SM)
Kaenel, R. A. (M)
Kamentsky, L. A. (M)
Kammerer, F. W. (VA)
Karlin, J. E. (M)
Karnaugh, M. (M)
Keith, C. R. (SM)
Keller, W. H. (M)
Kelley, R. A. (M)
Kerney, I. (SM)
Kerata, L. G. (SM)
Kimme, E. G. (M)
Kinariwala, B. K. (M)
Kinsburg, B. J. (M)
Kinzer, J. P. (SM)
Kirkpatrick, W. E. (SM)
Kolding, A. R. (M)
Kompfner, R. (F)
Kretzmer, E. R. (SM)
Kummer, O. (SM)
Lambert, D. W. (M)
Larsen, J. (SM)
Lebert, A. W. (M)
Leppert, J. H. (M)
Levin, S. A. (SM)
Lewis, H. A. (SM)
Light, T. B. (M)
Logan, B. F., Jr. (M)
Loman, G. T. (M)
Long, N. G. (M)
Looney, D. H. (M)
Louis, R. A. (M)
Mackintosh, I. M. (M)
MacPherson, D. H. (SM)
MacPherson, R. B. (A)
Madsen, R. L. (M)
Mallery, P. (M)
Manasse, F. K. (M)
Manley, J. M. (SM)
Mason, W. P. (F)
Mathews, M. V. (A)
Matlack, R. C. (A)
Maunsell, H. I. G. (M)
McDavitt, M. B. (SM)
McDonald, H. S. (M)
McEntee, J. A., Jr. (M)
McGuigan, J. H. (M)
McKay, K. G. (SM)
McLeod, B. A. (A)
McMillan, B. (SM)
McNally, J. O. (F)
Meacham, L. A. (F)
Mehring, A. C. (M)
Mendenhall, H. E. (SM)
Merrill, J. L., Jr. (M)
Michaels, S. E. (SM)
Miedema, H. (SM)
Miller, R. A. (M)
Millman, S. (SM)
Misenheimer, H. N. (SM)
Mitchell, W. (M)
Moll, J. (M)
Moore, E. F. (M)
Moore, G. E. (M)

Morgan, S. P. (SM)
Morrison, B. A. (M)
Morton, J. A. (F)
Mottram, E. T. (SM)
Mounts, F. W. (A)
Myers, P. B. (M)
Newhall, E. E. (A)
Nielsen, G., Jr. (M)
Noll, J. C. (SM)
Norton, E. L. (SM)
Norwine, A. C. (SM)
Packard, G. N. (M)
Pardee, S. (M)
Perry, A. D., Jr. (M)
Pierce, J. R. (F)
Pietenpol, W. J. (M)
Pyle, E. L. (M)
Raisbeck, G. (SM)
Raleigh, J. T. (M)
Rea, W. T. (SM)
Reiling, P. A. (VA)
Rice, S. O. (F)
Riesz, R. R. (SM)
Rigrod, W. W. (M)
Riley, R. M. (M)
Roberts, L. R. (M)
Robertson, G. H. (A)
Rose, A. C. (A)
Rosenthal, C. W. (M)
Rowen, J. H. (SM)
Runyon, J. P. (M)
Rupprecht, E. G. (M)
Ryder, E. J. (SM)
Ryder, R. M. (F)
Saari, V. R. (A)
Sauseng, O. G. (A)
Schelkunoff, S. A. (F)
Schimpf, L. G. (SM)
Schneider, H. A. (M)
Schneider, P. (M)
Schott, L. O. (A)
Sears, R. W. (SM)
Segers, R. G. (M)
Shaffer, R. A. (A)
Shapiro, E. B. (A)
Sharp, W. O. (M)
Shive, J. N. (SM)
Simkins, Q. W. (A)
Sinsel, P. W. (A)
Siepian, D. (M)
Sionczewski, T. (SM)
Spencer, A. E., Jr. (M)
Spencer, E. G. (SM)
Steenaart, W. J. D. (M)
Stevens, D. R. (M)
Stickle, R. L. (A)
Stillwell, A. L. (SM)
Stone, H. A., Jr. (SM)
Stone, R. C., Jr. (M)
Straube, H. M. (SM)
Sumner, E. E. (SM)
Sunde, E. D. (SM)
Szekely, Z. (A)
Thatcher, T. W., Jr. (M)
Thomas, D. E. (SM)
Thompson, G. S. (A)
Thurston, R. N. (A)
Tien, P. K. (M)
Tilley, J. H. (M)
Title, R. S. (M)
Townsend, M. A. (SM)
Toy, W. N. (M)
Trofatter, K. F. (A)
Tucker, R. S. (SM)
Uhlir, A., Jr. (A)
Vandigriff, J. E. (M)
Van Haste, W. (SM)
Varnerin, L. J., Jr. (SM)
Veazie, E. A. (SM)
Von Roesgen, C. A. (M)
Weller, D. C. (SM)
Wentz, J. F. (SM)
Wertz, H. S. (SM)
Wetzel, L. B. (M)
Wheeler, G. W. (SM)
White, L. D. (M)
Whitehead, H. G. (M)
Wickliffe, P. R., Jr. (M)
Williams, O. L. (A)
Williams, R. D. (M)
Wilson, J. R. (F)
Winnicky, A. P. (SM)
Winter, H. F. (M)
Winter, R. A. (M)
Wise, R. O. (SM)
Wolfe, R. M. (M)
Wolman, E. (M)
Wood, I. E. (M)
Yaeger, R. E. (A)
Young, C. H. (SM)

Neptune (NY-M-2)
Ackerman, J. C. (M)
Alexander, L. D. (A)
Armstrong, R. W. (SM)
Bauer, S. J. (A)
Daniels, T. E. (M)
Danko, S. F. (M)
De Paola, G. E. (A)
Evers, J. T. (M)
Gale, R. J. (A)
Gordon, F., Jr. (M)
Hannon, L. (A)
Heath, W. H. (M)
Kegel, R. A. (M)
Kramer, N. (A)
Lehner, L. L. (M)
Lipetz, N. (M)
Matthei, W. G. (M)
Pokorny, G. E. (A)
Rush, C. J. (M)
Ruzgis, A. G. (M)
Speaker, B. (A)
Swingle, D. M. (M)
Warner, F. N. (A)
Woodyard, O. C. (M)
Wu, H. H. (A)

Neptune City (NY-M-2)
Adams, V. F., Jr. (A)
Kisko, R. P. (A)

Neshanic (PRI-2)
Buehler, R. K. (M)

Neshanic Station (PRI-2)
Barnard, D. F., Jr. (M)

Netcong (NNJ-2)
Reichard, W. C. (SM)

Newark (NNJ-2)
Ackerly, R. J. (A)
Acosta, F. B. (A)
Bagley, D. S. (M)
Barabutes, T. (A)
Barlow, J. P. (M)
Berger, J. (M)
Bizon, M. J. (A)
Blonder, I. S. (M)
Bortkiewicz, J. (A)
Boyson, C. V. (A)
Bremer, F. V. (SM)
Bricker, C. H. (A)
Brunje, R. M. (M)
Carluccio, J. (SM)
Carreon, D. G. (A)
Cerf, A. E. (A)
Clement, G. (A)
Cohen, H. (M)
Conway, W. H. (M)
Coppola, A. A. (M)
D'Agostini, D. (M)
D'Allegro, G. (A)
Dintenfass, J. (A)
Ellern, F. (M)
Fernandes, J. G. (A)
Fishman, S. (SM)
Forshay, D. W. (A)
Frank, A. (A)
Fressola, B. C. (A)
Furman, J. (M)
Gerardi, V. A. (M)
Gilbert, R. W. (M)
Giordano, A. F. (SM)
Glaseman, N. (A)
Glickman, M. N. (SM)
Goldberg, D. L. (A)
Golding, J. (A)
Gross, J. (A)
Halvorson, A. L. (M)
Heidrick, C. P. (M)
Helner, A. J. (M)
Holdman, M. (A)
Hooven, M. D. (SM)
Jalajas, A. A. (M)
Johnk, O., Jr. (A)
Jordan, C. A. (M)
Kalnitsky, F. (A)
Klein, M. (M)
Koppelon, R. (SM)
Kosonocky, W. F. (M)
Krauss, W. N. (M)
Kups, E. F. (SM)
Kwast, V. B. (M)
Lamb, F. X. (M)
La Verda, F. R. (M)
Lemeshka, M. B. (M)
Lender, A. (A)
Light, H. A. (M)
Manz, A. F. (M)
Matthews, T. N. (A)
McClelland, W. R. (A)
McCormick, D. A. (M)
Meier, W. L. (M)
Mellen, E. R. (SM)
Membury, P. J. (M)
Miller, J. H. (F)
Moore, E. P. (A)
Morgan, W. H. (A)
Olson, J. W. (M)
Pallett, H. E. (M)
Perna, P. J. (A)
Purdy, D. R. (M)
Ramsay, J. D. (M)
Ranger, R. H. (F)
Richardson, E. A. (M)
Rosenthal, M. S. (M)
Ross, P. L. (M)
Russell, F. A. (SM)
Scharkas, H. (M)
Shankle, S. B. (M)
Shaw, N. K. (M)
Silzer, V. (A)
Spengler, R. G. (M)
Steinkamp, W. H. (M)
Tiffin, C. M. (A)
Tongue, B. H. (M)
Uzunoglu, V. (M)
Walker, R. D. (M)
West, N. H. (M)
Wing, J. M. (M)
Wolfe, G. (SM)
Wolkstein, H. J. (A)
Youch, E. A. (M)
Zarbertski, E. I. (A)
Zlydak, V. J. (M)

New Brunswick (PRI-2)
Arntsen, A. P. (M)
Baumunk, J. F. (M)
Bohnstedt, C. E. (A)
Braun, M. (M)
Butenko, J. W. (A)
Cahill, R. M. (M)
Claypool, H. W. (A)
Dahlke, H. E. (A)
Della-Torre, E. (M)
Fich, S. (SM)
Frisch, J. A. (A)
Gowen, R. J. (M)
Haeseler, P. R. (M)
Hertz, K. L. (A)
Lebowitz, L. L. (M)
Meyerhoff, A. A. (M)
Potter, J. L. (F)
Rosenthal, L. (SM)
Rubin, A. (M)
Ruble, G. B. (M)
Siekanowicz, W. W. (M)
Sirkis, M. D. (A)
Thanos, H. (M)
Uphoff, E. C. (A)
Van Derveer, E. J. (M)

Newfoundland (NNJ-2)
Goebel, R. J. (M)

New Market (PRI-2)
Street, W. D. (M)

New Milford (NNJ-2)
Alexander, S. B. (M)
Ballin, R. C. (M)
Ewert, A. C. (M)
Franzel, L. H. (M)
Gardner, R. O. (M)
Hafemeister, E. F. (M)
Hammerich, H. A. (A)
Lang, A. H. (A)
Liucci, C. A. (A)
MacDermid, B. W. (A)
Olson, R. E. (M)
Phelps, R. B. (M)
Reich, P. J. (M)
Roth, H. (M)
Shaw, A. B. (M)
Shaw, W. (M)
Sokol, S. (A)
Taris, J. (M)
Thier, P. (M)
Umles, M. S. (A)

New Monmouth (NY-M-2)
Brehm, J. H. (M)

New Providence (NNJ-2)
Beaumont, W. H. (M)
Brown, H. E. (M)
Capranica, R. R. (M)
Griswold, D. M. (M)
Jordan, D. R. (M)
Keder, V. (M)
Kocan, J. (M)
Latter, R. F. (M)
Lee, E. B. (M)
Levenbach, G. J. (M)
Lindsay, M. H. A. (SM)
Malthaner, W. A. (SM)
Nielsen, E. G. (A)
O'Brien, J. A. (SM)
Poole, K. M. (A)
Sheetz, J. I. (A)
Simonds, R. E. (SM)
Welber, I. (M)

New Shrewsbury (NY-M-2)
Feehan, J. D. (M)
Govinsky, W. (A)
Nelson, M. (A)
Schallerer, J. W. (M)

Newton (NNJ-2)
Lamb, J. M. (A)
Langstroth, R. W. (A)
Langstroth, T. A. (A)

New Vernon (NNJ-2)
Clark, O. (SM)
D'Heedene, A. R. (SM)

Nixon (PRI-2)
Cameron, J. A. (M)
Farhi, S. (M)
Feder, E. I. (M)
Fisher, J. B. (A)
Gote, J. T. (M)
Neidig, K. E. (M)
Seley, E. L. (M)
Unger, R. J. (A)

Nixon Park (PRI-2)
Sable, A. A. (A)

North Arlington (NNJ-2)
Bruning, J. M. (M)
Gonzales, V. M. (M)
McAdams, B. (SM)

North Bergen (NNJ-2)
Assadourian, F. (SM)
Belland, E. N. (M)
Bowab, L. G. (M)
Cox, J. L. (M)
Decker, W. J. (M)
Feucht, R. E. (A)
Fullington, H. J. (A)
Genser, A. (A)
Harms, F. G. (A)
Heflich, G. B. (M)
Hollopeter, W. C. (M)
Horner, R. G. (M)
Kirsch, A. F. (M)
Nordman, E. G. (M)
Nordman, O. D. (M)
Perlis, H. J. (M)
Pizzigoni, A. (A)
Puente, J. G. (M)
Shahin, E. S. (A)
Sherman, S. (A)
Sherwood, H. R. (SM)
Solomon, S. M. (M)
Sparacio, F. J. (M)
Walowitz, H. L. (M)
Wolter, H. R. (M)

North Branch Depot (PRI-2)
Peldunas, A. P. (M)

North Brunswick (PRI-2)
Morris, M. J. (A)
Smith, B. (M)

North Caldwell (NNJ-2)
Adamson, A. A. (SM)
Gobat, A. R. (SM)
Grieg, D. D. (SM)
Moore, E. B. (SM)
Poff, J. K. (M)
Rennenkampf, L. J. (M)
Schneider, P. C. (A)
Siemens, R. H. (SM)
Smith, P. G. (A)
Sokolowski, E. M. (A)

North Long Branch (NY-M-2)
Fedak, J. F., Jr. (A)

North Plainfield (NNJ-2)
Beehler, J. (M)
Blicher, A. (SM)
Deeley, P. M. (SM)
Eshelman, C. R. (M)
Fels, L. (A)
Frank, R. A. (A)
Grover, A. C., Jr. (A)
Jaffe, H. (M)
Keane, J. B. (M)
Kettering, H. V. (M)
Ottobre, J. N. (M)
Pike, N. (A)
Quinlan, R. V. (M)
Vergon, T. F. (SM)
Wehof, H. (M)
Williams, A. D. (M)

Northvale (NNJ-2)
Ariessohn, E. R. (M)

Norwood (NNJ-2)
Brick, F. R., Jr. (SM)
Haas, K. A. (A)

Nutley (NNJ-2)
Adams, R. T. (SM)
Alexander, B. (M)
Beisel, F. A. (A)
Blanchard, R. J. (M)
Brandes, N. J. (A)
Brush, J. M. (M)
Capen, H. N. (SM)
Cater, J. R. (SM)
Clark, J. T., Jr. (A)
Clavier, A. G. (F)
Colin, R. I. (SM)
Comerci, F. A. (SM)
Conaway, D. W. (M)
Cookson, A. E. (SM)
Davis, R. C. (SM)
Dell'Acqua, L. (M)
De Maio, S. J. (M)
De Vany, B. V. (M)
De Witt, R. G. (M)
Ellis, R. (M)
Engelmann, H. F. (SM)
Feldman, J. (M)
Felsenheld, R. A. (M)
Finocchi, A. J. (M)
Girgus, S. D. (M)
Goldan, T. J. (A)
Gray, R. E. (M)
Groce, J. C. (SM)
Gronberg, H. C. (VA)
Happe, W. H., Jr. (M)
Harvey, J. B. (SM)
Himes, D. I. (M)
Hollis, R. P. (M)
Jeffers, N. L. (SM)
Kandoian, A. G. (F)
Kunkel, E. A., Jr. (M)
Liljegren, J. C. (M)
Lundburg, F. J. (SM)
Macalpine, W. W. (SM)
Mangolds, B. (M)
Marchese, T. J. (SM)
Masonson, M. (A)
McMullen, E. W. (A)
Miller, R. J. (A)
Mindes, B. M. (M)
Morris, A. E. (A)
Mount, E. (M)
Odess, L. R. (M)
Parker, E. J. (SM)
Place, H. (A)
Rogoff, M. (M)
Rubin, M. (A)
Rutherford, R. E. (SM)
Rutherford, R. E., Jr. (M)
Sattem, I. (M)
Schildknecht, R. O. (SM)
Schmidt, W. M. (M)
Schreiner, S. M. (SM)
Shames, J. (M)
Shapiro, O. (M)
Sichak, W. (SM)
Soukup, J. (SM)
Spahr, P. K., Jr. (M)
Steinberg, S. (M)
Stevens, F. J. (M)
Sudduth, W. B. (A)
Swinney, J. G. C., Jr. (SM)
Taplin, R. H. (M)
Van Vechten, R. K. (A)
Waer, R. R. (M)
Ware, P. M., Jr. (M)
Weber, F. J. (M)
West, C. B. (M)
White, H. R. (M)
Wickersham, W. H. (SM)
Wing, A. K., Jr. (F)
Wirth, C. H. (M)
Young, N. H. (SM)
Zablocki, H. S. (M)
Zaret, M. E. (SM)
Zeliff, R. J. (A)

Oakhurst (NY-M-2)
Whelan, C. D. (M)

Oakland (NNJ-2)
Cohan, L. (M)
Dzula, G. (M)
Edge, W. H. (M)
Hoffman, D. (SM)
Leopold, R. (SM)
McEwan, D. R. (A)
Noble, R. B. (M)
Thomas, G. N. (M)
Ubry, L. E., Jr. (M)
Zick, B. A. (A)

Oaklyn (PHI-3)
Brown, L. (A)
Christiansen, W. G. (A)
Cook, W. M. (A)
Endy, W. M. (A)
Forbes, E. J. (M)
Gerber, P. D. (M)
Giordano, R. L. (M)
Gore, E. M. (M)
Henderson, R. A. (SM)
Johnson, O. E. (A)
Klavens, N. I. (A)
Pappas, G. (M)
Putsrath, F. L. (A)
Rudolph, R. L. (M)
Scheldorf, R. D. (M)
Watts, E. R. (M)

Oak Ridge (NNJ-2)
Austad, H. (M)

Ocean City (PHI-3)
Schorsch, R. H. (M)

Oceanport (NY-M-2)
Bryan, J. F. (SM)
Davidson, G. G. (M)
Edgerton, R. D. (M)
Kiernan, D. R. (M)
Nylander, G. A. (M)
Pfaff, D. L. (M)
Pitzer, J. F. (M)
Sherburne, F. B. (A)
Stromberg, R. E. (M)
Turner, H. (SM)

Old Bridge (PRI-2)
Brown, I. A. (A)
Striednig, L. J. (M)
Woodruff, D. L. (A)

Old Tappan (NNJ-2)
Bass, S. D. (A)
Kelly, R. J. (A)

Oradell (NNJ-2)
Anthony, I. B. (M)
Brackett, H. H. (M)
Bruce, W. D. (A)
Canty, E. T. (M)
Levine, A. M. (SM)
Petkofsky, L. (M)
Podell, R. L. (A)

Orange (NNJ-2)
Abate, J. E. (M)
Boivin, P. B., Jr. (A)
Elgin, J. H. (M)
Gruenberg, H. S. (M)
Hardwick, F. (M)
Hart, O. P., Jr. (M)
Kahn, H. S. (A)
Lloyd, A. G. (A)
Masson, F. Y. (SM)
Maza, G. M. (M)
Pratt, H. J., Jr. (M)
Reiner, R. L. (A)
Shackelford, B. E. (F)
Sumpter, P. B. (M)
Suydam, C. H. (M)
Terris, I. (M)
Vaccaro, F. E. (M)
Yaeger, W. O. (A)

Oxford (NNJ-2)
Edson, J. O. (SM)

Packanack Lake (NNJ-2)
Fockler, W. G. (SM)
Lang, H. J. (M)
Mutz, H. R. (M)
Seergy, C. M. (M)
Wixson, F. C. (SM)

Palisade (NNJ-2)
Andrews, E. (M)
Rover, R. R., Jr. (M)

Palisades Park (NNJ-2)
Ackerman, B. F., Jr. (M)
Fassberg, M. (A)
Karn, E. W. (A)
Keller, E. F. (A)
Levine, O. W. (M)
Lima, T. F. (A)
Marks, G. J. (A)
Packer, S. S. (M)
Schmied, J. W. (M)
Takakjian, J. S. (A)

Palmyra (PHI-3)
Brewster, P. J. (M)
Ennis, F. J. (A)
Flacco, A. F. (A)
Foerster, W. (M)
Galton, E. B. (SM)
Hilbourn, C. L. (M)
Rammer, C. A. (M)
Ringer, H. N. (M)
Robinson, H. A. (SM)
Smith, W. I. (A)
Waring, J. W. (M)
Woodward, C. P. (SM)
Ye Dall, G. E. (SM)

Paramus (NNJ-2)
Ankenbrock, C. A. (A)
Bodeen, G. S. (SM)
Brown, T. G. (SM)
Campanale, A. J. (M)
Chalmers, W. G. (M)
Chanes, H. (M)
Compton, M. E., Jr. (M)
Deiss, E. W. (A)
De Vincent, J. (A)
Donaldson, W. G. (SM)
Evander, H. S. (SM)
Feller, M. (M)
Hague, R. Z. (A)
Hardy, O. C. (A)
Honeiser, V. P. (M)
Karz, A. R. (M)
Kashar, A. S. (A)
Kovarik, H. (A)
Kriss, C. J. (M)
Levin, M. S. (M)
Manoly, A. E. (M)
Neu, W. J. (M)
Petrina, R. J. (A)
Reed, S. I. (M)
Sakate, F. S. (M)
Sapiro, A. M. (M)
Schenkel, F. W. (A)
Schmidt, L. D. (M)
Stahl, P. D. (SM)
Taylor, R. G., Jr. (M)
Trager, B. L. (M)
Weber, G. A. (A)
Wehrlin, R. F. (A)
Werth, J. J. (M)
Wotton, R. C. (A)
Young, R. (M)
Zitovsky, S. A. (M)

Park Ridge (NNJ-2)
Murphy, A. W. (A)
Stansfield, F. H. (M)

Parlin (PRI-2)
Berkery, E. A. (A)
Panos, R. J. (A)
Pike, G. W. (A)
Rauth, R. G. (M)

Parsippany (NNJ-2)
Bliss, E. E. (A)
Dessent, J. E. (A)
Du Pont Darden, P. S. (M)
Goeller, L. F., Jr. (M)
Grenier, T. J. (M)
Heinly, W. A. (M)
Hendrickson, A. H. (M)
Janik, J., Jr. (A)
Kalish, H. M. (M)
Krause, C. K. (M)
Lawton, B. E. (M)
Mandzik, M. M. (M)
McMillan, D. N. (A)
Meola, R. R. (SM)
Stanton, S. W. (M)

Passaic (NNJ-2)
Backus, A. S. (A)
Bellis, H. M. (A)
Brussel, E. H. (M)
Campbell, D. R. (M)
Currier, P. J. (A)
De Bell, J. M., Jr. (M)
Goldstein, H. (M)
Gordon, M. J. (M)
Hair, G. R., Jr. (A)
Kratsch, P. H. (M)
Leinkram, C. Z. (M)
Lieberman, H. (A)
Masavage, I. R. (A)
Muench, W. H. (A)
Rosenthal, J. E. (SM)
Schumann, L. C. (A)
Seata, P. (A)
Sommermeyer, O. R. (A)
Stoj, F. R. (M)
Suszek, E. J. (A)
Wakeman, R. P. (SM)
Yu, Y. P. (M)
Zavoda, J. P. (M)

Paterson (NNJ-2)
Binneveld, H. A. J. (A)
Brino, J. A., Jr. (M)
Bruggeman, J. T. (M)
Butterworth, J. W. (SM)
Carlson, O. E. (M)
Cohen, M. R. (A)
Dehoney, R. J. (M)
Earnshaw, E. F., Jr. (M)
Ecklund, E. E. (SM)
Eckstein, N. A. (A)
Egan, T. R. (M)
Emaus, J. L. (SM)
Evans, N. L., Jr. (M)
Gold, M. (A)
Gregory, L. A., Jr. (A)
Janowsky, S. (M)
Kuehler, H. R. (M)
Levin, H. L. (A)
Lome, J. B. (M)
Malone, M. (M)
Pachuta, W. (A)
Papanou, D. S. (M)
Potash, J. (M)
Rich, P. A. (A)
Shapiro, F. J. (A)
Star, M. (M)
Stern, M. M. (M)
Stornaiolo, P. U. (A)
Streisand, J. L. (M)
Trifari, E. F. (A)
Weinberg, H. C. (M)

Paulsboro (PHI-3)
Gross, S. D. (M)

Pemberton (PHI-3)
Gutterson, M. A. (A)
Wilson, R. P. (A)

Pennington (PRI-2)
Bamford, H. S. (SM)
Hamner, L. H. (M)

Pennsaukenn (PHI-3)
Allen, C. D. (M)
Amort, D. L. (A)
Bauer, J. A. (SM)
Brummer, C. H., Jr. (A)
Clasen, C. P. (M)
Davids, W. (A)
De Long, G. E. (M)
Eddy, K. C. (M)
Erlick, P. S. (M)
Fabbioli, L. F. (M)
Givens, R. C. (M)
Heacock, R. M. (M)
Heckler, C. H., Jr. (A)
Hill, D. L. (A)
Hobson, N. L. (A)
Homann, A. J. (M)
Knapschaefer, D. H. (M)
Ksiazek, F. T. (M)
Landis, J. V. (SM)
Mayhew, T. R. (M)
Montemuro, A. T. (M)
Nickel, G. C., Jr. (M)
Oberlander, F. M. (SM)
Obert, M. J. (SM)
Purvis, R. E. (M)
Quinlan, E. J. (M)
Reeder, C. E. (A)
Rosenzweig, G. E. (M)
Rudd, R. B. (A)
Saeger, W. (M)
Seideman, I. M. (M)
Solomon, S. (SM)
Stander, L. (M)
Trachtenberg, J. M. (A)
Troxel, D. I. (M)
Willey, J. R. (M)

Penns Grove (PHI-3)
Garrett, L. B., Jr. (A)

Penns Neck (PRI-2)
Krittman, I. M. (M)

Pennsville (PHI-3)
Fisher, C. (A)

Pequannock (NNJ-2)
Altonji, E. R. (M)
Bergeron, W. F. (A)
Kearney, J. J. (A)
Richard, C. A., Jr. (A)
Schkolnick, H. (M)
Schmidt, C. R. (M)

Perth Amboy (PRI-2)
Ceres, G. V. (A)
Ernst, W. P. (M)
Houser, B. E. (A)
Jesse, S. A. (A)
Thomas, G. W. (A)

Pine Brook (NNJ-2)
Wheeler, C. M. (SM)

Pine Hill (PHI-3)
Burns, D. C. (A)

Pine Lake (NNJ-2)
Petersen, H. J. (A)

Pitman (PHI-3)
Andrade, L. (M)
Brown, I. N. (SM)

Plainfield (NNJ-2)
Arons, L. D. (M)
Barash, M. (M)
Budenbom, H. T. (F)
Cormier, R. J. (A)
Cowperthwait, W. L., Jr. (M
Coxhead, H. B. (SM)
Evans, C. L. (M)
Fisher, J. H. (M)
Flavin, M. A. (A)
Goldsmith, A. S. (M)
Hardin, L. L., Jr. (SM)
Harmon, L. D. (M)
Harris, W. T. (M)
Haydu, G. K. (A)
Hertz, R. G. (M)
Horowitz, L. (M)
Hunter, W. B. (A)
Husenits, J. (A)
Imrie, R. W. (M)
Jablonski, E. R. (M)
Kelly, H. P. (M)
Kuchinsky, S. (SM)
Kuhn, E. F. (M)
Lyon, Z. G., Jr. (M)
Malkin, I. I. (M)
Markantes, P. N. (A)
Melhose, A. E. (M)
Perks, A. F. (A)
Renick, R. C. (SM)
Roesig, E. W. (M)
Schneider, W. A. (SM)
Shippen, H. T. (M)
Siegel, J. R. (M)
Smith, A. E. (M)
Streeter, T. W., Jr. (A)
Stull, R. J. (SM)
Sweeney, H. E. (M)
Sweeney, W. R. (M)
Thatch, R. A. (M)
Townsend, W. H., Jr. (A)
Wallace, R. L., Jr. (F)
Warren, C. A. (SM)
Wehrle, A. W. (A)
Weingarten, I. R. (A)
Whaley, H. R. (SM)
Wood, C. H., Jr. (M)
Woody, M., W. (A)

Point Pleasant (NY-M-2)
Diebold, B. A. (M)
Friedlein, J. G. (M)
Rottner, A. W. (M)
Scharmann, L. E. (A)

Point Pleasant Beach (NY-M-2)
Fernald, O. H. (M)
Szafranski, J. J. (M)

Pompton Lakes (NNJ-2)
Anderson, C. E. (M)
Carlson, L. C. (M)
Chmiel, B. A. (A)
Gorman, R. T. (A)
McEwan, A. W. (SM)
Plummer, R. J. (M)
Romain, D. O. (A)
Solomon, K. (A)

Pompton Plains (NNJ-2)
Abrahams, R. P. (M)
Arnold, A., Jr. (A)
Cavanagh, R. T. (SM)
Dall, A. B. (A)
Engler, C. F. (M)
Gitter, R. E. (M)
Hansen, N. W. (A)
Heins, P. N. (M)
Lang, C. W. (M)
Lynch, R. G. (A)
Millard, J. W. (M)
Muller, F. A. (SM)
Nielsen, A. H. (M)
Palmer, R. C. (M)
Porta, A. (M)
Stern, W. (A)
Urban, A. (A)

Preakness (NNJ-2)
Kearns, W. P. (A)
Mumford, E. L. (A)
Schmidt, L. (A)

Princeton (PRI-2)
Allen, H. C. (SM)
Amarel, S. (A)
Awschalom, M. (M)
Barco, A. A. (F)
Barton, L. E. (F)
Baugh, C. W., Jr. (M)
Beam, W. R. (SM)
Beck, G. A. (M)
Bedford, A. V. (F)
Behrend, W. L. (SM)
Belohoubek, E. F. (M)
Binstock, P. L. (A)
Blattner, D. J. (SM)
Bliss, W. H. (SM)
Bond, D. S. (F)
Borkan, H. (M)
Braden, R. A. (SM)
Briggs, G. R. (A)
Brinster, J. F. (SM)
Brown, G. H. (F)
Burns, L. L., Jr. (SM)
Burrill, C. M. (SM)
Carlson, W. L. (F)
Chambers, F. T., III (M)
Chandler, H. M., Jr. (M)
Chaykowsky, O. C. (M)
Cheeseman, P. R. (A)
Christian, S. M. (SM)
Clark, A. N. (A)
Cohen, S. (A)
Connolly, T. W. (M)
Cook, E. G. (M)
Cooke, H. L. (A)
Costa, M. J. (A)
Cowan, E. J. (M)
Davey, J. R. (M)
De Remer, K. R. (M)
De Vore, H. B. (SM)
Dickey, E. T. (SM)
Dodge, S. W. (SM)
Donal, J. S., Jr. (SM)
Donath, E. (SM)
Donley, H. L. (SM)
Dow, O. E. (SM)
Epstein, D. W. (F)
Epstein, J. (SM)
Ewing, D. H. (F)
Favreau, R. R. (M)
Fischer, J. T. (M)
Flory, L. E. (F)
Flory, R. E. (A)
Forgue, S. V. (SM)
Fredendall, G. L. (F)
Freedman, L. A. (M)
Garretson, E. B. (A)
George, R. W. (SM)
Gialmo, E. C., Jr. (A)
Gibson, J. J. (M)
Gibson, W. G. (M)
Gold, R. D. (A)
Grasberg, A. G. (M)
Greenblatt, M. H. (SM)
Greengrass, E. (M)
Gross, J. (M)
Grosz, P. M. (M)
Hackley, R. A. (M)
Haggai, T. F. (M)
Hart, H. C. (M)
Harvey, R. L. (SM)
Heald, M. A. (M)
Herkart, P. G. (M)
Herman, F. (M)
Herold, E. W. (F)
Herzog, G. B. (M)
Hilibrand, J. (M)
Hillier, J. (F)
Holmes, R. S. (F)
Hook, H. O. (SM)
Houghton, W. D. (SM)
Hoyler, C. N. (SM)
Hubbard, B. R. (M)
Hutter, E. C. (M)
Jenny, D. A. (M)
Johnson, E. O. (M)
Johnson, H. (SM)
Johnson, W. C. (SM)
Johnston, L. B. (A)
Karns, M. E. (SM)
Kazan, B. (SM)
Keizer, E. O. (SM)
Kell, R. D. (F)
King, C. J., Jr. (SM)
Kingsley, B. (SM)
Klopfenstein, R. W. (SM)
Kurshan, J. (SM)
Landon, V. D. (SM)
Lapenson, S. (M)
Larrabee, R. D. (M)
Law, H. B. (F)
Leverenz, H. W. (F)
Leyton, E. M. (SM)
Lindenblad, N. E. (F)
Linder, E. G. (F)
Lindgren, J. B. (A)
Lindsay, F. A. (A)
Loebner, E. E. (SM)
Lohman, R. D. (M)
Lugannani, R. (M)
Mac Lean, K. G. (SM)
Maitra, K. K. (M)
Marshall, T. G., Jr. (M)
Martinelli, C. C. (SM)
Mather, N. W. (M)
McCormick, S. T., Jr. (M)
Mesner, M. H. (SM)
Metzger, S. (SM)
Morton, G. A. (F)
Mueller, C. W. (SM)
Nergaard, L. S. (F)
Newman, A. W. (M)
Nicoll, F. H. (SM)
Norman, F. H. (M)
North, D. O. (F)
Ochs, S. A. (M)
O'Connell, J. H. (A)
Odenweller, C. (M)
Olson, C. V. (M)
Olson, H. F. (F)
Panagos, P. (M)
Pankove, J. I. (SM)
Pensak, L. (SM)
Peter, R. W. (F)
Peterson, D. W. (M)
Pilp, A. T. (SM)
Plummer, C. H. (M)
Polk, C. (SM)
Powers, K. H. (M)
Pritchard, D. H. (M)
Pyne, I. B. (M)
Rajchman, J. A. (F)
Ramberg, E. G. (F)
Rankin, J. B. (A)
Remis, B. R. (M)
Ringland, R. F. (M)
Roberts, T. C. W. (A)
Robinson, J. G. (M)
Rose, A. (F)
Sanford, R. F. (A)
Schairer, O. S. (F)
Schwartz, J. W. (A)
Serrell, R. (SM)
Shatskin, J. (SM)
Sklansky, J. (M)
Smith, J. P. (SM)
Smith, P. T. (SM)
Snyder, R. F. (SM)
Sommer, A. H. (SM)
Staras, H. (SM)
Sternberg, S. (SM)
Sterzer, F. (M)
Surber, W. H., Jr. (M)
Thomas, J. B. (M)
Thompson, R. D. (M)
Trevor, B. (F)
Tults, J. (M)
Tuska, C. D. (F)
Vose, C. H. (SM)
Wadlin, M. L. (M)
Wallmark, J. T. (M)
Wallmark, M. (M)
Webster, W. M. (SM)
Weimer, P. K. (F)
Westneat, A. S., Jr. (SM)
Wilkinson, W. C. (SM)
Williams, C. H. (A)
Williams, T. R. (M)
Wintriss, G. V. (A)
Witt, H. R. (A)
Wittke, J. P. (M)
Wolff, I. (F)
Woodbridge, D. E. (M)
Woodward, J. G. (SM)
Woodward, O. M., Jr. (SM)
Young, C. J. (F)
Zworykin, V. K. (F)

Princeton Junction (PRI-2)
Matheson, R. M. (M)
Stimson, P. B. (A)

Prospect Park (NNJ-2)
Serra, E. M. (A)

Radburn (NNJ-2)
Eaton, R. D. (M)

Rahway (NNJ-2)
Bellingham, L. C. (A)
Dipple, W. M. (A)
Gegenheimer, R. F. (M)
Horneck, J. F. (M)
Jones, E. L. (A)
Lucier, O. S. (A)
Robinson, G. D. (A)
Rogers, R. E. (M)
Rymsha, A. F. (M)
Sarullo, M. J. (M)

Ramsey (NNJ-2)
Buyer, E. M. (SM)
Gray, L. F. (M)
Heiser, W. H. (SM)
Mason, R. S. (M)
Pearson, D. D. (A)
Stryker, H. J. (M)
Sturges, R. P. (M)
Yurasek, J. F. (M)

Raritan (PRI-2)
Brunelle, A. A. (A)
Kleppinger, R. E. (M)
Pearson, D. B. (M)

Red Bank (NY-M-2)
Anderson, E. C. (SM)
Bagwell, C. E. (SM)
Barrios, A. A. (A)
Basaler, S. G. (M)
Beck, A. C. (F)
Benowitz, R. B. (M)
Billick, P. (M)
Bradley, T. D. (A)
Budenkaye, A. C. (M)
Bush, J. A. (A)
Chasek, N. E. (M)
Ching, R. T. K. (M)
Crawford, A. B. (F)
Crivello, A. A., Sr. (M)
Daniels, F. B. (SM)
Dathe, L. C. (A)
Dawson, R. W. (M)
De Loach, B. C., Jr. (M)
Demko, J. G. (A)
Domidion, W. G., Jr. (A)
Edwards, C. F. (M)
Egli, J. J. (SM)
Eisenberger, A. J. (M)
Fox, A. G. (F)
Fox, B. (SM)
Frankel, H. C. (SM)
Gerbold, R. A. (M)
Gioggia, A. E. (A)
Goodall, W. M. (F)
Gordon, L. (M)
Gougoulis, G. H. (M)
Hogg, D. C. (SM)
Hunt, D. W. (M)
Hunt, L. E. (SM)
Hutchinson, H. P. (SM)
Jakes, W. C., Jr. (SM)
Johnson, Y. D., Jr. (M)
Kaprelian, E. K. (A)
Kelly, L. H. (A)
King, A. P. (SM)
Kullnyi, R. A. (M)
Kummer, W. H. (SM)
Lacy, R. E. (SM)
Lang, L. M. (SM)
Legg, W. E. (A)
Li, T. (M)
Liebiein, E. (M)
Lindner, H. G. (SM)
Mcllroy, A. P., Jr. (A)
Maloney, T. E. (M)
Mancino, V. J. (M)
Marcuse, D. (M)
Marcy, S. P. (A)
Marx, D. H. (M)
Menhennett, G. H. (M)
Michael, L. M. E. (A)
Moore, J. C., Jr. (M)
Ohm, E. A. (A)
Perkins, O. D. (SM)
Pusteinyk, M. (A)
Rauch, A. (A)
Ring, D. H. (SM)
Rose, C. F. P. (SM)
Rowe, H. E. (M)
Sardo, W. (M)
Senn, G. F. (SM)
Sharpless, W. M. (F)
Siderman, J. A. (M)
Stanley, H. T. (M)
Swenarton, E. W. (A)
Tillotson, L. C. (SM)
Turner, E. H. (SM)
Unger, H. (M)
Vogt, G. F. (SM)
Weiss, M. T. (SM)
Wopat, J. W., Jr. (A)
Wright, D. S. (M)
Wurthmann, G. E. (A)
Zalesky, S. J. (M)

Ridgefield (NNJ-2)
Bishop, P. (M)
Chamberlain, L. J. (M)
Dardano, L. B. (A)
Dolinko, L. (M)
Finkelstein, D. (M)
Fristensky, C. A. (M)
Mgrdechian, R. (A)
Mittman, E. E. (SM)
Ricca, R. F. (A)
Ross, G. G. (M)
Spitz, T. S. (M)

Ridgefield Park (NNJ-2)
Foster, R. M. (A)

Ridgewood (NNJ-2)
Bailey, E. M. (A)
Boldridge, A. C., Jr. (M)
Boyle, G. G. (M)
Caveiss, A. A. (M)
Clay, A. N. (M)
De Leon, J. (M)
Detlefs, H. (SM)
Engel, G. C. (M)
Feldkamp, L. P. (A)
Fitts, W. F. (M)
French, H. A. (SM)
Holt, A. C. (SM)
Howite, R. (M)
Johnson, F. H. (M)
Labagh, E. L. (M)
Lott, R. E., Jr. (M)
Mihailk, J. J. (M)
Mueller, J. F. (M)
Mulligan, J. H., Jr. (SM)
Pratt, T. B., Jr. (M)
Puckette, C. M., Jr. (M)
Rogers, T. I. (SM)
Saint-Amour, P. M. (A)
Scarpone, J. B. (M)
Schmals, H. H. (M)
Simpson, L. C. (SM)
Streich, R. J. (M)
Taylor, E. C. (A)
Troell, R. E. (M)
Willis, J. S. (A)

Riverdale (NNJ-2)
Hegeman, B. L. (A)

River Edge (NNJ-2)
Balter, S. A. (A)
Baum, E. (M)
Biagi, A. D. (M)
Bochet, F. J. (A)
Ennis, F. T. (VA)
Grybowski, T. M. (A)
Howitt, G. (M)
Izzo, A. J. M. (A)
Kuller, K. K. (M)
La Rue, C. L. (M)
Mazzola, J. R. (SM)
O'Connell, E. P., Sr. (M)
O'Connor, R. A. (M)
Schumacher, H. L. (A)
Slack, S. J. (M)

Riverside (PHI-3)
Gardner, R. K. (A)
Katella, A. J. (A)
Norcross, J. S., Jr. (A)

Riverton (PHI-3)
Alperin, N. N. (M)
Benware, R. T. (SM)
Brown, L. (SM)
Bryson, H. C., Jr. (SM)
Burton, G. T. (M)
Chapman, L. J. (A)
Collings, F. C., Jr. (M)
Corr, J. J. (M)
Davidson, R. C. (A)
Faust, A. C. (M)
George, M. E. D. (A)
Good, L. H. (M)
Hartshorne, F. A. (M)
Kreitsberg, S. B. (A)
Long, K. G. (M)
Mandelkehr, M. M. (A)
Penfield, A. W. (A)
Phares, R. L. (M)
Schira, J. C., Jr. (M)
Sidnam, R. D. (M)
Small, C. E. (M)
Smith, B. D. (M)
Vendeland, R. N. (M)
Westcott, H. H. (A)
Wieder, E. J., Jr. (A)

Rivervale (NNJ-2)
Betlejewski, F. J. (M)
Brain, B. (A)

Rochelle Park (NNJ-2)
Auerbach, A. (M)
Carroll, J. M. (A)
De Vorso, R. (M)
Farber, D. J. (M)
Feoranx, F. J. (A)
Ferrando, H. J. (M)
Flanagan, J. R. (M)
Hancock, P. L. (A)
Uzel, F., Jr. (M)

Rockaway (NNJ-2)
Acker, J. L. (A)
Civello, J. R. (M)
Donohoe, L. J. (A)
Greene, K. (M)
Kurtz, D. P. (A)
Magel, A. (M)
McCasland, G. P. (M)
Morgen, M. (M)
Reid, J. R. (A)
Santos, J. S. (M)
Uiga, E. (SM)

Rockaway Township (NNJ-2)
Kunnes, H. (M)

Roosevelt (NY-M-2)
Rips, E. M. (A)

Roseland (NNJ-2)
Nichols, P. A. (A)
Richardson, G. G. (SM)

Roselle (NNJ-2)
Dixon, V. E. (M)
Fanarjian, R. C. (M)
Frank, L. H. (A)
Hold, H. W. (A)
Perez, C. P. (SM)
Preuss, E. A. (A)
Saccente, J. C. (M)

Roselle Park (NNJ-2)
Cohen, E. (M)
Dargue, F. B. (A)
Hanselman, K. J. (M)

Rumson (NY-M-2)
Deisler, J. D. (M)
Friis, H. T. (F)
Golay, M. J. E. (SM)
Gruol, J. W. (SM)
Kimmel, L. D. (M)
Kruse, E. S. (M)

Runnemede (PHI-3)
Copeland, W. O. (M)
Eckel, C. C. (M)
Haworth, R. F. (A)
Houston, R. S. (M)
Jones, G. C. (A)
McCollor, R. L. (SM)
Oda, D. J. (SM)
Perilli, R. R. (M)
Williamson, W. H., Jr (M)

Rutherford (NNJ-2)
Benamy, D. A. (A)
Benjamin, L. P. (A)
Dunn, J. G. (A)
Edmunds, J. J., Jr. (M)
Henzel, G. L. (A)
Keller, W. N. (A)
Lohrenz, C. (M)
Lopresti, A. P. (A)
Lo Presti, M. (A)
Margolin, P. C. (M)
Merrill, J. B. (M)
O'Neill, E. P. (A)
Orlando, A. J. (M)
Rau, A., Jr. (SM)
Reenstra, W. A. (M)
Sammon, A. C. (A)
Scott, G. R. (M)
Simkovich, J. R. (M)
Simpson, W. F. (M)
Van Winkle, E. W. (SM)
Wahlquist, W. (M)
Walker, D. J. (A)
Walter, C. W. P. (SM)
Wattson, H. B. (SM)

Salem (PHI-3)
Bailey, L. W. (SM)
Morton, R. S. (VA)
Perlsweig, A. M. (M)

Scotch Plains (NNJ-2)
Ballinger, L. H. (M)
Bell, J. S. (M)
Bird, S. P. (A)
Boring, J. W. (A)
Butler, W. E. (A)
Cummings, R. L. (M)
Elwood, A. A. (SM)
Greene, W. J. (SM)
Hergenhan, O. (M)
Jackson, W. H. (M)
Jensen, C. A. (M)
Karwas, F. C. (M)
McLean, J. B. (M)
Montllor, J. A. (M)
Mueller, P. L. (M)
Olander, W. O. (M)
Sensenig, W. A. (M)
Young, C. B., Jr. (M)

Sea Bright (NY-M-2)
Schnabolk, H. L. (M)

Seabrook (PHI-3)
Superior, W. J. (A)

Seaside Heights (NY-M-2)
Myhre, R. (A)

Secaucus (NNJ-2)
Tonn, J. L. (A)

Sewell (PHI-3)
Gribble, R. F. (M)
Woodward, J. D. (SM)

Short Hills (NNJ-2)
Alexander, R. B. (SM)
Bucklin, K. G. (SM)
Carroll, M. J. (SM)
Dabrowski, H. L. (A)
Dore, A. J. (A)
Gerber, G. V. (M)
Giese, R. C. (SM)
Huber, G. H. (SM)
Jones, H. B., Jr. (A)
McGrath, M. C. (M)
Schisel, J. (SM)
Tucker, J. P. (VA)
Vanderbilt, S. (A)
Wall, G. B., III (M)
Whittemore, L. E. (F)
Wright, A. K. (SM)
Ziegler, A. W. (SM)

Shrewsbury (NY-M-2)
Covici, W. (M)
Czerwinski, W. P. (M)
Doelger, R. J., Jr. (M)
Edmunds, E. E. (SM)
Jacobellis, B. R. (M)
Johnstone, J. H. (SM)
Keigher, B. J. (M)
Layden, O. P. (A)
Rehm, W. L. (M)
Ross, A. H. (SM)

Sicklerville (PHI-3)
Ayres, J. J. (M)

Singac (NNJ-2)
Fetko, J. F. (A)

Skillman (PRI-2)
Tompkins, B. E. (A)

Somerdale (PHI-3)
Fenzel, F. A. (M)
Howell, M. (M)
Kurchin, A. (M)
See, C. J. (A)
Sweeney, J. E. (M)
Warren, W. L. (A)
Weisenfeld, S. (M)

Somerville (PRI-2)
Ahrons, R. W. (A)
Armstrong, L. D. (M)
Cadra, V. J. (M)
Chesnes, G. J. (M)
Chinery, J. J. (A)
Ditrick, N. H. (M)
Fa, C. H. (M)
Fournier, R. V. (M)
Gifford, J. S. (M)
Giuliano, M. N. (M)
Glover, A. M. (F)
Greig, W. J., Jr. (A)
Janes, R. B. (F)
Kestenbaum, A. L. (M)
Kleinman, H. M. (M)
Koch, O. F. (A)
Lempner, J. S. (M)
Levin, B. B. (M)
Long, W. T. (M)
Malter, L. (F)
McKeon, E. F. (M)
Santilli, R. A. (M)
Schmeltzer, R. A. (M)
Simons, S. C. (A)
Thorne, D. (M)
Toth, S., Jr. (A)
Wamsley, D. H. (SM)
Wells, D. H. (A)
Zuk, B. (M)

South Amboy (PRI-2)
Kaluzny, E. F. (A)

South Belmar (NY-M-2)
Fimmel, R. O. (M)

South Bound Brook (PRI-2)
Dobrowolski, R. M. (M)
Kalish, I. H. (M)

South Hackensack (NNJ-2)
Krauss, E. (A)
Sherman, E. W. (A)

South Orange (NNJ-2)
Bonanno, J. L. (SM)
Guercio, A. M. (M)
Harris, W. A. (F)
Miller, H. J. (SM)
Myers, G. H. (A)
Neary, J. F. (A)
Quinn, K. C. (M)
Robison, R. M. (M)
Royden, G. T. (F)
Stanwick, C. A. (VA)
Wooldridge, A. C. (SM)

South Plainfield (PRI-2)
Bellew, F. N. (M)
Hunter, F. L., Jr. (M)
Rogers, H. D., Jr. (A)
Soja, M. (M)
Tesmo, R. R. (M)
Wolfe, R. W. (M)

South River (PRI-2)
Blanchard, C. K. (M)
Fisher, W. W. (M)
Griffee, F. M. (M)
Porter, H. D. (A)

Sparta (NNJ-2)
Hussey, L. W. (SM)
Lundstrom, A. A. (SM)

Springfield (NNJ-2)
Backer, C. M. (SM)
Cunningham, F. W. (SM)
Emmel, L. L. (M)
Field, W. T. (VA)
Hartz, W. W. (A)
McDowell, H. L. (M)
Ollendorf, J. (M)
Ozsvath, D. R. (M)
Pincus, L. (M)
Pollacek, E. H. (A)
Rogers, A. W. (SM)
Varvel, W. M. (M)
Wilcox, E. J. (M)

Spring Lake (NY-M-2)
Godfrey, W. C. (M)
Huber, W. A. (SM)
Voigt, G. (A)

Spring Lake Heights (NY-M-2)
Acker, R. E. (A)

Stanhope (NNJ-2)
Carmichael, R. L. (A)

Stewartsville (NNJ-2)
Belanger, E. D. (A)

Stirling (NNJ-2)
Hirmann, J. (SM)

Stratford (PHI-3)
Shellock, J. V. (A)
Weiman, W. W. (M)

Succasunna (NNJ-2)
Martin, S. J. (M)
Morgan, T. W., Jr. (M)

Summit (NNJ-2)
Anderson, C. N. (F)
Baker, P. A. (A)
Bay, F. H. (M)
Bennett, A. F. (SM)
Black, H. S. (F)
Brady, C. E. (M)
Carne, G. G. (SM)
Davis, R. E. (M)
De Costanzo, J. R. (A)
Degan, J. J. (A)
Dudley, H. W. (SM)
Early, J. M. (SM)
Evans, H. W. (SM)
Foyer, D. R. (A)
Gilleo, M. A. (M)
Grierson, C. A. W. (SM)
Halline, E. G. (A)
Hammell, R. (M)
Hanchett, G. D., Jr. (SM)
Harley, J. B. (SM)
Hartley, R. V. L. (F)
Hasdorff, L. (M)
Hathaway, S. D. (M)
Haynie, G. D. (M)
Heising, R. A. (F)
Hensel, M. L. (M)
Higgins, R. H. (M)
Hoth, D. F. (SM)
Johnson, R. L. (M)
Kuiser, E. T. (SM)
Koslov, S. (A)
Lindsey, P. D. (M)
Long, M. B. (M)
Loo, K. (A)
Lundry, W. R. (SM)
Lynch, H. N. (M)
Marshall, R. W. (M)
Martinson, L. W. (M)
Maybach, W. J. (M)
McMillan, J. D. (A)
Means, W. J. (SM)
Michael, F. R. (M)
Moore, R. F., Jr. (M)
Moster, C. R. (M)
Nardone, R. L. (A)
Nordahl, J. G. (SM)
Oncley, P. B. (M)
Pain, D. H. (A)
Paull, M. (A)
Perry, I. D. (M)
Preston, K., Jr. (M)
Pryslak, N. E. (SM)
Quinby, E. J. (M)
Raynsford, C. K. (A)
Rice, L. P. (M)
Richards, P. C. (M)
Samuel, R. (M)
Shepard, F. H., Jr. (M)
Slover, W. L. (A)
Steiger, B. F. (M)
Tendick, F. H., Jr. (M)
Thomas, G. B., Jr. (SM)
Treitel, W. S. (M)
Uenohara M. I. (M)
Van Dine, G. A. (M)
Witt, F. J. (M)

Sussex (NNJ-2)
Bliss, D. C. (A)
O'Brien, J. F., Jr. (A)

Teaneck (NNJ-2)
Atlas, Z. (A)
Bonner, J. T. (M)
Chin, E. (M)
Dunn, W. J. (A)
Galbraith, J. E. (M)
Gannett, E. K. (SM)
Greenquist, R. E. (M)
Jacobs, B. H. (M)
Kulesha, K. J. (M)
Luhrs, C. H. (M)
Luskin, B. (M)
Melby, K. (M)
Mezger, G. R. (SM)
Pearl, S. L. (M)
Polack, M. M. (M)
Pulley, A. A. (VA)
Quance, F. R. (M)
Sather, O. J. (SM)
Straub, W. W. (M)
Tsao, T. C. (SM)
Verseput, P. C. (A)
Weber, S. (M)

Tenafly (NNJ-2)
Anthony, R. L. (SM)
Border, B. (A)
Engel, J. S. (M)
Hull, R. E. (M)
Hutchinson, C. C. (A)
Iwahashi, K. K. (A)
Litsios, J. (A)
Parrott, R. D. (M)
Sciorra, A. F. (M)
Shotliff, L. A. (SM)
Unger, W. H. (M)

Teterboro (NNJ-2)
Boronow, E. L. (M)
Hughes, M. J. (M)
Keetch, W. A. (A)
McCaul, J. N. (A)
Nietsch, H. E. (A)
Robinson, C. S. (M)
Shangraw, C. C. (SM)
Sprung, R. A. (M)
Valentine, D. T. (A)

Toms River (NY-M-2)
Clemenko, M. (A)
Dreessen, W. B. (M)
Helmus, D. H. (A)
Mangold, E. J. (M)

Totowa Borough (NNJ-2)
Gutleber, F. S. (A)
Heinis, F. W. (A)
Kuyper, D. M. (M)
Le Vine, H. D. (SM)
Monsees, W. A. (M)
Wehner, J. H. (M)

Towaco (NNJ-2)
Bird, H. H. (A)
Chislow, J. H. (M)

Trenton (PRI-2)
Ballard, R. C. (SM)
Carver, L. A. (M)
Cole, W. Y. (M)
De Mott, J. (SM)
Faustini, C. (M)
Fisher, R. L. (M)
Gavenas, A. R. (M)
Glass, W. (A)
Harris, F. M. (M)
Heller, M. E. (A)
Inslee, J. A. (M)
Kang, C. L. (M)
Klensch, R. J. (A)
Lavin, R. D. (A)
Lipinski, Z. J. (M)
Lorber, H. W. (M)
Marquardt, C. S. (A)
McCoy, D. S. (M)
Miller, H. S. (M)
Miller, R. (M)
Molnar, J. G. (A)
Power, J. B. (A)
Pritchard, P. G. (M)
Raser, E. G. (SM)
Ratz, A. G. (M)
Rogers, A. E. (M)
Schwartz, R. J. (M)
Sher, A. (M)
Strother, J. A. (A)
Strother, W. F. (A)
Szwedo, S. G. (A)
Thompson, W. M. (M)
Troxel, D. E. (M)
Wentzel, A. G., Jr. (M)
Woolston, J. R. (M)
Yard, E. M. (M)
Zarzecki, F. S. (M)

Union (NNJ-2)
Anderson, N. E. (M)
Bronstein, N. (A)
Chartoff, M. (M)
D'Agostino, V. F. (M)
Davis, E. S. (M)
Edwards, J. B. (VA)
Faughnan, J. F. (M)
Frank, D. N. (A)
Hemmendinger, B. G. (M)
Krall, W. F. (M)
Lambert, G. W. (A)
Metzler, R. (A)
Nagy, J., Jr. (M)
Penk, C. (A)
Pettal, R. (A)
Polkosnik, C. F., Jr. (A)
Sandoz, R. W. (M)
Sapoff, M. (A)
Snyder, V. A. (A)
Weintraub, N. (SM)

Union City (NNJ-2)
Bernstein, E. (A)
Campanaro, P. L. (A)
Corson, D. E. (SM)
De Carlo, A. P. (M)
Delguidice, T. F. (M)
Huang, R. Y. (M)
Lakata, J. W. (A)
Lee, J. P. (A)
Markunas, J. P. (A)
Matto, V. G. (A)
Muller, E. E. (M)
Vaughan, C. B. (A)
Worhach, R. (M)

Upper Montclair (NNJ-2)
Benner, T. A. (M)
Borden, E. W. (M)
Buck, T. F. (A)
Burnett, J. H. (M)
Chipp, R. D. (F)
De Rosa, L. A. (F)
Dishal, M. (F)
Dorfman, J. (M)
Fawcett, D. G. (M)
Ferguson, J. G. (SM)
Goldsmith, T. T., Jr. (F)
Hallborg, H. E. (F)
Harries, W. L. (SM)
Hicks, B. A. (SM)
Hunkins, H. R. (M)
Kaye, G. A., Sr. (M)
Osborne, H. S. (F)
Peer, G. C. (A)
Ruiter, J. H., Jr. (SM)
Siegel, R. (A)
Stanton, F. T., Jr. (A)
Surenian, D. (M)
Terhune, H. R. (SM)
Warner, H. M. (A)

Upper Saddle River (NNJ-2)
Weiner, M. J. (M)

Vaux Hall (NNJ-2)
Seldon, C. (M)

Verona (NNJ-2)
Baxter, C. L. (A)
Beltz, W. F. (SM)
Beste, H. E. (SM)
Boronow, F. S. (A)
Butler, H. R. (SM)
Curtis, L. W. (M)
Curtis, L. B. (M)
Daugherty, R. M. (SM)
Gauthier, R. V. (A)
Hoops, H. W. (A)
Hulst, G. D. (SM)
Jacobs, G. W. (M)
Janoff, A. (A)
Kram, W. (A)
Lewinter, S. W. (SM)
McDonough, V. T. (M)
Nyberg, R. G. (SM)
Peet, E. C. (SM)
Scheraga, M. G. (SM)
Smith, E. J. (M)
Smith, H. R. (M)
Tobler, C. R. (M)
Tompson, E. C. (A)
Wohlgemuth, A. C. (M)

Vineland (PHI-3)
Lolli, A. V. (M)
Waugh, J. R., Jr. (M)

Waldwick (NNJ-2)
Atkin, J. (M)
Bailey, R. S. (SM)
Brennan, F. J. (M)
Broderick, N. E. (SM)
Certner, A. (A)
Gottfried, N. J. (M)
Priest, R. B. (M)
Rollman, R. F. (M)
Shaler, D. (SM)

Wallington (NNJ-2)
Lisovicz, E. J. (A)
Savage, J. V. (M)

Wanamassa (NY-M-2)
Carp, G. (M)
Goldberg, B. (SM)
Kuhnapfel, R. H. (SM)
May, A. (A)
Miller, M. (M)
Steelman, K. C. (A)
Treston, P. (M)

Washington (NNJ-2)
Aten, D. C. (M)
Bunko, M. (M)
Feindel, A. (M)
Schmidt, A. F., Jr. (A)

Watchung (NNJ-2)
Walters, G. E. (A)

Wayne (NNJ-2)
Armstrong, T. R. (M)
Bentley, A. Y. (SM)
Bonazza, W. J. (M)
Brown, A. T., III (A)
Davenport, J. E. (M)
Des Jardins, R. A. (A)
Dilatush, E. (M)
Dyne, J. H. (A)
Haenichen, J. C. (A)
Hamlin, J. C. (M)
Kass, J. S. (M)
Katz, A. J. (SM)
Kazuk, W. F. (A)
Kern, G. A. (M)
Lehman, G. C. (A)
Lucas, E. F. (M)
Numrich, F. H. (SM)
Potter, D. W. (M)
Shea, R. A. (SM)
Struck, H. E. (M)
Underhill, E. M. (SM)
Williams, R. J. (A)

Wayne Township (NNJ-2)
Grimes, W. M., Jr. (M)

Weehawken (NNJ-2)
Armstrong, D. T. (A)
Mahony, J. P. (M)
Meitzner, A. C. (A)

Wenonah (PHI-3)
Eldridge, G. C., Jr. (A)
Robinson, J. L. (M)

West Allenhurst (NY-M-2)
Brockel, H. W. (A)
Friedrich, V. L. (SM)
Levine, R. H. (SM)
Lewis, H. M. (SM)
Ramella, P. R. (A)
Sugarman, R. H. (SM)

West Berlin (PHI-3)
Trimble, J. E. (A)

West Caldwell (NNJ-2)
Brundage, J. H. (SM)
Capodanno, R. T. (SM)
Clark, T. G. (M)
Gobb, W. A. (M)
Crump, E. E. (M)
Eberhard, L. E. (VA)
Friedman, S. L. (M)
Hampshire, R. A. (M)
Knight, M. B. (M)
Knoop, W. A., Jr. (SM)
Levine, S. B. (A)
Lynn, P. R. (M)
Miller, H. P., Jr. (SM)
Myers, R. H. (A)
Schade, O. H. (F)
Shepard, R. H. (A)
Toepel, W. A. (A)
Walzer, F. (M)
Wilson, L. F. (M)
Woodin, E. A. (A)

West Collingswood (PHI-3)
Boss, W. O. (M)
Dodson, J. W. (M)
Laskey, J. M. (M)
Orth, R. B. (M)
Perry, R. A. (M)
Riggs, D. L. (M)
Sapp, D. H. (M)
Tannenbaum, D. A. (M)

West Deal (NY-M-2)
Berger, R. M. (SM)

West End (NY-M-2)
Chazen, J. (M)
Epstein, M. (M)

Kahn, D. (M)
Matare, H. F. (SM)
Winters, A. L. (A)

West Englewood (NNJ-2)
Bitner, R. E. (M)
Boehm, G. W. (A)
Gelling, H. F. (M)
Godofsky, M. (M)
Goldberg, A. A. (SM)
Krainin, S. (M)
Kuss, P. W. (M)
Pickholtz, R. L. (A)
Schnoll, N. (SM)
Scott, D. A. (A)
Selikson, B. (A)
Shenk, E. R. (SM)
Walsh, A. A. (SM)
Wilbur, E. C. (SM)

Westfield (NNJ-2)
Augustadt, H. W. (SM)
Bachrach, H. E. (A)
Bacon, D. R. (M)
Barker, R. A. (M)
Bergan, M. D., Jr. (A)
Bumiller, G. B. (M)
Cafarelli, N. J., Jr. (M)
Chandler, R. D., Jr. (M)
Cunniff, T. W. (M)
Donald, B. E. (M)
Edwards, R. (SM)
Follingstad, H. G. (M)
Foster, R. M. (F)
Hayward, W. S., Jr. (A)
Ingalls, D. (M)
Jensen, T. F. (A)
Knights, J. E., Jr. (SM)
Leeds, M. (A)
Leggett, E. P. (M)
Macgill, L. T., Jr. (A)
Moons, A. G., Jr. (M)
Nein, H. R. (M)
Peterson, L. J. (M)
Pulley, L. A. (VA)
Shepard, R. M. (A)
Siegelin, C. O. (SM)
Smith, K. D. (SM)
Van Tassel, E. K. (SM)
Warner, H. K. (M)
Welsh, W. A. (SM)
Wier, J. M. (M)
Wohlgemuth, A. J. (M)
Wolf, B. H. (SM)
Worley, A. R. (M)

West Long Branch (NY-M-2)
Anderson, B. S. (SM)
Barbour, T. M. (M)
Deisinger, D. A. (SM)
Doxey, W. L. (M)
Eichel, M. R. (M)
Farlee, R. J. (A)
Gerber, E. A. (F)
Gikow, E. (SM)
Gore, T. S., Jr. (M)
Gormley, R. S. (SM)
Griffith, P. E. (SM)
Guttwein, G. K. (M)
Hamer, H. (SM)
Kubiln, V. J. (M)
Kullback, I. (M)
La Marca, P. J. (M)
Lippel, B. (M)
Lipton, M. H. (A)
McKenna, F. A. (SM)
O'Brien, J. F. (M)
O'Dwyer, M. S. (M)
Pearlston, C. B., Jr. (M)
Portantino, A. (M)
Salvano, D. P. (A)
Segner, S. M. (A)
Smalto, F. A. (M)
Vieweger, A. L. (SM)
Vogler, J. G. (M)
Wolinsky, A. (A)

West Millington (NNJ-2)
Jamison, H. M. (A)

Westmont (PHI-3)
Beezer, J. E. (A)
Burke, T. J. (A)
Carrell, R. M. (M)
Castleberry, J., Jr. (M)
Cox, R. L. (M)
Dennison, R. C. (M)
Dilley, J. E. (A)
Erwin, G. E. (M)
Fast, H. (A)
Fish, C. A. (M)
Garabedian, H. B. (A)
Grundmann, G. L. (SM)
Hauser, G. G. (A)
Heidgen, B., Jr. (M)
Helbig, W. A. (A)
Horton, J. B. (M)
Janz, D. W. (M)
Kikuchi, N. (M)
Krupa, J. E. (A)
Leidy, H. W. (A)
Maggio, A. F. (M)
Morris, R. E. (A)
Mozzi, E. J. (M)
Pierce, D. L. (A)
Pierce, J. A. (A)
Sinnett, C. M. (F)
Sloan, J. E. (M)
Waite, J. H., Jr. (SM)
Wolf, R. E. (M)

West New York (NNJ-2)
Koemm, K. H. (A)
Larena, S. F. (A)

West Norwood (NNJ-2)
Griffin, A. T. (A)

West Orange (NNJ-2)
Adler, A. W. (A)
Bernstein, B. (M)
Blanchard, W. A. (A)
Booth, R. P. (SM)
Coan, E. M. (SM)
Crowley, H. L. (SM)
Edison, T. M. (M)
Fishbein, S. B. (SM)
Garten, L. A. (M)
Goldstein, M. K. (SM)
Grady, C. B., Jr. (M)
Grayson, E. L. (M)
Greenfield, G. (M)
Hess, R. C. (M)
Hetherington, G. V. (A)
Horvath, B. N. (A)
Kelly, J. H. (A)
Kishpaugh, A. W. (SM)
Lander, F. (A)
Langford, R. C. (SM)
Linhart, D. J. (M)
Neumann, K. L. (M)
Newman, R. J. (SM)
Overpeck, I. P. (A)
Padalino, J. (SM)
Panter, P. F. (SM)
Pferach, G. H., Jr. (M)
Puder, R. K. (A)
Reed, E. D. (M)
Reise, H. A. (SM)
Riemenschneider, N. L. (M)
Robinson, W. A. (A)
Ryan, F. M. (F)
Schottland, F. D. (SM)
Scully, J. F. (SM)
Shamis, S. S. (M)
Smith, J. F. (A)
Snow, H. A. (F)
Tulchin, H. (SM)
Wagner, R. L. (M)
Zmuda, E. J. (M)

West Paterson (NNJ-2)
Bidermann, W. R. (M)
Knight, R. T. (M)
Mozek, G. J. (A)
Scratchley, W. P., Jr. (A)
Woncik, M. (A)

West Trenton (PRI-2)
Kunicki, H. R. (M)

Westwood (NNJ-2)
Dunn, W. J. (A)
Duschka, W. A. (M)
Elwell, H. G., Jr. (M)
Gregory, G. S. (SM)
Gunderson, L. C (M)
Hammerschmidt A. L. (SM)
Nagy, L., Jr. (M)
Spanos, W. M. (M)
Triantafellow, W. (A)
Warden, F. W. (SM)
Ware, D. H. (M)
Woodin, R. H. (M)
Zangenberg, H. E. (M)

Wharton (NNJ-2)
Krueger, P. C. (M)

Whippany (NNJ-2)
Albersheim, W. J. (F)
Alley, R. E., Jr. (M)
Alsberg, D. A. (SM)
Anderson, A. B. (M)
Anderson, G. M. (SM)
Andrews, E. G. (M)
Bachman, W. J. (SM)
Bagby, R. B. (M)
Baird, J. A. (SM)
Baker, J. D. (M)
Balash, F. J. (A)
Baldwin, E. G. (M)
Barstow, J. M., Jr. (M)
Bearer, P. J. (SM)
Becraft, C. E. (A)
Bedell, E. H. (M)
Beeler, T. L. (A)
Belford, J. F. (A)
Bercaw, J. D. (M)
Blair, B. R. (SM)
Bohren, A. K. (SM)
Bollman, J. H. (SM)
Bower, M. M. (M)
Boyhan, J. W. (A)
Boysen, A. P., Jr. (M)
Braun, C. G. (M)
Brenneman, D. (M)
Brown, D. J. (M)
Brown, L. O., Jr. (M)
Bryan, G. E. (A)
Budlong, W. A. (M)
Burger, M. J. (SM)
Byrum, E. J. (SM)
Cagle, W. B. (A)
Carretta, P. M. (M)
Carter, F. W. (M)
Churchill, L. S. (M)
Clark, H. R. (M)
Clement, A. W. (SM)
Clutts, C. E. (M)
Cocchiaro, M. (A)
Compton, H. B. (M)
Coulter, D. M. (M)
Crater, T. V. (A)
Croney, K. A. (M)
Dale, G. V. (M)
Daly, I. W. (M)
Darnell, P. S. (SM)
Davis, L. B. (M)
De Graaf, D. A. (A)
De Motte, F. E. (M)
Dietzold, R. L. (F)
Dominick, J. B. (SM)
Dorn, R. J. (A)
Dudek, S. J. (M)
Dungan, M. R. (M)
Dunlap, K. S. (M)
Elias, L. G. (SM)
Engstrom, O. D. (SM)
Fagen, M. D. (SM)
Fair, I. E. (M)
Fairweather, B. A. (M)
Favin, D. L. (A)
Field, J. M. (M)
Fleckenstein, W. O. (M)
Fleming, C. C. (M)
Fleming, H. C. (SM)
Flowers, D. E. (M)
Franke, H. C. (M)
Frantz, D. R. (SM)
Frantz, G. R. (SM)
Friedrich, J. M. (M)
Fuss, P. S. (M)
Gallant, R. J. (A)
Gamble, G. L. (M)
Ghiron, H. (A)
Giloth, P. K. (A)
Gunderson, D. C. (M)
Haase, W. D. (A)
Haber, K. H. (A)
Hagerott, R. E. (M)
Haines, A. B. (M)
Hammann, P. L. (SM)
Harding, P. A. (A)
Hays, F. R. (A)
Heber, E. (A)
Heberlein, A. A. (SM)
Helm, H. A. (M)
Hewitt, W. H., Jr. (SM)
Hilbbert, J. J. (M)
Hoffmann, E. H. (M)
Hohenstein, N. H. (A)
Hohmann, G. D. (M)
Holland, F. C. (M)
Hunter, R. A. (A)
Inscoe, R. A. (M)
Jacobs, I. (M)
Janiszewski, F. A. (M)
Jenny, H. K. (SM)
Joel, A. E., Jr. (A)
Johnson, G. D. (SM)
Jones, L. W. (M)
Ketchledge, R. W. (SM)
Kindberg, E. V. (M)
Kirkwood, L. W. (SM)
Klahn, R. (M)
Koenig, W., Jr. (A)
Koerner, L. F. (M)
Kovach, L. D. (M)
Krieger, R. W. (A)
Kuck, B. M. (M)
Lane, R. F. (SM)
Larsen, L. F. (M)
Lee, C-Y. (M)
Lenigan, T. E. (M)
Lesser, W. J. (M)
Lowell, R. (M)
Lowry, G. M. (A)
Lowry, T. N. (M)
Lozier, J. C. (SM)
Lucas, R. M. (M)
Lund, N. (M)
MacWilliams, W. H., Jr. (SM)
Manship, J. F. (M)
Marston, W. J. (M)
Martin, J. F. P. (M)
Matthews, J. G. (M)
Mattingly, R. L. (SM)
May, J. E., Jr. (SM)
Mayhew, D. K. (M)
McCann, T. A. (SM)
McCluskey, E. J., Jr. (M)
McCoy, J. C. (SM)
McCune, R. J. (A)
McWhan, B. (M)
Meade, R. (A)
Mealy, G. H. (M)
Menard, J. Z. (M)
Meyer, W. C. (A)
Miller, W. F. (M)
Molnar, J. P. (SM)
Moore, R. M. (SM)
Morrison, E. D. (M)
Morrison, J. F. (F)
Morrison, L. W. (SM)
Mraz, W. L. (SM)
Mumford, W. W. (F)
Munn, A. J. (SM)
Nebel, C. N. (M)
Nehama, I. D. (M)
Newhouse, R. C. (F)
Nicodemus, K. L. (M)
Nyser, H. J. (M)
Och, H. G. (SM)
Olmstead, N. C. (SM)
Otey, C. R. (A)
Pardee, S., Jr. (M)
Paul, C. E. (M)
Petrich, L. G. (M)
Price, A. C., Jr. (M)
Priefer, C. E. (A)
Pustarfi, H. S., Jr. (A)
Ranucci, J., Jr. (M)
Reichle, W. E. (SM)
Replogle, J. O. (M)
Rice, R. V. (A)
Richman, G. H. (A)
Ronne, J. S. (M)
Rumpel, C. H. (A)
Rundstedt, R. J. (A)
Schaefer, F. J., Jr. (M)
Schafersman, R. L. (A)
Schmidt, E. F. (M)
Schramm, C. W. (SM)
Schunneman, R. F. (A)
Seckler, H. N. (M)
Seidler, R. L. (M)
Sellers, G. A., Jr. (A)
Shaller, A. (M)
Siegel, E. H., Jr. (M)
Simons, B. H. (M)
Sinclair, R. O., Jr. (SM)
Smith, C. A. (SM)
Smith, L. M. (M)
Smith, P. H. (F)
Souders, E. R. (M)
Spence, P. W. (M)
Splees, W. G. (M)
Staehler, R. E. (A)
Stammerjohn, L. W. (M)
Stiefel, K. E. (M)
Sturdy, W. W. (SM)
Swift, R. A. (SM)
Sykes, R. A. (F)
Taft, C. R. (SM)
Tarrant, S. R. (A)
Tatsuguchi, I. (A)
Teeters, D. R. (A)
Thatcher, W. H. (SM)
Tidd, E. D. (M)
Tidd, W. H. (SM)
Tinus, W. C. (F)
Townley, R. K. (SM)
Tryon, J. G. (M)
Ulrich, W. (M)
Von Aulock, W. H. (A)
Warner, A. W., Jr. (SM)
Weeks, G. E. (M)
Weiss, M. M. (M)
Willson, F. E. (M)
Winans, R. C. (M)
Woodmansee, B. S. (SM)
Yokelson, B. J. (M)
Yostpille, J. J. (M)
Younker, E. L. (M)
Zimmerman, A. P. (M)
Zimmerman, L. (M)

White House Station (PRI-2)
Berkowitz, M. D. (A)

White Meadow (NNJ-2)
Goldstein, M. (M)

Wickatuck (NY-M-2)
Grubb, W. C., Jr. (SM)

Wildwood (PHI-3)
Eberle, H. (A)
Kern, F. W. (A)
Malm, R. F. (M)
Pasciuti, R. A. (M)

Wildwood Crest (PHI-3)
Barrett, C. S. (M)

Williamstown (PHI-3)
Roberts, M. J. (M)
Walecki, V. (M)

Windsor (PRI-2)
Jamison, R. P. (A)

Woodbridge (PRI-2)
Melnick, R. (M)
Morgenson, E. O., Jr. (A)
O'Toole, J. J. (M)
Rugg, D. A. (A)

Woodbury (PHI-3)
Bailey, E. S. (M)
Billstein, R. W. (A)
Comninos, D. A. (M)
De Credico, R. J. (A)
Frank, A. J. (M)
Frantz, E. C. (M)
Garcia, A. (M)
Halket, D. R. (M)
Jack, D. E. (M)
Kapust, L. A. (M)
Neubert, H. A., Jr. (M)
Priestley, D. M. (M)
Rittman, M. C. (M)
Seeberger, L. M. (SM)
Stark, J., Jr. (A)
Torre, A. J. (SM)
Wasson, H. M. (M)

Woodbury Heights (PHI-3)
Small, C. R. (M)

Woodcliff (NNJ-2)
McNally, J. P. (A)
Swanson, C. A. (M)

Woodlynne (PHI-3)
Siukola, M. (M)

Wood Ridge (NNJ-2)
Legrand, J. S. (M)
Robinson, K. P. (M)
Yockel, A. P. (M)

Wyckoff (NNJ-2)
Baasch, H. C. (M)
Benenson, C. A. (A)
Braun, W. E. (M)
Chambers, A. B. (A)
Foley, R. M. (A)
Lorenzo, A. M. (A)
Marshall, R. A. (A)
Menes, H. (M)
Oesterle, A. G., Jr. (M)
Samson, R. L. (M)
Troast, W. H. (A)
Watson, W. E. (A)
Zomber, G. L. (M)

NEW MEXICO

Alameda (A-LA-7)
Hopkins, L. A., Jr. (M)

Alamogordo (ALA-H-7)
Alfie, C. L. (M)
Arnold, N. E. (A)
Baker, C. R. (M)
Berg, B. V. (M)
Birkholz, R. L. (A)
Bowman, W. G. (M)
Brasher, R. C. (M)
Brown, A. E. (M)
Bunker, M. (M)
Christensen, R. L. (M)
Cielinski, T. W. (M)
Clark, C. E. (A)
Crawford, J. E. (A)
Crowther, E. E. (A)
Dann, J. A. (M)
Dodd, S. C. (M)
Ebersole, H. R. (M)
Eckert, H. R. (A)
Ehni, F. P. (A)
Evenson, R. C. (M)
Frierdich, W. J. (M)
Green, M. C. (M)
Guenthner, F. K. (A)
Hammer, W. H. (A)
Harrington, M. W. (A)
Harris, L. M. (A)
Hibben, A. T. (A)
Hodgson, D. J. (M)
Huston, E. E. (M)
Jaenke, M. G. (A)
Johnson, R. R. (SM)
Jones, M. W. (M)
Klessig, R. J. (M)
Lane, L. M. (M)
Loudermilk, B. E. (A)
Lovell, R. E. (SM)
Lux, M. O. (M)
Lynch, A. J., Jr. (M)
Lynch, V. J. (M)
Martin, W. T. (A)
Meeker, R. H. (M)
Messina, J. (M)
Nicholson, T. (M)
Polking, U. H. (M)
Price, H. J. (SM)
Pykosz, T. F. (M)
Reed, P. J. (M)
Robson, R. B., Jr. (M)
Rudy, C. E., Jr. (M)
Sage, R. M. (M)
Saylor, R. R. (M)
Schroeder, K. G. (M)
Steele, O. A. (M)
Stotts, W. S. (A)
Tantzen, R. G. (A)
Taylor, H. V. (M)
Tell, W. K. (A)
Tuttle, J. B. (M)
Warnock, R. L. (A)
Webb, R. C. (M)
Weber, M. E. (M)
Wegman, R. L. (M)
Wells, B. D. (A)
Whitley, G. E. (M)
Wiant, R. C. (M)
Williamson, C. A. (A)
Yanick, S. J. (A)
Yarter, B. P. (M)
Zagone, P. V. (M)
Zimmerman, B. L. (A)

Albuquerque (A-LA-7)
Abeyta, G. A. (M)
Adams, R. E. (A)
Aden, R. D. (A)
Allen, B. O. (A)
Allen, L. J. (M)
Alls, C. R. (A)
Ames, J. R. (M)
Anderson, G. W., Jr. (M)
Anderson, W. L. (M)
Arms, A. C. (M)
Arnot, G. A., Jr. (M)
Arquette, D. W. (M)
Bachand, G. (SM)
Bacher, J. R. (M)
Banks, T. G., Jr. (SM)
Barlow, W. J. (M)
Basore, B. L. (SM)
Beolte, J. C. (M)
Bentz, R. D. (A)
Berner, R. R. (M)
Bidwell, C. H. (SM)
Bircher, P. H. (M)
Bishop, R. H. (M)
Bittner, B. J. (SM)
Bivens, H. M. (M)
Bliss, S. A., Jr. (M)
Bloomquist, J. L. (A)
Boatwright, L. T., Jr. (M)
Boettcher, G. E. (A)
Bourgeois, N. A., Jr. (M)
Bradley, W. A. (A)
Bray, W. M. (M)
Briggs, G. U. (M)
Briggs, J. B. (A)
Brooks, E. P. (M)
Brown, E. A. (A)
Brown, W. L. (M)
Bryan, W. C. (M)
Bueffel, B. H., Jr. (SM)
Bunker, G. B. (A)
Bunn, J. R. (A)
Burley, F. E. (SM)
Burns, W. W. (A)
Butler, K. L. (M)
Button, D. M. (M)
Caldes, W. E. (SM)
Canute, A. J. (A)
Carman, W. H. (SM)
Carr, B. J. (M)
Carrick, D. S. (M)
Catalano, A. A. (M)
Catlett, L. E. (A)
Chapp, J. M. (M)
Checketts, E. L. (A)
Childs, C. W. (M)
Chouinard, J. R. (A)
Church, A. B. (M)
Church, T. S. (SM)
Cilke, H. J. (M)
Clement, W. L. (M)
Cnare, E. C. (A)
Cockrill, J. T. (M)
Cohen, A. C. (M)
Cole, L. L. (M)
Commons, D. W. (A)
Connell, J. C. (M)
Cook, K. W. (M)
Cooper, R. L. (M)
Cordova, N. A. (M)
Grannemann, W. W. (M)
Cravens, M. N., Jr. (M)
Creveling, R. (SM)
Daly, W. J. (A)
Dankworth, J. F. (M)
Darugh, F. H. (M)
Daugherty, T. J. (M)
Davis, E. C. (M)
Davis, W. A. (A)
De Lorenzo, R. J. (M)
De Pew, R. T. (A)
Dickerson, T. J. (A)
Dike, S. H. (SM)
Dodds, L. F. (A)
Donohoe, R. W. (M)
Dossey, J. L. (M)
Dowling, E. C. (M)
Doyle, W. A. (M)
Drake, K. W. (M)
Drummond, F. A. (A)
Durham, H. B. (A)
Durkee, R. W. (M)
Eckersley, A. (SM)
Eckhoff, R. W. (A)
Edmonds, S. C. (A)
Elkins, E. P. (M)
Ellingson, A. C. (M)
Elliott, N. J. (M)
Endsley, D. L. (A)
Engquist, A. R. (M)
Fannin, B. M. (SM)
Finch, H. D. (M)
Findlay, J. H. (SM)
Fleissner, C. L. (M)

Fletcher, E. E. (M)
Fligner, O. M. (M)
Flynn, K. D. (M)
Fortman, K. R. (SM)
Fossum, D. E. (SM)
Foster, C. E. (M)
Fowler, G. A. (SM)
French, G. (SM)
French, R. R. (A)
Frenkel, L. J. (SM)
Gablehouse, R. H. (M)
Gallo, L. F. (A)
Gelt, P. A. (M)
Gerwin, H. J. (M)
Given, F. J. (SM)
Glass, R. E. (SM)
Glaze, E. W. (M)
Goldenberg, H. B. (SM)
Gomel, C. L. (SM)
Goss, F. A., Jr. (SM)
Goss, W. (M)
Greene, G. A. (M)
Griffith, R. D. (M)
Gross, J. E. (SM)
Grover, R. K. (M)
Guilford, R. P. (A)
Hagedorn, J., Jr. (M
Halliday, J. R. (M)
Hampy, R. E. (M)
Hansen, V. W. (M)
Hanson, R. E. (M)
Hardin, K. D. (M)
Harrison, C. W., Jr. (SM)
Harroun, T. V. (M)
Hart, A. S., Jr. (A)
Haury, F. W., Jr. (M)
Henry, D. E. (A)
Henry, T. J. (M)
Henry, W. E. (M)
Herrmann, R. W. (M)
Hewitt, R. C. (A)
Hicks, C. W. (SM)
Higgins, P. B. (A)
Hight, S. C. (F)
Hilleary, H. W. (A)
Hinde, J. E. (A)
Hinds, D. R. (M)
Hock, B. A. (A)
Hodges, E. M. (M)
Hogue, L. H. (A)
Holcomb, M. E. (M)
Holden, J. M. (M)
Holladay, R. E. (M)
Holmes, J. J. (M)
Hunter, A. L. (A)
Hunter, W. C. (SM)
Hurford, A. F. (SM)
Huters, A. F. (M)
Hyde, W. L. (M)
Ingersoll, C. E. (M)
Ingham, S. A. (A)
Ingledue, E. F. (M)
Iverson, M. M. (A)
Jackson, H. J. (A)
Jean, F. H. (M)
Jeske, H. O. (M)
Jessen, P. L. (M)
Johnson, G. G. (A)
Johnson, G. S. (M)
Johnson, J. A. (M)
Johnson, R. E. (M)
Jones, L. E. (M)
Jones, M. C. (M)
Jones, R. D. (M)
Jordan, J. C. (M)
Kaff, L. E. (M)
Kail, R. F. (A)
Katzenstein, J. (M)
Keagy, R. B. (M)
Keck, L. J. (M)
Kellom, A. W. (M)
Kelly, R. D. (A)
Kercher, T. T. (M)
Kieffer, E. W. (A)
Kimball, G. S. (M)
King, C. J. (A)
Kinoshita, G. S. (A)
Klink, E. J. (M)
Knapp, T. W., Jr. (M)
Kohlhaas, R. L. (M)
Komen, P. J., Jr. (SM)
Koschmann, A. H. (A)
Koskela, A. C. (M)
Kudrna, K. L. (A)
La Coss, W. D. (M)
Lambert, R. P. (M)
Lareau, J. G. (M)
Laster, J. A. (A)
Lathrop, L. L. (M)
Lawrence, A. F. (M)
Lawrence, B. J. (SM)
Laycock, H. S. (M)
Lee, C. K. (M)
Lemm, R. S. (M)
Lewis, C. E. (M)
Lincoln, R. A. (M)
Lindsay, L. D. (A)
Lisle, H. H. (M)
Lodge, L. L. (A)
Lommasson, T. E. (M)
Lopez, O. (M)
Luchter, D. (M)
Lytle, C. W. (SM)
MacKenzie, D. R. (A)
Madlener, M. J., Jr. (A)
Marker, T. F. (SM)
Martin, W. R., Jr. (M)
Mason, H. (M)
Mattison, M. T. (M)
Max, A. J. (SM)
Maxon, J. S. (M)
McAlexander, D. S. (M)
McCampbell, C. B. (M)
McCann, R. P. (SM)
McCord, W. O., Jr. (SM)
McCracken, H. J. (M)
McDowell, J. K. (M)
McGehee, R. M. (SM)
McIntyre, M. V. (M)
McLay, J., Jr. (SM)
McMillin, J. V. (M)
McRae, J. W. (F)
Melick, J. M. (M)
Melloh, A. W. (SM)
Miller, E. G., Jr. (SM)
Miller, W. R. (A)
Mills, G. S. (A)
Milton, O. (M)
Minnear, L. H. (SM)
Mock, T. D. (M)
Moffat, W. T. (A)
Montoya, E. K. (A)
Moore, R. K. (SM)
Morrison, D. M. (M)
Morton, W. B. (M)
Myers, R. D. (A)
Myers, V. V., Jr. (M)
Myre, W. C. (M)
Naley, N. C. (M)
Newlin, G. C. (M)
Newsom, M. M. (M)
Noble, R. P. (M)
Nowlin, D. K. (A)
O'Nan, R. L. (A)
Ouverson, C. D. (M)
Pace, E. C. (A)
Pace, T. L. (SM)
Paddison, L. J. (M)
Padilla, D. J. (A)
Pafford, W. B. (M)
Palmer, J. E. (SM)
Palmer, P. R. (M)
Patterson, H. H., Jr. (SM)
Pepmueller, A. D. (A)
Petty, W. E. (M)
Peurifoy, R. L., Jr. (A)
Phinney, E. S. (M)
Porter, J. R. (M)
Porterfield, H. D. (M)
Poulsen, H. L. (A)
Price, H. J. (A)
Purdue, C. H. (M)
Quinlan, R. E. (SM)
Ray, B. M. (SM)
Ray, H. K. (M)
Read, G. R., Jr. (M)
Reese, J. D. (M)
Rehberg, J. C. (M)
Reineke, R. G. (A)
Reintjes, I. C. (M)
Relyea, J. R. (A)
Remaley, C. W. (M)
Reynolds, R. S. (SM)
Ridinger, J. J. (M)
Riggins, G. L. (A)
Rinker, E. A. (A)
Robie, D. D. (A)
Roby, E. M. (A)
Rogers, J. L. (A)
Rogers, W. J., Jr. (A)
Rose, F. A. (M)
Ross, W. C. (M)
Rudolph, R. J. (M)
Rust, R. F. (M)
Sabisch, K. A. (M)
Sander, H. H. (M)
Schaefer, J. (A)
Scharff, J. H. (A)
Scharrer, R. G. (M)
Schauer, J. D. (SM)
Scheele, P. F. (A)
Scheibner, J. E. (M)
Schelby, F. (M)
Schiess, M. C. (M)
Schroeder, E. F. (A)
Schultheis, T. M. (A)
Schwarz, A. C. (M)
Scott, J. H. (M)
Scranton, W. A. (M)
Seavey, R. W. (M)
Sedlack, B. F. (A)
Senter, C. H. (SM)
Sewell, B. L. (M)
Shaum, R. L. (SM)
Shoemaker, W. F. (M)
Shoup, J. P. (SM)
Siwinski, V. (M)
Singleton, H. A. (A)
Sinnott, N. F. (A)
Sisho, C. F. (A)
Skinner, F. L. (M)
Skousen, O. K. (M)
Smart, T. E. (M)
Smith, H. F., Jr. (A)
Smith, J. D. (M)
Smith, R. L. (M)
Smith V. K. (M)
Smoll, L. A. (M)
Snyder, L. G. (A)
Sonnenberg, R. E. (M)
Sparks, D. (A)
Spence, R. C. (SM)
Spray, S. D. (A)
Stockley, C. H., Jr. (A)
Stone, T. E. (A)
Swain, R. R. (M)
Szeman, P. (M)
Thomas, J. A. (M)
Tidwell, R. M. (M)
Tillery, R. J. (M)
Tillman, J. E. (SM)
Torres, H. S. (A)
Trogdon, F. H. (M)
Vayer, R. M. (M)
Vulgan, E. J. (A)
Walker, H. E. (SM)
Walsh, J. P. (M)
Washburn, B. W. (M)
Watkins, L. C., Jr. (SM)
Watson, D. E. (M)
Weber, M. (SM)
Weimer, R. E. (A)
Weingarten, D. H. (M)
Wentz, J. L. (A)
West, R. E. (A)
Westcott, H. S. (M)
Westman, W. W., Jr. (A)
Weston, B. J. (M)
Whaley, E. W. (M)
Whitaker, W. A. (M)
Widenhoefer, N. C. (A)
Williams, C. S., Jr. (A)
Williams, L. E. (A)
Williams, R. H. (A)
Wood, E. E. (A)
Worden, O. L. (A)
Wright, O. L. (M)
Wugalter, S. S. (A)
Wyatt, J. C. (M)

Belen (A-LA-7)
Douglass, T. F. (M)

Carlsbad (EP-6)
Battison, J. H. (SM)
Smith, M. E. (A)

Cedar Crest (A-LA-7)
Miller, G. L. (A)
Roeschke, C. W. (SM)
Urquhart, K. J. (M)

Cloudcroft (ALA-H-7)
Benton, C. U. (M)

Clovis (A-LA-7)
Isemann, L. W. (A)

Edgewood (A-LA-7)
Wilson, G. Q. (M)

Farmington (A-LA-7)
Bowles, M. E. (M)

High Rolls (ALA-H-7)
Billups, E. E. (M)
Willard, D. S. (M)

Hobbs (EP-6)
Roush, R. W. (M)
Terry, W. D. (A)

Holloman AFB (ALA-H-7)
Bauman, E. J. (M)
Bean, H. T. (M)
Carlson, H. A. (M)
Chandler, D. P. (M)
Chick, W. G. (M)
Doherty, J. M. (M)
Fix, O. W. (SM)
Glenn, L., Jr. (A)
Godwin, C. B. (M)
Harmon, R. L. (A)
Johnson, W. H. (M)
Jones, G. D. (A)
Kiefer, C. F., Jr. (M)
Koellner, K. H. (A)
Levin, K. L. (SM)
Liston, D. H. (M)
Lopez, O. C. (A)
Mahaffey, R. F. (M)
Marlow, H. C. (A)
Miller, J. C. (M)
Nolte, U. C. (M)
Small, P. (M)
Stith, G. A. (M)
Vlcek, D. H. (M)
Wagner, H. E. (M)
Waterman, A. (A)
Whited, C. R. (M)
Willibald, G. E. (M)

Kirtland AFB (A-LA-7)
Kennedy, M. J. (M)
Kuras, A. C. (M)

Las Cruces (EP-WS-6)
Barton, J., Jr. (M)
Bennett, A. O. (A)
Boone, B. B. (A)
Coffee, T. A. (M)
De Pasquale, N. D. (A)
De Rosa, A. L. (A)
Ecklund, R. E. (A)
Ewitt, W. B. (A)
George, J. E. (A)
Goldberg, A. S. (M)
Goldin, M. (M)
Hemingway, F. S., Jr. (M)
Jensen, W. V. (M)
Johnson, G. E. (M)
Keys, D. D. (A)
Kimball, V. L., Jr. (SM)
Kreitler, C. E. (M)
Linn, H. B. (A)
Miller, V. L. (M)
Perdue, J. D. (SM)
Pierson, J. L. (A)
Reid, J. C. (M)
Sedillo, J. N. (A)
Smith, H. D. (M)
Smith, M. V. (A)
Taylor, L. S. (M)
Thompson, O. A. (A)
Wagner, N. (A)
Welch, C. M. (SM)

Las Vegas (A-LA-7)
Proctor, B. M. (A)

Los Alamos (A-LA-7)
Aiello, W. P. (M)
Baker, D. A. (M)
Boyd, T. J., Jr. (A)
Briscoe, W. L. (SM)
Brown, C. J. (M)
Carlson, W. F. (M)
Connell, J. W. (M)
Crew, W. H. (SM)
Crosby, H. A. (M)
Deal, J. B., Jr. (M)
Demuth, H. B. (M)
Doremire, F. E. (SM)
Fagan, P. (SM)
Freyman, R. W. (SM)
Gilland, J. R. (M)
Glore, J. P. (A)
Greenwood, A. H. (A)
Hale, L. C. (A)
Grant, L. P. (M)
Harrington, D. C. (M)
Hayes, B. (M)
Helgeson, B. P. (A)
Helmer, R. J. (A)
Hiebert, R. D. (M)
Hull, D. E. (SM)
Janney, D. H. (M)
Jennings, H. K. (M)
Kemp, E. L., Jr. (M)
Koelle, A. R. (M)
Kraker, K. P. (M)
Lamb, J. K. (SM)
Landahl, C. E. (M)
Lang, H. J. (M)
Lewis, R. E. (M)
Lilienthal, J. R. (SM)
Long, C. M. (M)
Maestas, J. F. (M)
Malmberg, A. F. (M)
McCloud, B. J. (M)
Micheli, A., Jr. (M)
Nutter, M. J. (M)
Partridge, R. E., Jr. (M)
Peck, R. C. (M)
Rawcliffe, A. S. (SM)
Rudnick, P. (SM)
Schulze, H. T. (M)
Singer, S. (SM)
Slager, D. M. (A)
Smith, D. A. (SM)
Spack, W., Jr. (M)
Standring, H. A. (M)
Stapleton, R. E. (M)
Stephenson, D. L. (M)
Stevens, R. R., Jr. (M)
Tesche, F. R. (SM)
Trexler, V. L. (M)
Watts, R. J. (SM)
Weber, W. (M)
Weintraub, L. (A)
Wilson, A. E. (M)
Winston, J. G. (M)
Wittman, F. E. (M)

Portales (A-LA-7)
Johnson, C. K. (M)

Roswell (EP-6)
Cox, D. D. (M)
Davidson, R. L. (A)
Foster, F. N. (M)
Harrison, P. L. (M)
Kendall, R. N. (M)
Liu, C. K. (A)
Seale, I. A. (M)
Slee, J. E. (M)
Wedekind, D. E. (M)

Sandia Base (A-LA-7)
Black, H. (M)
Jorgensen, R. W. (M)

Sandia Park (A-LA-7)
Yearout, D. K. (A)

Sandoval (A-LA-7)
Smith, W. T. (SM)

Santa Fe (A-LA-7)
Bickford, K. F. (A)
Corkran, R. E. (A)
Doles, A. E. (M)
Fisher, R. C. (A)
Ford, W. R. (M)
Heyman, H. (SM)
Martin, C. F. (M)
Wilcoxon, H. O. (M)

Socorro (A-LA-7)
Loftus, R. P. (A)
McFarland, J. H. (A)

State College (EP-WS-6)
Brown, H. A. (SM)
Carbine, I. L. (A)
Duncan, R. H. (M)
Haas, H. W. (M)
Lee, E. D. (M)
Noda, T. T. (A)
Stassinos, J. (M)

Tierra Amarilla AFB (A-LA-7)
Moskowitz, S. (M)

Tijeras (A-LA-7)
Middelton, A. D. (SM)
Stout, K. D. (M)

Tularosa (ALA-H-7)
Lecrone, J. G. (A)
Suska, J. T., Jr. (M)

White Sands Proving Ground (EP-WS-6)
Andelin, D. R. (M)
Arnold, R. D. (M)
Crocker, B. G. (A)
Druckerman, M. (M)
Enright, D. J. (M)
Frel, J. (M)
Hemker, J. B. (M)
Hubbell, P. G. (M)
Kidwell, R. P. (A)
Kucera, A. T. (M)
Lippke, B. R. (M)
Lowry, P. E. (M)
Mayfield, W. H. (M)
McCalla, T. M., Jr. (M)
Moore, T. E. (M)
Moss, E. C. (M)
Paul, R. H. (A)
Pyle, C. A. (A)
Schwartz, O. A. (M)

NEW YORK

Afton (BING-1)
Lavender, R. W. (M)

Akron (BN-1)
Mech, H. D. (A)
Neubauer, R. A. (M)

Albany (SCH-1)
Anastas, D., Jr. (M)
Berge, R. I. (A)
Blau, C. C. (A)
Bloomsburg, R. A. (M)
Bogossian, Z. (M)
Dalrymple, J. (A)
Dewire, D. S. (SM)
Gengarelly, T. (A)
Levitas, A. (M)
Marin, I. L. (SM)
Maurer, J. W. (M)
Muth, J., Jr. (M)
Portanova, M. C. (M)
Schaffer, C. A. (M)
Schwedock, B. (A)
Stromer, P. R. (A)
Tewell, J. R., Jr. (M)
Torre, R. C. (A)
Wilbur, D. A. (SM)

Albertson (LI-2)
Corrado, V. M. (A)
Delore, G. E. (A)
Georges, M. J. (A)
Kelvin W. (M)
Kraxberger, G. S. (A)
Lenihan, P. M. (M)
Robinson, D. L. (SM)
Shimer, R. B. (M)
Sullivan, G. D. (M)
Westman, H. P., Jr. (M)

Alden (BN-1)
Allen, J. K. (M)

Alfred (ELM-C-1)
Burzycki, M. (M)

Allegany (BN-1)
Steiger, A. E. (A)

Alplaus (SCH-1)
Robinson, D. (M)
Story, R. W. (M)

Altamont (SCH-1)
Bleichner, C. W. (SM)
Fortington, W. H. (M)
Hannam, H. J. (M)
Hutchinson, D. F. (M)
McNary, B. D. (M)
Pennoyer, R. T. (SM)
Washburn, F. L., Jr. (M)

Amityville (LI-2)
Barone, S. A. (SM)
Brockner, C. E. (SM)
Chadwick, J. H., Jr. (A)
Cosmas, A. (M)
Forsberg, A. W. (M)
Frank, F. P. E. (A)
Hagen, D. H. (M)
Harvey, W. M., Jr. (M)
Isherwood, H. (A)
Krayer, G. (A)
Palmer, W. (F)
Pearsall, C. H., Jr. (M)
Schabehar, E. A. (M)
Sixbey, S. R. (M)
Stuart, A. F. (M)
Zeluff, I. S., Jr. (SM)

Amsterdam (SCH-1)
Bohanske, T. A. (M)
Brown, J. E. (M)
Dillon, J. E. (A)
Garratt, P. M. (M)

Angola (BN-1)
Olney, V. W. (M)
Riker, C. E. (A)

Apalachin (BING-1)
Angevine, A. R. (M)
Betts, W. K. (M)
Flanders, E. S. (M)
Heim, K. P. (M)
Jones, R. W. (M)
Obeharsky, P. (M)
Schaaf, F. W. (A)
Stilwell, G. R., Jr. (M)
Sweet, M. E. (M)

Ardsley (NY-W-2)
Busharis, J. G. (M)
Graveson, R. T. (M)
Prestholdt, O. (M)

Armonk (NY-W-2)
Hector, L. G. (SM)
Lawton, L. M., Jr. (M)
Northen, W. C. (M)
Porterfield, E. A. (M)

Arverne (LI-2)
Meyer, W. C. (A)

Astoria (LI-2)
Asmundsson, E. (A)
Benesch, E. J. (M)
Berlly, E. (A)
Breitzer, D. I. (M)
Chittick, C. (A)
Davis, J. T. (M)
Gettner, D. A. (M)
Iversen, R. J. (SM)
Lanzisero, N. T. (A)
Odabashian, H. (A)
Perini, H. R. (A)
Perreira, D. G. (A)
Petrocelli, V. (A)
Phanos, S. (M)
Pighi, L. H. (M)
Siouris, G. M. (A)
Spirakis, P. (M)
Strauss, H. J. (A)
Tackel, H. W. (SM)
Termini, F. A. (A)
Zafer, G. S. (A)

Atlantic Beach (LI-2)
Harvey, A. J. (A)

Attica (ROC-1)
Frazer, A. W., Jr. (A)

Auburn (SYR-1)
Blanchard, J. W. (M)
Byrns, R. E. (M)
Driskill, R. D. (M)
Grenier, G. H. (M)
Hood, C. N., II (SM)
House, H. J. (A)
McFerran, L. E. (SM)
Neppel, W. C. (M)
O'Connor, C. R. (A)
Read, O. M., III (A)
Richardson, T. F., Jr. (M)
Vize, J. P. (M)
Wagner, B. F. (M)
Wolf, G. T. (A)

Aurora (SYR-1)
Willy, J. R. (M)

Avon (ROC-1)
Malone, W. J. (A)
Peters, C. R. (A)

Babylon (LI-2)
Anderson, R. G. (M)
Biggs, E. M., Jr. (M)
Bleil, F. J. (SM)
Brown, M. W., Jr. (M)
Cherry, M. (M)
Dudley, D. J. (A)
Gollhofer, P. J. (M)
Holmes, A. P. (A)
King, R. E. (M)
Lory, J. (M)
Lott, J. C. (M)
Morhn, H. W. (A)
Picone, J. D. (M)
Rafferty, W. G. (A)
Siegel, L. I. (M)
Spillane, L. R. (A)
Szuchy, N. C. (A)
Walsh, C. (SM)

Bainbridge (BING-1)
O'Connell, J. V. (A)

Baldwin (LI-2)
Browning, S. D. (M)
Candido, J. V. (SM)
Constable, R. C. (M)
Dayton, F. R. (M)
De Valve, R. H. (M)
Fogelberg, J. E. (A)
Fraser, R. M. (SM)
Hinsdale, E. M., Jr. (SM)
Hults, E. H. (M)
Karron, G. A. (M)
Lautenberger, H. W. (M)
Ozolins, I. (A)
Petrykanyn, J. (M)
Plotkin, A. A. (A)
Rhodes, B. S. (A)
Sall, C. W. (SM)
Seide, L. M. (A)
Shelton, P. W. (A)
Solbrig, A. L. (A)
White, C. E. (A)
Whitefall, J. W. (M)

Baldwinsville (SYR-1)
Blodgett, A. R. (M)
Bloomquist, R. G. (M)
Chapin, W. T. (SM)
Cipher, J. A. (M)
Connolly, T. E. (M)
Cottle, D. W. (M)
Cowan, F. C. (A)
Cummings, S. J. (M)
Custin, J. G. (M)
Dodge, P. A. (M)
Downey, R. L. (M)
Fincher, J. C. (M)
Fish, K. A. (A)
Goetter, W. F. (M)
Harshbarger, J. H., Jr. (M)
Hildebrandt, H. J. (M)
Jensen, R. C. (SM)
Jones, D. V. (M)
Jones, W. H. (A)
Lavin, H. P. (M)
Lester, B. R. (SM)
Majcher, C. L. (A)
Mathis, V. P. (SM)
Myers, R. T. (M)
North, S. M. (M)
Powell, R. A. (A)
Rhodehamel, A. J. W. (M)
Stauffer, J. W. (M)
Thies, C. H. (SM)
Vahle, J. (M)
Wainright, J. A. (SM)
Winchester, D. S. (M)
Wood, R. F. (M)
Young, G. G. (SM)

Ballston Lake (SCH-1)
Beattie, C. L. (A)
Blume, A. E. (SM)
Bristol, T. R. (SM)
Coffey, W. M. (M)
Jachym, T. M. (M)
Krueger, D. H. (M)
Pinkstaff, J. R. (A)
Stokoe, R. H. (M)
Truax, C. J. (M)
Whitten, J. R. (M)

Ballston Spa (SCH-1)
Harrison, C. L. (A)
O'Donohue, J. P. (M)

Batavia (ROC-1)
Abboud, F. L. (A)
De Marinis, J. V. (M)
Drummeter, W. (M)
Henry, F. T. (M)
Kwit, C. J. (A)
Nagy, G. (SM)
Pieck, H. (M)
Richardson, D. A. (M)

Bath (ELM-C-1)
Barney, W. H., Jr. (M)
Bisko, T. (A)
Evon, J. (M)
Fink, J. H. (M)
Fox, R. A. (A)
Haley, A. J. (M)
Massey, W. F. (M)
Payne, W. J. (M)
Szilasi, A. (SM)

Bayport (LI-2)
Watson, R. F. (M)

Bayshore (LI-2)
Comparetta, T. J. (M)
Koch, E. J. (M)
Kopp, R. E. (A)
Leedham, R. (M)
Melliger, A. W. (M)
Robertson, C. A. (A)
Rosenthal, R. F. (M)
Schindwolf, R. (A)
Sears, R. A. (A)
Simon, W. C. (SM)

Bayside (LI-2)
Adler, L. L. (M)
Averett, S. S. (M)
Baasch, T. L. (A)
Bartram, R. H. (A)
Battaglia, C. V. (A)
Battle R. P. (M)
Bernstein, J. L. (M)
Bloom, L. R. (SM)
Blum, R. J. (A)
Bohn, R. (A)
Bracco, D. J. (M)
Brown, G. C. (A)
Caffiaux, J. A. (SM)
Canadeo, G. N. (A)
Carver, F. (A)
Cawood, D. W. (M)
Chang, W. H. K. (M)
Cohen, B. (A)
Cohen, J. (M)
Coleman, A. H. (M)
Cortizas, A. P. (M)
Costa, T. A. (M)
De France, J. J. (SM)
De Piola, F. J. (M)
De Witt, C. M., III (M
Doyle, E. J. (M)
Eisenbach, J. (M)
Ellefson, B. S. (F)
Eng, J. W. (SM)
Engle, D. C. (M)
Fabricant, B. S. (M)
Feltzin, A. (A)
First, D. (SM)
Friedrich, S. (M)
Gardiner, C. E. (M)
Gatti, W. (M)
Gellert, J. (M)
Golick, S. (A)
Gorowitz, M. (M)
Grazda, E. E. (M)
Gross, J. (M)
Gross, L. (M)
Gross, V. (A)
Hanley, G. L. (M)
Harrison, R. I. (M)
Harrison, S. W. (SM)
Hayes, K. V. (A)
Hurley, E. T. (M)
Jacob, G. W. (M)
Jacobson, N. (M)
Kaiteris, C. P. (M)
Keck, P. H. (M)
Kellerman, D. (M)
Kleinberg, H. (A)
Lepic, R. E. (M)
Lewis, B. F. (M)
Lieber, S. (M)
Ligori, J. (M)
Livingston, D. C. (SM)
Lowenschuss, O. (SM)
Lubkin, S. (SM)
Lynch, J. A. (A)
Maffei, E. V. (A)
Marx, J. (SM)
Mazzochi, J. J. (M)
Mealy, J. T. (M)
Melnick, H. (M)
Michalski, E. H. (M)
Nadler, B. D. (SM)
O'Neill, G. D. (F)
Paulisen, H. (M)
Podeyn, G. J. Jr. (A)
Pollack, S. (A)
Poteracke, J. L. (M)
Ramirez, E. V. (M)
Relis, M. J. (M)
Ressler, H. C. (SM)
Reynolds, M. R. (A)
Rook, S. (A)
Rosen, B. (M)
Rosenstein, M. (A)
Saalborn, O. E. (M)
Salz, N. P. (SM)
Schaetzl, F. R. (A)
Shaler, G. J. (M)
Shipley, D. W. (M)
Smith, H. H. (M)
Sonnenschein, A. H. (SM)
Sopchick, F. J. (A)
Spero, W. I. (A)
Staschover, L. (M)
Suito, T. (A)
Sutkin, S. (M)
Taylor, A. (M)
Taylor, I. R. (M)
Trinkaus, J. W. (SM)
Troxler, L. J. (SM)
Tullius, A. B. (M)
Tylinski, F. V. (A)
Villafane, F. (A)
Whalley, W. B. (SM)
Wint, D. (M)
Zwack, H. W. (M)

Bayville (LI-2)
Bartolomei, G. G. (M)
Dunn, B. B. (M)
Finn, E. C. (A)
Forker, L. W. (A)
Krumbein, J. (A)
O'Connor, J. F. (M)
Savino, R. T. (A)
Trochesset, H. J. (M)
Yee, H. (M)

Beacon (NY-MH-2)
Conover, D. G. (A)
Craft, J. L. (M)
Cummings, C. E. (M)
Zakarias, I. (M)

Bearsville (NY-MH-2)
Menard, E. A., Jr. (M)

Beaver Dams (ELM-C-1)
Marshall, D. E. (A)

Bedford (NY-W-2)
Halstead, W. S. (SM)
Rosenberg, H. J. (SM)

Bedford Hills (NY-W-2)
Vogeler, R. A. (M)

Beechhurst (LI-2)
Coundjeris, A. (SM)
Plofker, M. H. (M)
Rhodes, J. F. (A)
Seetoo, T. F. (M)

Bellaire (LI-2)
Amato, J. A. (M)
Cataldi, J. T. (M)

Belle Harbor (LI-2)
Bloom, G. M. (M)
Schure, A. (M)
Williamson, R. T. (A)

Bellerose (LI-2)
Altman, D. (A)
Biss, R.-E. P. (A)
Bolton, G. E. (A)
Burger, J. H. (A)
Colbert, R. P. (A)
Czina, R. H. (M)
Daly, J. M. (M)
Drogin, E. M. (A)
Farber, H. (M)
Fialkov, H. (M)
Frey, H. E. (M)
Greenberg, D. R. (M)
Homeyer, W. (M)
Kashkin, R. (M)
Klein, H. M. (A)
Lewis, M. B. (M)
Malchman, F. L. (A)
McDonald, J. F., Jr. (M)
Schulkind, D. (A)
Tramposch, W. J. (M)
Wengryn, M. (M)

Bellerose Manor (LI-2)
Buchsbaum, W. H. (SM)

Bellmore (LI-2)
Briggs, E. Z. (A)
Deller, P. P. (A)
Glaser, E. M. (SM)
Jackson, C. H. (M)
Parke, H. G. (M)
Ruggi, A. G. (M)
Tocci, D. P. (M)
Wellman, F. C. (M)
Wright, M. L. (M)

Bellport (LI-2)
Madey, R. (M)

Bethpage (LI-2)
Algase, L. I. (SM)
Barlowe, M. (A)
Biloon, R. F. (SM)
Bogner, R. D. (M)
Bronstein, F. (A)
Candiotti, J. (A)
Cullen, F. P. (M)
Fried, G. (A)
Gamble, J. H. (M)
Gioia, J. (A)
Gruber, R. E. (A)
Jones, M. W. (A)
Lipset, L. B. (M)
Madigan, J. P. (A)
Marrara, C. (M)
Martin, M. B. (M)
Nelson, V. H. (M)
Nosal, P. (M)
Olah, J. (A)
Rice, J. (M)
Rinkel, S. A. (M)
Russell, D. H. (M)
Schenck, H. F. (M)
Schumacher, J. H., Jr. (M
Sivilli, J. M. (A)
Staller, J. J. (SM)
Stankiewicz, S. (SM)
Trock, R. (SM)
Van Nostrand, P. B. (A)
Yarnall, W. M. (A)

Big Flats (ELM-C-1)
Howe, L. H. (M)

Binghamton (BING-1)
Baats, A. C. (M)
Barrentine, W. M. (M)
Bartholy, F. E. (M)
Beausoleil, W. F. (M)
Burton, W. E. (M)
Carpenter, M. L. (A)
Carroll, J. C. (A)
Corderman, S. A. (M)
Day, R. C. (M)
Decker, D. M. (M)
Decker, G. A. (VA)
Egan, G. E. (M)
Egan, S. H. (A)
Ellsworth, R. T., Jr. (A)
Foss, F. A. (M)
Gilbert, H. G. (SM)
Hallinan, C. (M)
Harger, W. W. (SM)
Hemstreet, H. S. (SM)
Hicken, J. (SM)
Higgs, P. T. (A)
Hilburn, E. D. (A)
Kirk, R. L. (M)
Klinko, E. H. (A)
Kornbluh, A. J. (A)
Lasewicz, V. J. (M)
Laws, L. C. (A)
Ling, O. T. (SM)
Lockhart, B. W. (M)
Lowhurst, H. G. (M)
Mahoney, R. E. (A)
Mailhot, P. J. (M)
McPheeters, D. W. (M)
Merchant, J. H. (M)
Mitchell, J. (A)
Nash, R. W. (M)
New, R. F. (M)
Reed, G. G. (A)
Rowley, R. A. (M)
Ricciardelli, G. (M)
Saunders, W. F. (A)
Schmid, H. (A)
Schwarm, E. G. (SM)
Sitterlee, L. J. (SM)
Stants, L. H. (SM)
Vignos, J. P. (M)
Warner, D. P. (A)
Weddell, R. L. (A)
West, J. L. (SM)
Whitmore, J. H. (M)
Zimmerman, D. O. (M)

Black Creek (ELM-C-1)
Lewis, R. M. (M)

Bloomington (NY-MH-2)
Loekle, O. J. (A)

Blossvale (RU-1)
Vogel, G. J. (A)

Blue Point (LI-2)
Field, P. L. (M)

Bohemia (LI-2)
Hajek, S. J. (A)

Boston (BN-1)
Drankhan, V. C. (M)

Bowmansville (BN-1)
Lindberg, E. (A)

Bresoport (ELM-C-1)
Scullin, C. H. (M)

Brentwood (LI-2)
Carroll, J. J. (A)
Day, S. M. (A)
Gould, G. B. (M)

Brewerton (SYR-1)
Tooley, C. E. (A)

Brewster (NY-2)
Dreher, C. (F)
Dunford, W. (A)
Hemming, C. B. (M)
Lauer, E. K. (M)
Murtha, J. F. (A)
Siegert, R. R. (M)

Briarcliff Manor (NY-W-2)
Brooks, L. P. (M)
Burditt, W. F. (A)
Ellen, N. A. (SM)
Grossman, R. (M)
Henderson, N. C. (A)
Kruse, J. R., Jr. (M)
Marinace, R. C. (A)
Petrillo, B. J. (M)
Stitzer, J. (M)
Sutherland, C. M. (M)
Urban, C. (M)

Briarwood (LI-2)
Luber, L. (M)
Nemeroff, I. (A)
Ney, A. L. (M)
Podell, B. A. (M)

Brightwaters (LI-2)
Becker, S. (M)
Faltin, J. W. (SM)
Geiger, J. M. (M)
Kramer, S. I. (SM)
Lang, J. G. (VA)
Margolin, J. (M)

Bronx (NY-2)
Abrevaya, E. (M)
Ackerman, D. D. (A)
Adelsberg, J. (A)
Adler, C. (A)
Alfieri, G. J. (A)
Anapol, J. (M)
Anaya, F. J. (M)
Aubrey, G. (M)
Barjian, H. (M)
Barkey, R. (M)
Barosin, S. (M)
Barr, E. E. (M)
Baumoel, D. (M)
Beattie, J. W. (M)
Berger, L. (A)
Blaustein, S. E. (M)
Blickstein, M. J. (M)
Blumenstock, A. (M)
Boles, S. (M)
Booth, H. H. (M)
Brown, H. S. (M)
Byrne, J. P. (A)
Byrnes, I. F. (F)
Campbell, G. M. (A)
Caraceni, J. S. (M)
Carnevale, M. D. (A)
Cash, W. I. (M)
Cassidy, J. J. (M)
Chanzit, L. (M)
Chellik, P. (M)
Cohen, A. B. (M)
Cohen, H. P. (A)
Cohen, M. (M)
Cohn, M. R. (A)
Constant, T. N. (M)
Crawford, J. J. (M)
Crowley, T. J. (M)
D'Amico, V. J. (A)
Darnovsky, A. (A)
Davidson, G. M. (M)
De Rubeis, L. (A)
De Salvo, A. F. (SM)
Diamond, J. E. (M)
Dickstein, M. (M)
Divins, B. (A)
Dolobowsky, I. (M)
Doyle, F. H. (M)
Dugandzic, P. F. (A)
Egan, W. E. (A)
Factor, S. (A)
Farrago, R. J. (A)
Farrand, C. L. (F)
Federing, A. M. (M)
Ferraro, W. (M)
Ferri, R. I. (A)
Fidanza, W. (A)
Fleming, M. E. (M)
Fletcher, J. L. (M)
Flynn, C. W. (M)
Friedman, E. H. (M)
Friedman, O. (SM)
Galli, E. J. (A)
Geller, H. (M)
Giannattasio, A. R. (M)
Giordano, A. M. (A)
Glatt, G. M. (M)
Golden, H. (A)
Golden, R. J. (M)
Goldman, E. R. (A)
Gonzalez, C. M. (A)
Good, S. (A)
Goodman, A. (SM)
Gordon, S. (A)
Grabel, A. (M)
Greenberg, E. P. (M)
Greenblatt, E. (M)
Greenblatt, S. (M)
Guthalt, M. (A)
Hanau, R. (A)
Hanft, J. (M)
Haran, P. P. (M)
Harmatuk, S. N. (M)
Harris, B. (SM)
Hastings, J. J. (M)
Henion, T. T. (A)
Hersch, W. (M)
Isaacson, H. B. (A)
Jacoby, N. (M)
Johannes, V. I. (A)
Kaden, P. A. (M)
Kantrowitz, P. (M)
Kaplan, L. I. (M)
Kass, E. J. (M)
Katz, I. N. (M)
Kirschner, M. (A)
Kline, B. H. (A)
Klipper, H. (A)
Knapp, J. Z. (M)
Knowles, R. D. (M)
Kram, B. (M)
Kuhn, C. W. (A)
Lampert, L. (M)
Landau, E. (A)
Lannary, J. (A)
Laos, J. P. (A)
Lastig, W. (M)
Lefkowitz, E. (A)
Leichtman, J. A. (A)
Lerman, H. (A)
Linder, A. (M)
Low, F. (A)
Lupano, E. L. (A)
Maniere, N. E. (A)
Mann, O. J. (M)
Mascetti, B. J. (M)
Matarese, J. (M)
McDonald, D. F. (M)
McKnight, R. W. (M)
Meyers, J. G. (SM)
Miller, D. A. (M)
Miller, M. P. (M)
Moss, A. M. (M)
Munt, I. (A)
Murphy, J. J. (M)
Muscolino, J. V. (M)
Misman, I. J. (M)
O'Brien, R. J. (A)
O'Hare, T. F. (M)
Olick, J. (A)
Oppenheim, J. (M)
Oppenheimer, H. N. (A)
O'Sullivan, T. J. (M)
Oujevolk, G. B. (A)
Palatinus, A. C. (A)
Pasternak, J. M. (A)
Pechner, B. J. (A)
Perlman, D. J. (M)
Pintell, R. H. (SM)
Portnoy, A. (M)
Raiti, J. J. (A)
Raship, M. (M)
Reiss, E. V. (A)
Renkowitz, D. (M)
Rensin, E. (A)
Rieders, A. T. (A)
Rimal, E. (M)
Roberts, H. (SM)
Rooney, W. V. (M)
Rosenfeld, A. (M)
Rosenheck, B. M. (A)
Rosenick, M. (M)
Roth, R. F. (M)
Rothbart, A. (M)
Ruttenberg, K. A. (M)
Sachs, G. L. (A)
Sales M. (M)
Salit, M. (M)
Saltzberg, B. R. (M)
Sambuco, A. J. (M)
Schachter, H. (M)
Scharf, G. (M)
Schick, W. (M)
Schischa, E. (M)
Schneider, G. (M)
Schneider, S. (M)
Schwartz, J. H. (M)
Schwartz, M. E. (A)
Schwartz, S. (M)
Sedacca, J. M. (A)
Seidman, H. A. (A)
Selden, N. (M)
Shalvoy, R. E. (M)
Shegirian, P. (M)
Slavin, M. J. (M)
Smith, G. J. (A)
Spector, G. (A)
Spielberg, J. R. (A)
Sportty, S. (A)
Steinberg, I. (M)
Stiefel, A. A. (A)
Sullivan, E. (M)
Trampel, K. M. (M)
Trott, G. G. (A)
Victor, H. W. (SM)
Vogel, S. (A)
Wald, A. S. (M)
Weinshanker, J. (M)
Weinstein, J. M. (A)
Weinstein, R. L. (A)
Weiss, S. (M)
Weiss, S. R. (A)
Weissman, S. (A)
Worthen, G. B. (M)
Wortzman, D. (M)
Yablon, M. (M)
Zadanowsky, L. (A)

Zsalavsky, S. (M)
Zebrowitz, A. R. (M)
Zechnowitz, A. L. (A)
Zenchoff, P. (M)
Zinn, A. W. (M)
Zola, M. J. (A)
Zupan, B. (M)

Bronxville (NY-W-2)
Bein, W. (SM)
Grossman, H. (SM)
Halsall, M. (A)
Harel, A. (M)
Langley, R. H. (F)
McCoy, R. D. (SM)
Ossoff, A. (A)
Rie, C. L. (A)
Tomaino, M. F. (M)
Waldron, R. E. (M)
Whittemore, D. B. (A)
Woods, B. L. (M)

Brookhaven (LI-2)
Handlosser, J. S. (M)

Brooklyn (NY-2)
Abilock, S. (M)
Abrams, S. J. (A)
Adams, H. G. (M)
Ainbender, N. K. (A)
Albanese, A. P. (M)
Albanese, P. (A)
Aloisio, R. R. (M)
Alperin, N. E. (M)
Alterman, M. E. (M)
Altomare, V. A. (A)
Amling, J. L. (M)
Ammirati, S. (M)
Anderson, C. L. (A)
Angelari, R. D. (A)
Angelastro, S. P. (A)
Angelo, E. J., Jr. (SM)
Anton, N. G. (F)
Anzalone, A. T. (M)
Appleman, S. (M)
Aram, R. A. (A)
Aronoff, M. (M)
Aronowitz, A. (M)
Arzi, G. D. (A)
Ascione, N. R. (M)
Ascione, R. (A)
Astor, A. (A)
Auñero, H. J. (M)
Aymar, E. (VA)
Baade, E. C. (A)
Bader, B. (M)
Baggia, M. E. J. (M)
Baggia, R. J., Jr. (M)
Baker, L. C. (A)
Balas, P., Jr. (A)
Ball, I. R. (A)
Baluta, H. J. (M)
Bambara, J. E. (SM)
Baron, A. R. (M)
Barth, A. M. (A)
Basilico, C. (A)
Baskin, H. B. (M)
Bauman, M. (M)
Bayer, I. (M)
Bazylevsky, G. (M)
Beach, R. (SM)
Becker, L. (A)
Beidler, S. (M)
Belluck, R. E. (A)
Belove, C. (A)
Berger, M. (M)
Bergstein, L. E. (A)
Berkovits, B. V. (M)
Berkowitz, B. (A)
Berlin, J. (A)
Berliner, J. M. (M)
Berlucchi, E., Jr. (M)
Berman, H. (A)
Bernstein, M. H. (M)
Bertolino, A. P. (M)
Besmertnik, J. (A)
Bessen, A. S. (A)
Birnbaum, J. (M)
Blauvelt, A. J. (A)
Blazek, W. J. (M)
Blecher, F. (M)
Blichfeldt, E. (M)
Bligh, E. J. (A)
Bloomberg, H. (M)
Boesch, F. T. (M)
Boilen, I. (M)
Bologovsky, G. (M)
Borowski, E. (A)
Bower, J., Jr. (VA)
Boyle, B. (A)
Brathwaite, A. (A)
Bresler, A. D. (M)
Bressi, N. P. (M)
Bresner, G. (M)
Bernfeld, M. (M)
Bridgeman, T. H. (SM)
Brill, H. A. (M)
Broder, L. J. (M)
Broman, H. F. (M)
Brown, P. R. (A)
Brown, S. J. (M)
Brownstein, M. (A)
Brubaker, A. E. (M)
Bruckmann, F. E. (A)
Brunone, D. A. (A)
Butler, W. I. (M)
Butta, R. S. J. (A)
Calabrese, A. (A)
Caligiuri, H. J. (M)
Callaghan, E. P. (A)
Cammer, H. R. (M)
Cancemi, J. S. (A)
Candell, R. L. (M)
Cane, P. (M)
Canfora, A. E. (M)
Cantarella, V. J. (A)
Caplan, N. (M)
Cappadona, W. L. (M)
Caretto, H. L. (A)
Carlin, H. J. (F)
Cassidy, F. T. (M)
Castagnaro, D. (SM)
Catanese, J. P. (A)
Cattelona, J. A. (M)
Cavallari, J. D., Jr. (M)
Chays, S. (SM)
Chemack, S. (A)
Chomet, M. (M)
Cipolla, A. P. (A)
Cohen, A. N. (M)
Cohen, B. E. (M)
Cohen, E. (M)
Cohen, H. (A)
Cohen, L. (A)
Cohen, L. D. (A)
Cohen, M. (A)
Cohn, H. (SM)
Coleman, G. E. (A)
Coltun, L. (A)
Comninos, R. (A)
Conroe, A. H. (A)
Cooper, N. (M)
Coppola, A. S. (M)
Cottam, R. W. (A)
Craft, A. M. (M)
Crapotta, F. C. (M)
Curran, R. J. (M)
D'Amato, R. J. (SM)
Danziger, A. (M)
Davidson, S. R. (M)
Davis I. J. (A)
Davis, M. (M)
Davis, M. C. (M)
Day, G. (SM)
Delilippis, L. S. M. (M)
De Grande, R. S. (M)
De Muria, V. J. (M)
Deoul, N. (M)
Drosin, A. B. (M)
De Satnick, S. (M)
Deutsch, L. (M)
Deutsch, S. (A)
Diamond, J. M. (M)
Dickman, B. G. (M)
Dieli, A. P. (A)
Di Fusco, F. J. (M)
Digiulio, E. M. (A)
Dorf, H. (M)
Dorwitt, S. J. (M)
Doulos, N. P. (A)
Drum, W. A. (A)
Dudgeon, D. E. (A)
Dzingelis, V. F. (A)
Eckstein, B. V. (M)
Edwards, D. S. (A)
Egolf, R. S. (SM)
Ehrlich, J. (A)
Eisenstadt, H. J. (A)
Eliasberg, D. (A)
Elkin, B. P. (M)
Elovic, A. (M)
Engelson, B. (A)
Engelson, I. (A)
Engelson, M. (M)
Englander, B. (A)
Epstein, S. (A)
Ettenberg, M. (SM)
Fairman, J. F., Jr. (M)
Fauvell, R. T. (M)
Feibish, H. L. (A)
Feigenbaum, H. (M)
Fein, A. (M)
Feinland S. (A)
Feldman, S. (M)
Feldman, S. (M)
Felsen, L. B. (SM)
Fetsch, J. T. (SM)
Filliisti, L. P. (A)
Finke, H. A. (M)
Finkel, J. (A)
Finnegan, E. T. (A)
Fisher, T. G. (A)
Fishman, T. (M)
Fleischer, V. (M)
Fleischman, M. (A)
Forman, I. (A)
Forman, P. (A)
Fox, J. (SM)
Franco, A. G. (M)
Frank, E. D. (M)
Frank, L. M. (A)
Franklin, D. E. (M)
Freed, R. M. (A)
Freedman, L. M. (A)
Frey, W. W. (M)
Friedland, R. (M)
Friedman, H. (M)
Friedman, L. (M)
Friedman, M. H. (M)
Friedman, R. (M)
Friedman, W. (A)
Frisch, A. J. (A)
Gagliano, A. F. (A)
Galligan, T. J. (M)
Garbato, S. F. (M)
Gardner, R. K. (A)
Gatzke, F. W. (A)
Geismar, G. G. (A)
Geldston, S. (M)
Genlot, A. G. (M)
George, D. E. (M)
Gershuny, M. M. (A)
Gerston, C. (M)
Giampiccolo, P. M. (A)
Ginsburg, L. (M)
Giordano, A. B. (F)
Giordano, N. J. (A)
Giordano, P. J. (A)
Gipalis, P. W. (A)
Gladstone, W. (A)
Glantz, H. T. (M)
Glantz, L. M. (SM)
Glazer, E. (M)
Glickman, M. (A)
Glist, S. (A)
Gloor, B. T. (A)
Godfrey, P. (M)
Goetz, H. (M)
Goetz, W. H. (A)
Goldberg, E. (M)
Goldberg, R. J. (M)
Golden, D. (M)
Goldman, I. (M)
Goldstein, A. (A)
Goldstein, J. D. (A)
Goldstein, J. L. (M)
Goldstein, L. (A)
Goldstein, S. E. (A)
Goldwag, S. (M)
Goodman, H. A. (A)
Goodman, I. (M)
Goreczycki, E., (M)
Goronin, A. (M)
Gray, G. A. (A)
Grebler, M. (A)
Green, E. H. (M)
Green, M. (M)
Greenberg, S. (M)
Greene, E. (A)
Greenidge, G. (A)
Greenspan, J. (M)
Greick, H. L. (M)
Groder, M. L. (SM)
Gruenberg, E. L. (SM)
Grushkin, A. G. (M)
Guardino, R. C. (M)
Gurian, S. D. (M)
Gussak, M. (A)
Guthart, H. (M)
Haas, M. F. (A)
Hachemeister, C. A. (SM)
Haft, P. S. (M)
Hanon, J. (M)
Harnack, W. P. (A)
Harris, L. (SM)
Harrison, G. S. (M)
Hartmann, P. (A)
Haviland, R. T. (SM)
Hawking, R. (A)
Heise, E. R. (M)
Heller, J. I. (SM)
Heller, T. (A)
Hembrooke, E. F., Jr. (VA)
Herman, H. B. (A)
Hershowitz, D. B. (M)
Hessel, A. (M)
Hoberman, I. (A)
Hoffman, C. (M)
Holmes, A. J. (M)
Honig, W. M. (M)
Hopkins, E. J. (VA)
Horowitz, I. (A)
Horowitz, I. M. (M)
Horowitz, J. (M)
Horowitz, M. (M)
Howard, R. W. (M)
Huang, H. (M)
Hunt, D. F. (M)
Hutson, L. S. (M)
Iacono, V. C. (A)
Isaacson, A. (M)
Israel, D. (M)
Jacobs, D. M. (A)
Jacobson, A. G. (M)
Jagodowski, S. J. (M)
Janhsen, H. K. (A)
Jarschauer, I. (A)
Jaworski, A. M. (A)
Jazwa, E. C. (M)
Johnson, A. E., Jr. M)
Johnson, B. F. (A)
Johnson, W. H. (A)
Jongberg, J. B. (A)
Jorysz, A. (M)
Joyce, M. V., Jr. (M)
Jung, A. P. (A)
Kadin, J. (M)
Kagan, H. N. (M)
Kahn, W. K. (M)
Kanton, L. B. (A)
Kantor, D. J. (M)
Kaplan, A. B. (M)
Kaplan, G. (A)
Kaplan, G. L. (M)
Kaplan, I. (A)
Kaplowitz, M. (A)
Karson, A. (M)
Kassel, A. (A)
Katz, G. M. (M)
Katz, J. (A)
Katz, L. (M)
Katz, M. D. (M)
Katz, S. (A)
Keefe, G. (A)
Keely, J. F. (A)
Kempler, A. R. (A)
Kerdock, A. M. (M)
Kerenyi, G. R. (M)
Kessler, A. (A)
Kipperman, W. (A)
Kirdahy, E. (M)
Kirtman, F. (M)
Klapper, J. (M)
Klawanik, F. (SM)
Kline, M. (M)
Klipper, S. (A)
Klug, S. H. (M)
Knowles, C. C. (A)
Koffer, M. (M)
Korkes, H. (M)
Korrol, C. R. (M)
Kozitzky, W. J. (M)
Kramarenko, P. (M)
Kramer, M. (A)
Krieger, D. (A)
Krieger, P. (M)
Krimsky, W. J. (M)
Kurss, H. (M)
Kurtz, J. A. (VA)
Kuzmyak, M. G. (M)
Lacher, D. (M)
Laifer, E. (M)
Laikowski, S. R. (M)
Landow, I. S. (M)
Laskin, H. J. (M)
Laviano, V. R. (M)
Lawrence, S. (SM)
Leadbeater, C. J. (A)
Lebowitz, R. A. (M)
Ledereich, A. (M)
Lederhandler, S. R. (A)
Lederman, S. (A)
Leibowitz, M. R. (M)
Leonard, J. P. (M)
Letzter, A. O. (A)
Levey, L. (M)
Levin, S. (M)
Levine, E. (M)
Levine, I. (M)
Levine, S. (M)
Levy, H. B. (A)
Levy, S. Y. (M)
Lieber, L. R. (SM)
Liebman, P. M. (M)
Liebreich, E. (A)
Likel, H. C. (SM)
London, M. M. (M)
Loshin, A. M. (A)
Lowen, I. B. (A)
MacLean, W. (M)
Maffia, B. R. (A)
Maggi, J. A. (M)
Malczynski, J. R. (M)
Malina, M. (M)
Mamon, G. (M)
Manoukis, D. N. (A)
Marantz, S. A. (M)
Marcinkiewicz, S. V. (A)
Marcinkowski, C. J. (A)
Marcus, S. M. (M)
Marderstein, S. (A)
Maretzo, C. M. (M)
Marshall, S. L. (A)
Maryon, M. K. (A)
Matta, B. M. (A)
Mattisinko, N. S. (M)
Mauro, A. (A)
Mazziotti, I. J. (M)
McCormick, L. P. (A)
McCoy, R. J. (A)
Meixner, R. P. (M)
Mermelstein, E. I. (M)
Messina, A. S. (A)
Messina, J. (A)
Meyers, S. (SM)
Michelson, M. B. (M)
Milazzo, S. (M)
Milotta, S. S. (A)
Mindell, M. I. (A)
Mishkin, E. (SM)
Mishkoff, S. (M)
Mitchell, S. L. (A)
Moderacki, E. J. (A)
Montuori, A. V. (M)
Moore, J. B. (SM)
Morakis, J. C. (M)
Mordkowitz, I. (M)
Morgan, E. K. (A)
Morris, A. A. (A)
Morton, A. R. (SM)
Moses, A. I. (A)
Moskowitz, N. (A)
Musacchio, A. A. (M)
Nachtigall, S. (SM)
Naps, S. (M)
Nelson, H. C. (M)
Nelson, W. (A)
Nelson, W. F. (M)
Nervik, J. M. (A)
Neveroski, W. J. (M)
Newdorf, A. S. (A)
Nicolosi, J. P. (M)
Nirenberg, A. (M)
Nisteruk, C. J. (M)
O'Connell, R. J. (A)
O'Donnell, J. P. (A)
Ogoniak, T. J. (A)
Okada, S. (M)
Okura, T. (M)
Oliner, A. A. (SM)
Ostrov, B. (M)
Oswald, H. J. (M)
Oxley, J. E. (M)
Paikoff, B. L. (A)
Pajak, A. W. (A)
Papoulis, A. (SM)
Pearlman, L. (M)
Pecoraro, C. J. (M)
Pekarowitz, R. (M)
Pelitsch, E. J. (M)
Penikas, G. (A)
Perlman, I. (M)
Petroulakis, S. G. (A)
Philbin, M. J. (M)
Piccione, N. A. (M)
Pitrelli, F. J. (A)
Pivnik, S. L. (A)
Pizzirusso, A. J. (M)
Pizzutiello, R. (M)
Platzman, M. M. (M)
Plawsky, M. I. (M)
Polen, E. (M)
Politzi, V. P. (A)
Pollack, P. (A)
Poor, L. D. (A)
Popper, J. N. (M)
Posner, W. (M)
Posklensky, G. (A)
Prensky, S. D. (M)
Pries, J. J. (M)
Principe, A. J. (A)
Prior, F. J. (A)
Pugliese, L. (M)
Quinn, J. C., Jr. (A)
Ralidis, G. W. (A)
Rall, H. L. (M)
Rappoport, J. F. (M)
Reader, M. (M)
Reichfield, S. (A)
Reid, J. J. (M)
Reinhardt, G. (A)
Reinish, G. B. (M)
Rekort, W. (M)
Rente, F. A. (M)
Richmond, J. F. (A)
Ritter, R. E. (A)
Roberts, R. P. (M)
Robinson, L. (M)
Robinson, R. M. (M)
Rogers, F. A. (A)
Rolnik, J. A. (M)
Romano, S. A., Jr. (M)
Rose, S. I. (M)
Rosenberg, D. (A)
Rosenberg, M. (M)
Rosenthal, M. P. (M)
Ross, C. J. (M)
Roth, E. J. (M)
Roth, H. A. (M)
Rowe, I. (M)
Roy, R. J. (M)
Rubertone, A. (M)
Rubin, A. (A)
Rubin, A. (M)
Rubin, I. S. (M)
Ruderfer, M. (M)
Rudner, B. S. (SM)
Rudofsky, B. I. (M)
Ryan, E. H. (M)
Sackson, M. M. (A)
Sadowski, H. (A)
Salmon, F. A. (A)
Salz, H. (M)
Salzman, D. (A)
Sandler, H. M. (A)
Sandler, S. A. (A)
Sarter, L. B. (M)
Savary, D. L., JR. (M)
Sawelson, A. I. (SM)
Schechner, C. B. (M)
Schillinger, A. G. (M)
Schlatter, W. J. (A)
Schneider, B. K. (A)
Schneider, I. (M)
Schniebolk R. J. (M)
Schornstein, M. L. (M)
Schultz, J. J. (M)
Schwartz, P. (A)
Schwartz, R. (A)
Scinto, L. L. (A)
Seewald, E. J. (M)
Segal, J. B. (A)
Segreto, A. J. (M)
Sezack, S. K. (M)
Shafiroff, H. (SM)
Shakun, M. F. (M)
Shapiro, P. (A)
Sherman, H. (A)
Shinners, S. M. (A)
Shmoys, J. (SM)
Shufer, M. (M)
Siclari, V. (A)
Sigona, J. F. (M)
Silver, B. L. (VA)
Silver, D. (M)
Silvera, R. V. (M)
Silverberg, M. (M)
Silversmith, G. B. (M)
Simon, H. (A)
Sinclaire, F. S. (M)
Sipress, J. M. (M)
Sisskind, S. G. (M)
Sistino, F. J. (A)
Skeltved-Jensen, E. (A)
Sklar, S. (M)
Slatic, G. A. (A)
Smilen, L. I. (M)
Smith, E. J. (M)
Smith, J. S. (SM)
Smykowski, C. P. (M)
Snyder, J. B. (M)
Sobel, A. (SM)
Sochet, E. (A)
Sokol, L. L. (A)
Sommer, E. I. (M)
Soreny, E. V. (A)
Spector, L. (M)
Spencer G. D. (A)
Spierer, E. D. (M)
Steinman, S. (M)
Sterman, I. I. (M)
Sternberg, M. (M)
Strahlberg, K. (A)
Strassberg, I. D. (A)
Sturiale, P. J. (A)
Sulsky, B. (M)
Summerville, R. W. (A
Sweet, L. O. (M)
Takiyama, K. (M)
Talish, I. M. (M)
Talley, D. (SM)
Tambasco, J. F. (M)
Tashjian, A. (M)
Teitelbaum, M. (A)
Teitelbaum, M. G. (A)
Temple, W. J. (A)
Templeman, L. I. (A)
Thomas, R. O. (M)
Thompson, M. A. (A)
Thorne, H. W. (A)
Tierney, T. J. (M)
Tomasulo, V. D. (M)
Travis, E. (M)
Treanor, E. F. (M)
Trendowski, C. R. (A)
Troiano, A. (A)
Trusinoff, B. (A)
Truxal, J. G. (SM)
Turczyn, W. A. (M)
Urevith, S. J. (A)
Uslan, S. D. (M)
Vallese, L. (SM)
Van Der Bokke, L. (M)
Van Deusen, R. B. (M)
Varrone, E. (M)
Veder, A. (M)
Viola, R. D. (M)
Viola, V. (M)
Vitrogan, D. (SM)
Volk, J. (A)
Waas, G. J. (M)
Wagner, R. C. (M)
Walker, B. (M)
Wankbold, R. F. (M)
Watine, M. N. (A)
Weber, E. (F)
Weil, J. L. (A)
Weinberger, R. C. (M)
Weiner, L. H. (A)
Weingarten, A. (M)
Weinman, M. M. (A)
Weinstein, D. C. (M)
Weinstein, H. M. (M)
Weinstein, S. M. (M)
Weintraub, S. (A)
Werman, H. M. (M)
Wexler, I. (M)
Williams, L. A. (M)
Willis, P. A. (M)
Wilpon, S. I. (A)
Wilson, F. B. (A)
Witlin, J. J. (A)
Wishna, S. (M)
Wiss, G. (A)
Wolf, E. M. (M)
Wolff, E. J. (A)
Wolfire, K. H. (A)
Wolk, N. (SM)
Wolsky, M. (M)
Wood, J. D. (M)
Yoryish, D. B. (M)
Yost, D. E. (A)
Yudin, B. (M)
Zadro, A. P. (A)
Zaretsky, A. (M)
Zarouni, A. (M)
Zawacki, E. C. (M)
Zecca, A. A. (M)
Zelger, L. B. (M)
Zetekoff, A. (M)

Zitzmann, F. R. (M)
Zivitofsky, F. I. (A)
Zivotofsky, B. (M)
Zourides, V. G. (M)
Zupnick, I. N. (M)

Buchanan (NY-W-2)
Foin, W. C. (A)

Buffalo (BN-1)
Albert, C. J. (M)
Ames, R. W. (A)
Arrison, C. R., Jr. (A)
Atkins, W. J. (M)
Bachman, C. G. (M)
Barczys, D. A. (A)
Bargman, M. (A)
Barrowcliff, T. A. (A)
Bartnik, J. C. (A)
Bauer, L. H. (A)
Bauman, N. C. (M)
Beach, J. B. (M)
Bock, D. H. (M)
Burdette, L. R. (M)
Carroll, T. J. (M)
Caserta, J. N. (A)
Ceier, R. R. (M)
Chapman, S. (SM)
Chimera, A. J. (M)
Chudzik, M. W. (M)
Clausen, E. B. (M)
Clune, E. F. (M)
Cummings, J. R. (M)
Cuthill, W. R. (M)
Cutter, R. H. (A)
Davis, J. E. (M)
De Joseph, A. (M)
De Leonardis, V. M. (A)
Diab, K. M. (M)
Diamond, L. R. (A)
Diehl, J. H. (M)
Dole, L. H. (M)
Doyle, W. C. (M)
Dybowski, A. J. (VA)
Earl, H. D. (M)
Eckert, E. H. (M)
Farber, M. (A)
Fine, S. (A)
Fischer, F. P. (SM)
Flood, W. A., Jr. (A)
Frank, L. E. (A)
Freeman, R. W. (A)
Freund, H. G. (M)
Gavin, R. F. (M)
Gibbons, H. M. (A)
Green, B. A., Jr. (M)
Harriman, T. J. (M)
Hayman, R. A. (A)
Hettinger, M. (A)
Hickey, H. G. (A)
Hoffman, K. B. (SM)
Holfelder, R. G. (M)
Holmes, W. S. (SM)
Horton, A. B., Jr. (M)
Horvath, J. O. (A)
Hoyler, E. T. (A)
Huber, C. W. (VA)
Hunt, R. A. (M)
Hyer, H. C. (M)
Jackson, R. W. (A)
Jacobson, L. (M)
Jocoy, E. H. (M)
Johnson, A. B. (M)
Johnson, R. C. (A)
Jondle, J. J. (M)
Kahn, D. A. (M)
Kell, R. E. (M)
Kingsley, R. J. (M)
Kitchin, H. W. (SM)
Langseth, L. (M)
Lauer, C. A. (A)
Lautz, C. F., Jr. (M)
Lenfest, G. C., Jr. (M)
Lerner, T. (A)
Malm, R. (SM)
Martin, F. C. (M)
Mazur, W. P. (A)
McDonough, S. L. (M)
Meese, H. F. (A)
Michaelis, T. D. (M)
Michnik, L. (M)
Mitscher, R. W. (A)
Moncton, H. S. (M)
Nazon, J. S. (A)
Odden, R. B. (A)
Okonski, C. B. (M)
Okonski, E. S. (A)
Petz, J. R. (A)
Phillips, J. (M)
Powell, D. R. (A)
Powell, F. D. (SM)
Pritchard, F. E. (A)
Puttick, A. W. (A)
Raney, J. J. (SM)
Ratajczak, R. A. (M)
Ridgeway, F. B. (M)
Rittman, W. R. (M)
Rowe, W. D. (M)
Rusnak, W. (M)
Savi, L. (M)
Schlosser, G. A. (M)
Schultze, W. J. (A)
Schwartz, E. C. (A)
Siegel, V. H. (M)
Spooner, M. G. (M)
Stafford, W. F., Jr. (A)
Steeb, E. C., Jr. (M)
Steger, D. J. (A)
Stengel, C. J., Jr. (A)
Stieber, A. (A)
Taylor, F. E. (M)
Thalner, R. R. (SM)
Torres, J. F. (A)
Unger, W. J. (M)
Van Allen, J. W. (A)
Van Every, B. (A)
Wagner, R. W. (M)
Watson, W. H. (M)
Waud, E. C. (VA)
Wegener, J. S. (A)
Welch, D. P. (M)
Weller, D. B. (M)
Welsh, J. P. (SM)
Weppner, B. H. (M)
Wightman, C. W., Jr. (M)
Wilder, L. D. (M)
Wilson, J. E. (M)
Wolf, E. H. (M)
Wrobel, R. E. (M)
Zimmerman, E. A. (A)

Burnt Hills (SCH-1)
Cohoon, R. L. (M)
Welch, D. I. (M)

Buskirk (SCH-1)
Light, L. E. (M)

Caledonia (ROC-1)
Allen, S. E. (M)
Angevine, O. L., Jr. (SM)
Lawson, H. W., Jr. (M)

Cambria Heights (LI-2)
Koenig, R. H. (A)
Pyros, I. E. (M)
Reitzel, C. I. (A)
Smith, P. (M)
Zeines, B. (SM)

Camden (RU-1)
Hickey, J. B. (A)

Camillus (SYR-1)
Gordon, R. T. (M)
Marlatt, R. L. (M)
Olivier, R. M. R. (M)
Peppiatt, H. J. (M)
Petrie, A. F. (M)
Place, J. F. (M)
Rabehl, W. C. (A)
Schweers, O. H. (SM)
Strawn, R. K. (A)
Swenson, C. F. (A)
Weersing, N. O. (A)

Campbell Hall (NY-MH-2)
Martin, G. B., Sr. (A)

Canandiagua (ROC-1)
Knapp, A. J. (A)

Canastota (SYR-1)
Albanese, A. A. (M)
Ordway, D. R. (A)

Carle Place (LI-2)
Bossinger, A. L. (SM)
Drasney, G. C. (A)
Hekaros, J. S. (A)
Lincoff, W. (M)
Rector, L. V. (M)
Vadus, J. R. (SM)

Carmel (NY-2)
Frederick, A. H. (M)
Lewinski, J. (SM)

Cassadaga (ER-1)
Peck, W. E. (M)

Castleton-On-Hudson (SCH-1)
Bradley, B. F., Jr. (M)

Catskill (NY-MH-2)
Gardner, C. B. (A)

Cazenovia (SYR-1)
Chamberlain, P. L. (A)
Hodges, G. W. (A)
Learned, A. J. (M)
Morse, H. W. (M)
Winslow, W. R. (M)

Cedarhurst (LI-2)
Dick, T. M. (M)
Durbin, E. (M)
Mercier, A. E. (SM)
Merlin, A. G. (A)
Norris, S. (M)
Ross, B. R. (M)

Cementon (NY-MH-2)
Krisniski, S. V. (M)

Centereach (LI-2)
Clark, M. J. (A)
Engel, L. (M)

Centerport (LI-2)
Derganc, W. (M)
Klaus, G. H. (SM)
Pichert, J. (M)

Central Islip (LI-2)
Samoluk, P. (A)

Central Valley (NY-MH-2)
Arnold, R. G. (M)

Chadwicks (RU-1)
Kapfer, V. C. (A)
Wallenfels, W. B. (M)

Chappaqua (NY-W-2)
Becher, W. E. (M)
Buttolph, J. D. (A)
Edwards, N. P. (M)
Femmer, M. E. (SM)
Kellogg, D. S. (SM)
Novak, W. D. (M)
Speller, J. B. (SM)
Taggart, C. E. (A)
Vladimir, L. O. (SM)
White, R. A. (A)

Cheektowaga (BN-1)
Chernof, J., Jr. (M)
Lewicki, W. M. (A)
Myers, J. F. (SM)
Slater, R. H. (M)

Chenango Bridge (BING-1)
Carpenter, J. F. (A)
Johnson, H. R. (A)
Jones, H. E. (A)

Chittenango (SYR-1)
Bray, T. E. (A)

Churchville (ROC-1)
Chapin, D. W. (M)
Jackson, R. W. (A)

Clarence (BN-1)
Curtis, R. E. (A)
Greatbatch, W. (M)
Kellerman, R. E. (M)
Neprud, R. N. (SM)
Nuckolls, R. G. (SM)
Vanacore, T. (M)
Ward, V. E., Jr. (A)

Clarence Center (BN-1)
Schantz, J. D. (SM)

Clay (SYR-1)
Boyd, L. E. (M)
Brady, D. J. (M)
Carlson, E. R. (SM)
Sahl, G. R. (M)
Smith, E. E. (A)

Clayton (SYR-1)
Hesler, J. P. (M)

Cleverdale (SCH-1)
Mead, M. S., Jr. (SM)

Clinton (RU-1)
Anway, H. E. (M)
Baldwin, G. F. (SM)
Battey, H. B. (SM)
Carlson, R. (A)
Crockett, G. R. (M)
Gabrielsen, W. B. (M)
Oberg, A. C. (M)
Sears, C. B. (M)
Turner, M. L., Jr. (A)

Clyde (ROC-1)
Dyer, R. F., Jr. (A)
Hauge, K. (A)
Ritter, V. H. (A)
Schall, R. R. (A)
York, R. A. (SM)

Cold Spring Harbor (LI-2)
Burr, R. P. (SM)
Tyndall, R. M. (M)

Cold Spring On Hudson (NY-2)
Buckles, R. A., Jr. (M)
Lawrence, G. (A)

College Point (LI-2)
Belock, H. D. (SM)
Dubin, L. (M)
Fury, A. E., Jr. (A)
Hoffman, R. A. (A)
Oranges, D. F. (M)
Rilling, J. C. (A)
Shostak, M. (A)
Sleven, M. O. (M)
Stiepel, G. W. (A)

Commack (LI-2)
Di Nardo, A., Jr. (A)
Feldman, S. (A)
Frimet, S. H. (A)
Levine, B. (SM)
Loss, M. B. (M)
Machover, C. (M)
Matylewich, T. D. (A)
Michitson, P. A. (M)
Whaley, W. W. (M)

Congers (NY-2)
Levy, G. (A)

Constantia (SYR-1)
Day, R. G. (SM)
Elhoff, W. C. (A)
Regueiro, W. R. (A)

Copiague (LI-2)
Mautner, R. S. (SM)
Renwick, F. B. (M)

Corning (ELM-C-1)
Allen, R. E. (M)
Bell, A. N. (M)
Brouneus, H. A. (M)
Cammen, M. M. (M)
Craumer, H. S. (A)
Davis, J. K. (SM)
Dawson, A. W. (M)
Deegan, G. M. (M)
Griest, E. M. (M)
Guyer, E. M. (SM)
Hamjian, R. V. (M)
Herczog, A. (M)
Carpenter, N. R. (M)
Hocker, J. P. (M)
Houghton, A., Jr. (A)
Hunt, M. H. (M)
Jenkins, W. H. (M)
Knysh, W. J. (A)
Leffel, P. C., Jr. (M)
Lineweaver, J. L. (M)
Mann, R. H. (A)
Marafioti, J. J. (A)
McKnight, W. H. (A)
Munier, J. H. (M)
Nitsche, J. E. (M)
Pinkston, J. C. III (M)
Rexford, H. E. (M)
Sackinger, J. P. (M)
Shaw, M. R., Jr. (M)
Sheldon, J. L. (F)
Smith, G. P. (M)
Splann, M. T. (A)
Szupillo, R. E. (A)
Wetmore, W. L. (A)

Cornwall-On-Hudson (NY-MH-2)
McCann, G. R., Jr. (A)
Peck, N. D. (A)

Corona (LI-2)
Balacki, S. J. (A)
Bianchini, P. J. (M)
Boychenko, O. (M)
Germano, G. (A)
McGovern, F. X. (M)
Pafundi, M. T. (A)
Ruffino, L. V. (M)
Silbar, J. I. (A)
Spatz, S. (A)
Vañades, W. (A)

Cortland (SYR-1)
Ciccoricco, F. A. (M)

Crestwood (NY-W-2)
Gehrig, J. W. (A)
Krauer, O. (A)

Croton-On-Hudson (NY-W-2)
Crawford, P., Jr. (M)
Lescarboura, A. C. (SM)
Randlev, P. L. (A)
Ward, D. D., Jr. (M)

Cuba (ELM-C-1)
Griffin, S. J. (M)
Miller, E. A. (M)

Dansville (ROC-1)
Blum, R. J. (M)

Deansboro (RU-1)
Palmer, P. D. (M)

Deer Park (LI-2)
Buff, C. (SM)
Castellano, J. G. (A)
Jacobson, T. R. (A)
Levine, A. M. (M)
McCoy, L. L. (A)
Schlesinger, J. (M)
Tressa, F. J. (M)

Delmar (SCH-1)
Rechnitzer, B. W. (A)

Depew (BN-1)
Diener, H. C., Jr. (M)
Herold, C. D., Jr. (M)
Newton, D. J., Jr. (M)
Trabka, E. A. (M)
Whitbeck, R. F. (M)

De Witt (SYR-1)
Berkley, J. B. (SM)
Briggs, A. S. (M)
Clark, H. T. (SM)
Copp, J. H. (SM)
Coulbourn, J. M. (M)
Davis, R. J. (M)
Deal, D. L. (M)
De Zonia, W. J. (M)
Dickey, F. R., Jr. (SM)
Flashner, G. (M)
Gifford, R. P. (M)
Grisetti, R. S. (M)
Harnett, D. E. (F)
Hyde, H. I. (M)
Jacobson, I. J. (M)
Kovacs, F. M. (M)
Lowry, H. R. (A)
Perkins, D. W. (M)
Recorda, J. K. (M)
Simon, C. J. (M)
Slaughter, J. E. (M)
Stillwell, H. R. (M)
Sutton, R. B. (A)
Taylor, F. W. (M)
Watts, D. E. (SM)
Woods, C. R. (M)
Worthen, K. J. (M)

Dobbs Ferry (NY-W-2)
Crawford, R. V. (SM)
Espersen, G. (F)
Eyster, J. A. (SM)
Ham, D. L. (M)
Miller, D. H. (M)
Newman, L. (M)
Shein, S. (A)
Weichardt, H. H. (M)

Douglaston (LI-2)
Agree, I. (M)
Batcher, R. R. (F)
Bush, F. J. (A)
Cohen, S. A. (M)
Dumaresq, J. (A)
Dunn, S. B. (M)
Hertzberg, R. E. (A)
McClellan, G. B. (SM)
Neeck, J. E. (A)
Pollack, A. S. (SM)
Shanck, R. B. (SM)
Sherman, P. (A)
Tyson, B. F. (F)
Weinstein, G. (A)

Dryden (ITH-1)
Shelton, G. L., Jr. (M)

East Aurora (BN-1)
Booth, R. V. (M)
Frazier, R. E. (M)
Hopkins, J. E. (M)
Roess, L. G. (M)

Eastchester (NY-W-2)
Davidoff, S. (M)
Masucci, C. (M)
McGinnis, F. (SM)

East Elmhurst (LI-2)
Capon, J. (M)
Elser, A. C. (A)
Gordon, S. M. (A)
Immarco, A. E. (A)

East Greenbush (SCH-1)
Merry, F. J. (M)

Easthampton (LI-2)
Baerst, L. R. (A)

East Islip (LI-2)
Bolum, D. R. (A)
Francoeur, G. R. (M)

East Meadow (LI-2)
Basil, A. (M)
Brownman, H. L. (M)
Burgess, E. G., Jr. (M)
Byron, M. (A)
Cerino, R. (M)
Farber, B. (M)
Frost, S. (M)
Garrett, B. R. (A)
Glasser, H. (A)
Goldstein, I. (A)
Gould, L. M. (SM)
Grob, B. (M)
Grodzinsky, S. (SM)
Gruber, P. (M)
Kaplan, M. (M)
Kunz, A. B. (A)
Newman, S. O. (SM)
Nichik, J. J. (M)
Novikoff, E. B. (M)
Parker, S. (M)
Pollard, R. E. (M)
Redovian, M. (M)
Reizes, H. N. (A)
Rosenthal, S. A. (M)
Schwartz, A. (M)
Scordato, M. (A)
Seljo, E. (M)
Silbiger, R. J. (M)
Sills, M. M. (M)
Stevens, S. (M)
Turner, G. C. (M)
Weisfeld, B. R. (A)
Wohl, C. (M)
Yuni, W. (M)

East Northport (LI-2)
Andersen, A. H. (M
Benz, J. K. (M)
Bolander, P. E. (M)
Cataldo, T. J. (M)
Clinton, R. E. (A)
Cullen, W. P. (M)
Di Paola, R. G. (M)
Hallock, H. B. (SM)
Helf, W., Jr. (M)
Holland, J. W. (M)
Krasnick, S. (M)
Kuiper, C. R. (M)
Mahoney, T. J., Jr. (A)
Ness, C. H. (M)
Oakes, R. E. (M)
Offutt, W. B. (M)
Oswald, L. H. (M)
Philbin, J. P. (M)
Rumph, G. F. (M)
Salmon, H. A. (A)
Smith, K. M. (A)
Spann, R. G. (M)
Tepper, H. H. (M)
Wallace, R. A. (A)
Yourdon, F. R. (M)

East Norwich (LI-2)
Barry, H. P., Jr. (M)
Boecker, A. (M)
Boyd, P. C., Jr. (M)
Churchill, D. B. (M)
Davis, S. (M)
Fishman, G. N. (M)
Fowler, C. A. (M)
Garretson, C. M. (SM)
Mogul, E. (SM)
Plunkett, R. (A)
Salzberg, B. (F)

East Rochester (ROC-1)
Bass, G. A. (M)
Numann, G. W. (A)
Wilson, D. G. (SM)

East Rockaway (LI-2)
Albert, A. M. (M)
Brown, W. (M)
Cohen, G. (M)
Greenberg, I. G. (SM)
Mahnken, W. J. (A)
Wallach, D. M. (M)
Wind, M. (SM)

East Syracuse (SYR-1)
Cleary, J. F. (A)
Downie, J. W. (SM)
Haynes, J. S. (M)
Jobes, S. S., Jr. (M)
Johnson, C. L. (A)
Johnson, M. A. (M)
Juhlin, J. A., Jr. (M)
Kim, J. C. S. (A)
Kinsey, R. R. (M)
Klaus, C. R. (M)
Krackhardt, E. M. (A)
Kraiman, H. (M)
Krenitsky, P. (A)
Morrison, R. H. (M)
Mueller, W. J. (M)
Segale, R. O. (M)
Shain, E. (M)
Shaskey, E. N. (M)
Sherman, J. H., Jr. (M)
Smith, W. E., Jr. (A)
Smith, W. F., Jr. (A)
Somers, L. E. (M)
Whisenhunt, J. A. (A)
Williams, G. R. (M)
Wilson, G. G. (M)
Zuroff, C. A. (M)

East Williston (LI-2)
Doucette, A. R. (M)
Fay, A. H. (M)
Galella, P. F. (SM)
McProud, C. G. (M)
Packer, L. (M)
Rebeck, C. S. (A)
Rothstein, M. (SM)

Eden (BN-1)
Cummings, L. J. (M)
Pontius, J. C. (M)

Edgemere (LI-2)
Musketos, A. (M)

Eggertsville (BN-1)
Borkowski, C. J. (M)
Hardy, L. H. (M)
Harvey, H. F. (M)
McCord, W. M. (SM)
Mezger, C. C. (M)
Rizzo, S. J. (A)
Rosenfelder, G. S. (M)

Schneeberger, R. F. (A)
Steele, K. P. (A)

Elbridge (SYR-1)
Beane, M. I. (A)
Kennedy, A. (SM)
O'Connor, L. T., Jr. (M)

Ellenville (NY-MH-2)
Green, J. (M)
Schwartz, J. (M)

Elma (BN-1)
Reinnagel, R. E. (SM)
Weise, R. W. (SM)

Elmhurst (LI-2)
Alsberg, H. (A)
Antman, H. S. (M)
Avignone, A. J. (A)
Beaton, H. F. (M)
Berendsen, C. G. (M)
Blumenstock, N. R. (M)
Caliendo, P. J. (M)
Carides, T. (M)
Erlichson, H. (M)
Erman, A. (A)
Findlay, D. A. (A)
Flattau, W. (M)
Gala, D. C. (M)
Ghigliotti, R. (M)
Kearns, W. J., Jr. (M)
Kenneth, F. (A)
Kestenbaum, H. S. (A)
Morrone, J. J. (M)
Pelzer, B. (A)
Perliss, R. E. (A)
Perzeszty, T. S. (A)
Scheuermann, R. J. (M)
Shapiro, L. C. (SM)
Solt, H. B. (M)
Stern, M. L. (M)
Stuhler, R. E. (A)
Tamasi, A. P. (A)
Tomberg, V. T. (SM)
Toufexis, S. (M)
Wolfson, R. B. (M)

Elmira (ELM-C-1)
Ainey, R. K. (M)
Aldrich, D. F. (SM)
Argyle, L. C. (A)
Buck, D. C. (M)
Cherry, S. J. (SM)
Cox, G. L. (M)
Dart, H. F. (SM)
Duhl, J. E. (M)
Freggens, R. A. (M)
French, A. F. (A)
Gillies, W. (M)
Hayter, W. R., Jr. (A)
Hostetler, C. L. (M)
Husson, C. (M)
Johnson, W. C. (SM)
Keeton, T. G. (M)
Kilcoyne, M. K. (M)
Kilpatrick, H. B. (A)
Knowles, D. D. (SM)
Larose, A. C. (M)
Lederer, E. A. (F)
Lempert, J. (SM)
Lindequist, P. T. (M)
Link, V. F. (M)
Long, E. D. (M)
Long, P. D. (M)
Lovell, L. I. (A)
Lucy, C. J. (A)
Mack, M. C. (SM)
Mageoch, N. H. (M)
Martin, L. (SM)
McCurdy, W. H. (SM)
Miller, C. F. (SM)
Millett, R. G. (M)
Moran, W. G. (A)
Mulligan, J. M. (M)
Okress, E. C. (SM)
Ramich, C. E. (SM)
Rial, W. S. (M)
Riggen, T. K. (M)
Riggs, J. O. (A)
Rogell, P. S. (M)
Sheehe, J. M. (M)
Simpson, K. R. (M)
Stoddard, R. N. (A)
Upshaw, V. (SM)
Washburn, G. W. (M)
White, L. E. (M)

Elmira Heights (ELM-C-1)
Heath, E. R. (M)
Powell, K. D. (M)

Elmont (LI-2)
Blumenfeld, A. S. (A)
Chapel, I. J. (SM)
Coniglio, P. J. (A)
Dong, J. G. (M)
Dressler, R. (SM)
Franceschini, J. B. (M)
Gould, S. (M)
Greenberg, L. (A)
Griffen, K. A. (A)
Griffing, W. W. (M)
Hanover, A. M. (A)
Hasenfus, R. G. (A)
Kuck, G. P. (M)
Kuhn, J. J. (M)
La Mantia, R. (M)
Lee, S. R. (A)
Lutz, C. J. (A)
Melgar, M. (M)
Rhodes, M. L. (A)
Riemenschneider, W. W. (A)
Seidman, A. H. (M)

Elmsford (NY-W-2)
Carlisle, R. W. (SM)
Chaudhuri, D. (M)
Greenbaum, W. H. (M)
Macey, F. G. (A)
Myers, H. W. (M)
Pearson, H. A. (M)
Von Baudissin, J. (M)

Endicott (BING-1)
Akmenkalns, I. G. (M)
Baldauf, D. R. (M)
Bernstein, R. (M)
Bloom, E. M. (M)
Brannen, P. M. (M)
Branning, H. F. (M)
Brooke, A. W. (M)
Burcak, T. (M)
Conner, C. D. (M)
Deskur, K. J. (A)
Dodge, H. E. (M)
Dorrell, C. E. (A)
Doxtator, R. H. (A)
Evans, B. O. (M)
Frehsee, R. (M)
Frizzell, J. H. (M)
Fruci, N. A. (M)
Gibson, R. G. (M)
Grace, C. H. (M)
Hack, G. E. (M)
Hamburgen, A. (M)
Hamilton, L. L. (M)
Hazlett, W. T. (M)
Hess, G. (M)
Higley, R. J. (A)
Hill, V. M. (SM)
Hyde, P. L. (A)
Johnson, R. M. (M)
Jones, H. L. (M)
Kercher, R. B. (M)
Klotz, H. J. (SM)
Knight, D. E. (M)
Kostyshyn, B. (A)
Kovalchick, N. (M)
Lewis, T. B. (M)
Lohman, I. H., Jr. (M)
Lord, P. A. (M)
Mac Donald, R. M. (A)
Masters, R. J. (M)
Mathers, H. W. (A)
McNelis, P. J. (M)
Mertz, E. H. (A)
Miller, W. C. (M)
Mulock, L. E. (M)
Oi, I. (M)
Paaternak, E. (M)
Patch, F. D. (M)
Pawletko, J. P. (M)
Pipkorn, J. H. (A)
Potts, R. (A)
Pyle, C. L. (M)
Roehm, F. J. (M)
Rood, J. W. (M)
Schneider, J. (A)
Scott, G. L. (M)
Sculley, G. A., Jr. (M)
Shatz, J. R. (M)
Shell, E. F. (M)
Sheriff, D. R. (SM)
Shield, C. F., Jr. (M)
Southard, C. D. (A)
Steen, W. J. (SM)
Stott, C. B. (A)
Strup, C. F., Jr. (M)
Swanton, W. L. (M)
Troutman, B. C. (A)
Wilts, J. R. (M)
Wood, E. W. (M)
Yurgartis, W. C. (A)

Endwell (BING-1)
Bechtol, H. D. (SM)
Bergere, L. M. (M)
Dickinson, M. M., Jr. (M)
Greene, T. A. (M)
Holderman, C. C. (M)
Hutchison, H. W. (M)
La Joie, Z. A. (M)
Lyon, R. L. (M)
Maslak, M. (M)
Mueller, C. F. (M)
Stamos, C. G. (M)
Wagner, J. L. (SM)
Wilson, H. R. (M)
Yeager, C. J. (A)
Zehner, W. J. (M)

Etna (ITH-1)
Prochaska, A. M. (M)

Fairport (ROC-1)
Hamlin, N. B. (M)

Farmersville (BN-1)
Wiley, V. H. (A)

Farmingdale (LI-2)
Anderson, D. K. (M)
Buble, F. L. (A)
Cap, S. T. (M)
Clothier, C. M. (M)
Dannals, H. J. (M)
De Gennaro, R. (A)
Dery, G. F. (M)
Dispigna, F. (M)
Gneses, M. I. (A)
Harder, J. F. (M)
Hart, J. E. (M)
Kauper, L. T. (M)
Lo Giudice, T. F. (M)
Maguire, J. P. (SM)
Niewenhous, J. H. (M)
Rubenstein, C. F. (SM)
Schwab, C. E. (M)
Seitz, S. S. (M)
Sheffield, W. B. (SM)
Sicuranza, A. J., Jr. (A)
Spector, A. (M)
Stolov, S. E. (M)
Tchinnis, M. F. (A)
Theroux, E. J. (A)
Van Schoor, J. (A)
Wildfeuer, D. (SM)
Wolfe, M. L. (A)
Woodward, A. E. (M)

Far Rockaway (LI-2)
Crandell, S. (M)
Edelstein, H. N. (SM)
Glass, H. W. (M)
Haynes, N. M. (M)
Hollich, S. E. (A)
Liegey, P. R. (M)
McPhee, A. J. (M)
Mentcher, I. (M)
Smith, S. (A)
Weiner, G. (A)

Fayetteville (SYR-1)
Altes, S. K. (M)
Beckwith, R. W. (M)
Campbell, C. M. (M)
Costas, J. P. (SM)
Doane, J. T. (M)
Doolittle, W. T., Jr. (M)
Doxey, G. A. (A)
Eliot, A. B. (M)
Fancher, H. B. (SM)
Eye, R. P. (M)
Gangberg, F. (M)
Gethmann, R. B. (M)
Haller, G. L. (F)
Hannah, W. M. (A)
Hansen, R. E. (M)
Hartman, D. K. (M)
Hassel, E. W. (M)
Jones, J. L. (SM)
Kidder, M. S. (A)
Liddle, W. A. (A)
Manke, A. G. (SM)
Messer, H. G. (SM)
Mushrush, R. S., Jr. (SM)
Perry, E. V., Jr. (SM)
Prestwich, G. D. (M)
Reinsmith, G. M. (M)
Rives, F. M. (SM)
Rouault, C. L. (SM)
Russell, J. B., Jr. (F)
Ryerson, J. D. (A)
Sinback, W. R. (M)
Thomas, H. P. (F)
Totten, H. O. (M)
Vadasz, A. J. (SM)
Varga, J. A. (M)
Waugh, G. T. (M)
Webber, G. H. (A)

Fernwood (SYR-1)
Manwarren, T. E. (M)

Fishkill (NY-MH-2)
Curtis, R. T. (A)
Farrell, A. C. (A)
Hand, F. R. (M)
McQuaid, W. K. (M)
Stahl, W. L. (SM)
Templeton, H. S. (A)

Floral Park (LI-2)
Adams, J. C. (M)
Axel, A. J. (M)
Becchetti, F. J. (A)
Bellantoni, J. (M)
Berenberg, O. (M)
Borkum, D. B. (M)
Chaimowitz, I. (M)
Daly, W. P. (A)
Eberle, E. E. (M)
Ely, F. E. (M)
Fabbricatore, L. (A)
Flax, M. J. (M)
Garrand, L. W. (SM)
Gunnell, G. T. (VA)
Halliden, F. C. (SM)
Kahrilas, P. J. (SM)
Laity, I. A., Jr. (M)
Laspina, C. A. (A)
Lemanczyk, J. C. (M)
Loynes, O. H. (VA)
Lyon, R. W. (A)
Marshall, T. A. (M)
Meyer, J. W. (M)
Mooney, V. J. (SM)
Moss, D. G. (M)
Nixon, G. M. (SM)
Peaceman, H. T. (M)
Rogers, W. (A)
Siyah, P. (M)
Snitzer, M. S. (M)
Spittal, W. R. (M)
Toomey, J. F. (M)
Troupp, L. B. (A)
Tueck, W., Jr. (A)
Viadella, J. W. (A)
Weidmann, L. J. (M)
Winton, H. J. (M)
Wolf, E. (A)
Yoeckel, R. E. (A)
Zimmerman, G. (A)
Zopf, V. R. (M)

Flushing (LI-2)
Absatz, S. I. (M)
Altmann, S. (A)
Amberger, D. J. (M)
Apicella, L. C. (M)
Arany, D. M. (SM)
Ashinsky, M. (M)
Auerbach, L. (M)
Auerbach, M. (SM)
Auil, W. (SM)
Barber, A. W. (SM)
Barron, K. F. (M)
Barry, S. (A)
Berkowitz, M. W. (M)
Bernhardt, C. A. (M)
Bettan, M. I. (M)
Blase, J. (M)
Boate, J. G. H. (A)
Boltan, M. (A)
Boyd, C. H. (A)
Brody, J. (M)
Cammarata, J. (A)
Carian, L. B. (M)
Carpenter, J. J., Jr. (M)
Castro, S. J. (A)
Chako, N. (A)
Chaskin, H. (M)
Chin, H. C. (A)
Climent, L. J. (M)
Cohn, N. M. (M)
Collins, J. V., Jr. (A)
Corrigan, J. P. (M)
Czernysz, A. (A)
Dawson, H. E. (A)
De Cote, R., Jr. (M)
Del Giorno, A. E. (M)
Demarest, C. J. (A)
Deveau, E. J. (M)
Di Franco, J. V. (A)
Donegan, E. V. (A)
Duffy, J. J. (M)
Dzik, A. (A)
Elefant, J. (M)
Feinman, G. (M)
Devine, J. H., Jr. (M)
Dick, A. I. (M)
Dickerson, N. I. (M)
Feldman, L. L. (M)
Frann, S. I. (SM)
Fredericks, I. (M)
Fugazzi, C. (M)
Galanter, M. (A)
Garbarini, G. S. (M)
Gerber, M. M. (SM)
Gershen, B. J. (A)
Gery, S. W. (M)
Gethin, S. A. (A)
Goldstein, S. (A)
Goon, R. (M)
Granoff, H. W. (M)
Granoff, N. H. (A)
Groudan, A. I. (M)
Guarino, P. A. (M)
Harrison, S. (M)
Hatfield, L. N. (SM)
Hertz, S. (A)
Hille, P. F., Jr. (M)
Hillman, K. (M)
Hoffmann, R. R., Jr. (M)
Holleman, E. M. (M)
Horcher, A. P. (A)
Jasik, H. (F)
Jenkins, P. R., Jr. (M)
Juhas, L. A. (M)
Kaplan, R. A. (M)
Kaufman, L. (M)
Kent, L. I. (SM)
Kiessling, C. E. (A)
King, M. (M)
Klein, H. (M)
Kleinberger, R. (M)
Kuehn, C. W. (M)
Kupferberg, K. M. (M)
Laighton, A. K. (M)
Lang, R. M. (A)
Langer, P. L. (M)
La Placa, A. P. (A)
Laskin, R. (M)
Leavitt, L. E. (M)
Lee, T. K. (A)
Leibowitz, B. (M)
Lenczowski, T. M. (M)
Levine, J. (A)
Ley, B. J. (M)
Lipperman, L. (M)
Lippmann, J. S. (A)
Loveman, B. D. (M)
Lustig, H. E. (M)
Lynch, W. J. (A)
Lyons, W. (SM)
Marsocci, V. A. (M)
Martin, P. S. (M)
Mayo, H. L. (A)
Mazzei, A. L. (SM)
Medici, N. (M)
Melmed, A. (A)
Merson, L. (A)
Moe, J. L. (M)
Monroe, J. (A)
Murphy, T. J. (M)
Natchipolsky, M. (A)
Nelson, H. H. (M)
Nelson, J. L. (M)
Nistal, G. E. (A)
Paradis, B. (A)
Parker, H. W. (F)
Partner, A. I. (A)
Pater, O. C. (A)
Pillinger, L. (M)
Ranky, B. (SM)
Redisch, M. S. (M)
Roberto, S. N. (M)
Rolinski, A. J. (A)
Rosin, A. (A)
Rubin, S. (A)
Rush, M. (M)
Russ, B. H. (VA)
Ryzuk, H. (A)
Salkind, E. (M)
Sanial, A. J. (SM)
Scherer, R. L. (M)
Schneiderman, S. (M)
Schroter, R. G. (M)
Schutzman, E. (A)
Schwartz, E. (M)
Seda, L. E. (A)
Sherman, D. (M)
Shivack, I. M. (M)
Siegmann, M. J. (A)
Sieminski, E. (SM)
Sifre, R. A. (A)
Silberlicht, J. W. (M)
Silverman, S. (M)
Silvermetz, D. (M)
Small, B. (M)
Smilowitz, S. N. (A)
Smith, L. (A)
Sohne, G. C. (A)
Solzberg, S. (M)
Sorensen, S. E. (A)
Strauss, K. J. (A)
Stump, J. W. (M)
Tangredi, G. F. (M)
Taub, J. J. (M)
Tucker, N. H. (A)
Uhran, J. J., Jr. (M)
Valente, J. G. (M)
Walrath, D. J. (A)
Wasserman, J. (M)
Weiland, G. H. (M)
Weinshenker, T. J. (M)
Weisman, L. S. (M)
Wolf, F. E., Jr. (M)
Youdin, M. (M)
Zadoff, S. A. (A)
Zinn, L. (A)
Zion, H. (M)
Zunitch, D. M. (A)

Flushing Manor (LI-2)
Beiser, L. (A)
Grumet, A. (A)

Forest Hills (LI-2)
Abbot, R. A. (SM)
Altman, R. B. (A)
Badoyannis, G. M. (M)
Baum, S. H. (SM)
Berkin, A. M. (A)
Berman, D. C. (M)
Broomer, C. J. (M)
Brown, R. M. (A)
Canavaciol, F. E. (SM)
Cheng, B. K. (A)
Conn, J. A. (A)
Dietz, H. G. (M)
Eng, J. (M)
Fonseca, A. P. (M)
Frankfort, M. J. (M)
Fridshal, R. (A)
Friedlander, E. (A)
Garfinkel, A. R. (M)
Geller, M. (M)
Gleimer, L. (M)
Goldstein, W. (M)
Goodman, I. (M)
Goodman, S. (M)
Grayson, K. B. (M)
Gunzenhauser, A. (A)
Harris, M. S. (M)
Hausmann, H. C. (SM)
Herbstman, M. I. (M)
Hogan, J. V. (SM)
Horowitz, B. (A)
Jacobs, B. (A)
Jacobson, J. (M)
Julie, J. (SM)
Jurgen, R. K. (SM)
Kearny, D. H. (M)
Kent, J. S. (M)
Keogh, R. J. (M)
Kobren, M. (A)
Kokkinos, C. (M)
Krasny, J. A. (M)
Kustin, S. (M)
Laudon, H. (M)
Margosian, J. W. (SM)
Mariotti, P. G. (SM)
Martin, A. L., II (A)
Meadow, B. (M)
Meth, I. (M)
Mitchell, W. M. (SM)
Mittman, S. A. (M)
Newton, A. (A)
Ocheret, R. (M)
Ohman, B. V. (A)
Parzen, P. (SM)
Pavane, M. M. (M)
Petrossian, G. (M)
Rich, M. W. (A)
Ross, A. (M)
Sandor, A. (SM)
Saphin, H. N. (M)
Schiffres, P. (M)
Schindler, J. P. (M)
Schlechter, I. (A)
Scott, J. E. (A)
Simon, R. L. (M)
Skidmore, D. B. (A)
Smith, F. W. (M)
Smith, G. J. (A)
Spiecens, C. P. (M)
Teltscher, E. S. (M)
Tevonian, R. B. (M)
Vivenzio, L. J. (A)
Weber, I. J. (M)
Weiss, E. (A)
Wills, A., Jr. (A)
Winzemer, A. M. (SM)
Wyle, H. (M)
Yieh, T.-T. (M)
Zuckerberg, H. (M)

Fort Edward (SCH-1)
Grahame, F. W. (M)

Fort Tilden (LI-2)
McArdle, O. L. (A)

Frankfort (RU-1)
Cockburn, C. D. (M)

Franklin Square (LI-2)
Affias, I. M. (SM)
Avallone, A. (M)
Balogh, J. (M)
Berinsky, M. (M)
Biberacher, R. (A)
Daskam, E., Jr. (M)
Dresner, A. (M)
Greeley, J. J. (M)
Hallisey, R. J. (M)
Harris, S. M. (M)
Kirwan, J. P. (M)
Klerk, R. H. (A)
Kraemer, E. H. (M)
Lee, V. C. (M)
Lipson, W. (M)
Mahler, L. J. (A)
Margulies, F. (M)
McNealus, A. L. (M)
Rand, G. (M)
Richards, J. A. (A)
Schmerler, S. (M)
Schwalbe, J. H. (M)
Schwartz, L. J. (M)
Tarantino, T. C. (M)
Winer, J. D. (M)

Fredonia (BN-1)
Blohm, C. F. (A)

Freeport (LI-2)
Agopian, A. (A)
Beck, G. S. (M)
Belderok, H. C. (A)
Campani, L. M. (M)
Carlson, W. A. (M)
Di Russo, J. C. (M)
Dolphy, E. L. (VA)
Furst, R. E. (M)
Gottlieb, H. B. (A)
Henke, G. W. (M)
Kahn, L. R. (SM)
Knox, R. W. (M)
Liguori, F. (M)
Nelson, C. P. (A)
Prichard, J. S. (M)
Rosenberg, M. (M)
Russell, G. A. (M)
Smedes, R. L. (M)
Spargo, J. S. (A)
Stephenson, G. E. (SM)

Tricamo, V. A. (M)
Washton, A. A. (A)

Freeville (1TH-1)
Blanchard, F. A., Jr. (M)
Wood, R. H. (A)

Fresh Meadows (LI-2)
Barash, L. F. (M)
Chanko, P. N. (A)
Cohen, M. J. (M)
Eaton, J. E. (M)
Feingold, W. (M)
Gebhardt, J. W. (M)
Jude, G. F. (SM)
Marino, J. (M)
Meyer, D. P. (M)
Mulholland, E. J. (A)
Newman, H. (M)
Phillips, A. H. (A)
Pirone, C. (M)
Regis, R. (M)
Richman, D. (SM)
Stern, D. L. (M)
Walsh, F. C. (M)

Galway (SCH-1)
David, W. R. (M)

Garden City (LI-2)
Allen, H. E. (SM)
Allen, W. T. (M)
Barnaby, R. H. (M)
Beck, A. J. (A)
Behn, E. R. (SM)
Berglund, E. B. (SM)
Bernsley, J. T. (M)
Berrell, E. J. (A)
Blasbalg, S. (A)
Cardon, J. (SM)
Carroll, J. M. (M)
Chatterton, J. B. (M)
Chow, W. T. (SM)
Collard, C. A. (A)
Collins, K. (M)
Cornes, R. W. (SM)
Cowgill, D. E. (SM)
Dalzell, C. W. (A)
Danielson, F. H. (M)
Dean, W. N. (M)
Derr, E. H., Jr. (M)
Dertinger, E. F. (M)
Dong, H. L. H. (M)
Duffy, M. P. (SM)
Dunn, L. J. (SM)
Edwards, R. S. (M)
Eriksen, E. M., Jr. (M)
Fisher, D. L. (SM)
Fricker, J. N. (M)
Fuller, E. J. (A)
Galante, S. P. (A)
Gemmill, R. Q. (M)
Girodias, R. M. (A)
Gittens, E. D. (SM)
Giulianelli, R. M. (M)
Gregson, A. C. (M)
Grunsky, C. E. (SM)
Hancock, J. R. (A)
Hesse, A. N. (M)
Hinds, J. E., Jr. (M)
Keim, D. Y. (M)
King, L. H. (SM)
King, W. E., Jr. (A)
Kirby, M. J. (M)
Kowalski, A. (M)
Kroeger, R. D. (M)
Learned, V. (F)
Leeds, D. (M)
Lester, J. M. (SM)
Madigan, W. J. (M)
Magilligan, W. X. (A)
McHenry, J. J. (A)
McKesson, L. J. (SM)
Meaney, M. H., Jr. (M)
Mellor, W. N. (VA)
Menke, W. W. (M)
Mundo, C. J., Jr. (SM)
Niemela, R. J. (A)
Olson, O. F. (M)
Olthuis, R. W. (M)
Pelino, W. M. (M)
Polgar, E. A. (A)
Raphael, M. S. (M)
Rau, D. S. (SM)
Rigby, R. T. (A)
Ruth, E., III (SM)
Schreitmueller, R. F. (M)
Seay, P. A. (M)
Shaper, H. B. (M)
Shepherd, J. E. (F)
Shute, E. R. (SM)
Simpson, M. (M)
Sussman, N. (M)
Terry, H. P. (A)
Tribken, E. R. (SM)
Tschanen, W. (A)
Webb, R. A. (A)
White, W. T. (SM)
Wies, G. (M)
Winchell, W. H. (VA)

Garden City Park (LI-2)
Braun, L., Jr. (M)
Frank, K. F. (M)
Fitzgerald, J. E. (A)
Kilsheimer, R. L. (M)
Leslie, R. E. (A)

Gardenville (BN-1)
Huber, R. W. (A)

Gardiner (NY-MH-2)
Graham, J. M. (A)
Watson, R. D. (M)

Garnerville (NY-2)
Ten Eyck, R. A. (A)

Garrison (NY-2)
Elmore, W. B. (M)
Lewis, E. J. (M)
Schroeder, C. E. (A)

Geneseo (ROC-1)
Ganiard, R. W. (A)
Laidlaw, W. R. (M)

Geneva (ROC-1)
Benda, D. (M)
Fairbanks, D. I. (M)
Harrold, G. B. (A)
Smith, C. L. (A)
Smith, S. S. (M)

Glen Cove (LI-2)
Aiello, V. S. (M)
Andrews, D. H. (SM)
Brown, L. E. (M)
Buchbinder, M. M. (SM)
Buchtenkirch, A. J. (M)
Cohen, M. (A)
Davis, W. M. (M)
Doncese, G. (A)
Duffy, D. P. (M)
Egnuss, E. M. (M)
Firth, L. G., Jr. (M)
Franzisco, G. (A)
Geddy, G. B. (M)
Getz, H. (A)
Glassman, S. (M)
Grabbe, D. (A)
Green, W. (M)
Hollander, A. M. (M)
Hunt, H. W. (M)
Jablonski, E. R. (M)
Jorge, A. (M)
Kiser, W. L. (SM)
Klein, M. M. (M)
Magagnos, W. F. (M)
McDonough, J. A. (SM)
Palmer, E. B. (M)
Papas, J. (A)
Peck, H. E. (M)
Proudfit, A. (M)
San Giovanni, C. S., Jr. (M)
Scott, G. G. (A)
Shapiro, S. (M)
Shell, W. H. (M)
Souder, C. W. (SM)
Whealy, J. E. (SM)

Glendale (LI-2)
Belz, R. A. (A)
Capellupo, F. V. (M)
Chapman, R. F. (M)
Gomes, C. N. (M)
Knothe, C. H. (M)
Merkel, K. (A)
Muth, R. N. (M)
Sperber, A. O. (SM)
Veit, F. (M)
Vought, N. F. (SM)
Walsh, J. J. (A)

Glen Falls (SCH-1)
Humphrey, T. R. (A)
Nichols, D. H. (M)
Wells, H. D., Jr. (M)

Glen Head (LI-2)
Cetrone, V. C. (M)
Cooke, W. T. (SM)
Dow, J. B. (F)
Gauger, R. H. (M)
Hanson, G. N. (SM)
Keeneth, J. A. (A)
Kilman, M. (A)
Martin, E. E. (A)
Mayer, F. N. (M)
McClure, R. E. (M)
O'Brien, T. H. (M)
Reed, F. C., Jr. (M)
Roessler, F. J., Jr. (M)
Rumrill, H. J. (M)
Simmons, J. C. (M)
Swanson, E. H. (SM)
Timms, R. J. (M)
Todd, P. G. (M)
Tweeddale, J. E. (SM)
Widenor, M. D. (M)
Zylla, H. R. (A)

Glen Oaks (LI-2)
Adams, A. T. (M)
Barber, E. (A)
Binder, D. I. (M)
Botta, A. J. (A)
Brady, J. P. (M)
Broder, A. (M)
Brown, W. K. (M)
Bruce, G. B. (SM)
Coleman, C. H. (A)
Danner, F. G. (M)
Dorchak, C. J. (M)
Dreksler, H. L. (M)
Elliott, R. G. (M)
Farkas, Z. D. (A)
Foley, J. H. (M)
Gallagher, M. L. (M)
Hansen, H. R. (A)
Jackson, A. R. (M)
Jones, J. P. (A)
Kos, S. M. (A)
Lally, K. P. (M)
Leahy, W. F. (M)
Leck, D. E. (A)
Middlebrook, V. S. (M)
Moss, L. A. (M)
Nelson, A. G. (A)
O'Leary, D. F. (A)
Pollack, P. (M)
Prasinos, T. (M)
Ross, H. (M)
Roth, A. M. (M)
Sanderson, G. H. (M)
Shizume, P. K. (M)
Stewart, J. J. (M)
Weiner, M. L. (A)

Glen Oaks Village (LI-2)
Breheney, R. F. (A)
Norman, R. H. (A)
Powell, T. (A)

Goshen (NY-MH-2)
McClean, J. F. (SM)

Gowanda (BN-1)
Allen, M. B. (M)

Grand Island (BN-1)
Barnes, J. A. (M)
Bidell, F. W. (A)
Plummer, D. K. (M)
Prast, J. W. (A)

Great Neck (LI-2)
Adise, H. H. (M)
Aichele, P. F. (SM)
Anderson, W. M. (M)
Appleman, L. (M)
Aronowitz, L. (M)
Astrow, M. (M)
Bachman, H. L. (M)
Barbasso, S. (M)
Bassett, W. H., Jr. (A)
Beck, D. H. (SM)
Becker, J. E. (M)
Bell, V. J., Jr. (M)
Bender, A. (M)
Benjamin, J. N. (SM)
Bittman, L. R. (A)
Bloom, C. H. (M)
Blumkin, R. (A)
Boos, F. H., Jr. (M)
Brian, J. (M)
Brown, D. A. (M)
Browning, J. H. (A)
Burgh, A. J. (A)
Butt, R. J. (A)
Campion, S. F. (A)
Chaikin, M. (A)
Chubb, C. F., Jr. (SM)
Coe, M. R. (SM)
Colistra, W. P. (M)
Cook, C. E. (SM)
Cooper, L. F. (M)
Crawford, J. D. (SM)
Croly, J. W. (A)
Crosby, R. W. (M)
De Fries, H. A. (A)
Dettinger, D. (SM)
Dostal, F. X. (A)
Drosses, J. (M)
Drvosten, J. J. (SM)
Dunlap, O. E., Jr. (SM)
Elliott, W. A. (M)
Engelson, H. R. (A)
Evans, R. A. (A)
Fischer, E. I. (A)
Foley, T. P. (A)
Frank, R. L. (SM)
Frantz, W. P. (SM)
Freeman, H. (SM)
Frische, C. A. (F)
Garnett, D. W. (M)
Garville, L. R. (M)
Goldberg, J. (M)
Goldstein, S. H. (A)
Graham, V. M. (F)
Green, W. F. (M)
Halperin, A. (M)
Halpern, W. (M)
Hanfling, J. D. (M)
Hannan, P. W. (M)
Hanratty, R. J. (A)
Harris, H., Jr. (M)
Harrold, W. J. (M)
Hartman, R. K. (M)
Hauser, A. A., Jr. (M)
Hershler, A. (M)
Hershyn, W. (M)
Holcomb, P., Jr. (SM)
Holmboe, L. W. (M)
Hronek, R. L. (SM)
Huber, W. J. (M)
Isbister, E. J. (F)
Jaffe, D. L. (SM)
Jahn, D. M. (M)
Jasik, C. (SM)
Kahn, M. B. (SM)
Katzelnick, H. (A)
Ketay, M. F. (SM)
Koffman, I. (M)
Krencik, P. M. (A)
Krygier, G. F. (SM)
Kudo, Y. (M)
Landsman, D. I. (A)
Larick, S. H. (M)
Lazar, E. F. (SM)
Leeds, G. G. (A)
Lerz, O. M., Jr. (SM)
Levers, E. O. (A)
London, F. H. (A)
Mac Lean, W. D. (M)
Maloney, R. T. (M)
Marcuvitz, N. (F)
Martin, E. J. (M)
Mayerson, M. I. (M)
McBee, W. D. (SM)
McNamara, D. J. (M)
Messner, W. S. (M)
Meyer, E. G. (SM)
Miller, C. R. (M)
Milton, J. (A)
Milton, L. (A)
Mongeon, R. J. (M)
Morrison, M. (M)
Mulligan, J. R. A., Jr. (M)
Myles, H. E. (M)
Naidamast, D. (SM)
November, F. D. (A)
November, P. M. (M)
Onyskin, M. (M)
Padovano, R. J. (M)
Paley, W. D. (M)
Palter, N. H. (SM)
Philipps, L. E. (SM)
Planteroth, J. A. (M)
Popylisen, D. J. (M)
Rasmussen, J. M. (M)
Redlien, H. W., Jr. (M)
Rella, J. D. (M)
Reuther, D. W. (M)
Richter, F. G. (A)
Roake, W. C. (M)
Robin, N. (A)
Rosanes, A. P. (M)
Rosen, B. M. (M)
Rosenberg, S. L. (M)
Rothman, H. S. (A)
Rutman, S. M. (A)
Sadler, L. R. (M)
Saladna, J. C. (M)
Schimmel, H. (M)
Schmidt, E. R. (A)
Schneider, R. M. (SM)
Schwartz, L. S. (SM)
Shutterly, H. B. (A)
Sleven, R. L. (M)
Sperling, J. G. (M)
Spero, R. E. (A)
Stark, E. W. (M)
Steber, W. C. (SM)
Stekert, J. J. (A)
Stone, S. M. (M)
Strumer, J. N. (A)
Sturgeon, W. S. (SM)
Sussman, H. (SM)
Taffet, M. S. (M)
Tanenbaum, M. S. (SM)
Taylor, J. A. (M)
Tenenbaum, F. (M)
Toll, P. A. (A)
Van Davelaar, F. S. (A)
Vaupel, G. E. (A)
Vehslage, E. P. (M)
Ward, W. C., Jr. (M)
Wathen, R. L. (M)
Webber, H. E. (SM)
Welch, T. J. (A)
Werst, M. C. (M)
Wheeler, H. A. (F)
Whipple, G. D. (M)
Whitfield, E. W. (M)
Williams, F. H. (SM)
Winter, N. L. (M)
Wohl, R. J. (M)
Wright, G. B. (A)
Zbar, P. B. (M)
Zellers, J. E., Jr. (A)

Great Neck Estates (LI-2)
Lampert, M. S. (M)

Great Neck Plaza (LI-2)
Bryant, B. L., Jr. (A)

Greenlawn (LI-2)
Eisele, J. G., Jr. (M)
Horne, W. J., Jr. (M)
Lisy, B. J. (M)
Morse, R. V. (M)
Nelson, R. T. (SM)
Parker, R. H. (M)
Scheblein, G. M., Jr. (A)
Schillinger, R. F. (SM)
Schoenfeld, K. (M)

Greenvale (LI-2)
Goldsmith, K. G. (M)
Hansel, P. G. (F)
Harrison, A. E. (SM)
Siegmund, E. L. (M)

Greenwich (SCH-1)
Peters, P. H., Jr. (SM)

Griffiss AFB (RU-1)
Guffey, H. F. (M)
Igou, J. M. (M)
Knauf, G. M. (M)
Nicholson, C. L. (M)
Shannon, P. D. (M)

Groton (ITH-1)
Clark, M. M. (M)

Halesite (LI-2)
Larson, A. F. (SM)
Warner, W. V. (A)

Hamburg (BN-1)
Fiedler, L. (M)
McBride, N. G. (A)
Prybyl, R. P. (M)
Talbot, R. D. (M)

Hamilton Beach (LI-2)
Pihl, R. L. (A)

Hampton Bays (LI-2)
Rothman, R. H. (A)
Shattuck, C. J. (M)
Turner, F. T. (M)

Harpursville (BING-1)
Dibb, G. (M)
Lawrence, N. S. (M)

Harrison (NY-W-2)
Carpiniello, F. (A)
De Pasquale, R. H. (SM)
Galione, W. J. (A)
McIntyre, F. P. (M)

Hartsdale (NY-W-2)
Belchis, S. (M)
Bonney, H. W. (M)
Byrne, R. M. (M)
Cloud, P. R. (M)
Danuff, M. L. (A)
Engelhardt, G. B. (SM)
Gillette, D. (A)
Disher, J. (M)
Robertson, H. E. (M)
Sherr, S. (SM)
Simon, M. L. (A)
Vagt, H. T., Jr. (M)

Hastings-On-Hudson (NY-W-2)
Archbald, R. W. (SM)
Batchelor, J. C. (SM)
Garman, R. L. (F)
Hohberger, H. P. (A)
Lodge, W. B. (F)
Ripp, H. (M)
Schaefer, L. E. (M)
Vavoudis, S. N. (M)

Hauppauge (LI-2)
Ciskanik, M. J. (A)

Hawthorne (NY-W-2)
Hales, E. B. (M)

Hempstead (LI-2)
Arguin, R. G. (M)
Bellmar, C. L. (M)
Chernikoff, L. (A)
Diorio, J. (A)
Dobson, D. A. (M)
Enfiejian, E. A. (A)
Fener, H. (M)
Gould, G. A. (A)
Johnson, H. E. (A)
Keonjian, E. (SM)
Kilmer, T. W. (A)
Lesser, J. (SM)
Mandl, G. P. (SM)
Michaels, G. M. (M)
Mieher, W. W. (F)
Morishita, N. (M)
Peters, J. L. (SM)
Pilnick, C. (SM)
Polakowski, W. G. (M)
Rosen, L. R. (M)
Skirrow, J. E. (A)
Stewart, J. W. (A)
Ury, G. A., Jr. (A)
Verton, M. P. (M)
Westover, T. A. (SM)
Williams, J. H. M. (M)
Zettler, S. G. (M)
Zimbalatti, A. G. (M)

Henrietta (ROC-1)
Carey, J. J. (M)
Jud, H. G. (M)

Hicksville (LI-2)
Abjanich, G. S. (M)
Amodeo, C. F. (M)
Bashe, R. (M)
Bendett, R. M. (M)
Bernstein, H. (M)
Brecht, L. R., Jr. (M)
Cady, R. T. (M)
Cazanjian, R. S. (M)
Chaber, R. K. (M)
Colgan, G. P. (M)
Cosonas, A. (A)
Crosby, M. G. (F)
Dolin, M. (A)
Emilio, G. A. (A)
Feinstein, J. (M)
Figlia, J. R. (M)
Fink, A. (SM)
Freier, M. (M)
Fry, W. H. (M)
Hagedorn, H., Jr. (A)
Halbirt, C. D. (M)
Hall, J. D. (M)
Haller, K. A. (M)
Hartman, A. (A)
Hayes, W. A. (A)
Herman, S. (M)
Hershoff, L. (SM)
Jacobs, S. M. (M)
Kawaller, J. (M)
Kennedy, J. B. (A)
Kleves, J. K. (A)
Kimball, L. R. (M)
Kowell, R. E. (A)
Kretzing, J. C. (M)
Kuskowski, L. J. (A)
Loth, P. A. (SM)
Luthiger, R. (M)
Martin, R. W. (M)
Meirowitz, R. L. (M)
Meyer, F. (M)
Murray, P. C. (A)
Naftulin, A. D. (M)
Nicholsen, W. E. (M)
Nieminski, W. V. (A)
Noland, J. A. (M)
Noneman, F. A. (M)
Oberlies, J. L. (M)
Pavalow, M. (SM)
Popik, M. J. (M)
Rabin, G. C. (M)
Radzka, B. (SM)
Rudich, I. (M)
St. John, K. M. (SM)
Schwartz, P. (A)
Seckel, J. P. (M)
Segal, B. (M)
Seidon, A. (M)
Sherry, L. I. (M)
Sicuranza, C. A. (M)
Simon, I. A. (M)
Smith, W. F. (M)
Spence, H. W. (M)
Sposato, F. J. (M)
Strong, J. J., Jr. (M)
Tilly, V. F. (M)
Variano, V. V. (M)
Waller, H. H. (M)
Wasson, I. (M)
Williams, G. W. (M)
Wolk, B. (M)
Zampino, F. J. (A)
Zimmerman, H. (M)
Zimmerman, S. (M)

Highland (NY-MH-2)
Gerbitz, C. G. (A)
Harrison, B. A. (M)
Jenny, F. F. (M)
McCoy, W. B. (M)
Pinto, M. A. (A)
Royer, G. H. (M)

Hillburn (NY-2)
Teso, W. A. (M)

Hillsdale (NY-MH-2)
Sabeff, S. S. (M)

Holcomb (ROC-1)
Hudson, D. M. (M)

Holland Patent (RU-1)
Bennison, G. K. (M)
Ladwig, H. A. (M)
Millet, J. F. (A)
Pulhamus, W. R. (M)
Ryerson, J. L. (M)

Hollis (LI-2)
Akerberg, E. D. (A)
Auerbach, A. A. (M)
Brennan, A. T. (A)
Caputo, N. J. (VA)
Daly, J. J. (A)
Dorfman, J. (A)
Edell, J. J. (M)
Franklin, J. I. (A)
Hultmark, R. S. (A)
Johanson, P. (A)
Larsen, G. R. (A)

Mahland, E. W. (M)
Richter, I. P. (A)
Rogers, D. W. (A)
Schlafly, H. J. (SM)

Holliswood (LI-2)
Davidson, R. (M)]
Marcus, P. (A)

Honeoye Falls (ROC-1)
Munson, B. (M)

Hoosick Falls (SCH-1)
Case, C. C., Jr. (M)
De Luca, A. P. (M)

Hopewell Junction (NY-MH-2)
Allen, C. A. (M)
Butler, R. A. (A)
Eibsen, R. L. (M)
Ostrowski, E. A. (M)
Slobodzinski, E. J. (M)
West, R. L. (SM)
Zahradnik, B. V. (M)

Hornell (ELM-C-1)
Deegan, T. E. (M)

Horseheads (ELM-C-1)
Alexander, J. J. (A)
Attridge, C. C. (M)
Betts, B. J. (M)
Canty, B. R. (M)
Gerard, W. A. (M)
Gleason, C. H. (SM)
Groo, H. R. III (M)
Kylander, J. C. (M)
Larson, R. G. (SM)
Playfoot, K. C. (A)
Rice, L. (A)
Sadler, J. G. (SM)
Soule, W. J. (M)
Staples, R. L. (A)
Thayer, C. E. (M)
White, R. A. (SM)

Hudson (NY-MH-2)
Fedorowycz, B. W. (M)

Hudson Falls (SCH-1)
Clark, N. R. (M)
Cohen, M. (A)
Scoville, M. E. (SM)
Warner, D. F. (M)

Hughsonville (NY-MH-2)
Walter, G. (A)

Huntington (LI-2)
Alber, J. D. (M)
Ball, L. X. (M)
Beers, M. I. (SM)
Bennett, A. I. (M)
Billhimer, R. D. (A)
Bostwick, L. S., Jr. (M)
Burke, E. W., Jr. (SM)
Caswell, J. N. (SM)
Comstock, G. E., III (M)
Copel, M. (SM)
Dosch, T. J. (M)
Duryea, J. C. (SM)
Eicher, H. G. (M)
Englert, H. E. (A)
Evans, R. L. (A)
Evans, T. L. (M)
Feltham, C. F. (M)
Ferrier, D. T. (SM)
Forsberg, K. E. (M)
Fraser, H. B. (A)
Gore, J. H. (M)
Greenway, T. H. (M)
Gretz, R. W. (M)
Gutlove, N. M. (M)
Hansen, C. A. (SM)
Hansen, J. A. (SM)
Hartman, L. A. (M)
Hinchey, R. L. (M)
Howell, S. N. (A)
Hoxie, I. R., Jr. (A)
Hutchison, T. C. (A)
Iddings, H. G., Jr. (SM)
Irick, J. (SM)
Johnson, R. L., Jr. (M)
Joss, E. T. (M)
Jurman, H. R. (A)
Kaufmann, W. (A)
Kenyon, D. E. (SM)
Klose, R. C. (A)
Koppel, A. U. (SM)
Kreschollek, F. W. (A)
Kulik, H. S. (A)
Lippke, J. A. (M)
Lockwood, R. C. (SM)
Lyons, R. C. (M)
Mac Donald, W. W. (SM)
Loecher, G. S. (A)
Loughlin, B. D. (F)
Marchesano, J. E. (M)
Matthews, L. M. (M)
Mc Coy, J. H. (SM)
Merrill, G. (SM)
Nehrbas, T. C. (A)
Packard, K. S. Jr. (SM)
Perry, J. S. (M)
Poppe, C. W. (A)
Roel, E. L. (M)
Rosar, M. T. (M)
Russell, J. A., III (M)
Safran, M. (M)
Sard, E. W. (M)
Schaefer, A. E. (M)
Search, R. W. (A)
Setaro, J. E. (M)
Sherman, C. M. (A)
Simons, R. F. (SM)
Singer, J. S. (M)
Soboleski, W. P. (A)
Stengel, J. F., Jr. (A)
Suske, C. C. (A)
Swenson, W. J. (A)
Uzzo, A., Jr. (A)
Venaglia, E. J. (SM)
Vogel, E. (SM)
Weaver, S. E. (M)
Wheeler, R. B. (M)
Winslow, R. G. (M)
Wright, J. C. (M)
Yamamoto, G. H. (A)

Huntington Station (LI-2)
Abourezk, W. (A)
Attura, G. M. (M)
Bellew, R. W. (A)
Bernay, R. A. (M)
Buehrle, W. E., Jr. (M)
Chubbuck, E. L. (M)
Connor, W. E., Jr. (A)
Dasher, P. M. (SM)
Driscoll, F. X. (M)
Emerson, J. (SM)
Fraser, R. (M)
Freundlich, M. M. (SM)
Gilmartin, J. J., Jr. (M)
Goldstein, A. (M)
Grib, B. F. (M)
Gross, S. H. (SM)
Hall, R. L. (SM)
Joline, E. S. (A)
Jolly, E. F. (M)
Kerzner, N. A. (M)
Kishi, H. J. (M)
Knecht, R. A. (SM)
Kronengold, M. (M)
Krusos, D. A. (M)
Kuhn, K. H. (M)
Lane, J. J. (A)
La Plante, R. A. (M)
Lehr, P. (SM)
Lemberger, S. (M)
Liguori, A. (SM)
Marcus, J. A. (M)
McMenamin, J. M. (M)
Meichner, F. T. (M)
Mesecher, M. G. (A)
Morrow, A. J. (A)
Nelson, E. P. (M)
Newdale, E. I. (M)
Noji, T. T. (SM)
Olson, C. W. (A)
Orford, R. J. (M)
Papamarcos, G. (M)
Parmentier, J. C. (M)
Richardson, C. M. (M)
Ritchey, N. B. (SM)
Roberts, F. G. (M)
Roller, W. P. (A)
Rosen, M. (SM)
Sachs, B. K. (M)
Sammis, S. L., Jr. (M)
Schramm, C. T. (M)
Schwaninger, J. W. (M)
Schwartz, B. (M)
Small, H. (M)
Strazzulla, R. L. (M)
Stokes, B. C. (M)
Taft, D. R. (M)
Urling, H. R. (M)
Vandenburgh, A. A. (A)
Vetter, W. F. (SM)
Walker, A. C. (A)
Wanty, B. G. (M)
Williams, R. J. (SM)
Wright, B. (SM)

Hurley (NY-MH-2)
Hofler, J. J. (A)
O'Reilly, J. P. (M)
Turner, J. M. (M)
Walston, C. E. (A)

Hyde Park (NY-MH-2)
Bartelt, J. E. (A)
Burke, M. L. (M)
Callinan, T. D. (SM)
Coopper, R. A. (A)
Crowe, J. W. (M)
Dettling, A. K. (A)
Digan, T. E. (A)
Eckelman, P. F. (A)
Florac, W. A., Jr. (M)
Grubb, D. S. (M)
Henle, R. A. (M)
Kauffmann, J. A. (A)
Low, P. R. (M)
Muenzer, B. M. (M)
Patti, M. J. (M)
Rodriguez, L. H. (A)
Trimble, L. F. (M)
Whitenack, R. M. (A)

Ilion (RU-1)
D'Hoostelaere, A. C. (M)
Momberger, P. E. (M)
Dally, B. A. (M)
Pierce, D. C. (M)

Irvington (NY-W-2)
Dickstein, S. R. (A)
Duffendack, O. S. (F)
Walsh, T. J. (A)

Irvington-On-Hudson (NY-W-2)
Arfin, B. (SM)
Auerbacher, W. F. (SM)
Hipple, A. J. (SM)
Kelton, G. (SM)
Kohler, T. R. (SM)
Maps, C. E. (A)
Wofsey, D. (A)

Island Park (LI-2)
Horowitz, H. (M)
Marino, P. J. (M)
Preisler, M. (M)

Islip (LI-2)
Daubaras, E. J. (M)
Maher, E. F. (A)
Oberbeck, J., Jr. (A)
Reeves, W. B. (M)

Islip Terrace (LI-2)
Monsees, F. G. (A)

Ithaca (ITH-1)
Ares, M. (M)
Austein, E. E. (A)
Blair, W. W. (A)
Bolgiano, R., Jr. (M)
Booker, H. G. (F)
Bryant, N. H. (A)
Bullock, A. J., Jr. (A)
Campbell, J. B. (M)
Cameron, B. (M)
Charton, P. W. (SM)
Chernoff, D. P. (M)
Cohen, M. H. (M)
Colbert, S. M. (M)
Dalman, G. C. (SM)
De Claris, N. (M)
Eastman, L. F. (A)
Ferris, E. E. (A)
Ford, L. H. (M)
Gordon, W. E. (SM)
Greer, D. L. (A)
Hackett, C. M., Jr. (M)
Hall, R. E. (M)
Hansell, P. D. (M)
Harris, D. C. (M)
Hautaniemi, B. W. (M)
Hazebrook, H. (M)
Heydt, H. L. (M)
Holden, W. D. (A)
Hollar, M. E. (A)
Howland, I. R. (SM)
Ingalls, C. E. (SM)
Jackson, A. S. (M)
Jankowski, H. (M)
Johnson, E. M. (M)
Kantor, G. (M)
Kerns, G. P. (A)
Kram, W. P. (M)
Lipp, J. P. (M)
Luck, A. J. (M)
Maresca, T. J. (A)
Matt, S. (M)
May, J. C. (A)
Mayer, H. F. (F)
McGaughan, H. S. (SM)
McLean, T. (SM)
Meserve, W. E. (SM)
Mitchell, E. (SM)
Mitchell, M. E. (A)
Murray, W. H. (M)
Nichols, B. (SM)
Nitzberg, R. (A)
Parker, R. R. (M)
Perry, F. M. (SM)
Pressly, W. H., Jr. (M)
Rayl, G. J. (M)
Rider, L. S. (M)
Robbins, R. (M)
Roberts, C. R. (M)
Rogers, R. G. (A)
Rooney, T. J. (M)
Sample, G. A. (M)
Sanford, J. R. (M)
Seymour, M. E. (M)
Seymour, R. N. (M)
Shnurer, F. (A)
Smith, H. G. (M)
Stanton, J. W. (M)
Swana, J. J. (A)
Teegarden, W. M. (A)
Temple, K. A. (A)
Travis, J. B., Jr. (M)
Vrana, N. (M)
Wagner, L. S. (M)
Warr, R. E. (M)
Webb, J. S. (SM)
Wheeler, N. D. (M)
Whyland, W. P. (A)
Wolf, D. A. (A)
Young, M. C. (M)
Zimmerman, S. W. (SM)

Jackson Heights (LI-2)
Anastos, E. G. J. (M)
Bertan, L. L. (M)
Bila, P. (M)
Blazek, H. F. (A)
Brenner, A. (A)
Cagney, W. M. (A)
Castrignano, R. A. (SM)
Codina, J. G. (A)
Cole, W. J., Jr. (A)
Cosachov, B. (A)
Dermit, G. (M)
Dorato, P. E. (M)
Durlek, J. J. (A)
Dugot, R. S. (A)
Dzik, S. (M)
Fray, D. I. (M)
Fletcher, R. (A)
Flum, E. (M)
Glick, H. (M)
Gommo, F. J. (M)
Grunwald, F. S. (A)
Hall, R. C. (M)
Hanft, C. J. (A)
Hart, E. T. (M)
Hollabaugh, M. G. (SM)
Iorio, S. A. (M)
Kassler, R. (A)
Kelley, L. A. (M)
Komuves, R. E. (M)
Kozicki, H. (A)
Lahm, G. P., Jr. (M)
Lavan, D. A. (M)
Machis, R. I. (M)
Mahler, R. J. (A)
Malang, A. W. (A)
Mavromatis, A. (A)
Meister, P. T. (M)
Michaelson, H. B. (M)
Nemchuk, W. J. (M)
Paterno, P. M. (M)
Pleasure, M. (SM)
Prihar, Z. (SM)
Rehberg, C. F. (M)
Rudis, M. (A)
Samsky, B. S. (SM)
Scholer, R. M. (A)
Terleckyi, J. (A)
Tomes, S. R. (SM)
Torian, J. T. (SM)
Tucci, C. J. (A)
Weil, K. (M)
Zisselman, A. (A)

Jamaica (LI-2)
Baldwin, T. W. (M)
Barsanti, D. H. (A)
Bernstein, G. (SM)
Bertuccio, D. J. (M)
Bodow, J. (M)
Bruch, R. (A)
Carter, B. S. (M)
Deloi, D. J. (M)
Dooley, E. G. (M)
Farren, R. W. (A)
Fuchs, H. B. (A)
Funck, E. V. (M)
Gordon, J. J. (M)
Granet, A. J. (M)
Grigoraki, N. M. (M)
Hargrave, E. T. (A)
Harvey, T. (A)
Havel, J. F. (A)
Herron, G. C. (A)
Holland, B. S. (A)
Homa, R. M. (M)
Hutter, R. G. E. (F)
Jacobs, B. (M)
Johnson, R. (A)
Karvel, C. T. (A)
Lewinstein, M. (SM)
Liss, M. (M)
Martin, J. R. (A)
Melman, M. (M)
Menaker, D. S. (M)
Moos, A. M. (M)
Mourier, G. (SM)
Munk, R. (M)
Nash, D. A. (M)
Niczky, T. A. (M)
Novick, M. (M)
Olsen, R. T. (A)
Paledes, T. P. (M)
Pan, J. W. (M)
Resnick, S. (M)
Robbins, A. (M)
Roberts, G. (A)
Robinson, H. L. (M)
Sachs, R. (SM)
Schlachter, C. P. (A)
Schurr, E. J. (A)
Schwarz, F. C. (M)
Seelig, K. V. (A)
Shottenfeld, R. (M)
Stark, H. M. (M)
Theodoseau, T. (A)
Topper, L. (A)
Vaher, E. (M)
Varza, G. (A)
Vergoz, R. A. (A)
Wiesner, S. (SM)
Ziblatt, R. (A)

Jamaica Estates (LI-2)
Bernstein, J. (SM)
Selbmann, R. W. (M)

Jamestown (ER-1)
Crissey, D. L. (A)
Jazbutis, A. (M)

Jamesville (SYR-1)
McFee, R. (M)
Pugsley, D. W. (F)
Raper, J. A. A. (A)

Jericho (LI-2)
Barbella, A. M. (M)
Baumel, I. D. (M)
Bryerman, G. J. (A)
Hartel, R. (M)
Houseworth, G. H. (SM)
Jacobson, N. (M)
Leight, J. (M)
Levinson, E. (M)
Locker, M. H. (M)
Mehlman, S. J. (SM)
Miller, G. E. (A)
Pincus, M. (M)
Torgow, E. N. (SM)
Trevisin, R. F. (M)

Jewell (RU-1)
Markham, I. F. (M)

Johnson City (BING-1)
Allen, G. W. (M)
Ayers, J. G., Jr. (M)
Barieri, G. (A)
Batty, R. A. (M)
Black, T. L. (M)
Bosman, E. H. (M)
Cantwell, R. J. (M)
Carros, J. R. (A)
Caulfield, J. T. (M)
Damron, D. H. (A)
Demer, F. M. (A)
Duran, F. A., Jr. (SM)
Forbes, R. E. (M)
Fournier, L. E. (M)
Fry, L. D. (M)
Fuchiek, R. J. (M)
Hajko, H. J. (A)
Herzig, D. F. (M)
Ingram, J. J. (M)
Ivy, R. L. (M)
Johnson, M. R. (SM)
Jones, R. A. (M)
Miller, H. T., Jr. (A)
Pittsley, E. L. (M)
Powell, M., Jr. (M)
Pratt, R. L. (M)
Rangitsch, E. L. (M)
Rudwick, B. H. (M)
Rusnak, M. E. (M)
Sullivan, D. L. (M)

Johnstown (SCH-1)
Vunk, A. C. (M)

Katonah (NY-W-2)
Cassidy, J. J. (M)
Hilliard, W. P. (M)
Wallace, R. W. (A)

Keeseville (SCH-1)
Bezio, B. R. (A)

Kenmore (BN-1)
Allberg, D. C. (M)
Anderson, E. W. (M)
Archibald, W. R. (M)
Arthur, R. J. (M)
Bechtel, M. E., Jr. (M)
Bennett, J. E. (M)
Brown, R. M. (A)
Browne, J. F. (M)
Clark, D. C. (A)
Constantino, J. C. (M)
Dietrich, R. W. (M)
Fleming, R. W. (A)
Franclemont, H. J., Jr. (A)
Halsted, G. P. (M)
Hill, L. L. (A)
Iverson, R. W. (M)
Kaushagen, W. M. (SM)
Knorr, W. G., Jr. (M)
Kohman, E. J. (M)
Lamy, R. H. (M)
Laufer, E. A. (M)
Leggiere, D. D. (A)
Le Van, W. I. (A)
Okun, A. M. (SM)
Oxley, V. C. (A)
Riggs, J. H. (SM)
Roess, T. L. (A)
Rupp, E. W., Jr. (SM)
Shub, L. (SM)
Spears, R. E. (A)
Stephenson, H. B. (M)
Swartzlander, D. E. (A)
Warren, F. H. (M)
Welmers, E. T. (SM)
Wills, R. H. (M)

Kerhonkson (NY-MH-2)
Greenberg, H. (M)

Kew Garden Hills (LI-2)
Erenburg, S. A. (M)
Kaplan, S. J. (A)
Rivera-Cardona, B. A. (M)

Kew Gardens (LI-2)
Appel, H. G., Sr. (M)
Berman, H. M. (SM)
Bidner, H. (A)
Blanco, M. G. (M)
Campopiano, C. N. (M)
Cassidy, M. E. (A)
Constantakes, P. (M)
Devito, M. F. (A)
Espenschied, L. (F)
Friedman, I. (A)
Gordon, R. L. (A)
Jacobs, M. (M)
Jensen, A. J. (M)
Lakshmanan, T. K. (M)
Landauer, A. (A)
Leibholz, S. W. (A)
Levine, J. (M)
Lurye, J. R. (M)
Marantz, S. B. (A)
Poletti, G. (A)
Reuter, P. J. (SM)
Roberts, A. K. (SM)
Seliger, V. H. (SM)
Smith, C. I. (M)
Smith, C. R. (SM)
Spett, H. (M)
Stiel, J. (M)
Stock, D. C. (M)
Taylor, J. M. (M)
Warren, D. M. (M)
White, G. R. (M)
Wiesner, L. (M)

Kings Park (LI-2)
Goodman, K. G. (M)
Liverios, D. T. (M)
Logrieco, M. G. (M)
Preti, L. L. (SM)

Kingston (NY-MH-2)
Baxter, D. W. (A)
Bliss, B. E. (A)
Breiding, E. J. (M)
Brennan, R. J. (M)
Brown, M. E. (M)
Burawski, J. A. (M)
Byman, E. C. (M)
Capasso, G. F. (A)
Cooley, H. E. (M)
Dolan, P. A. (A)
Douglas, R. M. (A)
Downing, K. D. (M)
Dumas, A. M. (M)
Dunn, C. E. (M)
Eisenstein, A. M. (M)
Elisworth, J. L. (M)
Foster, B. D. (M)
Fuller, R. S. (M)
Georgallis, G. C. (M)
Glass, D. H. (M)
Grau, W. C. (A)
Groce, J. L. (M)
Hackenberg, F. U. (M)
Hamlin, J. E. (M)
Heassler, R. A. (M)
Hollis, L. L. (M)
Jackman, W. L. (M)
Johnson, E. L. (M)
Kaufman, H. B. (M)
Kearney, R. J. (M)
Kenney, R. C. (M)
Kloepping, J. (A)
Koontz, C. H. (A)
Krause, H. W. (M)
Larid, J. A., III (M)
Lawrence, W. A. (A)
Lewis, A. G. (A)
Linton, J. H. (M)
Magnino, J. J., Jr. (A)
Malden, A. E. (M)
Mine, G. D. (A)
Nienburg, R. E. (M)
Ollive, J. F. (M)
Onysyk, J. (A)
Perlmutter, T. W. (M)
Peyser, R. R. (M)
Phillips, E. L. (M)
Price, J. E. (A)
Reid, G. M., Jr. (M)
Reinhart, R. A. (A)
Rolfe, R. C. (M)
Roth, C. G. (M)
Salzillo, E. M. (M)
Schaaf, S. (A)
Schlam, D. (A)
Schlemmer, P. S. (M)
Schoenherr, H. W. (M)
Schrufer, H. J. (A)
Sevigny, G. D. (M)
Shortle, J. W. (M)

Siphera, J. W. (M)
Storm, K. W. (M)
Surdi, M. (M)
Trombly, R. L. (M)
Tuchman, W. L. (M)
Tutwiler, K. E. (M)
Waldenmayer, D. W. (M)
Warren, D. J. (M)
Washburne, J. R., Jr. (M)
Watkins, D. L. (M)
Whalen, R. J. (A)
Williams, C. W. (M)
Yanoschak, V. (A)
Zetkov, J. R. (A)

Kirkville (SYR-1)
Byle, B. J. (A)
Smith, S. L. (M)
Stiver, J. W. (A)
Winfield, W. S. (M)

Lackawanna (BN-1)
Duma, E. D. (A)

Lagrangeville (NY-MH-2)
Stuckert, P. E. (M)

Lake George (SCH-1)
Strempel, E. L. (M)

Lake Katrine (NY-MH-2)
Di Costanzo, J. A. (M)
George, G. A. (A)
Metrick, J. (M)
Zuckerman, Y. N. (A)

Lake Mahopac (NY-2)
Millicker, D. J., Jr. (A)

Lake Success (LI-2)
Barnes, R. S. (M)
Barrow, W. L. (F)
Delany, F. J. (M)
Zimbalist, A. (M)

Lancaster (BN-1)
Burke, J. J. (M)
Rimlinger, D. C. (M)

Larchmont (NY-W-2)
Adler, B. (SM)
Adler, J. T. (A)
Auditore, C. J. (SM)
Cammer, M. (M)
Downey, E. F. (A)
Kerby, G. A. (M)
King, S. (A)
Kline, A. (M)
Kuwahara, D. J. (M)
Levy, M. L. (SM)
McVity, L. H. (A)
Mullenger, K. E. (M)
Plowman, F. R. (A)
Rettenmeyer, P. F. (M)
Rudd, W. C. (M)
Schneider, J. R. (A)
Viebranz, A. C. (M)

Latham (SCH-1)
Fitzgibbons, J. J. (M)
Pino, J. P. (M)

Laurelton (LI-2)
Antin, J. (M)
Barr, M. P. (M)
Epstein, M. (M)
Gertler, E. (M)
Glaser, M. (SM)
Groner, P. S. (A)
Josepher, A. (A)
Kellner, A. S. (M)
Marin, F. L. (M)
Parry, J. P. (A)
Ratner, A. (M)
Shapiro, D. L. (M)
Shulman, I. (A)
Zelkowitz, L. J. (A)

Lee Center (RU-1)
Brunette, G. E. (M)
De Minco, A. P. (SM)
Kunze, A. A. (SM)

Leroy (ROC-1)
Lapp, R. S. (M)
Lapp, S. P. (A)
Unger, J. W. (M)

Levittown (LI-2)
Bader, J. M. (M)
Bargeski, A. J. (M)
Beamer, F. E. (A)
Berger, C. D. (SM)
Bolnick, F. I. (A)
Brenner, W. (SM)
Burns, R. C. (SM)
Clune, W. T. (M)
Cooney, J. A. (A)
Corwin, J. J. (M)
Craig, A. F. (M)
Crane, R. L. (M)
Crush, J. F. (M)
D'Agostino, J. V. (M)
De Simone, P. G. (A)
Di Matteo, P. L. (M)
Di Meglio, E. (A)
Dreecher, N. W., Jr. (A)
Dumas, E. G. (A)
Evans, A. P., Jr. (M)
Figge, E. E. (A)
Fishel, J. I. (A)
Flynn, W. J. (M)
Friedman, E. D. (SM)
Gassler, J. H. (M)
Gottheim, E. (M)
Hausig, L. (M)
Heacock, W. J., Jr. (M)
Johnson, D. E. (A)
Kulba, N. S. (M)
Lee, G. C. (M)
Levine, R. (A)
Mason, C. D. (M)
Mehr, A. (A)
Miller, M. H. (A)
Moreira, N. M. (A)
Morenz, P. W. (A)
Morris, J., Jr. (M)
Nickel, W. S. (A)
Orlando, R. A. (M)
Postel, H. (A)
Poulos, B. J. (A)
Prebster, M. T. (M)
Reynolds, L. G. (M)
Rice, W. F. (M)
Rich, A. L. (SM)
Richmond, C. H. (M)
Saint Angelo, M. A. (M)
Savalli, F. P. (A)
Schultz, R. D. (A)
Schweisberg, E. (M)
Shepherd, L. P. (M)
Sinnott, J. (SM)
Sobol, J. (M)
Spain, A. I. (A)
Steinberg, W. A. (M)
Strickland, R. D. (M)
Sudinsky, L. (M)
Tatz, A. (SM)
Walker, C. M. (A)
Wengenroth, R. D. (M)
White, J. D., Jr. (VA)
Whiteman, J. R. (M)

Lewiston (BN-1)
Buranich, G. F. (SM)
Heston, W. S. (M)
Jachlewski, R. H. (M)

Liberty (NY-MH-2)
Mauer, W. V. (A)

Limestone (BN-1)
La Dieu, F. A. (A)

Lincolndale (NY-W-2)
Bruns, W. H. (M)

Lindenhurst (LI-2)
Buda, P. V. (A)
Church, T. A. (A)
Mayerhofer, S. R. (M)
Morgenstern, O. A. (SM)
Rohner, G. J. (SM)
Suchanek, C. F. (A)

Little Neck (LI-2)
Allen, A. (M)
Bailey, W. F. (F)
Barry, J. C. (M)
Binns, J. R. (SM)
Clark, D. P. (M)
Cosby, J. C. (M)
Daum, A. (SM)
Dean, C. E. (SM)
Eason, L. (M)
Erickson, T. (A)
Hana, T. C. (SM)
Hershkowitz, B. (A)
Hirsch, C. J. (F)
Kapp, C. E. (A)
King, W. F. (M)
Kirshbaum, B. D. (M)
Kunicky, B. F. (M)
Lampert, N. I. (A)
Lesser, P. A. (M)
Levin, H. L. (A)
MacDonald, W. A. (F)
Nagel, K. H. (A)
Nelson, R. G. (M)
Page, C. E. (SM)
Peters, G. J. (A)
Pressman, R. (M)
Spector, R. (A)
Spiegel, R. M. (M)
Tillman, L. (M)
Tobin, M. W. (M)
Tucker, S. A. (SM)
Weinberg, S. (SM)
Wilson, W. H. (M)
Woodard, G. F. (A)
Young, V. J. (SM)
Zimmer, E. W. (M)

Liverpool (SYR-1)
Allen, A. E. (A)
Angus, A. C. (M)
Applebaum, S. P. (SM)
Bakeman, O. R. (M)
Bear, D. R. (A)
Beguin, F. P. (SM)
Benfey, R. L. (M)
Bowman, D. C. (A)
Boyce, H. K. (A)
Brown, W. W. (SM)
Browne, D. E. (M)
Clark, M. E. (SM)
Collins, J. L. (A)
Cripe, C. W. (A)
Demaree, G. A. (M)
Demo, R. D. (M)
Dobbs, W. (A)
Doty, J. C. (M)
Eriksen, B. K. (A)
Fisk, R. E. (M)
Fitzpatrick, J. J. (A)
Flood, J. L. (A)
Fogle, V. (M)
French, R. W. (M)
Grabowski, S. J. (M)
Hansen, R. J. (SM)
Hart, J. E. (M)
Henry, G. V., Jr. (M)
Hodgin, R. M., Jr. (A)
Hoefling, J. E. (M)
Hoverman, W. O. (M)
Jordan, J. P. (SM)
Kluender, E. C. (SM)
Knight, W. W. (A)
Larosche, J. R. (A)
Klous, G. A. (M)
Lee, A. E. (M)
Lewis, R. V. (SM)
Liggett, W. E. (M)
Locke, J. R., Jr. (SM)
McCoy, D. R. (A)
Millham, R. L. (M)
Miner, A. R., Jr. (A)
Miner, C. R. (SM)
Nease, J. (M)
Nester, W. H. (M)
Noyes, J. E. (M)
Ohms, D. V. (A)
Paschetto, D. D. (M)
Pfisterer, F. (A)
Platts, G. F. (SM)
Pollock, A. H. (M)
Radford, E. R. (M)
Ray, K. P. (M)
Schnepple, W. F. (M)
Schwager, R. A. (M)
Smith, J. M. (M)
Smith, L. D. (M)
Swing, M. (SM)
Tessier, H. J. R. (M)
Van Aken, H., Jr. (A)
Vanderlaan, H. J. (M)
Veley, H. N. (SM)
Walker, O. F. (SM)
White, J. J. (A)
Williamson, J. C. (M)
Zeisler, M. D. (M)

Lockport (BN-1)
Bulmore, H. R. (A)
Cress, R. B. (M)
Martin, C. E. (A)
Rupp, R. B. (A)

Locust Valley (LI-2)
Applewhite, T. H., Jr. (M)
Barber, R. G. (A)
Bouteiller, C. E. (A)
Shaw, R. F. (SM)
Varnum, A. M. (M)
Yale, W. H. (SM)

Long Beach (LI-2)
Bernstein, E. (M)
Berridge, G. J. (A)
Hauptman, G. (M)
Keim, A. (M)
Levine, B. I. (A)
Melendez, R. A. (A)
Mertz, P. (F)
Pace, R. A. (A)
Shameson, L. (M)
Smook, I. R. (M)
Waldrop, J. E., Jr. (M)
Weinstein, I. (M)
Wurman, G. (M)

Long Island City (LI-2)
Ashley, H. R. (A)
Balamuth, L. (M)
Baurle, H. F. (M)
Bergamo, M. V. (M)
Brack, W. (M)
Bukofzer, R. (M)
Burrows, C. R. (F)
Catterson, W. A. (M)
Chao, J. (A)
Cheng, T. H. (M)
Cohen, H. (M)
Como, A. (A)
Cormier, R. A. (M)
De Franco, J. J. (M)
De La Parra, A. F. (M)
Dolid, W. A. (A)
Douglas, D. A. (A)
Feuer, M. K. (A)
Fleishman, G. (A)
Geen, W. E. (A)
Gilleran, F. M. (M)
Ginters, F. A. (A)
Goodman, H. (A)
Haring, L. L. (M)
Jurison, J. (A)
Kelly, J. J. (A)
Kessler, F. (A)
Klein, W. L. (M)
La Mantia, R. (A)
Lambert, J. (M)
Lampathakis, K. E. (M)
Lewyt, A. M. (SM)
Liebert, F. R. (M)
Lindell, L. (M)
Loui, J. S. (M)
Marzoli, A. (M)
McConnell, J. H. (SM)
Merten, D. J. S. (SM)
Monturo, J. B. (A)
Morse, F. (M)
Murphy, R. B. (A)
Odessey, P. H. (M)
O'Donnell, E. J. (M)
Osherowitz, J. M. (A)
Pagano, C. N. (M)
Palmieri, C. A. (A)
Pape, L. W. (A)
Rabinowitz, M. H. (A)
Rich, L. C. (M)
Rubin, S. W. (M)
Ruggles, P. R. (A)
Salij, Z. B. (A)
Saltman, R. G. (M)
Schroeder, G. F. (SM)
Simmonds, J. (A)
Skwarek, F. J. (SM)
Snyder, S. J. (M)
Spera, R. L. (A)
Stahl, A. S. (SM)
Tepper, C. A. (A)
Valge, J. (A)
Vignali, J. J. (M)
Wald, D. (A)
Walker, W. (M)
Wood, S. (A)
Zeidner, S. (A)
Zillger, W. H. (A)
Zimet, M. M. (A)

Loudonville (SCH-1)
Gisser, D. (M)
Jernakoff, G. (A)
Rulison, J. P. (M)

Ludlowville (ITH-1)
Deutch, H. M. (M)
Kascha, G. E. (A)
Knoeller, R. W. (M)
Reinhardt, P. M. (M)
Sherman, R. G. (A)

Lynbrook (LI-2)
Backus, C. H. (A)
Davidoff, F. (M)
Dixon, L. G. (M)
Duttera, W. S. (SM)
Ebert, J. E. (SM)
Granville, R. W., Jr. (M)
Kirchner, C. W. (A)
Koch, R. F. (M)
Lee, L. H. (M)
Magin, J. J. (M)
Mondschein, M. (A)
Richardson, K. (A)
Rogers, R. D. (A)
Rosenfeld, R. I. (SM)
Rossoff, A. L. (SM)
Ruppel, A. E. (M)
Shmurak, B. (M)
Surette, W. E., Jr. (M)
Teommey, G. H., Jr. (SM)
Traver, H. R. (M)

Lyons (ROC-1)
De Groat, P. H. (M)
Gentry, F. E. (M)

Macedon (ROC-1)
Wesenberg, C. L. (M)

Mahopac (NY-2)
Black, G. R. (A)
Henf, G. (M)
Rath, G. J. (A)
Renke, A. (M)

Malba (LI-2)
Lindberg, R. (A)

Malden-On-Hudson (NY-MH-2)
Gaito, K. W. (M)

Malverne (LI-2)
Beck, A. T. (M)
Deans, W. L. (A)
Gurevics, D. (A)
Hepburn, J. C. (SM)
Kelly, F. J. (M)
Pollack, I. (M)
Schneider, R. E. (M)
Sharpe, L. E. (M)
Spencer, B. F. (SM)
Tanck, H. (M)
Van Rosenbergh, W. (M)
Vetter, R. F. (M)

Mamaroneck (NY-W-2)
Carlisle, S. F., Jr. (M)
Johnson, R. K. (M)
Kenney, J. F. (A)
Powell, A. E. (A)
Reid, W. (A)
Robbins, I. M. (A)
Romero, R. F. (M)
Scher, S. M. (A)
Steinberg, M. I. (A)
Stevens, A. M. (F)
Vollenweider, A. D. (M)

Manhasset (LI-2)
Bell, W. W., III (M)
Bowie, R. M. (F)
Brown, H. A. (SM)
Brown, R. W. (M)
Davis, W. J. (M)
Della-Corte, J. P. (SM)
Fitzpatrick, J. A. (M)
Gorrill, W. S. (SM)
Hamlett, R. T. (SM)
Hathaway, J. L. (SM)
Jackson, B. A. (M)
Kaelber, J. C. (A)
Nickel, F., Jr. (VA)
Philpott, L. R. (SM)
Rimmler, F. F. (A)
Scott, R. (A)
Traenkle, J. W. (M)
Weibel, G. E. (SM)
Woods, W. C., Jr. (M)

Manlius (SYR-1)
Budin, G. W. (M)
Chamberlin, J. C. (M)
Edwards, K. A. (M)
Heartz, R. A. (M)
Jacobs, G. B. (SM)
Kinney, R. V. (A)
Oleyar, M., Jr. (M)

Manorhaven (LI-2)
Best, R. A. (M)

Marathon (SYR-1)
Wilson, R. M. (A)

Marcellus (SYR-1)
Devine, G. F. (SM)

Maspeth (LI-2)
Brecht, G. L. (A)
Guttroff, G. H. (M)
Howard, R. F. (M)
Jaworowski, B. R. (A)
Kay, I. L. M. (SM)
Muller, R. (A)
Pataki, E. (M)
Vogts, W. R. (M)

Massapequa (LI-2)
Ashua, A. (A)
Bartsch, R. T. (M)
Baunach, E. L. (VA)
Berler, R. (M)
Biegen, A. J. (M)
Bonner, W. A., Jr. (A)
Capasso, L. V. (M)
Chapman, P. W. (M)
Coffman, B. C. (SM)
Crofford, M. (A)
Darden, R. R., Jr. (SM)
Di Toro, M. J. (F)
Elliott, J. O. (M)
Enlow, P. M. (M)
First, M. H. (M)
Gold, J. I. (M)
Goldstone, L. L. (A)
Hammond, R. J. (A)
Haneman, F. G. (A)
Katz, S. H. (SM)
Kaye, M. (M)
Krueger, A. C. (M)
Lee, C. B. (M)
Leibfried, T. F., Jr. (A)
Lombardi, M. W. (M)
Macovski, A. (SM)
Marcinkowski, E. R. (M)
Martin, J. L. (M)
Minto, E. W. (A)
Morris, P. E. (M)
Murphy, G. N. (M)
Ruvin, A. E. (M)
Sail, A. H. (M)
Salerno, A. (SM)
Salz, J. S. (M)
Staros, B. (SM)

Massapequa Park (LI-2)
Arfin, A. D. (M)
Bailey, G. E. (A)
Bubbers, J. J. (A)
Cahan, L. C. (M)
Cronauer, E. A. (M)
Eckert, G. F. (A)
Feerst, I. (SM)
Finken, K. R., Jr. (A)
Gallagher, J. H. (A)
Gioielli, R. R. (A)
Goodman, J. (M)
Green, R. (M)
Halpin, A. T., Jr. (M)
Hermelin, L. S. (SM)
Johnson, F. L. (A)
Karas, J. P. (A)
Lee, L. (M)
Mansfield, E. C. (A)
Ogden, D. R. (M)
Scharf, E. (M)
Smith, H. D. (M)
Swearingen, T. J. (SM)
Virgadamo, F. (M)
Yutkowitz, C. K. (M)
Zuzolo, P. R. (M)

Massena (SYR-1)
Bond, N. T. (M)

Mastic (LI-2)
Parmely, E. H., Jr. (A)

Mastic Beach (LI-2)
Fuelling, P. W. (M)

Mattydale (SYR-1)
Fiederer, J. A. (M)
Gannett, G. L. (M)
Humphrey, J. G. (M)
Riege, C. R. (M)

Mechanicville (SCH-1)
Belmonte, A. P. (M)

Medina (ROC-1)
Vosteen, R. E. (SM)

Merrick (LI-2)
Baird, J. E. (A)
Bronstein, S. H. (M)
Casale, D. R. (M)
D'Amico, S. P. (M)
Dodd, F. L. (SM)
Hirsch, R. B. (M)
Knight, P. (A)
Lindenfelser, W. A. (M)
Loehr, R. A. (A)
McConaughy, R. L. (M)
Paul, I. (M)
Randall, G. A. (SM)
Sahm, E. J. (M)
Squitieri, A. (M)
Woodbury, C. P. (M)
Zeller, J. F. (M)

Middle Island (LI-2)
Adams, T. H. (A)

Middle Village (LI-2)
Blatz, R. E. (M)
Bloom, V. A. (M)
Cohen, S. (M)
King, C. N. (A)
Lyons, J. W. (M)
Merkel, J. F. (A)
Muller, W. G. (A)
Shubel, E. J. (M)
Strauch, G. R. (M)

Millbrook (NY-MH-2)
Arnfield, A. E. (M)
Wallace, J. F. (M)
Wroblewski, E. J. (A)

Miller Place (LI-2)
Watson, C. W. (M)

Mineola (LI-2)
Arams, F. R. (SM)
Avery, R. E. (SM)
Berge, R. G. (SM)
Bisby, J. F. (SM)
Bostrom, R. C. (M)
Bradley, H. E. (M)
Brooks, M. S. (A)
Brown, L. L. (A)
Caddell, R. (A)
Cahill, F. C. (SM)
Canning, J. H. (SM)
Close, R. N. (SM)
Cohen, A. M. (M)
Comstock, G. C. (F)
Cramer, S. (M)
Crist, P. W. (SM)
Decker, S. M. (M)
Epstein, J. N. (M)
Exley, L. (M)
Fadem, R. J. (M)
Fromm, W. E. (SM)
Fellendorf, G. W. (M)
Fischer, A. J. (M)
Fubini, E. G. (F)
Fullerton, W. T. (M)
Fyme, M. G. A. (A)
Gaus, A. (M)
Godfrey, E. R. (SM)
Graef, R. L. (M)
Haag, E. J. (A)
Hayflick, R. M. (M)
Hendler, A. J. (A)
Hilman, J. (M)

Hockenjos, R. M. (A)
Hoffman, E. J. (SM)
Ihrig, L. C. (M)
Johnson, J. H. (M)
Jordan, D. B. (A)
Kanthack, I. H. (A)
Karels, L. E. (M)
Karpen, E. W. (A)
Kearney, J. W. (SM)
Kezer, C. F. (M)
Knocklein, H. P. (A)
Landauer, W. E. (SM)
Larson, R. A. (M)
Lawson, J. B. (A)
Lebenbaum, M. T. (SM)
Lethin, J. E. (SM)
Lombardo, P. P. (A)
Lo Presti, K. R. (A)
Loughren, A. V. (F)
Lowman, R. V. (M)
Lynch, W. A. (SM)
Lyons, J. F., Jr. (M)
Maiech, R. G. (A)
McFarland, J. E. (SM)
McGregor, J. C. (SM)
Meyer, G. E. (A)
Miller, D. M. (SM)
Morton, G. W. (M)
Mueller, F. J. (M)
Murphy, J. J. (M)
Nelson, P. C. (M)
Parsons, B. L. (M)
Pasqua, L. (A)
Richter, H. E. (M)
Robertson, D. J. (M)
Rosenthal, M. M. (SM)
Rubenson, J. G. (SM)
Satre, W. L., Jr. (M)
Sauer, H. E. (A)
Sawyer, H. S. (M)
Schrader, L. W., Jr. (M)
Schwartz, M. (SM)
Schweber, S. C. (A)
Schwenk, H. R. (M)
Shulman, A. (A)
Simonton, L. J. (M)
Skifter, H. R. (F)
Skrobisch, A. (M)
Smith, W. G. (A)
Sommers, C. E. (M)
Speh, K. C. (SM)
Stephenson, J. G. (SM)
Stewart, S. W. (M)
Tiger, H. S. (M)
Tionaytis, C. J. (A)
Tolles, W. E. (SM)
Torn, L. J. (SM)
Wang, C. C. (F)
Weiler, D. R. (SM)
White, W. D. (F)
Wille, R. A. (A)
Williams, A. L. (M)
Woodward, J. E. (M)
Wunderlich, N. E. (M)

Minoa (SYR-1)
Ernst, E. C. (M)
Hagnauer, R. A. (A)
Lambert, J. M. (M)

Milton (NY-MH-2)
Mueller, D. C. (M)

Mitchel AFB (LI-2)
Young, W. E. (M)
Hinrichs, C. A. (A)

Monroe (NY-MH-2)
Sperr, A. E. (M)
Volkommer, W. A. (VA)

Monsey (NY-2)
Sargent, A. F. (M)
Selender, H. (M)

Monticello (NY-MH-2)
Fleischer, A. P. (A)

Montrose (NY-W-2)
Koepcke, R. W. (A)

Mount Kisco (NY-W-2)
Athey, S. W. (SM)
Burden, R. W. (A)
Doyle, R. J. (A)
Grace, F. (SM)
Harmon, H. F. (M)
Machanic, E. D. (A)
Orell, F. M. (M)
Short, W. P. (SM)
Stewart, J. A. (M)

Mount Marion (NY-MH-2)
Collins, M. (A)
Eickhorn, C. R., Jr. (M)
Foley, J. H. (A)
Hofler, E. V. (M)
Murad, R. V. (M)
Oldani, C. M. (M)
Pasquariello, C. J. (A)
Skatrud, R. O. (A)

Mount Vernon (NY-W-2)
Achtellik, G. (M)
Augustine, R. O. (M)
Bloom, F. J. (SM)
Bohmer, T. E. (A)
Brenner, B. (M)
Callahan, J. P. (M)
Campbell, C. H. (M)
Conticchio, R. H. (M)
Desnoes, W. B. (A)
Dobbs, R. C. (M)
Douglas, R. H. (M)
Dowling, T. J. (A)
Duffy, J. J. (A)
Elkind, P. (A)
Gayet, P. J. (A)
Geduldig, D. S. (M)
Gruss, R. F. (M)
Gurdus, H. W. (A)
Herz, H. L. (M)
Hineline, H. D. (M)
Hoffmann, W. H. (M)
Kaplan, M. (A)
Kumble, A. S. (M)
Lang, H. M. (A)
Miller, D. C. (M)
Mitchell, D. C. (M)
Paribello, J. J. (A)
Pestone, A. A. (A)
Pielli, W. (M)
Pinz, B. M. (A)
Redstone, C. W. (M)
Rosenbaum, A. H. (VA)
Rosenberg, P. (SM)
Samuels, D. S. (A)
Slabicki, W. (A)
Sonkin, D. (SM)
Spiteri, J., Jr. (A)
Strongin, J. (M)
Strum, N. (A)
Thorley, B. V. (M)
Wallace, M. (SM)
Wines, A. J., Sr. (A)

Munsey Park (LI-2)
Heindel, H. J. (SM)

Nanuet (NY-2)
Strauss, G. M. (M)
Went, J. J. (A)

Nassau (SCH-1)
Merchant, R. (M)
Smith, G. H. (M)

Neponsit (LI-2)
Goldfein, S. F. (M)
Sylvane, A. A. (SM)

Newark (ROC-1)
Kelley, D. R. (M)

Newburgh (NY-MH-2)
Brooks, N. S. (M)
Drake, H. (A)
Dunn, R. A. (A)
Fittante, A. R. (M)
Galage, D. J. (M)
Gefvert, D. R. (M)
Morton, K. L. (M)
Mount, R. C. (M)
Podell, S. (M)
Schoch, D. L. (A)
Vecchiarelli, N. (A)
Vlahos, P. G. (A)
Wall, J. J. (M)
Webb, J. C. (M)
Youngblood, H. R. (M)

New City (NY-2)
Doellner, L. J. (M)
Hastings, L. S., Jr. (A)

New Hartford (RU-1)
Baldridge, B. H. (SM)
Benjamin, H. L. (A)
Brown, C. D. (M)
Bussey, H. C. (M)
Butler, G. T., Jr. (M)
Darnall, E. B. (M)
Estey, H. E. (M)
Geiser, D. T. (M)
Griswold, J. H. (M)
Harris, L. D. (M)
Hogan, E. V. Jr. (SM)
Hornak, P. M. (M)
Keough, K. J. (M)
Kramer, R. S. (M)
McCabe, K. E. (M)
McMillan, R. E. (SM)
Olson, F. A. (M)
Pangburn, L. R. (M)
Perry, H. E. (M)
Priest, F. R. (M)
Ricci, B. E. (M)
Scanlan, R. E. (M)
Smith, S. B. (A)
Staudaher, F. M. (M)
Walker, R. K. (M)
Warrick, A. C. (SM)
Watts, P. M. (A)
Yoder, D. F. (A)
Zachary, R. A., Jr. (M)

New Hyde Park (LI-2)
Angevine, R. A. (M)
Berger, M. (M) ;
Berkowitz, B. (M)
Biscoe, G. W. (A)
Blackstone, H. (SM)
Borgelt, W. E. (M)
Bozlwick, G. E. (M)
Bruns, E. A. (M)
Camp, S. N. (M)
Collins, W. G. (A)
Contrastan, D. P. (A)
De Lorenzo, J. D. (M)
Detwiler, S. P. (M)
Dittenhoefer, H. F. (M)
Duffy, A. F. (A)
Eisenhauer, F. E. (A)
Ellis, F. W. (M)
Farber, R. J. (SM)
Fishbein, M. (SM)
Friedman, I. (M)
Garnar, R. L. (A)
Gavenman, E. H. (M)
Goebeler, W. H., Jr. (M)
Greene, G. F. (M)
Hudelson, R. L. (M)
Huebscher, H. (SM)
Isaacs, P. J. (M)
Jackson, F. S. (M)
Janiesch, H. R. (M)
Jung, C. W. (M)
Kahn, G. (A)
Kaplan, M. (A)
Kelley, R. J. (A)
Kelley, W. E. (M)
Lehtonen, E. W. (M)
Lenefsky, S. (M)
Liebman, H. S. (A)
Lohkemper, O. A. (A)
Loughlin, R. G. (SM)
Macullum, J., Jr. (A)
Madrick, S. A. (A)
Marsman, J. H. (SM)
McDonald, J. F. (SM)
McKenna, K. F. (M)
Moretti, W. W. (M)
Mulholland, G. T. (A)
Odom, C. H. (A)
Orazio, A. F. (M)
Polak, H. L. (A)
Potter, R. E. (A)
Proscia, P. A. (M)
Richter, H. H. (A)
Ries, C. A. (SM)
Rowinski, S. J. (A)
Sherbin, L. E. (SM)
Sherry, R. S. (SM)
Shooman, M. L. (M)
Sibilla, J. F. (M)
Simonelli, N. A. (M)
Stamps, G. M. (M)
Trunk, E. G. (SM)
Vanaman, F. P. (A)
Vinarub, M. E. (M)
Wimmer, A. A. (M)
Wittenberg, R. C. (M)
Wolf, E. G. (M)
Yorinks, A. (SM)
Zalkin, S. P. (M)

New Paltz (NY-MH-2)
Du Bois, G. E. (M)
Gay, T. W., Jr. (M)
Keeley, J. F. (A)
Wilson, P. J. (M)

New Rochelle (NY-W-2)
Alaia, C. M. (M)
Andraud, R. J. (A)
Appelbaum, G. (A)
Baker, L. S. (A)
Benjamin, S. K. (M)
Berke, L. C. (M)
Bower, C. M. (M)
Burnett, L. J., Jr. (M)
Brownell, H. R. (M)
Carter, W. F. (A)
Daly, R. T. (SM)
Faup, J. J. (M)
Feldman, E. F. (SM)
Fisher, S. G. (A)
Gayron, G. S. (M)
Goldberg, M. I. (A)
Goldfischer, L. I. (SM)
Goodale, E. D. (SM)
Grand, B. (M)
Greibach, E. H. (SM)
Hanchrow, J. J. (A)
Hannah, M. R. (M)
Harris, C. M. (SM)
Hirsch, J. D. (M)
Karp, J. R. (SM)
Landis, J. C. (M)
Lee, G. F. (M)
Lurie, W. B. (SM)
Mathis, C. E. (M)
Pels, E. (M)
Perutz, R. A. (M)
Polansky, P. (A)
Reed, J. (SM)
Rosenberg, A. E. (A)
St. Clair, B. W. (A)
Sampson, S. F. (M)
Schlessel, B. (M)
Schwartz, H. E., Jr. (M)
Shapiro, H. (A)
Shelley, E. F. (SM)
Stein, D. R. (M)
Taylor, E. R., Jr. (A)
Temple, D. I. (SM)
Trautmann, J. H. (A)
White, F. E., Jr. (VA)
Williams, J. E. (A)
Wood, C. R. (A)
Wu, W. I. L. (SM)

New York City (NY-2)
Abramsen, A. (A)
Abraham, I. (A)
Acheson, M. A. (F)
Acker, A. E. (A)
Adams, A. T. (M)
Adams, M. D. (SM)
Addamo, J. A. (A)
Adler, R. H. (M)
Aghib, E. G. (A)
Aldor, E. (M)
Alexander, L. (M)
Alexandro, F. J., Jr. (M)
Allen, M. H. (M)
Allen, R. G. (A)
Almquist, M. L. (F)
Altschuler, H. M. (SM)
Amatniek, E. (M)
Amy, E. V. (SM)
Anderson, A. G. (A)
Andrasko, J. P. (VA)
Andres, R. K. (M)
Appel, H. W. (SM)
Arguello, R. J. (M)
Arm, M. (M)
Arm, W. (M)
Armstrong, C. A. (SM)
Armstrong, G. S. (M)
Arnold, J. W. (SM)
Arnson, L. (SM)
Arons, E. L. (A)
Arthur, W. (M)
Asen, R. (A)
Atwood, S. (SM)
Aurieme, A. (A)
Avins, J. (F)
Aviv, D. G. (M)
Backus, J. W. (M)
Baer, T. M. (M)
Bailey, G. W. (F)
Baker, G. H. (M)
Balan, J. C. (M)
Barasch, H. P. (M)
Barash, S. A. (A)
Barnabic, E. V. (M)
Barr, S. M. (SM)
Bart, G. P. (M)
Baruch, S. N. (M)
Batty, W. E., Jr. (M)
Bauer, B. B. (F)
Baulch, E. L. (M)
Baum, L. (M)
Baum, M. C. (M)
Baum, R. F. (SM)
Baumann, R. H. (A)
Baumgartner, J. G. (A)
Bever, K. H. (A)
Bederman, S. (A)
Bednar, F. J. (A)
Beers, Y. (M)
Belfi, J. L. (M)
Bellenkes, W. A. (A)
Beller, W. C. (M)
Bemis, E. W. (SM)
Benedikt, J. (A)
Bennett, L. (A)
Berber, J. (A)
Bereza, A. (M)
Berger, L. (M)
Bergherr, W. (A)
Berkner, L. V. (F)
Berl, S. (M)
Berman, M. (M)
Bernstein, R. I. (SM)
Bertero, E. P. (A)
Bertram, J. E. (A)
Bibbero, R. J. (SM)
Bickel, H. J. (M)
Bieglow, S. C. (M)
Birenbaum, L. (M)
Bitner, R. F. (A)
Blackman, R. B. (M)
Bland, G. F. (A)
Blomqvist, E. A. (M)
Blume, R. J. (A)
Blumenthal, H. W. (M)
Blye, P. W. (SM)
Bocharoff, G. M. (M)
Bock, M. (M)
Bodin, M. (A)
Bodle, D. W. (M)
Boguslawski, H. A. (SM)
Bohn, W. C. (M)
Bolton, A. (A)
Bomberger, D. C. (M)
Bonner, M. K. (M)
Borner, R. C. (M)
Borst, J. M. (VA)
Bose, J. H. (SM)
Bostwick, L. G. (M)
Boubli, E. J. (A)
Boughtwood, J. E. (M)
Boule, W. (M)
Boyce, W. F. (A)
Boychuk, B. (M)
Boyd, R. C. (M)
Boyd, W. L. (A)
Bradley, F. R., Jr. (M)
Brady, T. D. (A)
Brainard, T. (A)
Bramhall, F. B. (SM)
Braunfeld, M. T. (M)
Braverman, M. (A)
Bravman, P. J. (A)
Bregman, M. W. (A)
Breitenbach, E. J. (M)
Brender, D. M. (M)
Brenner, E. (SM)
Bright, R., Jr. (SM)
Bristol, R. W. (M)
Brociner, V. (M)
Brodie, R. B. (M)
Brodheim, E. (A)
Bromberg, J. J. (A)
Brookner, E. (A)
Brown, F. L. (M)
Brown, J. T. L. (M)
Brown, P. M. (A)
Brunet, M. (SM)
Bryson, R. W. (A)
Buck, H. W. (A)
Buck, W. A. (A)
Bugnolo, D. S. (A)
Buffo, B. (SM)
Burghard, G. E. (SM)
Burstein, I. (A)
Busch, A. (A)
Butterworth, J. S. (A)
Buttner, H. H. (F)
Byram, L., Jr. (M)
Cadek, J. (M)
Calderone, M. L. (M)
Callais, R. T. (M)
Cambridge, C. G. (SM)
Cameron, D. B. (M)
Campana, C. R. (A)
Campbell, E. A. (A)
Campbell, G. R. (A)
Campbell, R. D. (F)
Canniff, C. J. (A)
Carlebach, W. M. (VA)
Carlson, E. C. (A)
Carreau, G. (M)
Caruthers, R. S. (SM)
Cassell, J. L. (VA)
Casselman, W. G. B. (A)
Cedarholm, J. P. (M)
Cepoi, J. (M)
Cervini, R. A. (A)
Chaffee, J. G. (F)
Chamberlain, D. B. (F)
Chandler, J. A. (A)
Chaney, W. C. (M)
Chang, S. S. L. (SM)
Chen, T-S. (M)
Chernin, S. (A)
Chesnes, A. A. (SM)
Chin, Y-S. H. (A)
Chinn, H. A. (F)
Chirlian, P. M. (M)
Chisholm, T. L., Jr. (A)
Christensen, J. W. (SM)
Christian, H. K. (M)
Cifu, J. L. (M)
Cinelli, H. L. (M)
Claassen, F. S.
Clark, G. J., III (A)
Clarke, K. K. (M)
Clements, G. J. (M)
Clewell, D. H. (F)
Clinton, P. J. (M)
Coggeshall, I. S. (F)
Cohen, A. J. (M)
Cohen, C. B. (M)
Cohen, H. (M)
Cohen, J. B. (A)
Cohen, M. (M)
Cohen, M. M. (M)
Cohn, E. M. (M)
Cohn, I. H. (M)
Coleman, J. H. (M)
Coleman, S. F. (M)
Coleman, S. T. (A)
Coles, F. A. (SM)
Comeau, E. A. (A)
Connelly, J. H. (M)
Connelly, J. J. (A)
Connor, G. C. (VA)
Cook, W. W. (A)
Cooke, N. C. (A)
Cooley, A. G. (F)
Cooper, F. S. (M)
Cooper, M. (A)
Coplein, G. D. (M)
Corey, H. E., Jr. (SM)
Coronis, A. A. (A)
Correa, H. A. (A)
Corwith, H. P. (F)
Cosentino, A. A. (M)
Costello, A. W. (M)
Cotter, M. A. (M)
Cottin, R. S. (M)
Cowan, S. R. (A)
Crane, P. H. (A)
Cravis, H. (M)
Cravitt, S. (SM)
Crawford, W. J. (SM)
Creel, J. D. (M)
Crews, F. H. (M)
Cronin, D. (A)
Crowson, F. B. (SM)
Cumber, W. G. (A)
Cumming, L. G. (SM)
Cummings, M. J. (M)
Curtis, R. B. (M)
Cutting, F. (F)
Dahlbom, C. A. (SM
Davidovits, M. (A)
Davies, R. H. (SM)
Davis, R. F. (M)
Dean, N. J. (SM)
De Beer, B. C. (M)
De Bragga, J. W. (A)
Deely, R. M. (M)
Deland, T. (A)
Demaree, F. E. (A)
De Mello, W. (SM)
Demin, A. N. (A)
De Muro, T. M. (M)
De Neuf, D. K. (SM)
Denny, C. R. (M)
Deschampe, G. A. (SM)
Desnoes, A. B. (M)
Deutsch, E. M. (M)
Devine, J. J. (A)
Dewey, G. C. (M)
Diamond, E. H. (A)
Diamond, S. (M)
Dibenedetto, G. J. (M)
Diebold, J. T. (A)
Dietrich, E. S. (A)
Dietrich, F. (VA)
Dilson, J. (M)
Doherty, W. H. (F)
Dombro, L. (A)
Donald, D. D. (SM)
Donovan, W. E. (SM)
Dorf, R. H. (M)
Dorogusker, B. (A)
Doswell, M., III (A)
Dowds, H. M. (M)
Drescher, M. S. (M)
Dressel, H. O. (M)
Driscoll, B. K. (M)
Dubiller, W. (F)
Dube, E. E. (A)
Dunn, E. J., Jr. (A)
Durocher, J. D., Jr. (A)
Duskis, E. F. (A)
Easton, R. L. (M)
Echtman, L. (M)
Edgin, F. R. (M)
Edmonds, R. H. (M)
Egert, S. S. (M)
Eggert, J. (SM)
Ehnborg, A. V. (A)
Ehrlich, C. N. (A)
Ehrman, L. (A)
Eichwald, B. (SM)
Eisenberg, I. (M)
Eisenberg, L. (M)
Eisenstein, N. I. (A)
Eisner, P. N. (M)
Elderkin, C. J. (M)
Ellersick, F. W. (M)
Elliott, S. J. (M)
Ellis, A. E., Jr. (M)
Ellis, R. (M)
Ellwood, W. B. (SM)
Elsea, I. W. (M)
Emberson, R. M. (SM)
Eng, R. S. (M)
Engle, V. M. (M)
Engstrom, E. W. (F)
Eoyang, T. T. (SM)
Ernst, R. F. (M)
Ettlinger, A. B. (M)
Evans, T. P. (SM)
Exselsen, R. M. (A)
Facey, J. W. (VA)
Fagin, S. L. (M)
Falge, M. D. (SM)
Fairchild, S. M. (A)
Falknor, F. B., Jr. (A)
Farber, A. S. (M)
Fariello, F. A. (M)
Farkas, F. S. (SM)
Farley, J. (A)
Farley, J. J. (M)
Farmer, O. J. (M)
Feiner, H. A. (A)
Feng, S-C. (M)
Ferrell, O. P. (A)
Fezer, H. (M)
Fifer, S. (SM)
Finger, T. A. (M)
Finkelstein, M. J. (M)
Fiorletta, A. A. (M)
Fish, P. (SM)
Fishberg, S. (M)
Fisher, A. (A)
Fisher, G. J. (M)
Fisher, K. (M)
Fitch, W. A. (SM)
Fitzgerald, P. J. (A)
Fleischer, P. E. (M)
Flemming, F. L. (M)
Fletcher, M. W. (M)

Flick, R. A. (M)
Forman, A. J. (M)
Forman, I. (M)
Fox, P. A. (A)
Fox, S. (A)
Franklin, K. L. (A)
Freed, A. (A)
Freed, Leo (A)
Freed, R. D. (A)
Freeman, O. S., Jr. (M)
Fregan, E. J. (A)
Freiman, C. V. (M)
Freseman, W. L. (SM)
Freudenberg, B. (SM)
Frezzolini, D. (VA)
Friedland, H. K. (M)
Frishauf, S. H. (M)
Fritsche, A. J. (A)
Fritschi, W. W. (SM)
Fritz, C. B. (M)
Fruehauf, M. C. (M)
Fruhner, E. T. (SM)
Frum, A. (A)
Furedi, J. E. (A)
Furth, F. R. (SM)
Fury, A. E. (A)
Gabel, R. J. (M)
Gaillard, R. L. (M)
Gaines, A. M. (M)
Galluppi, F. B. (A)
Gancher, L. (A)
Gandolph, A. A. (A)
Gannon, J. A., Jr. (A)
Gardner, R. S. (M)
Garson, E. L. (A)
Gast, R. W. (SM)
Gerard, D. R. (M)
Gerb, B. (M)
Gersch, W. M. (M)
Gerstein, M. G. (A)
Geyer, A. J. (A)
Ghirardi, A. A. (SM)
Gibbons, J. (A)
Gibson, O. B. (SM)
Gignoux, D. (M)
Gillette, E. H. (A)
Gilman, G. W. (F)
Ginsberg, M. (M)
Girdwood, J. (M)
Gister, S. (M)
Gittelman, A. I. (M)
Gladston, H. (M)
Glasser, H. (A)
Glasser, L. J. (M)
Glickstein, J. (A)
Gold, P. J. (A)
Goldberg, H. (M)
Goldberg, H. D. (A)
Golden, D. (M)
Goldfarb, A. T. (M)
Goldmark, P. C. (F)
Goldmuntz, L. A. (A)
Goldschmidt, K. (M)
Goldsmith, A. N. (F)
Gonda, T. (A)
Gonen, B. (A)
Goodman, S. J. (M)
Goodstein, L. P. (SM)
Gordon, L. (A)
Gordy, H. M. (M)
Gourgey, A. A. (A)
Goyder, C. W. (SM)
Grace, F. C. (M)
Graf, J. M. (M)
Graham, H. D. (A)
Graham, W. (M)
Grandizio, L. A. (M)
Graney, J. F., Jr. (A)
Gray, S. B. (A)
Green, E. I. (F)
Green, J. R. (M)
Greenbaum, M. (M)
Greenstein, P. (M)
Greenwald, C. (A)
Greer, L. H. (A)
Greig, J. H. (M)
Grey, R. (M)
Groginsky, H. L. (A)
Grosch, H. R. J. (SM)
Gross, R. D. (M)
Grosselfinger, W. H. (SM)
Grossman, F. J. (A)
Grossman, M. (M)
Grossner, N. R. (M)
Grover, H. G. (SM)
Gruen, W. (M)
Grundfest, H. (SM)
Grundy, A. B., Jr. (A)
Guenther, R. (M)
Guild, B. (SM)
Gunderson, R. W. (M)
Gunn, D. W. (M)
Gusman, L. (M)
Guterman, F. H. (M)
Guterman, H. C. (SM)
Gysbers, J. R. (A)
Haase-Dubosc, A. A. (M)
Hackenberg, J. H. (M)
Haddad, J. A. (M)
Haenschke, D. G. (M)
Hagerty, G. E. (M)
Hahn, S. (M)
Haibt, L. H. (A)
Hallett, J. L. (A)
Hamburger, T. (A)
Hanson, O. B. (F)
Hara, B. (VA)
Harder, D. (M)
Hardwick, A. H. (SM)
Hare, V. C. M., Jr. (M)
Harkavy, H. A. (M)
Harmatz, H. J. (M)
Harmon, R. N. (F)
Harris, C. M. (SM)
Harris, E. A. (A)
Harris, H. I. (A)
Hartley, S. H. (M)
Hartmann, Z. (M)
Hartog, E. (M)
Harty, L. T. (A)
Harvey, W. W. (A)
Hata, J. H. (A)
Hatke, F. L. (A)
Hauptschein, A. (SM)
Havens, A. C. B. (A)
Havens, B. L. (SM)
Hearn, R. B. (SM)
Hecht, G. (SM)
Hein, J. E. (A)
Heller, G. W. (A)
Heller, O. (M)
Hendrickson, J. F. (M)
Henney, K. (F)
Henry, J. L. (M)
Hernstadt, W. H. (M)
Hertach, G. (M)
Herz, H. (M)
Herzer, J. (M)
Hesse, G. L. (SM)
Hester, F. A. (SM)
Hilton, P. N. (M)
Hinkley, J. W. (SM)
Hodges, A. R. (SM)
Hoefer, F. J. (A)
Hoekstra, R., Jr. (M)
Hoelderich, W. A. (M)
Hogan, J. V. L. (F)
Holahan, J. P. (M)
Hollander, L. J. (M)
Hollander, S. (SM)
Honaman, R. K. (SM)
Horelick, D. (M)
Horn, V. M. (A)
Hornung, S. A. (A)
Hough, J. B. (A)
Hough, R. R. (SM)
Housman, H. (M)
Hovgaard, O. M. (SM)
Howell, W. J. (SM)
Howson, J. C. (A)
Huber, J. (M)
Hughes, H. K. (M)
Hultquist, J. A. (M)
Hunter, G. T. (M)
Huntley, H. R. (SM)
Hurd, C. C. (A)
Hsieh, T. T. H. (A)
Hyatt, W. R., Jr. (SM)
Hylton, A. W. (A)
Hyneman, J. R. (SM)
Ingulli, C. N. (A)
Ireland, G. R. (M)
Irvine, P. L. (A)
Irwin, R. P. (M)
Isele, H. A. (A)
Itzkan, I. (M)
Jackson, H. H. (A)
Jacobs, A. B. (M)
Jansky, C. M. (SM)
Jarecky, J. L. (M)
Jatlow, J. L. (SM)
Javid, M. (A)
Javitz, A. E. (M)
Joerg, E. A. (M)
Johnson, H. C. L. (A)
Johnson, H. W. (SM)
Johnson, R. L. (M)
Johnson, W. D. (M)
Jones, A. H. (M)
Jones, D. D. (A)
Jones, H. I., Jr. (M)
Jones, H. S. (SM)
Jones, H. W. (SM)
Jones, T. A. (M)
Jones, W. (A)
Joseph, D. A. (A)
Julie, L. (A)
Jung, R. F. (A)
Kadonaga, H. (A)
Kahn, A. A. (M)
Kahn, I. (A)
Kallmann, H. E. (SM)
Kampschoer, J. F. (M)
Karachuk, S. T. (M)
Karda, W. O. (M)
Karlsruher, G. W. (M)
Katell, E. (M)
Katz, S. (A)
Katz, S. (A)
Kaufman, D. (M)
Kaufman, G. L. (A)
Kaufmann, H. A. (A)
Kaylor, R. L. (M)
Kelb, A. J. (M)
Keller, A. C. (SM)
Kelley, E. J. (M)
Kelley, N. D. (M)
Kelly, M. J. (F)
Kendall, J. A. (A)
Kennedy, J. M. (M)
Kent, G. J. (SM)
Kerner, T. (M)
Kievit, B. (SM)
Kilian, L. H. (A)
Kim, W. H. (M)
King, F. (SM)
Kinn, J. M., Jr. (SM)
Kirloff, A. (SM)
Kirvida, L. (M)
Klein, R. M. (SM)
Klugman, A. I. (M)
Knowlton, A. D. (SM)
Koehler, A. O. (M)
Koff, R. M. (A)
Konig, W. F. (M)
Korman, J. (M)
Kotik, J. (A)
Kraemer, G. T. (M)
Krajcovic, C. (A)
Kramer, B. H. (A)
Kranc, G. (A)
Krause, A. M. (M)
Krzyzanowski, S. P. (A)
Kuhn, A. S. (SM)
Kunc, F. (M)
Kundler, H. H. (A)
Kunik, I. J. (M)
Kurrelmeyer, B. (SM)
Kurzrok, R. M. (M)
Laas, I. E. (A)
Lack, F. R. (F)
Lainer, G. (SM)
Lambert, L. B. (A)
Lamneck, W. J. (M)
Landwersiek, J. E. (A)
Langdon, G. G. (M)
Lapatine, S. (SM)
Lashinsky, H. (M)
Laufer, J. (M)
Lavi, Y. (A)
Layton, H. M. (M)
Leake, A. (M)
Lebel, C. J. (SM)
Lebowitz, F. (M)
Lederman, A. (SM)
Lee, R. H. (M)
Lee, V. C. (A)
Leed, D. (SM)
Le Fevre, K. G. (A)
Legedza, Z. (M)
Lemly, F. W. (A)
Lenehan, J. J. (M)
Leni, J. (M)
Lennon, T. J. (M)
Lentz, J. J. (M)
Lesnick, R. (A)
Lesser, D. A. (A)
Levens, L. M. (SM)
Levi, E. (M)
Levin, H. S. (M)
Levin, M. J. (M)
Levine, L. (M)
Levine, N. M. (A)
Levit, M. (A)
Levy, B. (M)
Levy, C. (M)
Levy, H. J. (M)
Levy, M. G. (A)
Lewis, F. C. (M)
Lewis, G. (M)
Lewis, P. A. W. (M)
Lida, S. L. (M)
Liebell, E. (M)
Lieberman, D. (M)
Lieberman, M. S. (A)
Lindner, N. J. (M)
Lipsky, A. H. (M)
Lipsky, S. E. (M)
Littner, G. H. (M)
Llewellyn, F. B. (F)
Lockwood, L. W. (M)
Lokomowitz, L. I. (M)
Lomega, M. (M)
Loomis, A. L. (F)
Love, G. V. (M)
Low, C. L. (M)
Lowenstein, M. (A)
Lukashewitz, P. (A)
Luke, J. W. (A)
Luntz, J. D. (SM)
Lynch, J. B. (A)
Mabuchi, K. K. (M)
Mabuchi, O. (A)
Mac Kenzie, R. P. (A)
Maedel, G. F. (SM)
Maggio, J. B. (SM)
Magid, A. (M)
Malamud, A. D. (A)
Mandell, M. (A)
Mandl, H. J. (M)
Manner, A. E. (A)
Mansky, L. (A)
Mapes, C. M. (SM)
Marcinkowski, H. L. (M)
Mariner, T. H. (A)
Markel, R. (A)
Marolda, J. (M)
Martin, A. E. (SM)
Martin, H. B. (SM)
Martin, J. A. (M)
Martinson, O. M. (A)
Marvin, P. R. (SM)
Marx, E. A. (SM)
Marx, F. L. (SM)
Maser, H. (SM)
Mason, L. (M)
Mason, W. (SM)
Massey, F. M. (M)
Mastrandrea, R. J. (M)
Match, I. (M)
Mateer, K. W. (M)
Mattila, P. A. (A)
Mattila, P. E. (A)
Mattison, G. H. (M)
Mattson, A. E., Jr. (A)
Mausler, R. (M)
Mauzey, P. T. T. (M)
Mayer, R. O. (M)
McClelland, H. (A)
McCluskey, V. (M)
McConnell, K. R. (SM)
McCutchen, B. S. (F)
McDermott, B. (M)
McDonald, J. R. (M)
McGiffert, S. V. (SM)
McGrath, J. J. (M)
McManus, T. J. (M)
McMillin, R. R. (A)
McNally, W. P. (M)
McPherson, J. C. (SM)
McQueen-Williams, M. (A)
McSweeny, R. (SM)
Meadows, A. (A)
Mehta, S. H. (A)
Mekolites, W. E. (M)
Meneau, A. (A)
Mengani, C. M. (A)
Merkler, F. T. (M)
Merrigan, M. T. (A)
Merrill, R. G. (A)
Meserole, W. E. (M)
Meslener, G. J. (A)
Meyer, J. H. (M)
Meyers, S. J. (M)
Meyerson, A. H. (M)
Michl, W. L. (A)
Milenbach, H. (A)
Millais, W. G. (A)
Millar, J. Z. (F)
Miller, H. G. (SM)
Miller, K. S. (SM)
Miller, T. S. (A)
Minkow, M. (A)
Mitchell, C. W. (M)
Mitchell, D. (SM)
Mitchell, I. A. (VA)
Mitchell, L. B. (A)
Mitchell, T. H. (SM)
Mobille, G. J. (M)
Mohr, H. F. (M)
Mohsen, A. (A)
Molloy, H. R. (M)
Molnar, R. J. (A)
Monahan, G. W. (A)
Monk, N. (SM)
Monshaw, J. H. (A)
Moore, C. E. (SM)
Moore, J. E. (A)
Moore, J. H. (SM)
Moore, J. K. (M)
Moore, S. F. (M)
Moran, T. G. (A)
Morel, P. (A)
Morgan, J. F. (M)
Morganstern, K. H. (SM)
Moss, H. (M)
Mower, C. P. (A)
Muller, J. H. (SM)
Murbach, J. F. (M)
Murino, C. C. (A)
Murphy, G. J. (SM)
Myer, D. A. (SM)
Myers, M. C., Jr. (M)
Nalbantian, J. H. (SM)
Napoli, A. E. (A)
Narita, Y. (M)
Nash, A. (M)
Nashman, A. E. (SM)
Nathan, A. M. (M)
Neary, J. A. (M)
Nedell, E. (A)
Nelson, M. D. (M)
Neuwirth, P. (M)
Nexon, V. J. (A)
Nicholides, E. C. (M)
Nidermayer, V. A., Jr. (A)
Nidus, L. S. (A)
Nielsen, H. V. (M)
Nielsen, P. (M)
Nissen, J. H. (M)
Norman, N. C. (M)
Novik, W. (M)
Nussbaum, E. (M)
O'Brien, D. M. (A)
O'Brien, R. S. (SM)
O'Bryan, H. M. (SM)
Okoronkwo, K. (A)
Olcott, E. W. (M)
Olsen, M. V. (M)
Onder, K. (SM)
O'Neill, L. H. (SM)
Onoe, M. (M)
Onyshkevych, L. S. (M)
Orenstein, N. (M)
Osiatinsky, L. (SM)
Ostheimer, F. R. (A)
Ostrolenk, S. (M)
Ostrow, H. (M)
Owen, C. H. (M)
Owen, K. (M)
Oxer, H. (A)
Ozolins, L. (M)
Paley, W. S. (A)
Palmer, R. L. (SM)
Palmisano, G. A. (A)
Paniagua, R. (A)
Pantazis, E. N. (A)
Parisier, M. (A)
Parker, G. S. (A)
Parker, J. D. (SM)
Paskin, M.
Pasquier, C. J. (M)
Passavant, C. A. (M)
Paul, G. S. (M)
Payne, E. B. (SM)
Pearson, H. (M)
Peborde, R. J. (A)
Pegler, H. M. (M)
Pegler, J. A. (A)
Pegram, G. B. (M)
Pellegrinelli, G. L. (A)
Pellinen, A. D. (M)
Pelton, R. G. (M)
Perry, F. M. (M)
Peterson, E. (SM)
Petranek, L. (A)
Petrides, T. (SM)
Pettit, O. F. (M)
Pezza, A. T. (A)
Pfeffer, P. (M)
Pfleger, K. W. (SM)
Philbin, S. H. (A)
Phinney, E. D. (SM)
Pietrzyba, G. J. M. (M)
Pincus, R. M. (A)
Piore, E. R. (F)
Pippenger, C. R. (M)
Pitre, V. H. (A)
Pizzuti, F. D. (M)
Plesset, K. (A)
Plishner, P. J. (M)
Poggi, G. P. (M)
Polin, H. S. (A)
Pollak, J. P. (SM)
Pollak, R. H. (M)
Ponemon, R. D. (M)
Porter, R. W. (SM)
Poss, E. (A)
Post, R. D. (M)
Predmore, E. E. (M)
Preston, J. G. (M)
Price, G. W. (M)
Pullman, I. (M)
Putterman, H. (M)
Quirk, W. B. (M)
Rabinowitz, J. (M)
Racker, J. (M)
Radner, M. A. (M)
Ragazzini, J. R. (F)
Ragland, R. M. (A)
Rainwater, L. J. (SM)
Ralston, A. (M)
Randolph, G. C. (A)
Rankin, R. L. (SM)
Rapaport, H. (SM)
Rappolt, F. A., Jr. (M)
Rappoport, H. S. (M)
Rarity, J., Jr. (M)
Raymond, R. (A)
Read, O. (A)
Reed, P. B. (M)
Reens, L. H. (M)
Rehm, M. P. (M)
Reich, S. M. (A)
Reichard, H. S. (M)
Reicher, M. D. (M)
Reiner, D. G. (M)
Reiner, M. (M)
Reiss, L. (A)
Reison, M. (M)
Renaud, H. G. (A)
Renne, H. S. (SM)
Revzin, A. E. (A)
Revzin, S. A. (M)
Reynolds, G. (A)
Richardson, H. L. (SM)
Richman, P. L. (M)
Rider, J. F. (VA)
Ridings, G. H. (M)
Rigoglioso, A. B. (M)
Rinder, R. M. (A)
Rios, E. Q. (A)
Rivera, J. J. (A)
Rizzoni, E. M. (SM)
Robbins, G. J. (A)
Robertson, C. B. (M)
Robinson, F. F. (A)
Rochwarger, M. M. (M)
Rocke, A. J. (A)
Roehrig, H. W. (A)
Rogan, J. J. (SM)
Rogoff, J. B. (A)
Romnes, H. I. (SM)
Rosaler, R. C. (SM)
Rose, A. F. (SM)
Rose, T. T. (A)
Rosenberg, H. J. (A)
Rosenberg, N. A. (M)
Rosenheim, D. E. (SM)
Rosenthal, W. (M)
Rosner, I. S. (M)
Ross, K. F. (A)
Roth, J. E., Jr. (M)
Rothenstein, E. M. (A)
Rothschild, R. F. (M)
Rothschild, R. S. (M)
Rubenstein, A. L. (A)
Rubin, J. (M)
Rubinstein, B. (M)
Ruddley, J. (M)
Rudin, S. (M)
Rugge, R. A. (SM)
Runyon, C. R., Jr. (SM)
Ruttenberg, S. (A)
Rusinow, K. (M)
Ruth, R. L. (M)
Sabto-Agami, J. C. (A)
Sadenwater, P. O. (M)
Safir, R. (SM)
Safran, P. (M)
Sage, I. M. (M)
Sager, N. (A)
Sahud, L. R. (A)
Salin, J. A. (M)
Salzberg, I. M. (M)
Samuels, M. (A)
Sanders, R. G. (A)
Sandhofer, E. R. (M)
Saporta, L. J. (SM)
Sarasohn, H. M. (M)
Sarnoff, D. (F)
Saunders, H. M. (M)
Sautner, J. (A)
Sawka, R. J. (A)
Schaller, J. (A)
Schapiro, W. M. (A)
Schauffler, F. A. (A)
Schechter, G. (A)
Schetzen, M. (M)
Schilling, W. A. (M)
Schlaikjer, J. E. (SM)
Schlenger, S. B. (A)
Schlesinger, S. P. (M)
Schlig, E. S. (M)
Schmertz, R. C., Jr. (M)
Schmidt, H. (A)
Schneider, C. R. (A)
Schoenfeld, R. L. (M)
Schoenfuss, A. F. (SM)
Schols, C. E. (F)
Schreiner, K. E. (M)
Schultz, M. L. (A)
Schwartz, H. T. (M)
Schwartz, L. (M)
Schwartz, M. (SM)
Schwartz, M. I. (M)
Schwartz, M. J. (A)
Schwartzberg, I. G. (M)
Schwarz, R. J. (SM)
Schweitzer, M. P. (A)
Schwenzfeger, E. E. (A)
Seadler, S. E. (A)
Sear, E. F. (M)
Seklemian, R. S. (A)
Sellinger, S. (M)
Shaft, P. D. (A)
Shain, M. D. (A)
Shamos, M. H. (M)
Shapiro, E. S. (A)
Shapiro, J. (A)
Shapiro, M. H. (M)
Shaw, B. (SM)
Shecklen, G. F. (A)
Sheldon, E. E. (A)
Sheldon, M. (A)
Shepard, W. H. (A)
Sher, F. D. (M)
Sherman, J. B. (SM)
Sherman, M. (A)
Shiepe, E. M. (M)
Shipman, W. A. (SM)
Shulman, C. (SM)
Silber, A. (A)
Silbey, S. A. (M)
Silver, A. N. (M)
Silverberg, B. H. (M)
Silverman, R. A. (SM)
Simms, J. P. (A)
Simon, E. J. (F)
Simon, P. F. (A)
Simpson, D. B. (M)
Sims, R. E. (A)
Sims, S. P. (A)
Sira, M. A., Jr. (A)
Skinner, L. V. (SM)
Slater, D. (M)
Smith, A. R. (M)
Smith, A. V. (M)
Smith, D. L. (A)
Smith, G. M. (VA)
Smith, I. R. (M)
Smith, M. G. (A)
Smithline, H. (M)
Snyder, R. L. (M)
Sokol, S. (M)
Solomon, A. H. (M)
Solomon, M. N. (A)
Soman, R. O. (M)
Sonsky, S. N. (M)
Spampinato, P. (A)

Spangenberg, L. F. (SM)
Spector, M. S. (M)
Sperling, J. (A)
Spira, J. S. (M)
Spitalny, M. (M)
Sponable, E. I. (SM)
Spratt, E. L. (A)
Sprung, J. (M)
Stalemark, F. R. V. (A)
Stanfield, F. L. (M)
Stansfield, J. Q. (M)
Stanton, F. (SM)
Stanton, L. J. (M)
Starace, N. L. (A)
Stavrinaki, A. G. (A)
Stehn, J. W. (M)
Stein, H. S. (M)
Steinberg, G. N. (M)
Steiner, S. M. (A)
Stelzer, I. (A)
Stenhammer, H. T. (M)
Stepic, W. W. (M)
Stern, E. (M)
Stern, E. (M)
Stern, J. L. (M)
Stern, K. (M)
Stern, R. M. (A)
Sternheim, H. R. (M)
Stevenson, L. A., Jr. (M)
Stewart, A. E. (A)
Stewart, B. L. (M)
Stiefel, R. C. (A)
Stiles, K. P. (SM)
Stobbe, J. A. (SM)
Stock, D. J. R. (A)
Stocklin, W. A. (SM)
Stone, E. W. (F)
Stone, G. F. (A)
Stone, W. G. (A)
Strack, R. R. (A)
Strack, W., Jr. (M)
Strandh, E. S. (A)
Strauss, L. (SM)
Streifus, C. A. (M)
Strickland, H. A., Jr. (SM)
Striker, R. G. (M)
Struyk, C. (M)
Stuff, A. O. (M)
Suarez, A. (A)
Sullivan, H. W. (A)
Susman, A. B. (A)
Sverdlik, S. S. (A)
Szucs, A. S. (A)
Tabor, J. H. (A)
Taishoff, J. (M)
Talley, T. J., III (M)
Taub, H. (A)
Targ, R. (M)
Taylor, C. H. (F)
Taylor, K. A. (M)
Taylor, R. M. (M)
Taylor, W. H., Jr. (SM)
Telmar, H. (A)
Temes, C. L. (M)
Temple, L. M. (SM)
Ter Heun, P. K. (A)
Thieblemont, A. H. (VA)
Thomas L. (A)
Thompson, R. G. (SM)
Tilley, H. H. (SM)
Tillistrand, C. O. (A)
Tint, G. (M)
Tompoe, A. (M)
Traver, H. A. (M)
Trevor, J. B., Jr. (M)
Truckses, D. E. (SM)
Tsuzawa, M. (M)
Tuckerman, L. S. (M)
Tung, F. F. C. (M)
Turchiano, M. W. (A)
Turnow, W. F. (M)
Tutoli, J. G. (A)
Tuttle, C. W. (A)
Tykulsky, A. (M)
Uttal, J. A. (M)
Uttendorfer, E. A. (SM)
Van Gelder, H. (M)
Van Valkenburgh, R. P. (A)
Van Wynen, K. G. (SM)
Vehling, R. H. (M)
Velitchko, W. A. (M)
Vieira, J. F. (A)
Vincent, C. J. (M)
Vitorovich, N. (M)
Vogel, R. P. (M)
Vorhes, D. M. (M)
Vought, T. B. (A)
Wagner, E. G. (A)
Wales, N. B., Jr. (M)
Walker, R. M. (SM)
Wallace, A. (M)
Walsh, A. L. (A)
Walsh, J. B. (SM)
Walton, J. S. V. (A)
Wappler, F. C. (M)
Ward, J. S. (A)
Warshauer, W. J. (M)
Watkins, J. E. (M)
Watts, W. W. (A)
Weaver, A. (M)
Weber, J. H. (M)
Weber, J. V. (M)
Weber, L. A. (M)
Weeks, J. T. (A)
Weigert, H. A. (M)
Weil, R. T., Jr. (SM)
Weinberger, J. (F)
Weindling, F. (M)
Weinman, M. (A)
Weisman, I. (M)
Weiss, G. D. (M)
Weiss, M. R. (M)
Weiss, S. I. (SM)
Weissman, E. (M)
Weitz, G. (A)
Welchman, W. G. (SM)
Wenglin, S. (M)
Werner, R. L. (SM)
Wernick, J. I. (A)
Wernlein, C. E., Jr. (M)
Werth, A. M. (M)
Westheimer, M. (M)
Wexler, P. S. (A)
Whalen, B. F. (A)
White, G. C. (M)
White, S. D. (SM)
Wiberg, H. J. (M)
Wichtendahl, W. J. (M)
Wiesendanger, M. U. (A)
Willett, E. (M)
Williams, D. G. (A)
Williams, J. N. (A)
Willis, F. H. (M)
Willner, P. (M)
Wilmotte, R. M. (F)
Wilson, I. G. (SM)
Wing, O. (M)
Winkler, A. (M)
Winner, L. (M)
Winters, A. (A)
Wise, R. J. (SM)
Wojciechowski, B. M. (SM)
Wolf, H. (SM)
Wolfson, R. (M)
Wolfthal, D. A. (M)
Woltera, J. T. (A)
Wong, A. S. (A)
Wood, J., Jr. (M)
Wood, M. R. (SM)
Woodward, D. E. (M)
Worthing, F. L. (A)
Wouk, V. (M)
Wright, S. E. (M)
Wuorinen, J. H., Jr. (M)
Wyatt, K. S. (A)
Yarmus, L. (A)
Young, H. H. (A)
Young, R. O. (M)
Young, W. R., Jr. (SM)
Yu, E. K. C. (M)
Yusem, S. (M)
Zachariou, H. (M)
Zak, M. A. (A)
Zambarelon, J. T. (A)
Zeamans, H. R. (VA)
Zeigler, K. I. (A)
Zeiter, W. E. (M)
Zemanian, A. H. (SM)
Zernoske, D. (A)
Zinseer, H. H. (A)
Zippler, W. N. (M)
Zlachevsky, B. (A)
Zuckerbraun, J. (M)
Zydney, H. M. (M)

Niagara Falls (BN-1)
Albin, J. F. (M)
Bowman, D. S. (M)
Davis, H. M. (A)
Emes, H. R. (M)
Gleason, M. H. (M)
Haney, C. A. (A)
Hill, I. T. (A)
Holt, R. A. (A)
Howells, W. B., Jr. (M)
Juda, H. J. (M)
Lapic, J. R. (A)
Leming, J. G. (M)
Leonard, D. J. (M)
Libby, M. E. (A)
McNair, R. J. (M)
Potter, C. E. (M)
Rowe, R. G. (SM)
Sarkees, Y. T. (A)
Shulman, H. (A)
Staples, Z. B. (M)
Teal, H. E. (A)
Wilson, P. H. (A)

Niskayuna (SCH-1)
Mayer, C. B. (SM)
Shea, R. F. (F)

North Baldwin (LI-2)
Kappelmann, G. E. (A)
Schaten, P. (A)

North Babylon (LI-2)
Burmeister, W. W. (M)
Casey, K. T. (M)
Hart, G. K., Jr. (M)
Millar, W. M. (A)
Olszewski, W. R. (A)
Revere, R. W. (A)

North Bellmore (LI-2)
Beckhardt, T. (M)
Bischoff, J. J. (A)
Brook, R. H. (M)
Carlstrom, R. A. (M)
Dolin, R. (SM)
Doundoulakis, G. J. (M)
Duckstein, S. (A)
Dvorak, C. T. (A)
Johl, M. J. (A)
Lipkin, W. (M)
Shaw, D. (M)
Tenenbaum, E. (M)

North Chatham (NY-MH-2)
Ray, G. T. (M)

North Massapequa (LI-2)
Johnson, J. H., Jr. (A)
Kaelin, B. A., Jr. (M)
Kant, M. (M)
Kornbluth, A. E. (M)
Price, D. (M)
Prunty, P. F. (M)
Quinn, J. A. (M)
Sokol, A., Jr. (M)
Sonntag, L. (M)

North Merrick (LI-2)
Branker, H. E. (M)
Leggio, J. (SM)
Schneiderman, W. (M)
Takach, A. (M)
Thogersen, G. O. (A)

Northport (LI-2)
Chubb, E. (M)
Davis, F. S. (A)
Guido, L. A. (A)
Huntington, A. (M)
Litchford, G. B. (SM)
Lockwood, M. D. (M)
Norton, S. G. (M)
Othmer, R. E. (M)
Stodola, E. K. (SM)
Striegl, H. F. (M)
Trinkle, F. J. (M)

North Rockville Centre (LI-2)
Melman, I. J. (SM)

North Syracuse (SYR-1)
Adamthwaite, F. V., Jr. (M)
Andrews, W. J. (SM)
Baker, D. W. (A)
Baker, V. L., Jr. (M)
Bartley, W. P. (M)
Besenfelder, E. R. (M)
Blackstock, R. S. (M)
Bochem, H. P. (M)
Bockstiegel, R. B. (M)
Bough, C. F. (A)
Brauner, E. J. (M)
Broughall, H. S. (M)
Brown, S. R. (M)
Burroughs, E. H. (M)
Cadwell, E. B., Jr. (M)
Carr, J. K. (M)
Carson, R. E. (SM)
Chynoweth, W. R. (SM)
Cleary, C. J., Jr. (M)
Clements, W. I. (M)
Cohen, E. (M)
Cole, F. G. (SM)
Colley, L. E. (M)
Corbell, I. T., Jr. (SM)
Coullard, J. B. (SM)
Craig, E. L. (M)
Crandall, C. L. (M)
Crow, E. O. (M)
Curtiss, G. R. (M)
Deitzler, R. P. (M)
Dickson, W. H. (A)
Dobberstein, R. H. (A)
Donegan, J. H. (M)
Dunlap, I. J., Jr. (A)
Eachus, E. D. (M)
Eaton, R. C. (SM)
Eber, L. O., Jr. (A)
Edgerton, J. F. (A)
Eilbeck, A. C. (M)
Eichel, J. H. (SM)
Elkins, R. A. (M)
Ellis, C. L. (SM)
Ellis, C. R. (M)
Ellis, S. S. (M)
Face, G. D. (M)
Fehlau, C. E. (M)
Forney, J. F. (A)
Freestone, H. T. (A)
Frieling, E. (M)
Gala, J. C. (M)
Gerling, H. B. (SM)
Gerwig, C. H., Jr. (A)
Geyer, B. H., Jr. (SM)
Gibson, V. R., Jr. (SM)
Ginder, M. E. (M)
Grauberger, W. E. (M)
Grimm, H. H. (M)
Habeck, G. L. (A)
Hinkelman, T. D. (A)
Hundstad, C. E. (M)
Jacobs, T. E. (M)
Jenkins, W. M. (M)
Johnson, W. G., Jr. (M)
Jones, M. E. (SM)
Jordan, J. F. (M)
Kail, W. F. (M)
Kenyon, R. W. (M)
Kirkpatrick, G. M. (SM)
Koprowski, E. M. (SM)
Krause, L. O. (SM)
Kuhn, D. H. (M)
Letezia, A. (M)
Linnertz, R. C. (A)
Lowther, F. E. (M)
Maloney, W. J. (A)
Marcum, D. (A)
Markes, R. T. (A)
Mayo, B. R. (A)
McClure, R. C. (M)
McGee, A. A., Jr. (M)
McNeill, H. N. (A)
Meehan, J. A., (A)
Merriam, R. H. (A)
Michalek, A. R. (A)
Muschamp, R. A. (SM)
Nelson, W. D. (M)
Ostrowski, R. E. (A)
Palladino, M. J. (SM)
Pavetto, J. C. (M)
Pfueller, A. W. (M)
Phillips, A. B. (M)
Phillips, K. G. (M)
Pickard, L. A. (M)
Plavcan, C. T. (A)
Popejoy, I. J. (M)
Portz, H. G. (M)
Putschi, H. N. (M)
Rausch, R. H. (M)
Relyea, R. A. (M)
Revercomb, H. E. (SM)
Robbins, J. H. (A)
Ruhl, W. T., Jr. (M)
Schulz, E. R. (M)
Schwarz, E. G. (A)
Selin, B. A. (M)
Shumway, N. R. (M)
Sirowatka, J. C. (A)
Smee, P. G. (SM)
Smith, J. (M)
Smith, J. S. (SM)
Spence, J. W. (M)
Stasior, R. A. (A)
Stewart, N. J. (M)
Stokes, C. L. (M)
Stone, R. F. (M)
Svitek, G. A. (M)
Thompson, D. F. (M)
Tidwell, B. B. (A)
Tillman, J. T., Jr. (A)
True, T. T. (M)
Vest, C. R. (M)
Voth, N. D., (A)
Walker, B. G. (M)
Warren, R. A. (M)
Wassilak, E. J. (M)
Wich, H. C. (M)
Wick, R. S. (M)
Wintle, H. C. (SM)
Zenon, Z. (M)

North Tarrytown (NY-W-2)
Akin, R. M. (VA)
Palmquist, C. A. (M)
Vavra, J. M. (A)

North Tonawanda (BN-1)
Arsem, A. D. (SM)
Dunn, J. L. (SM)
Janowsky, R. H. (A)
Johnston, G. D. (M)
Koncsol, A. E. (A)
Marshall, J. F. (M)
Mott, R. H. (M)
Paterniti, A. R. (A)
Schmidt, F. M. (SM)
Taber, R. F. (A)

North Valley Stream (LI-2)
Sodaro, J. A. (A)

North White Plains (NY-W-2)
Foglia, H. R. (M)

Norwich (BING-1)
Bates, W. R. (M)
Hamilton, O. M. (A)
Knudson, L. I. (M)

Nunda (ROC-1)
Short, D. S. (A)

Nyack (NY-2)
Efremov, O. (M)
Koulomzin, N. J. (A)
Miller, H. M. (A)
Murphy, R. P. (SM)

Oakland Gardens (LI-2)
Tellerman, J. (A)

Oceanside (LI-2)
Diamond, G. H. (M)
Eisenberg, A. J. (SM)
Gleimer, B. (M)
Levenstein, H. (M)
Schrader, W. A. (M)
Smith, F. B. (A)
Suttenberg, S. (M)
Urbanik, J. G. (M)

Olcott (BN-1)
Ketcham, W. R. (A)

Old Bethpage (LI-2)
Birnbaum, W. N. (M)
Herman, J. H. (A)
Kenny, M. (M)
Kushner, D. (M)
Taboski, A. F. (M)

Old Westbury (LI-2)
Feldmann, H. (SM)

Olean (BN-1)
Bosworth, O. T. (A)
Jarboe, R. A. (M)
Jenner, W. C. (M)
Taylor, W. D. (M)
Zakrewski, J. E. (M)

Oneida (RU-1)
Smith, H. W. (M)

Oneonta (SCH-1)
Stewart, L. C. (M)

Ontario (ROC-1)
Zogg, F. E. (SM)

Oriskany Falls (RU-1)
McMurtrie, K. A. (SM)

Ossining (NY-W-2)
Brown, R. D. (M)
Boyce, J. (M)
Campbell, J. P. (SM)
Caputo, J. G. (M)
Coombe, J. M. (M)
Ellis, I. T., Jr. (M)
Fraim, N. R. (M)
Miller, R. E. (M)
Ruediguell, R. W. (M)
Ryder, R. R. (M)
Smith, L. A. (SM)
Stavis, G. (SM)
Trifari, F. R. (SM)
Waxman, R. (M)
Yu, H-N. (M)

Oswego (SYR-1)
Arcoraci, L. J. (M)
Gill, L. R. (A)

Ovid (ROC-1)
Gahn, D. E. (M)

Owego (BING-1)
Anderson, D. D. (A)
Armstrong, R. A. (A)
Bird, C. M. (M)
Donaher, T. P. (M)
Doolittle, G. V. (A)
Giroux, P. H. (M)
Hill, T. W. (M)
Jenkins, W. S. (A)
Johnson, G. W. (A)
Knox, L. A. (M)
Kramer, N. H. (SM)
Martin, A. G., Jr. (M)
Park, D. M. (A)
Smith, J. S., Jr. (M)
Spencer, F. J. (M)
Stalma, J. F. (M)
Stoops, E. H. (M)
Van Horn, J. F. (M)
Vance, V. G. (M)
Vinal, A. W. (M)
Welsh, J. H., Jr. (M)

Oyster Bay (LI-2)
Bumstead, J. J. (A)
Dyer, J. N. (F)
George, B. A. (A)
George, H. A. (A)
Mills, J. J. (A)
Pogust, F. B. (M)

Oyster Bay Cove (LI-2)
Busby, J. W. (SM)
Harges, M. T. (M)

Ozone Park (LI-2)
Heller, P. (A)
Hernandez, J. (A)
Kerr, R. G. (A)
Mellard, J. (A)
Schuster, D. (A)
Stone, K. A. (M)
Tiernan, F. V. (M)
Watson, W. C. (A)

Painted Post (ELM-C-1)
Coolidge, J. C. (A)
Frazier, J. F. (M)

Palisades (NY-2)
Ward, B. R. (M)

Patchogue (LI-2)
Wise, A. (M)

Pattersonville (SCH-1)
Dodge, A. O. (SM)
Oakes, W. S. (M)

Pavilion (ROC-1)
Gilmour, A. S., Jr. (M)

Pawling (NY-MH-2)
Coughlin, J. J. (M)
Kubacky, F. A., Jr. (A)

Pearl River (NY-2)
Abbott, G. F., Jr., (M)
Cohn, D. A. (M)
Dague, L. P. (M)
Feinerman, B. (M)
George, R. E. (M)
Porter, H. A. (A)

Peekskill (NY-W-2)
Arcate, J. A. (M)
Bloomquist, W. B. (A)
Davis, E. W. (M)
Foxe, M. (M)
Goldstrohm, W. J. (A)
Guarino, R. J. (M)
Heizman, C. L., Jr. (M)
Holder, C. R., Jr. (A)
Hyde, A. E. (M)
Juanillo, J. J. (M)
Kusnick, A. A. (SM)
Leitner, M. (A)
Pfaff, R. J. (M)
Schreiner, R. J. (M)
Stein, V. J. (M)
Todd, S. E. (M)
Walder, B. (M)
Williams, R. J. (M)
Winkelstein, R. A. (M)

Pelham (NY-W-2)
Aaltonen, T. K. (A)
Crago, R. P. (SM)
Kruse, L. C. (M)
Skinner, F. J. (SM)

Pelham Manor (NY-W-2)
Burnell, N. (A)
Callan, J. M. (M)
Diehl, R. T. (A)
Zadeh, L. A. (F)

Penfield (ROC-1)
Atwood, B. E. (SM)
Barker, J. R. (A)
Berch, W. H. (A)
Chipman, J. R. (A)
Cohen, G. H. (M)
Hafstrom, W. F. (M)
Heit, J. C. (M)
Huie, J. A. (M)
Potter, F. J. (A)
Schwittek, E. W. (M)
Tubinis, M. P. (M)
Wyman, B. D. (M)

Penn Yan (ROC-1)
Emerson, L. E., (A)

Phoenix (SYR-1)
Pacia, E. (M)
Smith, D. L. (SM)
Stabler, E. P. (A)
Williams, J. A., Jr. (A)

Pine Bush (NY-MH-2)
Mattern, P. E. (M)

Pine City (ELM-C-1)
Andrews, R. W. (M)

Pine Plains (NY-MH-2)
Knickerbocker C. H. (M)

Pittsford (ROC-1)
Bond, H. A. (SM)
Busby, L. A. (M)
Carlson, D. V. (M)
Ferry, R. N. (M)
Franco, G. A. (M)
Nelson, J. A. (M)
Stephenson, E. D. (M)
Strachl, R. N. (M)
Taylor, R. B. (M)
Whittall, M. D., Jr. (A)

Plainview (LI-2)
Abramson, J. (A)
Altschul, E. R. (M)
Barna, G., Jr. (M)
Bedoian, B. (A)
Berens, J. (M)
Berge, P. J. (M)
Berton, J. F. (M)
Brodek, W. J. (A)
Brown, A. R. (M)
Case, S. W. (A)
Chatterton, E. L. (SM)
Ciliuffo, J. S. (A)
Cohen, B. C. (A)

Courounis, S. P. (M)
Craib, J. F. (SM)
Crane, R. (M)
Cretella, S. A. (M)
Dalessandro, J. A., (A)
Dembinski, L. J. (M)
Dickman, A. (M)
Dinbart, M. (M)
Dorman, D. (M)
Elson, A. C. (A)
Fine, A. M. (M)
Fox, E. I. (A)
Frisch, I. J. (M)
Fucci, S. (SM)
Gertzis, S. (A)
Gewirtz, A. (M)
Gold, I. (M)
Gorelick, G. (M)
Greenwald, M. S. (M)
Gronlund, A. G. (A)
Gross, J. (M)
Halpern, M. (M)
Hastings, R. (M)
Hebel, E., Jr. (A)
Heichlinger, C. L. (A)
Heiss, W. H. (SM)
Heller, Z. H. (A)
Helms, M. E. (A)
Imgram, R. H. (A)
Intraub, J. (A)
Jacobson, R. I. (SM)
Jones, A. J. (M)
Klein, R. C. (M)
Kogan, M. A. (A)
Lanning, W. C. (SM)
Latham, G. R., IV (A)
Leahy, R. E. (M)
Lesser, D. (M)
Levine, S. (M)
Linden, A. E. (SM)
Marcus, M. A. (M)
Marsden, W. Y. (A)
McGuire, J. P. (M)
McInnis, R. F. (M)
Merl, K. C. (M)
Moerman, N. A. (M)
Mosolgo, R. E. (A)
Nash, A. A. (M)
Nesenoff, N. (A)
Oken, S. (A)
Okwit, S. (A)
Perry D. P. (M)
Perzley, W. (A)
Pignataro, F. P. (M)
Pizzicara, D. J. (A)
Pollack, H. W. (SM)
Potter, J. T. (A)
Prew, H. E. (M)
Rivman, J. (A)
Ross, G. F. (M)
Rudiger, T. F. (M)
Sayer, G. (A)
Schwint, K. F. (A)
Shaw, D. (A)
Simkins, R. S. (M)
Slocum, G. V. (M)
Smith, R. H. (M)
Stamler, L. (SM)
Stern, E. (M)
Tramposch, A. F. (M)
Turner, E. (A)
Vasilos, M. G. (M)
Weber, H. J. (A)
Weinberg, M. (M)
Weiner, W. (M)
Weiser, S. (A)
Wexler, H. (M)
Zaremba, C. J. (M)
Zinaman, H. J. (M)

Plandome (LI-2)
Blackwell, O. B. (F)
Di Blasi, J. (SM)
Dunning, O. M. (F)
Spellman, F. C. (M)

Pleasant Valley (NY-MH-2)
Kingston, W. J. (A)
Swallow, D. S. (M)
Taylor, O. P. (SM)

Pleasantville (NY-W-2)
Berger, F. B. (SM)
Caro, U. F. (A)
Dewhirst, T. P. (VA)
Eisele, W. A. (A)
Finkler, R. A. (M)
Flynn, W. J. (M)
Forrest, J. C. (A)
Fraser, J. T. (M)
Freud, E. L. (M)
Fulmer, N. C. (M)
Gamertsfelder, G. R. (SM)
Gillette, F. N. (A)
Glueckler, E. J. (M)
Hannahs, W. H. (M)
Holley, J. S. (A)
Honig, A. R. (M)
Keenan, M. J. (A)
King, G. W. (M)
Kleckner, C. C. (M)
Kolb, O. J. (M)
Kowalsky, C. (M)
Kranz, F. W. (SM)
Lee, R. W. (SM)
Lehman, W. (M)
Lehr, S. (A)
Lohman, A. F. (M)
McGuire, E. C. (A)
McKendry, J. K. (M)
Motchok, E. P. (M)
Miller, A. G. (A)
Odell, T. W. (M)
Paine, G. R. (M)
Poehler, H. A. (SM)
Pourciau, L. L. (M)
Reed, H. J., Jr. (SM)
Rifkin, M. (M)
Sakson, P. J. (M)
Saltzman, H. (M)
Schick, F. T. (A)
Sherman, S. (M)
Sioles, G. W. (M)
Tull, W. J. (SM)
Wood, A. G. (M)
Ziolkowski, A. (SM)

Poland (RU-1)
Williams, E. E. (A

Port Byron SYR-1)
Webb, T. E. (M)

Port Chester (NY-W-2)
Anderson, A. E. (A)
Barker, D. R. (M)
Botwin, L. (SM)
Flannell, C. F. (M)
Houck, G. B., Jr. (M)
Kalt, C. G. (M)
Luedtke, P. R. (A)
Romanello, A. C. (M)
Toman, J. J. (A)
Tripodi, C. (M)
Watson, E. F. (SM)
Weinrauch, A. (M)
Woloschak, E. (SM)

Port Ewen (NY-MH-2)
Sweet, A. J., Jr. (M)
Weaver, C. N. (A)

Port Jefferson (LI-2)
Fields, W. H. (A)
Giordano, S. (A)
Hansell, C. W. (F)
Kolarcik, J. J. (A)
Munzer, L. F. (M)

Port Jervis (NY-MH-2)
Weill, R. L. (A)

Port Washington (LI-2)
Aitken, R. K. (A)
Anderson, E. I. (F)
Baston, W. M. (M)
Bergel, T. C. (M)
Bicknese, F. H. (M)
Burroughs, H. A. (SM)
Buzzell, E. R. (A)
Cardiner, W. (VA)
Craig, D. R., Jr. (M)
Davidson, W. F. (SM)
Doersam, C. H., Jr. (SM)
Gabor, A. (A)
Grebe, A. H. (M)
Herzog, A. W. (M)
Hickey, J. H. (SM)
Hoag, O. (SM)
Hudgins, W. D. (SM)
Hylas, A. E. (M)
King, R. W., Jr. (M)
Knights, C. F. (M)
Larson, J. E. (A)
Lazich, B. (SM)
Leffingwell, W. B. (A)
Leonard, E. V. (M)
Link, W. J. (M)
Little, D. S. (SM)
Lubkin, Y. J. (M)
Mahoney, J. J. (A)
Marshall, H. (M)
Murdoch, A. Jr. (SM)
Naybor, E. V. (M)
Nelson, E. L., Jr. (M)
Nixon, W. E. (A)
Okrent, J. J. (SM)
Pacent, H. C. (M)
Page, F. E., Jr. (M)
Pasek, D. M. (SM)
Robberson, E. L. (A)
Spencer, N. A. (M)
Stellwagen, F. W. (SM)
Strawbridge, R. B. (M)
Striffler, F. L. (M)
Wallace, R. A. (M)
Weston, S. (SM)
Williams, G. W., Jr. (M)
Witmer, F. S. (M)

Potsdam (SYR-1)
Reed, G. W. (A)
Sanford, R. S. (A)
Strong, W. J. (M)

Poughkeepsie (NY-MH-2)
Acton, F. G. (M)
Adem, R. (M)
Anderson, R. L. (A)
Armstrong, R. M. (M)
Averyt, R. W. (A)
Backman, F. F. (A)
Bahret, R. W. (M)
Baird, J. (SM)
Barber, A. E. (A)
Barnes, D. E. (M)
Bashe, C. J. (M)
Bauer, E. W. (A)
Baumgarte, P. H. (M)
Beatty, H. J., Jr. (A)
Beesley, J. P. (M)
Bender, R. R. (A)
Benson, A. B. (M)
Berger, A. W. (M)
Beverly, N. E. (M)
Blaauw, G. A. (M)
Blessing, R. R. (A)
Bloch, E. (M)
Bloxsome, J. L. (M)
Bluet, C. D. (A)
Boden, R. C. (M)
Bonevac, S. (M)
Branin, F. H., Jr. (SM)
Brandt, W. E. (M)
Brennemann, A. E., Jr. (M)
Brock, J. P. (A)
Brooks, F. P. Jr. (M)
Brosseau, E. F. (M)
Bruce, G. D. (M)
Brunschweiger, A. (A)
Bryson, B. L. (M)
Buchholz, W. (SM)
Buley, T. L. (A)
Burke, E. J. (M)
Buton, E. C., Jr. (A)
Button, C. H. (M)
Carlson, F. A. (M)
Carpenter, E. J., Jr. (M)
Carroll, W. N. (A)
Carrothers, G. H. (M)
Case, P. W. (M)
Chang, H-W. (M)
Christiansen, C. L., Jr. (M)
Chrysler, L. F. (M)
Cobb, R. W. (A)
Conroy, E. D. (M)
Constantine, G., Jr. (M)
Counihan, R. G. (M)
Courtois, J. R. (A)
Cox, T. C. (M)
Craft, B. G. (M)
Crane, A. E. (M)
Crawford, D. J. (M)
Crawford, J. K. (A)
Crawford, W. A. (A)
Credle, A. B. (M)
Cypser, R. J. (M)
Davis, C. M. (A)
Davison, R. D. (A)
Deabler, L. T. (M)
Dean, K. W. (M)
Deerhake, W. J. (SM)
Delninger, C. R. (M)
De Lano, R. B., Jr. (M)
Dennard, R. H. (A)
De Witt, D. (SM)
Dill, H. G. (M)
Disney, J. V. (A)
Dix, D. S. (A)
Doman, D. B. (M)
Domenico, R. J. (A)
Doody, D. T. (M)
Doolin, F. L. (M)
Dumin, D. J. (M)
Dundatscheck, E. P. (A)
Dunwell, S. W. (M)
Einolf, C. W. (M)
Essinger, P. (A)
Evin, N. I. (M)
Farrell, J. F. (M)
Flaherty, R. J. (M)
Fleisher, H. (M)
Fletcher, R. P. (A)
Floros, T. G. (M)
Fontaine, A. B. (A)
Forsberg, H. A. (A)
Fox, A. (M)
Fox, P. E. (SM)
Fredericks, C. F. (A)
Fritz, E. L. (A)
Frontiero, P. A. (A)
Fuegel, E. F. (SM)
Funk, H. L. (M)
Gazale, M. J. (M)
Gedney, R. W. (M)
Goble, A. S., III (M)
Golden, R. K. (M)
Goldman, E. H. (SM)
Goldstein, A. G. (A)
Gorman, D. F. (M)
Grecco, J. A. (M)
Greer, F. G. (M)
Greene, N. E. (A)
Griffin, J. F., Jr. (M)
Griffith, J. E. (SM)
Gulland, G. R. (SM)
Hahn, E. F. (M)
Hallock, D. G. (M)
Hartman, F. B. (M)
Hartwig, A. D. (M)
Hasbrouck, L. J. (A)
Hawkins, G. V. (A)
Hayden, H. P. (M)
Haynes, M. K. (A)
Heath, H. F., Jr. (M)
Heermans, J. W. (M)
Heineck, A. W. (M)
Hennis, R. B. (A)
Hill, R. A. (M)
Hnat, S. (M)
Holtman, L. S. (A)
Hornick, J. C. (M)
Hotchkiss, G. L. (M)
Houldin, R. J. (A)
Housman, B. (A)
Hughes, M. W. (M)
Hulbregtse, E. J. (M)
Hunter, L. P. (SM)
Isole, J. J., Jr. (M)
Jackamonis, G. (A)
Jackson, P. W. (M)
Johnson, J. R. (M)
Jones, R. P. (M)
Joyal, H. J. (M)
Kanter, L. E. (M)
Karan, C. (SM)
Kassan, J. D. (M)
Kennedy, G. F. (M)
King, L. E. (M)
Kippenhan, B. W. (A)
Koelsch, A. C., Jr. (M)
Kordalewski, A. P. (M)
Koskos, A. (M)
Kronick, H. E. (M)
Lalumandier, A. J. (M)
Lampe, A. W. (M)
Lamy, R. C. (M)
Lawrence, D. G. (M)
Lawrence, W. W., Jr. (M)
Layden, E. C. (M)
Lazarus, P. (M)
Leeds, B. (M)
Levene, L. F. (M)
Ligon, G. C. (M)
Lind, J. H. (M)
Lindsay, R. L. (M)
Lippel, B. (M)
Little, J. B. (SM)
Lockett, D. E. (M)
Logue, J. C. (M)
Lorenz, E. J. (A)
Lyon, J. R. (M)
Mackay, J. B. (A)
MacSorley, O. L. (SM)
Mangan, B. A. (A)
Marcy, H. T. (M)
Marshall, J. G., Jr. (M)
Martin, J. B. (A)
Martin, R. R. (SM)
Matthews, E. G. (A)
McMillan, E. C. (A)
Merrill, R. E. (M)
Merrill, R. L. (A)
Merwin, R. E. (M)
Miano, S. V. (M)
Moore, J. W. (M)
Morey, G. A. (A)
Morgan, J. C. (A)
Murtha, G. A. (A)
Mussell, H. A. (A)
Mutter, W. E. (SM)
Myers, A. S., Jr. (M)
Nallin, E. J. (M)
Nanes, M. (M)
Neason, S. J. (A)
Necol, J. C. (M)
Nelson, V. A. (A)
Newman, E. G. (M)
Newton, J. D. (M)
Northrup, C. D. (A)
Nortman, J. J. (M)
Nutter, E. H. (M)
O'Farrell, J. J., Jr. (M)
Oliva, F. J. (M)
O'Neill, G. R. (M)
Ordemann, F. A., Jr. (A)
Ostapkovich, P. L. (M)
Palmquist, E. B. (A)
Pearson, K. A. (A)
Peil, E. F. (M)
Penoyer, R. F. (M)
Perlini, R. (A)
Pfirman, W. S. (A)
Phelps, B. E. (M)
Phillips, F. G., Jr. (M)
Pietras, C. M. (M)
Pike, R. W. (M)
Pitkowsky, S. (M)
Plummer, R. W. (A)
Pomerene, J. H. (M)
Post, F. L. (M)
Quick, A. E., Jr. (M)
Rainville, R. A. (A)
Raunick, D. A. (M)
Reilly, T. J. (M)
Reiner, W. D. (M)
Ress, T. I. (A)
Reynolds, D. J. (A)
Richard, S. J. (M)
Riley, W. B. (M)
Robinson, J. D. (A)
Rocket, F. A. (M)
Ross, H. D., Jr. (M)
Rubin, S. (M)
Russell, G. E. (M)
Russell, L. A. (A)
Rutz, R. F. (M)
Rymaszewski, E. J. (SM)
Sampere, R. D. (A)
Samuel, A. L. (F)
Santino, L. (A)
Scarlett, R. M. (M)
Schaffer, W. S. (M)
Schiavone, R. N. (M)
Schmookler, M. S. (M)
Schulman, F. D. (M)
Schultz, D. D. (M)
Scott, A. E. (M)
Shelford, L. L. (A)
Shively, R. R. (M)
Shultz, G. L. (M)
Siegall, B. (M)
Sih, K. Y. (M)
Simmons, R. G. (A)
Sindelar, F. J. (A)
Singer, D. F. (A)
Skelly, D. J. (M)
Skerritt, J. W. (A)
Skov, R. A. (A)
Slade, B. N. (SM)
Slonaker, R. D. (M)
Smith, G. H. (M)
Smith, J. W. (A)
Smith, W. J. (M)
Smoyer, C. K. (M)
Spatz, P. (A)
Spence, T. M. (M)
Spencer, G. W., II (M)
Staciokas, L. J. (M)
Stephens, C. E. (M)
Stern, R. F. (M)
Stern-Montagny, F. H. (A)
Stoughton, P. N. (A)
Strohm, W. G. (M)
Swanson, R. E. (A)
Terlet, R. H. (M)
Thomas, E. M. (M)
Thompson, D. B. (A)
Thompson, D. M. (M)
Thompson, L. J. (A)
Thorpe, R. A. (M)
Tomasulo, R. M. (M)
Trachy, R. A. (M)
Trapnell, F. M., Jr. (M)
Twicken, S. (M)
Ulfsparre, L. O. (A)
Underhill, G. H. (M)
Uretsky, C. L. (M)
Van Winkle, H. E., Jr. (M)
Verdibello, A. A. (A)
Verven, S. J. (M)
Wajda, E. S. (M)
Walsh, J. L. (A)
Ward, R. H. (A)
Ward, R. L. (M)
Weiss, D. H. (M)
Wenner, J. W. (A)
Whalen, R. M. (M)
Wheeler, N. D. (A)
Whitmore, D. C. (M)
Wilson, E. S. (SM)
Windes, F. V. (A)
Winkler, V. D. (A)
Witt, V. R. (SM)
Wittenberg, W. M. (A)
Wolensky, W. (M)
Wolfersperger, D. B. (A)
Wolff, H. P. (SM)
Wood, E. C. (M)
Wood, J. R. (M)
Wright, R. G., Jr. (A)
Yang, G. C. C. (M)
York, J. J. (A)
Yourke, H. S. (A)

Poundridge (NY-W-2)
Tingley, G. R. (A)

Prattsburg (ELM-C-1)
Carlton, M. D. (M)

Queens (LI-2)
Eisenhuth, A. J. (M)
Mullin, J. F. (A)
Peters, W. G. (A)

Queens Village (LI-2)
Abrahams, S. (M)
Alcott, E. H. (A)
Bracken, T. C. (A)
Bulwin, E. B. (A)
Gerych, W. E. (M)
Glasheen, R. W. (M)
Goldstone, L. O. (SM)
Gould, N. (M)
Griemsmann, J. W. E. (SM)
Hagen, A. A. (A)
Hansen, E. L. (SM)
Hill, E. B. (A)
Hoffer, L. H. (A)
Hyman, A. (M)
Kleinoder, J. (A)
Klumpen, R. D. (A)
La Ware, H. D. (M)
Leary, M. T. (M)
Lielbriedis, K. (M)
McCabe, R. A. (A)
O'Connor, J. L. (M)
Schmidt, H. P. (A)
Selvaggio, N. J. (M)
Sirota, N. (SM)
Tennis, J. S. (M)
Trelewicz, E. R. (M)
Tripp, J. R. (M)
Yeager, J. R. (M)
Zimmerman, L. (A)

Red Hook (NY-MH-2)
Vincent, R. M. (A)
Zucker, M. S. (A)

Rego Park (LI-2)
Bogner, B. F. (M)
Finn, P. L. (M)
Fleig, W. J. (M)
Furia, N. J. (M)
Gedney, A. G. (M)
Green, P. S. (A)
Gross, S. B. (A)
Hannwacker, J. (M)
Herrmann, W. J. (SM)
Jacobowitz, A. (A)
Marants, D. R. (A)
Martin, P. E. (M)
Martin, R. E. (SM)
Metzner, J. J. (A)
Ottenberg, E. C. (M)
Ottenberg, L. A. (M)
Rabinovici, B. (M)
Schiller, H. H. (SM)
Smith, W. J. (M)
Waly, A. (M)
Wirfel, W. M. (M)
Woldt, F. R. (M)
Wong, N. F. (A)

Rensselaer (SCH-1)
Stuarts, A., Jr. (M)
Vogl, N. G., Jr. (M)

Rexford (SCH-1)
Cobine, J. D. (F)
De Witt, J. S. (M)
Stutt, C. A. (M)

Rhinebeck (NY-MH-2)
Beeby, P. A. (A)
Hart, D. M. (A)
Howe, C. K. (A)
Mazziotti, F. (M)
Palmer, E. F. (A)
Raser, E. J. (A)
Vislocky, J. (M)

Richfield Springs (SCH-1)
Kitts, D. E. (A)

Richmond Hill (LI-2)
Arnell, E. B. (A)
Clark, A., Jr. (A)
D'Angelo, F. (A)
Della Salle, L. R. (M)
Egan, W. C. (M)
Fees, H. W. (A)
Ferrantino, S. J. (M)
Foley, J. J. (A)
Iorio, J. (M)
Johannesen, W. (A)
Milukas, V. V. (A)
Marek, J. R. (A)
Roche, M. J. (A)
Rousselet, C. A. (A)
Ruck, R. C. (M)
Schenkerman, S. (A)
Selnick, L. L. (A)
Sierminski, P. J. (A)
Simmons, C. H. (A)
Vambutas, E. (M)
Yellen, A. F. (A)
Zanichkowsky, M. (M)

Ridgewood (LI-2)
La Presti, P. (A)
La Via, J. (M)
Sceles, R. C. (A)

Riverdale (NY-2)
Baker, J. R. (M)
Heller, J. L. (M)
Karian, J. H. (A)
Rosenthal, S. W. (SM)
Stahl, C. (A)

Riverhead (LI-2)
Atwood, J. B. (SM)
Braaten, A. M. (SM)
Brandinger, J. J. (M)
Goddard, D. R. (SM)
Goldman, S. (M)
Hansell, G. E. (SM)
Herbig, A. J. (A)
Langan, J. C. (A)
Leis, W. S. (M)
Loughridge, W. A. (A)
Moore, H. A. (M)
Olsen, W. E. (A)
Peterson, H. O. (F)
Schock, R. E. (SM)
Schoenborn, F. J. W. (M)
Shipley, D. G. (A)
Taylor, H. A. (SM)
Wagner, R. J., Jr. (M)

Wickizer, G. S. (SM)
Zimmerman, R. (A)

Rochester (ROC-1)
Agel, C. W. (A)
Anderson, R. T. (M)
Andzer, A. (A)
Andzer, A. L. (M)
Arao, R. S. (SM)
Araya, A. (M)
Arnts, F. D., Jr. (M)
Auer, J. H., Jr. (M)
Babcock, T. R. (M)
Bailey, C. E. (A)
Baker, A. A., Jr. (M)
Baldwin, L. D. (A)
Balling, A. W. (VA)
Baron, E. A. (M)
Barr, E. M. (M)
Bartlett, W. F. (A)
Baxter, C. W. (M)
Bayer, W. L. (SM)
Beardsley, R. R. (SM)
Bellor, W. F. (M)
Bendel, S., Jr. (A)
Bender, J. W. (A)
Benedict, C. F. (M)
Beukers, J. M. (M)
Biggar, R. L. (SM)
Blow, A. W. (M)
Boehly, M. A. (A)
Bonaventura, J. J. (A)
Bouchard, G. O. (A)
Bowen, B. D. (A)
Boyd, R. K. (M)
Bradley, J. K. (SM)
Brennan, A. T. (SM)
Braggins, R. D. (A)
Brewer, W. L. (SM)
Broutman, C. A. (A)
Brown, C. A. (M)
Brown, G. A. (M)
Brown, J. G. (M)
Brown, L. W. (SM)
Browning, R. (M)
Brumley, C. H. (M)
Bryzinski, T. F. (M)
Burns, D. W. (A)
Burrows, H. R. (M)
Ceranowicz, H. N. (M)
Cerefin, D. C. (A)
Chesna, J. (A)
Clark, G. J. (A)
Clement, M. A. (M)
Clickner, G. M. (M)
Close, S. W. (M)
Cogswell, W. P. (SM)
Coombs, W. F., Jr. (M)
Cotter, W. F. (SM)
Cumley, R. L. (M)
Cunningham, G. E. (A)
Curtis, S. R. (SM)
Czora, W. G. (A)
Dahl, A. H. (M)
Dailor, F. E. (M)
Dale, A. W. (SM)
Daly, J. P. (M)
Dasburg, A. V. (M)
Dawson, C. H. (SM)
Deming, R. L. (SM)
Dobson, H. R. (M)
Donovan, C. (A)
Douglas, J. L. (M)
Dowdell, V. L., Jr. (M
Du Bovy, J. L. (A)
Dudek, S. J. (A)
Dulin, G. F. (M)
Dunklin, R. A. (M)
Dutcher, B. C. (M)
Edighoffer, E. A. (A)
Eisaman, L. C. (M)
Elliott, G. (SM)
Ellis, J. R. (M)
Ellis, T. E., Jr. (M)
England, W. B. (SM)
Engler, C. D. (M)
Enslein, K. (SM)
Erbelding, J. C. (A)
Ertman, R. J. (M)
Evans, J. E. (M)
Federici, J. T. (M)
Fine, L. (A)
Fink, E. J. (M)
Fischer, A. N. (M)
Fleisher, M. D. (M)
Fondrk, J. S. (A)
Forbes, E. J. (A)
Formicola, A. F. (A)
Foster, G. C. (M)
Fox, R. S. (A)
Freehafer, J. E. (M)
Frielinghaus, K. H. (A)
Gardner, K. J. (M)
Garland, J. E. (M)
Gooding, D. J. (M)
Grammer, R. A., Jr. (M)
Gray, M. B. (M)
Gruner, H. W. (M)
Guenther, J. H. (SM)
Gutzmer, R. F. (A)
Hahnel, A. (SM)
Hailes, W. D. (SM)
Harnar, R. K. (M)
Harris, L. R. (A)
Harris, R. L. (M)
Harrison, B. H. (M)
Haskell, J. W. (M)
Haupt, G. H. (SM)
Hausler, W. B. (M)
Hecht, N. E. (M)
Herbeck, A. E. (M)
Herrman, R. F. (M)
Hewitt, C. G. (M)
Hicks, J. F., Jr. (SM)
Hively, R. R. (SM)
Hodson, L. A. (SM)
Hoeft, R. H. (A)
Hoffman, G. J. (M)
Holmes, L. C. (F)
Holmes, R. W. (SM)
Holstrom, A. (SM)
Houde, R. A. (A)
Hulse, R. W. (M)
Hunderup, A. R. (M)
Huntington, M. B. (VA)
James, C. L. (M)
Jeffers, R. K. (M)
Johnson, R. M. (M)
Johnstone, N. J. (M)
Jorgensen, O. A. (M)
Kamp, F. S. (M)
Karker, E. C. (M)
Kay, R. H. (A)
Keane, J. E. (A)
Keenan, T. F. (M)
Keirnan, F. J. (M)
Kelly, R. A. (A)
Kendall, H. C. (SM)
Kende, G. (SM)
Kennedy, R. P., Jr. (M)
Klumb, H. J. (M)
Kohlman, O. C., Jr. (A)
Kreim, W. J. (M)
Ladd, J. H. (M)
Lake, A. E., Jr. (A)
Lamb, F. E. (M)
Lankes, L. R. (SM)
Laythe, R. F. (M)
Le Brun, R. L. (M)
Lewis, R. E. (M)
Lins, H., Jr. (M)
Lopez, G. J. (A)
Luke, L. M. (M)
Lusted, L. B. (SM)
Lyke, E. F. (M)
Maiorino, G. S. (A)
Manson, R. H. (F)
Mateyk, W. (M)
Maughmer, R. W. (M)
Mavis, G. W. (M)
Mazel, L. G. (M)
McArdle, B. L. (SM)
McKendree, J. D. (M)
Menkes, E. D. (A)
Merle, C. W. (SM)
Mitchell, F. A. (M)
Miyahira, H. Y. (M)
Moise, T. S. (A)
Morken, D. A. (M)
Morris, G. F. (M)
Morrison, R. F., Jr. (M)
Morse, J. E. (M)
Moulton, E. W. (SM)
Mumma, H. A., Jr. (SM)
Murad, E. M. (M)
Murphy, W. L. (M)
Neff, W. H. (M)
Nelson, D. E. (M)
Nelson, R. L. (M)
Newitt, J. W. (A)
Nichols, N. B. (SM)
Nugent, J. A. (M)
Orlowski, J. S. (M)
Orpin, L. H. (SM)
Ossmann, E. A. (M)
Otter, S. (M)
Ota, L. Y. (M)
Ozminkoski, J. R. (A)
Parks, W. J. (SM)
Partis, D. C. (A)
Patton, D. W. (A)
Payne, R. C. (M)
Payne, W. T., Jr. (A)
Pelham, K. F. (SM)
Pendergrass, H. (A)
Pichal, H. T. (M)
Platnick, D. (M)
Pitlik, H. (M)
Polinsky, A. L. (M)
Porter, G. C. (A)
Powers, R. L. (M)
Prasil, A. (M)
Price, C. C. (A)
Qualich, A. (M)
Ramos, A. S. (A)
Raymond, R. S. (M)
Richards, G. L. (A)
Richards, J. B. (A)
Richards, W. H., Jr. (A)
Richter, W. (M)
Ridob, W. (M)
Robbins, R. E., Jr. (A)
Robertson, R. G. (M)
Rodatus, E. J. (A)
Rodgers, J. A. (SM)
Rogers, R. J. (M)
Roman, R. J. (SM)
Ronbeck, J. E. (M)
Ross, H. J. (M)
Ross, L. A. (A)
Rubega, R. (A)
Ruppert, J. R. (M)
Saeli, J. J. (A)
Sage, F. D. (A)
Sahba, D. R. (M)
Samuelson, J. R. (A)
Sass, L. J. (M)
Savchuk, V., Jr. (SM)
Schiff, S. (M)
Schifino, A. G. (M)
Schneider, G. O. K. (A)
Schwarz, A. H. (M)
Schwertz, F. A. (M)
Searcy, C. E. (M)
Shalloway, A. M. (SM)
Shechan, J. F. (A)
Sheve, H. C. (VA)
Shirman, J. (M)
Shook, C. G. (M)
Silverman, L. (A)
Slaymaker, F. H. (M)
Smith, D. S. J. (M)
Smith, L. D. (SM)
Sperling, I. (A)
Spiegel, R. E. (M)
Steck, A. F., Jr. (M)
Stern, M. A. (A)
Stevenson, H. (M)
Stewart, F. B. (M)
Stolze, W. J. (SM)
Stone, D. J., Jr. (A)
Stoutz, C. O., Jr. (A)
Strack, H. O. (A)
Szabo, J. A. (A)
Tapernoux, P. J. (A)
Tholstrup, H. (SM)
Ticknor, J. M. (A)
Timm, O. C. A. (A)
Tolliver, P. M. (M)
Traino, C. (M)
Traub, R. A. (A)
Trost, H. K. (M)
Trott, M. (M)
Turner, W. (M)
Tyrlick, W. V. (M)
Van Deloo, P. A. (M)
Vandervoort, Q. D. (M)
Vang, J. P. (A)
Veal, T. G. (M)
Velie, J. L. (A)
Vincent, A. W. (SM)
Walker, W. F. (M)
Weller, R. (SM)
Whitman, R. N. (M)
Wilcox, D. D., Jr. (M)
Williams, A. S. (M)
Wilson, J. E. (A)
Winkler, T. (M)
Wobig, W. H. (M)
Wolcott, J. R. (A)
Yeaple, R. N. (M)
Yeaton, E. C. (A)
Young, E. A. (A)
Young, F. C. (SM)
Young, J. W. (A)
Zarcone, C. J. (A)
Zefting, A. H. (M)

Rock Stream (ROC-1)
Shepard, W. H. (M)

Rockville Centre (LI-2)
Bensen, H. (M)
De Weese, H. W. (SM)
Duke, V. J. (SM)
Fay, F. A. (A)
Gilman, B. S. (M)
Ginsberg, M. P. (SM)
Harnett, L. T. (M)
Hinners, F. A. (F)
Hopkins, J. J. (SM)
Lee, R. L. (M)
Leuteritz, H. C. (M)
Mason, J. D. (M)
McCartney, E. (A)
Meehan, J. D. (M)
Phelps, R. J. (SM)
Potter, N. (A)
Quatraro, W. (A)
Rich, E. M. (M)
Rutstein, I. (SM)
Schwartz, H. F. (M)
Sinsheimer, W. J. (A)
Stotz, C. C. (M)
Uzmann, J. G. (SM)
Warren, S. D. (A)
White, H. A. (A)
Wolff, G. (A)

Rocky Point (LI-2)
Beverage, H. H. (F)
Callahan, J. L. (F)
Carter, P. S. (F)
Goldstine, H. E. (SM)
Kahn, A. (SM)
Martin, C. A. (SM)
Peterson, L. E. (M)
Sanford, V. M. (M)

Rome (RU-1)
Allen, R. F. (M)
Balter, I. (A)
Bayless, H. A. (M)
Beauchamp, A. J. (M)
Benditzky, E. (M)
Benoit, R. C., Jr. (SM)
Bethke, W. P. (SM)
Berliner, J. (M)
Bigelow, R. W. (M)
Blazek, G., Jr. (A)
Blymiller, A. L. (A)
Breckner, C. N. (M)
Brendiar, D. E. (M)
Bromley, J. E. (M)
Brooks, R. M. (M)
Brown, D. E., Jr. (M)
Brownstein, H. S. (M)
Byrne, R. D. (M)
Caldine, H. G. (M)
Carney, P. G. (M)
Chapin, E. J., Jr. (M)
Colangelo, L. P. (M)
Coppola, A. (M)
Corey, S. A. (M)
Corgnati, E. S. (A)
Craiglow, L. H. (M)
Crowley, H. J. (M)
Cruickshank, J. E. (SM)
Dakan, D. L. (SM)
Darrow, F. M. (M)
Davis, H. (F)
Davis, H. (M)
Dayton, W. P. (M)
De Mesme, T. A. (A)
Diamond, F. I. (M)
Drapkin, P. E. (M)
Eannarino, J. M. (SM)
Eitches, I. (SM)
Engels, R. O. (A)
Fallik, J. (M)
Feiner, A. (A)
Ferlo, O. F. (A)
Ferrell, P. J. (M)
Fishner, S. (A)
Forte, M. P. (A)
French, E. O. (M)
Friedman, H. (SM)
Frohlich, A. J. (M)
Gabelman, I. J. (SM)
Giles, G. R. (A)
Glaviano, C. R. (M)
Graham, R. C. (M)
Griffiths, J. D. (A)
Handelsman, M. (SM)
Hartofil, P. E. (A)
Harvey, D. M. (M)
Hatfield, J. P. (M)
Headle, H. W., Jr. (M)
Hill, B. E. (A)
Holberger, R. R. (M)
Holliday, R. H. (SM)
Jaeger, M. (M)
Jeffery, S. (SM)
Johnson, B. F. (M)
Jones, F. W. (A)
Kabrisky, M. J. (A)
Kelly, W. S. (A)
Knight, T. G. (M)
Larsen, P. N. (A)
Lay, C. A., Jr. (A)
Leney, H. G. (M)
Levy, G. (A)
Libby, R. L. (M)
Lindeman, B. (SM)
Lloyd, C. E. (A)
Long, G. A. (A)
Loreto, D. R. (M)
Maggio, T. (M)
Malowicki, E. (M)
Marks, R. L. (SM)
Mason, W. F. (SM)
McFee, J. E. (A)
McLaughlin, R. L. (M)
Mensch, J. R. (M)
Meyer, C. H., III (A)
Miles, R. A. (M)
Miller, C. R. (M)
Mirman, I. (SM)
Moore, F. F. (A)
Morelli, M. (A)
Moskowitz, F. (SM)
Munzer, E. N. (M)
Naresky, J. J. (M)
Neeley, A. C. (A)
Parker, L. W. (M)
Pendleton, E. E. (A)
Pomroy, R. A. (A)
Pope, W. T., Jr. (M)
Pranke, J. A. (A)
Pulido, G. G., Jr. (M)
Quanrud, O. G. (M)
Ratynski, M. V. (SM)
Redwine, C. H. (M)
Richter, H. (M)
Riechman, S. D. (M)
Roberts, W. L. (M)
Rodriguez, R. A. (M)
Rudenacy, M. B. (M)
Sacra, G. H. (M)
St. John, C. G. (M)
Schlegelmilch, R. O. (SM)
Schwartz, S. S. (A)
Scott, E. C. (M)
Selover, E. E. (A)
Shapiro, H. (M)
Sharki, P. (M)
Shiner, G. A. (A)
Storrs, E. N. (SM)
Story, R. T. (SM)
Strom, C. A., Jr. (SM)
Swainston, D. W. (M)
Szalach, F. E. (A)
Taffel, B. R. (M)
Tallman, O. G. (SM)
Tanenhaus, A. M. (SM)
Tenney, R. F. (M)
Tepper, S. J. (M)
Thompson, J. M. (SM)
Thompson, R. J. (SM)
Vaccaro, J. (A)
Vincent, J. G. (A)
Vogelman, J. H. (SM)
Ward, J. W. (M)
Warner, M. (M)
Webb, H. E., Jr. (M)
Whiteside, J. S., Jr. (A)
Wilkinson, E. L. (A)
Winkler, E. H. (SM)
Wisniewski, S. J. (M)
Worthington, D. T. (M)
Worthington, J. W., Jr. (SM)
Wright, R. O. (M)

Ronkonkoma (LI-2)
Gold, T. (M)

Roosevelt (LI-2)
Adachi, W. Y. (VA)
Brown, E. M. (SM)
Chartoff, P. (M)
Collins, D. H. (A)
Comitz, P. (M)
Darch, N. S. (M)
Fragola, C. F. (SM)
Kushner, J. (M)
Popkin-Clurman, J. R. (SM)
Randazzo, J. J. (A)

Rosedale (LI-2)
Bailey, J. W. (M)
Cohen, D. (M)
Damm, G. W. (A)
Mott, H. A., Jr. (A)
Weiner, F. (A)
Zang, G. R. (A)

Roslyn (LI-2)
Doerschuck, J. (M)
Easton, A. (SM)
Hicks, W. M. (A)
Kamen, I. (SM)
Match, M. J. (M)
Platzman, P. M. (M)
Sontag, H. M. (M)
Sturdevant, J. W. (M)
Susskind, S. E. M. (A)
Wild, J. J. (M)

Roslyn Estates (LI-2)
Shanley, J. H. (M)
Skeist, S. M. (M)

Roslyn Harbor (LI-2)
Minc, A. (M)

Roslyn Heights (LI-2)
Anstett, F. D. (SM)
Applebaum, S. J. (M)
Ashley, A. (M)
Azgapetian, V. (SM)
Barney, K. H. (SM)
Boltz, J. H. (SM)
Boop, W. E. (M)
Bordiga, B. (A)
Bourke, W. A. (SM)
Brower, J. D. (M)
Corwin, A. (SM)
Daelemans, G. L., Jr. (M)
Deutsch, S. (M)
Dmytrasz, J. N. (M)
Duffy, J. P., Jr. (M)
Dumey, A. I. (A)
Feldmann, F. (SM)
Fidelman, D. (A)
Gaines, B. (SM)
Gray, J. E. (A)
Hauer, W. B. (M)
Helmer, R. L. (M)
Hochman, R. J. (M)
Jackson, T. T. (SM)
Johnston, H. (A)
Johnston, W. A., Jr. (M)
Kohn, S. A. (M)
Loesing, J. B., Jr. (A)
Marshall, R. H. (M)
McLinden, J. E., Jr. (SM)
Pride, D. W. (A)
Rod, R. L. (SM)
Roth, H. H. (M)
Seeley, S. W. (F)
Skipper, L. C. (SM)
Slaughter, G. K. (SM)
Spielberger, S. C. (SM)
Star, J. (SM)
Sterling, J. J. (M)
Weber, R. L. (M)
Weinmann, R. H. (M)
Willenbecher, J. F. (SM)
Willey, F. G. (M)
Winship, L. T. (A)
Yelsey, B. (M)
Zetkov, G. A. (M)

Rush (ROC-1)
Finnigan, C. W. (SM)
Kohl, W. B. (A)

Rye (NY-W-2)
Bolton, W. D. (M)
Borck, C. A. (SM)
Davis, D. (M)
Deri, H. B. (A)
Eaves, A. J. (SM)
Haselton, M. L. (M)
Lamarque, J. W. (VA)
Paul, C. H. (A)

St. Albans (LI-2)
Behr, J. (A)
Brown, A. R. (M)
Ceccanti, L. P. (A)
Froh, R. W. (A)
Gach, L. M. (M)
Heller, R. C. (A)
Holder, V. D. (A)
Keicher, A. J. (M)
Keicher, R. J. F. (M)
Kirsch, W. A. (SM)
Krieger, K. C. (M)
Kuchlewski, T. R. (A)
Moritz, F. G. (M)
Rothenberg, S. M. (SM)
Smikle, K. R. (A)

St. James (LI-2)
Jolas, G. C. (M)
Samson, G. C. (A)

Salt. Point (NY-MH-2)
Taylor, R. L. (A)

Sanborn (BN-1)
Bates, R. D. (A)

Sands Point (LI-2)
Callahan, E. C. (SM)
Deakin, G. (VA)
Hayward, G. H. (A)
Langerman, H. (A)
Moore, F. H. (SM)

Saratoga Springs (SCH-1)
Ant, E. B. (M)
Bensinger, C. (A)
Cavenaugh, D. E. (M)
Lynch, F. T. (M)
Saslow, S. (M)

Saugerties (NY-MH-2)
Allen, G. W. (M)
Bright, D. W. (M)
Buck, R. D. (SM)
Bunyar, P. A. (M)
Gaglianello, J. W. (A)
Giedd, G. R. (M)
Goldberg, M. (A)
Hennessey, T. J. (M)
Jones, R. L. (M)
Lett, A. S. (A)
Luiggi, R. H. (A)
Martello, A. S. (M)
Moynihan, J. D. (SM)
Newcomb, C. E. (A)
Nitschke, N. E. (M)
Patterson, D. A. (A)
Peavy, W. R. (M)
Pocalyko, P. N. (M)
Posklensky, D. (A)
Rhodes, R. (M)
Scott, W. A. (A)
Young, F. G. (M)

Sauquoit (RU-1)
Belby, M. (A)
Krusemark, K. A. (M)
La Forte, J. T. (A)
Martin, R. H. (A)
Otis, G. E. (A)
Shibata, A. M. (A)

Sayville (LI-2)
Sprague, R. M. (M)

Scarborough (NY-W-2)
Garretto, L. A., Jr. (M)

Scarsdale (NY-W-2)
Alpert, N. (SM)
Burnell, L. G. (SM)
Carlson, R. E. (SM)
Di Stefano, R. T. Jr. (A)
Dubbs, B. (M)
Fein, M. J. (SM)
Fox, W. C. O. (M)
Heller, S. (M)
Lichtenstein, M. J. (SM)
McKirdy, R. W. (M)
Monroe, R. B. (SM)
Oppenheimer, F. W. (M)
Pendleton, A. D. (A)

Seitz, F. A. (VA)
Slaybaugh, C. W. (SM)
Stephens, M. C. (A)
Turner, A. (M)
Van Bemmelen, H. M. (M)
Worthington, J. H. (A)

Schenectady (SCH-1)
Abraham, L. G., Jr. (A)
Acton, E. S. (M)
Adams, G. E. (M)
Adams, H. J. (M)
Alexander, N. W. (M)
Alexanderson, E. F. W. (F)
Allen, C. C. (SM)
Amoth, V. W. (SM)
Anderson, J. M. (A)
Anderson, R. E. (SM)
Arnold, W. J. (M)
Barlow, D. P. (M)
Beggs, J. E. (F)
Bolster, M. F. (M)
Borner, E. F. (M)
Bouton, D. M. (M)
Bowne, W. L. (M)
Boyd, M. R. (M)
Branch, G. M., Jr. (SM)
Brandes, P. D. (M)
Broughton, W. G. (M)
Buchhold, T. A. (SM)
Burkett, F. T. (M)
Buscher, R. G. (M)
Chernoch, J. (M)
Chestnut, H. (SM)
Coates, C. L., Jr. (A)
Coghill, H. D. (A)
Cohen, A. (M)
Collins, R. N. (M)
Concordia, C. (SM)
Craig, E. J. (M)
Cruger, B. W. (A)
Dabul, A. (M)
Davidson, D. S. (A)
Day, H. R. (SM)
Deblase, R. G. (M)
Dehn, R. A. (SM)
Delson, J. K. (A)
De Santis, V. J. (SM)
Dickey, F. E. (SM)
Dickinson, T. M. (M)
Dodson, G. C., Jr. (M)
Duckwald, C. S., Jr. (M)
Ender, O. C. (A)
Eshbach, J. R. (M)
Farrall, G. A. (M)
Felker, G. E., Jr. (M)
Fick, C. G. (F)
Fisher, J. C. (M)
Ford, A. A. (SM)
Frick, C. W. (SM)
Gable, A. C. (SM)
Garr, D. E. (SM)
Goldman, R. G. (SM)
Griffin, G. J., Jr. (M)
Grover, F. W. (F)
Hagen, D. L. (M)
Hall, R. N. (F)
Hancock, W. L. (M)
Hann, J. D. (A)
Harris, L. B. (M)
Hawkins, D. W. (SM)
Helden, C. M. (SM)
Henyan, G. W. (M)
Herrmann, G. M. (SM)
Hess, P. N. (M)
Hickey, J. S., Jr. (SM)
Hilts, H. D. (A)
Hoffman, T. R. (SM)
Jakowatz, C. V. (M)
Jensen, A. O. (M)
Johnson, R. E. (M)
Kamen, W. J. (A)
Kaufmann, R. H. (A)
Keenan, P. P. (M)
Kessler, G. W. (M)
King, F. E. (M)
Kirhmayer, L. K. (M)
Koch, A. R. (SM)
Kohl, H. F. (A)
Koskos, P. (SM)
Kowalczyk, A. C. (A)
Krygsman, C. (A)
Lafferty, J. M. (F)
Lang, J. M. (M)
Larson, R. W. (SM)
Lawson, M. L. (SM)
Lee, E. S. (SM)
Lemmond, C. O. (M)
Lewis, P. M., II (M)
Lippitt, D. L. (A)
Lippitt, M. W., Jr. (M)
Maginniss, F. J. (M)
Mason, P. R., Jr. (A)
McAllister, J. F., Jr. (SM)
McArthur, E. D. (F)
McKeehan, W. F. (A)
Meahl, H. R. (SM)
Mihran, T. G. (SM)
Milford, R. E. (M)
Miller, H. E. (M)
Milton, R. T. (A)
Moles, F. J. (SM)
Morgan, R. E. (M)
Morrison, A. (SM)
Newhouse, V. L. (M)
Numrych, E. C. (M)
Owen, J. K. (A)
Owens, O. G. (M)
Palmer, H. J. (M)
Pashler, P. E. (SM)
Patterson, F. G. (VA)
Paxton, E. B. (A)
Pester, R. F. (SM)
Pickert, C. E. (M)
Pravda, M. F. (M)
Preschel, K. S. (M)
Prince, D. C. (SM)
Purcell, W. J. (M)
Rankin, A. E. (SM)
Raschke, R. R. (A)
Reed, R. I. (SM)
Rich, J. A. (SM)
Rocha, H. A. F. (A)
Rodbell, D. S. (A)
Root, A. A. (M)
Rosner, C. H. (M)
Rothe, F. S. (M)
Russ, R. B. (SM)
Rustay, R. C. (M)
Sampson, E. S. (SM)
Samuel, J., Jr. (M)
Scholes, H. M. (M)
Shelton, W. H. (M)
Shuey, R. L. (SM)
Smith, R. L. (SM)
Smith, R. T. (M)
Speray, M. R. (A)
Stein, H. H. (M)
Stupp, R. J., Jr. (SM)
Suits, C. G. (F)
Summerhayes, H. R., Jr (SM
Taylor, J. E. (M)
Taylor, L. A. (M)
Teare, W. H. (SM)
Thal, H. L., Jr. (A)
Thayer, R. W. (A)
Thorson, H. L. (SM)
Tomlinson, J. M. (A)
Troutman, P. H. (M)
Turrentine, R. E. (SM)
Verzulli, J. U. (A)
Von Fange, E. K. (M)
Waldron, W. K. (M)
Wargo, P. (M)
Watkins, K. E. (M)
Watson, R. P. (SM)
Watters, R. L. (M)
Weinstein, M. (M)
White, G. M. (M)
White, W. C. (F)
Wilson, V. C. (A)
Wolfe, J. E. (SM)
Young, C. M. (SM)
Young, J. D. (M)
Yu, S. P. (M)

Scipio Center (SYR-1)
Matuzich, J. D. (A)

Scotia (SCH-1)
Bondley, R. J. (SM)
Brougham, R. W. (M)
Carleton, E. O. (A)
Chambers, D. E. (F)
Cook, E. D. (F)
Coolidge, A. W., Jr. (M)
Curtis, T. P. (SM)
Day, B. E. (M)
Elder, T. A. (SM)
Fraenckel, V. H. (M)
Gardiner, P. C. (SM)
Gardner, G. F. (VA)
Gauper, H. A., Jr. (SM)
Hanrahan, L. R. (A)
Harris, L. A. (M)
Iler, G. W. (SM)
Jablonski, R. W. (A)
Little, D. W. (M)
Manfredi, R. E. (M)
Merwin, R. L., Jr. (SM)
Miglore, C. (A)
Roberts, S. (M)
Sendzuk, G. T. (M)
Travis, E. F. (SM)
Vaughan, J. R. M. (SM)
Volkers, W. K. (SM)
Wade, E. J. (A)
Wagoner, C. A. (SM)
Wellinger, R. P. (M)

Scottsville (ROC-1)
Benin, Z. (SM)

Sea Cliff (LI-2)
Beer, A. E. (A)
Black, E., Jr. (SM)
Busching, H. L. (M)
Flackbert, C. (SM)
Hine, E. A. (M)
Hulland, B. L. (M)
Matuszek, F. A. (A)
Roherty, T. M. (M)
Shane, D. C. (M)
Singleton, C. M. (M)

Seaford (LI-2)
Battle, F. H., Jr. (M)
Beckham, C. L. (SM)
Catenaro, R. D. (A)
Cornetz, W. (M)
Diehlmann, J. T. (M)
Erath, R. L. (A)
Gilbert, R. C. (SM)
Goodman, D. M. (SM)
Kaufman, I. (M)
Krutman, J. M. (A)
Lurch, E. N. (M)
McEvoy, H. G. (M)
McPherson, D. L., III (M)
Myers, E. N. (M)
Oliver, O., Jr. (A)
Purdy, R. L. (A)
Selby, A. R. (M)
Walker, A. S. (M)

Seaford Harbor (LI-2)
O'Maley, J. B. (M)

Searingtown (LI-2)
Hammer, R. M. (SM)

Senaca Falls (ROC-1)
Burroughs, F. L. (SM)
Cowden, D. G. (M)
Dangremond, J. L. (M)
Dickinson, W. A. (SM)
Dowse, E. C., Jr. (M)
Eisengrein, R. H. (A)
Faust, A. C. (A)
Fogg, G. E., Jr. (M)
Gessford, R. K. (SM)
Haas, P. (VA)
Holcumb, W. A. (A)
Jans, J. T. (M)
Kahl, M. I. (SM)
Keen, A. W. (SM)
Krawitz, M. (SM)
Loughlin, J. H. (SM)
Mackey, D. G. (A)
Ottemiller, W. H., Jr. (SM)
Peck, H. D., Jr. (M)
Shields, R. R. (M)
Stone, E. O. (M)
Stone, R. W. (SM)
Swan, R. A., Jr. (M)
Vogel, R.O.(M)
Whitten, A. C. (A)

Sherburne (BING-1)
Brown, H. H. (M)
Fowler, A. K. (M)
Leitner, R. T. (M)
Lundahl, T. (SM)
Sleeper, G. B., Jr. (M)
Voorhaar, F. R. (M)

Sherman (ER-1)
Pulinski, F. A. (A)

Shoreham (LI-2)
Sheridan, T. R. (A)

Sidney (BING-1)
Schumann, G. H. (M)
Struble, R. C. (A)

Silver Creek (ER-1)
Barris, H. A. (A)
Gull, R. A. (SM)

Skaneateles (SYR-1)
Dean, W. W. (SM)
Ewing, L. M. (SM)
Hackley, C. L. (M)
Lloyd, C. G. (SM)
MacHill, J. (SM)
Rist, D. H. (M)
Wiggin, J. F. (A)

Slingerlands (SCH-1)
Baker, W. R. (A)
Bowie, W. G. (SM)
Dillenback, G. V., Jr. (M)
Longley, J. F. (SM)

Sloatsburg (NY-2)
Stevenot, H. A. (A)

Smithtown (LI-2)
Chupp, J. W. (A)
Hastings, D. F. (A)
Lerner, D. (A)
Pawelko, M. J. (A)
Wethington, T. G. (M)

Snyder (BN-1)
Balint, A. T. (SM)
Hettich, R. D. (M)
Hultberg, C. A. (SM)
Lawton, J. G. (M)
Melling, W. P. (SM)
Riall, R. T. (M)
Richmond, G. E., Jr. (M)
Robins, B. W. (SM)
Sanders, E. R. (SM)
Tittle, H. C. (M)
Whyman, E. W. (SM)
Wilkins, F. W. (M)

Solvay (SYR-1)
Dobkowski, J. T. (A)
Fragnito, J. P. (M)
Shofstall, N. F. (SM)
Wagner, Z. G. (A)

South Farmingdale (LI-2)
Saur, R. D. (M)

Southampton (LI-2)
Buckingham, W. D. (M)
Hildreth, A. E., Jr. (M)
Lamar, R. E. (M)
Lush, W. G. (SM)

South Hempstead (LI-2)
La Rosa, R. (SM)
Porter, S. T. (A)

South Lansing (ITH-1)
Bray, D. W. (SM)
Swanseen, H. W. (A)

South Ozone Park (LI-2)
Gamrat, S. (A)
Helm, R. R. (M)
Lizzio, J. (A)
McDonald, F. J. (A)
Morris, R. L. (A)
Neiland, A. C. (A)

Spencerport (ROC-1)
Heath, R. R. (M)
Sibley, H. C., Jr. (M)

Springfield Gardens (LI-2)
Berthold, R. V. (M)
Davey, D. F. (A)
James, A. V. (A)
Martin, A. R. (A)
Stiles, A. P. (M)
Thomasson, D. L. (A)

Spring Valley (NY-2)
Broussely, M. (A)
Cook, S. (M)
Faist, C. A. (A)
Handelman, R. B. (M)
Rosenbaum, J. (M)
Staniloff, S. A. (A)
Welan, I. (M)

Staatsburg (NY-MH-2)
Brockington, H. F. (M)
Norian, R. (M)
Shirk, R. W. (M)

Staten Island (NY-2)
Anderson, A. L. (A)
Arne, O. R. (M)
Auriema, R. C. (M)
Bellis, R. P. (M)
Bender, D. J. (M)
Bridge, J. A. (M)
Codd, B. E. (M)
Culicetto, P. J. (M)
De Martinis, J. R., Jr. (A)
De Rosa, H. M. (M)
Donovan, T. F. (A)
Droste, G. T. (M)
Embrechts, A. C. (SM)
Goretsky, L. M. (A)
Gunther, F. A. (SM)
Heins, J. L. (VA)
Klein, W. T. (A)
Kopecky, G. F. (M)
Koushouris, J. L. (SM)
Lala, A. (A)
La Penna, F. W. (A)
Levine, M. E. (SM)
Lewis, L. C. (SM)
Lidell, D. (A)
Lilenfeld, J. (M)
Loesch, C. A. (M)
Martenson, R. B. (A)
Mathewson, R. F. (A)
Miller, S. S. (M)
Panicello, T. B. (M)
Phillips, B., III (A)
Rabinowitz, M. (M)
Radgowski, S. P. (M)
Reeves, J. F. (M)
Reinhardt, N. J. (M)
Robinson, M. (A)
Rodwin, G. (SM)
Russell, L. H. (M)
Scian, H. (A)
Shanley, J. J. (A)
Smith, B. M. (M)
Taleporos, A. D. (M)
Turner, W. C. (A)
Weinberg, T. L. (A)
Weinmann, R. W. (A)
Zucker, S. M. (A)

Stittville (RU-1)
Sullenger, J. E., Jr. (M)

Stewart AFB (NY-MH-2)
Burritt, E. J. (A)
Johnson, C. L. (A)

Stewart Manor (LI-2)
Garrigan, T. E. (A)
Marvin, A. L. (M)
Norton, R. S. (SM)
Ruddy, W. R. (M)
Quell, C. H. (M)

Stone Ridge (NY-MH-2)
Darrell, R. D. (A)
Raymond, A. H., Jr. (M)

Stony Brook (LI-2)
Holmes, D. D. (M)
Medd, J. S. (SM)
Meranda, J. I. (M)

Suffern (NY-2)
Brendle, T. A. (A)
Frachtman, H. E. (M)

Sunnyside (LI-2)
Clemens, R. W. (A)
Fried, S. J. (M)
Majlinger, A. (M)
Stein, E. (M)
Young, J. M. (M)

Syosset (LI-2)
Abrams, C. F. (M)
Barlam, T. (A)
Barton, G. R. (SM)
Beardsworth, R. (A)
Berg, R. S. (A)
Bergman, S. I. (SM)
Briskin, H. B. (M)
Campbell, T. A. (A)
Caruthers, F. P. (M)
Casper, S. D. (SM)
Charlton, J. (M)
Clark, A. E., Jr. (A)
Dagavarian, H. O. (SM)
D'Avino, R. F. (A)
De Bolt, H. E. (A)
Dominy, J. F., Jr. (A)
Ely, P. C., Jr. (M)
Erickson, J. S. (SM)
Espenlaub, W. C. (M)
Fisch, J. (A)
Freeman, S. M. (A)
Freiman, M. J. (M)
Funk, R. W. (SM)
Graham, W. T. (M)
Greenleaf, F. D. (SM)
Hershkowitz, P. (M)
Hess, J. C., III (A)
Hodgson, R. (SM)
Jagoe, R. W. (M)
Kirschner, A., Jr. (A)
Leavitt, B. W. (SM)
Leslie, M. W. (SM)
Lovell, J. A. (M)
Lublin, I. (M)
Marcus, D. H. (M)
McKeown, P. J. (M)
Nittoli, A. J. (M)
Pace, F. P. (A)
Paulson, J. O. (M)
Perry, J. W. (M)
Raber, S. (M)
Rainey, E. A. (A)
Rein, C. A. (A)
Reisch, R. P. (M)
Schroeder, K. R. (M)
Sherman, E. H. (SM)
Smith, R. (A)
Sornberger, E. A. (A)
Statsinger, J. (SM)
Stella, R. (A)
Thomas, E. U. (SM)
Unruh, G. E. (M)
Wachspress, M. H. (M)
White, R. C. (M)
Wing, R. (A)
Wylie, T. F., Jr. (M)

Syracuse (SYR-1)
Abrahams, I. C. (SM)
Ackley, E. H. (M)
Adams, W. B. (A)
Allen, J. E. (SM)
Anderson, A. F. (A)
Anderson, C. T. (M)
Andrews, P. D. (SM)
Andrews, R. S. (A)
Apple, L. S. (M)
Aronson, C. A. (SM)
Ashcroft, D. L. (A)
Ashley, R. B. (A)
Bachman, C. H. (F)
Baker, W. R. G. (F)
Balabanian, N. (SM)
Baldwin, C. F. (SM)
Barker, W. M. (A)
Barlow, L. C. (A)
Barnhart, H. D. (M)
Barton, L. M. (SM)
Beall, R. B. (A)
Beard, C. E. (SM)
Benson, W. H., Jr. (M)
Bentivegna, M. J. (M)
Berlin, R. D. (A)
Bernkopf, W. C. (M)
Bernstein, S. S. (M)
Bessette, D. U. (M)
Best, R. C. (M)
Bias, F. J. (SM)
Bieging, G. P. (M)
Biele, R. J. (SM)
Biggs, J. P. (M)
Blumberg, D. (M)
Bogosta, W. (A)
Bok, R. F. (A)
Boop, J. H. (A)
Borski, G. K. (M)
Bradbury, B. (M)
Brain, A. E. (SM)
Brearley, H. C., Jr. (M)
Brinkman, J. D. (M)
Brown, J. S. (SM)
Buchta, J. C. (M)
Budell, L. A. (A)
Caffrey, T. P. (A)
Campbell, V. C. (SM)
Caputo, S. A. (A)
Carr, C. E. (A)
Carrillo, E. B. (M)
Casselberry, R. L. (M)
Chafaris, G. J. (M)
Chapman, J. K. (SM)
Cheng, D. K. (SM)
Chivers, C. C. (M)
Chow, W. F. (SM)
Cisler, M. C. (SM)
Clanton, E. A. (M)
Clark, P. B. (A)
Clement, R. R. (M)
Clinton, T. G. (M)
Clippard, R. W. (M)
Cochran, N. B. (M)
Collins, N. E. (M)
Conger, W. H. (A)
Conlber, G. A. (A)
Connors, T. J., Jr. (M)
Cook, C. L. (M)
Coykendall, J. C. (SM)
Crissey, K. L. (M)
Crosby, H. M. (SM)
Cross, K. B. (M)
Cuccarese, E. A. (A)
Culnan, D. E. (M)
Cummings, A. P. (M)
Cunningham, J. H. (M)
Dahl, F. J., Jr. (A)
Dalton, W. D. (A)
Davids, H. H. (SM)
Davis, E. L. (SM)
Davis, M. M., Jr. (SM)
De Dufour, W. F. (A)
Dee, P. L. (M)
Denny, J. H. (M)
Derr, R. J. (M)
Dewire, G. M. (M)
Dome, R. B. (F)
Dominguez, M. J. (A)
Drum, J. J. (M)
Earls, H. G. (SM)
Eckert, T. A. (M)
Egtvedt, M. D. (M)
Elcholzer, A. J. (M)
Embree, C. R. (M)
Evans, H. J. (SM)
Farrell, J. J. (F)
Field, B. (M)
Fields, H., Jr. (M)
Fisch, E. A. (A)
Fitzmorris, S. R. (M)
Fong, K. (M)
Foster, R. F. (SM)
Friedman, H. J. (M)
Fritschel, P. G. (A)
Frost, R. R. (M)
Gage, G. H., Jr. (M)
Galbraith, R. A. (SM)
Ganter, C. F. (M)
Garber, S. M., Jr. (A)
Gardner, D. R. (SM)
Garry, G. A. (M)
Geasey, R. E. (A)
Gernand, M. E. (M)
Ghandhi, S. K. (SM)
Gibbons, E. H., Jr. (M)
Gilchrist, B. (A)
Gildersleeve, R. E. (SM)
Glasford, G. M. (SM)
Goldman, S. (F)
Golubjatnikov, O. (M)
Good, W. E. (SM)
Gottlieb, E. (M)
Graeter, R. J. (M)
Graydon, A. (M)
Greenbaum, J. R. (M)
Greenhaigh, K. D. (M)
Gruenberg, H. (M)
Guckenheimer, E. (A)
Habermann, R., Jr. (SM)
Haedecke, A. D. (SM)
Hall, W. H. (SM)
Hamlett, J. G. (A)
Hanousek, R. A. (A)
Harrington, R. F. (M)
Harris, P. E. (M)
Healy, D. W., Jr. (M)
Healy, R. G. (M)
Heaton, H. T. (M)
Heckelman, R. W. (M)
Heidrich, A. J. (M)
Heil, H. (SM)
Hendrix, E. R. (M)
Herzog, E. E. (M)

Herzog, E. F. (SM)
Hicks, R. B. (M)
Hoefer, W. G. (M)
Hoeke, F. W. (M)
Hoeper, H. B. (A)
Hoffman, J. (M)
Holland, J. T., Jr. (M)
Holonyak, N., Jr. (A)
Holtz, R. E. (A)
Holtzclaw, B. L. (M)
Howells, P. W. (SM)
Hu, M-K. (SM)
Hu, Y-Y. S. (SM)
Hunter, N. E. (M)
Hurley, D. T. (M)
Hutchins, C. M. (M)
Hwang, Y. C. (A)
Intrator, A. M. (M)
Jeffers, W. M. (A)
Johnson, C. W. (M)
Johnson, R. A. (A)
Johnson, R. M. (M)
Johnson, S. O. (M)
Jones, R. L. (M)
Jost, J. W., Jr. (A)
Jureller, J. F. (M)
Jutila, S. T. (M)
Kahal, R. (SM)
Kantor, S. D. (A)
Katz, H. W. (M)
Keister, J. E. (F)
Kelly, G. M. (A)
Kenefake, E. W. (SM)
Kennedy, J. A. (M)
Kent, G. (M)
Kent, P. (M)
Kenyon, S. W. (A)
Kinzie, M. E. (M)
Kipp, K. J. (A)
Kladke, W. F., Jr. (M)
Klapach, P. (A)
Kleiner, S. (A)
Kletsky, E. J. (M)
Knickerbocker, L., Jr. (M)
Knox, R. L. (A)
Korolenko, A. V. (A)
Kosso, E. V. (M)
Krentel, W. D. (M)
Kunz, L. C., Jr. (M)
Latker, A. C. (M)
Lazar, H. (M)
Le Clair, J. E. (M)
Lederer, E. H. (SM)
Leeder, H. A., Jr. (M)
Leeds, L. M. (F)
Leinweber, L. F. (M)
Lepage, W. R. (SM)
Lesk, I. A. (M)
Levandosky, J. R. (A)
Levitt, R. S. (M)
Lightstone, J. B. (M)
Ligorner, M. M. (M)
Linker, J. B., Jr. (M)
Lipnitz, J. W. (A)
Lippert, H. B. (M)
Lombard, W. A. (A)
Longacre, A. (SM)
Lothes, R. N. (M)
Lucas, V. M. (M)
Lynch, I. E. (M)
Lyness, H. J. (M)
Lynn, L. H. (SM)
Lytel, A. (M)
Mac Leod, W. R. (M)
Mader, G. E. (M)
Maier, L. C., Jr. (M)
Marquardt, R. A. (M)
Martin, H. R. (A)
Marvin, H. B. (F)
Masnik, M., Jr. (M)
Mather, D. L. (M)
Maxwell, D. E. (SM)
McConoughey, S. R. (M)
Merrigan, C. F. (M)
Merrithew, R. F. (M)
Meyer, B. H. (M)
Michaelson, W. (A)
Mikaelian, M. (M)
Miller, H. J., Jr. (M)
Millman, G. H. (SM)
Montella, D. T. (M)
Mooney, R. M. (M)
Morlock, W. J. (F)
Muir, D. A. (SM)
Mullen, E. B. (M)
Mullin, L. A. (SM)
Namordi, M. (M)
Neelands, L. J. (M)
Noble, M. L. (A)
Nonnekens, A. C. (SM)
Norton, C. T. (SM)
Oberrender, G. F., Jr. (M)
Ocko, R. (SM)
Opheim, L. E. (A)
Ovesis, M. V. (A)
Paganelli, T. J. (SM)
Page, E. R. (A)
Pardee, O. O'M. (M)
Passarelli, W. F. (M)
Penn, W. A. (M)
Perreault, D. A. (M)
Peterson, E. H., Jr. (M)
Peterson, E. O. (M)
Peterson, G. R. (SM)
Phillips, J. M., Jr. (A)
Pinkerton, D. C. (SM)
Polisse, L. F. (M)
Poppe, J. R. (M)
Powell, F. E., Jr. (A)
Priest, C. A. (F)
Prosser, A. M. (A)
Putman, R. E. (M)
Pyle, S. H. (M)
Quinn, H. H., Jr. (M)
Raillard, H. (M)
Randall, D. P. (SM)
Reale, J. D. (A)
Reibert, F. A. (M)
Reilly, L. W. (A)
Reynolds, F. M. (M)
Reza, F. (M)
Richardson, R. L. (A)
Rives, T. C. (F)
Roberts, E. G., Jr. (SM)
Robinson, E. L. (A)
Roelofs, S. R. (A)

Roesch, R. G. (A)
Romey, L. M. (M)
Rose, G. D., Jr. (M)
Rosenblatt, A. (A)
Rubin, I. E. (M)
Rush, S. (SM)
Sadowsky, S. S. (M)
Salley, E. J. (A)
Schick, N. E. (SM)
Schiro, A. R. (M)
Schlecht, M. F. (M)
Schultz, R. E. (SM)
Schupp, G. A., Jr. (SM)
Selig, T. R. (M)
Sensinger, W. A. (M)
Seslu, S. (M)
Shaw, C. A. (M)
Shepherd, N. H. (SM)
Shepp, R. E. (M)
Shetler, R. L. (M)
Shuart, O. H. (M)
Silverman, B. (M)
Skovholt, R. L. (M)
Sirrine, R. C. (M)
Skeels, H. V. (A)
Slevin, R. F. (M)
Smith, B. J. (M)
Smith, L. D. (A)
Sparks, J. E. (M)
Stack, J. F. (A)
Starkey, G. M. (M)
Stearns, C. F. (A)
Stearns, H. F. (M)
Stephey, H. M. (M)
Stern, A. P. (SM)
Stone, E. W. (A)
Stone, R. H., Jr. (M)
Stone, W. R. (M)
Stonig, J. W. (A)
Sullivan, H. M. (SM)
Sullivan, P. E. (M)
Sullivan, R. M. (M)
Suran, J. J. (SM)
Swank, W. B. (M)
Swanson, R. W. (M)
Swedlund, L. E. (SM)
Sylvan, T. P. (M)
Taira, W. C. (M)
Taylor, J. M. (M)
Teich, P. J. (M)
Thomas, W. P., Jr. (M)
Thor, R. C. (M)
Thornton, R. D. (M)
Todd, C. D. (M)
Towison, H. G. (SM)
Tymann, T. J. (A)
Vandeven, D. W. (M)
Villeneuve, A. T. (A)
Wakefield, W. F. (M)
Wayne, C. R. (M)
Webb, R. S. (M)
Wechsler, L. D. (M)
Welch, R. F. (M)
Weir, I. R. (F)
Wellner, F. R. (SM)
West, A. A. (M)
Whistler, W. T. (M)
White, P. K. (M)
Wild, A. F. (A)
Williamson, R. H. (F)
Winfield, K. C. (A)
Wingrove, E. R., Jr. (M)
Witkowski, R. J. (SM)
Witthun, H. D. (M)
Woodward, G. F. (SM)
Wright, T. C. (M)
Wright, W. E. (A)
Wyrick, R. F. (M)
Xenakis, S. N. (A)
Yamaoka, J. H. (M)
Yerian, C. S. (SM)
Zecher, R. O. (M)
Zellmer, L. R. (M)
Zierdt, C. H., Jr. (SM)
Zimmer, C. R. (M)

Tappan (NY-2)
Petrakos, N. (M)
Ulrich, E. C. W. (A)
Yamasaki, A. A. (M)

Tarrytown (NY-W-2)
Bernstein, S. (A)
Bevan, R. K. (A)
Cartoon, G. P. (A)
Drubin, M. (A)
Edwards, A., Jr. (A)
Feile, R. H. (A)
Gage, L. S. (M)
Kiseda, J. R. (M)
Minich, C. H. (A)
Miccioli, A. A. (A)
Norton, J. M. (M)
Rae, J. R. (SM)
Sumoski, T. (M)
Weinstein, H. N. (M)

Thornwood (NY-W-2)
Belcher, R. D. (A)
Burfeindt, K. L. (A)
Burns, G. D. (A)
Gordon, R. S. (M)
Hall, H. D. (A)
Levine, R. J. (M)
Matsuoka, M. E. (M)
Orth, F. (M)
Washburn, C. A. (M)

Tillson (NY-MH-2)
Hampshire, J. R. (M)

Tioga Center (BING-1)
Hansen, R. R. (M)

Tonawanda (BN-1)
Babcock, L. F. (M)
Baumler, F. R. (M)
Blumenthal, L. J. (M)
Bondy, M. F. (M)
Bossler, F. B. (M)
Calhoun, S. H. (A)
Carlson, R. E. (M)
Chipchak, J. S. (M)
Copper, G. S. (M)
Crooks, R. G. (M)
Gordy, E. (A)
Green, V. H. (M)
Groth, L. H. (M)
Harpster, W. T. (SM)
Janushevich, A. (M)
Koons, E. E. (M)
Koval, E. R. (M)
Krowl, G. W. (M)
Lepley, R. C. (SM)
Mahany, T. D., Jr. (M)
Mennen, H. (M)
Morrison, H. V. (M)
Noye, P. R. (M)
Plicato, W. L. (A)
Popovich, B. (SM)
Price, E. L., Jr. (SM)
Reese, J. S. (M)
Schlichter, E. S. (A)
Shuart, J. F. (M)
Smolarek, E. J. (A)
Spoon, G. E. (M)
Torode, S. W. (A)
Toth, G. L. (A)
Walbesser, W. J. (M)
Wasserman, B. (M)
Wixson, E. S. (M)
Zehr, R. M. (M)

Troy (SCH-1)
Babits, V. A. (SM)
Bashford, H. L. (M)
Beers, R. F. (SM)
Belsky, M. L. (A)
Burger, R. W. (M)
Coleman, J. T. (M)
Close, C. M. (M)
Harris, H. D. (M)
Kitsopoulos, S. C. (M)
Kunz, C. J., Jr. (M)
Love, A. L. (M)
Mac Gregor, W. (M)
Martin, T. A. (M)
Matthews, E. W., Jr. (M)
Mortenson, K. E. (SM)
Norvik, F. J. (SM)
Quine, J. P. (A)
Servis, W. A. (A)

Trumansberg (ITH-1)
Beers, R. B. (M)
Clavier, P. A. (SM)

Tuckahoe (NY-W-2)
Austin, K. B. (M)
Avakian, E. A. (M)
Bollari, L. (A)
Collison, P. B. (SM)
Drew, C. E. (SM)
Dunn, C. J. (A)
Gallios, G. C. (M)
Grillo, J. (SM)
Jurafsky, A. J. (M)
King, K. L. (SM)
Lundgren, P. R. (A)
Nerenberg, R. I. (M)
Sarahan, B. L. (M)
Schimmel, H. (A)
Walsh, J. V. (M)
Wilson, R. F. (M)

Union (BING-1)
Bachman, D. F. (M)
Morgan, W. A. (M)

Uniondale (LI-2)
Aha, R. S. (M)
Bass, H. W. (M)
Biagiotti, R. V. (M)
Brand, R. (A)
Brenner, M. (M)
Delligatti, S. F. (M)
England, J. W. (A)
Gould, R. V. (SM)
Keen, H. S. (M)
Levinson, S. (M)
Mann, A. (M)
Norris, C. R. (M)
Schiff, R. M. (A)
Schmidt, J. G. (M)
Sumrell, F. N. (SM)

Upton (LI-2)
Adams, R. R. (A)
Bittner, J. W. (A)
Blewett, J. P. (SM)
Chase, R. L. (M)
Cowan, F. P. (M)
Gerrity, R. J. (M)
Higinbotham, W. A. (SM)
Kiesling, J. D. (A)
Kuper, J. B. H. (F)
Plotkin, M. (SM)
Rankowitz, S. (M)
Rheaume, R. H. (M)
Spinrad, R. J. (M)
Tucker, S. M. (M)

Utica (RU-1)
Ainsworth, M. G. (A)
Antonucci, P. (M)
Augustine, J. A. (M)
Baran, A. S. (M)
Baris, A. J. (M)
Barker, J. (SM)
Barrick, W. E. (M)
Beams, C. E. (M)
Behrens, A. D. (A)
Benvenga, F. T. (M)
Bickelhaupt, M. H., Jr. (M)
Blum, H. (A)
Bonin, G. C. (M)
Brown, R. J. (A)
Buckman, A. R. (M)
Buckman, S. L. (A)
Campbell, W. J. (M)
Carlson, W. A. (A)
Civin, C. J. (M)
Colin, L. (M)
Comer, J. L. (M)
Conring, J. J. (A)
Cottrell, C. J. (M)
Demick, D. (A)
Doherty, D. T. (M)
Dondero, R. L. (M)
Dover, B. M. (A)
Dowdell, J. T. (A)
Doyle, C. M. (A)
Eakin, K. G. (SM)
Ellis, H. J., Jr. (M)
Everts, W. J. (M)
Feldman, I. (A)
Francis, E. L. (M)
Glaser, G. J. (M)
Godwin, C. J., Jr. (M)
Green, P. I. (A)
Gubbins, L. J. (A)
Haushalter, C. H. (SM)
Hiatt, W. R. (M)
Hogel, A. (M)
Holstead, A. J. (M)
Homan, R. E. (M)
Hudgens, J. E. D. (M)
Hurlburt, R. C. (A)
Husk, W. J. (M)
Hyatt, T. H. (M)
Hynes, W. J. (M)
Jeanne, C. E. (A)
Johnson, J. D. (A)
Johnson, W. R. (M)
Jones, D. W. (M)
Kane, A. W. (A)
Keats, M. B. (M)
Kelca, M. M. (M)
Kelley, G. J. (M)
Kinsley, R. B. (A)
Klion, J. (M)
Konig, H. F. (A)
Korbin, A. D. (M)
Krajewski, S. J. (A)
Krassowsky, S. (M)
Kroenert, J. T. (SM)
Krueger, A. R. (M)
Layton, D. T., Jr. (A)
Lemon, S. G. (A)
Lilv, H. H. (A)
Loudermilch, R. C. (M)
Maroulis, N. J. (M)
Maynard, A. F. (SM)
McCabe, L. E. (M)
McComb, D. S. (M)
Miller, R. L. (A)
Moldoff, S. (M)
Murakami, P. K. (A)
North, F. J. (A)
Oot, R. F. (A)
Panasiewicz, J. J. (M)
Pearlman, J. (M)
Pelerossi, A. F. (M)
Pelowski, E. H. (M)
Peterpaul, C. A. (M)
Philip, R. M. (M)
Phillips, J. N. (SM)
Pietrafesa, D. (A)
Plehn, J. G. (SM)
Potter, H. C. (A)
Puopolo, J. W. (M)
Quinn, W. M., Jr. (SM)
Rehmann, W. H. (M)
Reiner, J. (M)
Romanelli, P. A. (M)
Rosenberg, M. W. (A)
Ross, P. C. (SM)
Ross, R. J. (A)
Rothmel, B. J. (M)
Rugari, A. D. (M)
Rushton, W. C. (A)
Sallus, G. M. (A)
Satinoff, D. (A)
Schiffman, M. (M)
Seideman, S. (M)
Siegel, G. H. (SM)
Smith, A. E. (M)
Smith, M. J. (M)
Snyder, D. D. (A)
Spear, E. D. (SM)
Sperling, L. (M)
Still, E. W. (A)
Stubbles, J. E. (M)
Suntop, M. A. (M)
Taylor, D. H. (M)
Thomas, K. W. (M)
Tibbitts, J. R. (M)
Tullis, B. C. (A)
Uren, D. E. (A)
Uryniak, A. J. (A)
Wagner, R. A. (SM)
Walls, G. R. (M)
Washington, R. W. (M)
Webb, J. K. (M)
Weigel, R. L. (M)
Wendt, R. F. (A)
Werner, W. F. (M)
Willard, C. H. (M)
Williams, H. A., Jr. (M)
Wilson, D. E. (M)
Wolfe, G. M. (SM)
Worcester, K. P. (SM)
Yarbrough, S. L. (SM)
Young, J. S. (M)
Zawada, J. D. (A)
Zielinski, C. A. (M)
Zito, P. J. (A)

Valls Gate (NY-MH-2)
Simek, R. L. (A)

Valhalla (NY-W-2)
Dworetzky, L. H. (SM)
Hodapp, E. W., Jr. (A)
MacAdam, W. K. (SM)
Parr, A. F. W. (M)

Valley Stream (LI-2)
Barnell, E. J. (A)
Case, J. (A)
Cooney, F. A. (M)
Davis, S. (M)
Farkas, R. D. (A)
Ferrara, J. D. (M)
Agress, M. C. (M)
Albanese, V. J. (SM)
Bahnsen, R. J. (A)
Freeman, P. S. (M)
Gangale, F. S. (A)
Goodstein, J. (M)
Griesan, G. F. (M)
Haase, W. E. (A)
Holmes, R. P. (M)
Jackson, D. E. (M)
Jarva, W. (A)
Jeffreys, F. R. (M)
Kappauf, E. F. (M)
Kern, J. R. (A)
King, L. H. (SM)
Lidz, S. (SM)
Lo Cascio, G. P. (M)
Magenheim, B. (M)
Mancke, R. B. (M)
Mansolillo, D. C. (M)
Mauser, C. A. (A)
Meixner, V. G. (A)
Miller, G. (A)
Minneman, M. J. (SM)
Morgenstern, A. (A)
Peyser, W. P. (SM)
Piheil, L. J. (A)
Platt, S. (M)
Redding, J. D., Jr. (A)
Rokoss, A. J. (A)
Rothenberg, N. (A)
Sandler, P. L. (A)
Schaaf, W. K. (A)
Schlang, A. (M)
Schwarz, H. E. (A)
Shaw, W. J. (M)
Wesabecher, F. W. (M)
Woerner, R. G. (A)
Woodbury, W. F. (SM)
Ziegler, G. W. (A)

Verbank (NY-MH-2)
Mitta, L. A. (M)

Vernon (RU-1)
Boothroyd, G. A. (M)
Butler, H. E. (M)
Francis, H. G. (SM)

Verona (RU-1)
Miller, T. A. (M)

Vestal (BING-1)
Adams, L. R. (M)
Aldrich, D. H. (M)
Baron, R. G. (A)
Battison, A. H. (M)
Bertelsen, B. I. (A)
Blossom, E. L. (M)
Bowen, E. C. (M)
Boylan, R. P. (M)
Breedlove, R. H. (M)
Bussey, R. L. (M)
Calkins, G. T. (M)
Carpenter, L. C. (M)
Coleman, M. J. (M)
Cooper, A. E. (M)
Cooper, J. V. B. (M)
Daykin, D. R. (M)
Droege, F. J. (A)
Farr, L. E., Jr. (A)
Greene, J. E. (M)
Koranye, T. D. (M)
Kuljian, R. L. (M)
Lawson, E. R. (M)
Leimet, J. J. (A)
Lloyd, J. W., Jr. (A)
Lorscheider, E. B. (M)
Lozier, W. B., Jr. (A)
MacLeod, D. S. (A)
Martin, C. L. (M)
McDermid, W. L. (M)
Minnick, A. W. (M)
Nuss, H. C. E. (A)
Oates, K. H. (A)
Pape, E. W., Jr. (A)
Porterfield, F. B. (M)
Poupard, R. E. (M)
Pratt, W. H. (M)
Purcell, J. A. (A)
Rogers, F. L., Jr. (M)
Rogers, M. D. (M)
Schroeder, E. N. (SM)
Summers, W. P. (M)
Sweet, R. E. (A)
Sykas, A. J. (M)
Treat, L. S., Jr. (A)
Tutty, J. E. (M)
Vacca, L. N. (M)
Weisser, D. R. (A)
Wright, W. F. (M)
Zusi, F. C. (M)

Victor (ROC-1)
Ashbaugh, R. R. (M)
Perkins, J. C., Jr. (M)

Walden (NY-MH-2)
Moiseau, C. J. (A)

Wallkill (NY-MH-2)
Parker, R. G. (A)

Wantagh (LI-2)
Ahman, A. J. (A)
Alter, J. (SM)
Arndt, W. R. (SM)
Bauer, W. C. (M)
Behringer, N. C. (A)
Bloom, L. (M)
Breese, H. R. (A)
Breese, M. E. (M)
Brown, C. J. (M)
Burt, R. F. (M)
Caligiuri, J. F. (M)
De Cesare, J. F., Jr. (A)
Pauteck, W. S., Jr. (M)
Feingold, F. A. (M)
Gibbs, E. D. (M)
Giesecke, O. W. (SM)
Greene, J. C. (M)
Greene, S. J. (M)
Gutman, J. H. (A)
Hagler, L. H. (A)
Herring, F. G. (M)
Hickman, W. C. (A)
Holcombe, P. G. (M)
Horton, G. L. (M)
Hughes, J. C. (M)
Jacobson, R. S. (SM)
Jauck, R. H. (SM)
Kesney, E. S. (A)
Leib, K. G. (A)
Losee, W. B., Jr. (A)
McManus, J. T. (A)
Mills, N. B. (M)
Nelson, R. P. (M)
Orth, C. A. (M)

Osder, S. S. (M)
Osterndorf, J. F. (A)
Pate, G. W., Jr. (A)
Pernick, H. L. (M)
Posner, S. (M)
Price, C. R. (A)
Rawitz, H. (M)
Riker, W. E. (M)
Rosen, A. (A)
Sachar, H. N. (M)
Salzberg, A. (A)
Sarfaty, J. (A)
Schleher, D. C. (A)
Schroeder, R. P. (M)
Seckler, P. J. A. (A)
Sferrazza, P. J. (M)
Shulman, A. R. (M)
Stateman, M. J. (SM)
Steen, D. R. (M)
Sunder, J. E. (M)
Strauss, A. (M)
Vigliotta, A. P. (SM)
Vuono, R. A. (A)
Ward, W. P. (M)
Weinstein, M. (M)
Weiss, L. M. (M)
Wolfson, T. M. (M)

Wappingers Falls (NY-MH-2)
Agusta, B. (M)
Beetham, J. P. (M)
Breault, N. A. (M)
Brodd, W. D. (A)
Buelow, F. K. (M)
Bullard, R. L. (A)
Butler, S. A. (M)
Carlson, J. W. (M)
Christian, J. L. (M)
Councill, E. D. (M)
Cullen, J. W. (M)
Desautels, P. M. (M)
Di Marco, A. F. (M)
Donohue, D. C. (A)
Ewing, J. E. (A)
Feldler, J. (M)
Fernekees, J. E. (M)
Flynn, M. J. (M)
Frese, S. J., Jr. (A)
Gaffney, (M)
Geisler, H. J. (M)
Graff, W. S. (M)
Groce, D. C. (M)
Grossnickle, J. R. (M)
Gutwin, O. A. (M)
Headrick, L. L. (A)
Hipp, J. A. (M)
Holmes, F. L., Jr. (M)
Howard, P. H. (A)
Johnson, J. D. (M)
Keller, R. E. L. (M)
Kerr, G. L. (M)
Lear, E. F. (A)
Lee, H-T. (M)
Ling, E. W. (M)
Marshall, M. R. (M)
Medla, E. (M)
Miller, E. W. (M)
Millstein, S. (A)
Monroe, G. R. (A)
Moran, W. R., Jr. (A)
Moyer, J. J. (M)
Murphy, J. J. (M)
Nervik, A. E. (A)
Nick, H. H. (A)
O'Brien, H. A. (M)
Ohlhorst, W. R. (M)
Patrick, R. M. (M)
Paul, A. J., Jr. (A)
Platz, E. F. (M)
Plonsky, A. T. (M)
Preiss, R. J. (A)
Richards, R. K. (M)
Roberts, W. (M)
Robins, R. D. (A)
Rudy, G. J. (M)
Russell, R. A. (A)
Schaal, W. C. (A)
Schoedel, R. A. (M)
Seimes, M. S. (A)
Skwiertz, R. J. (M)
Snyder, J. E. (M)
Stallard, L. B. (M)
Sumner, M. (M)
Unger, G. G. (M)
Warner, J. H., III (A)
Widmar, J. H. (M)
Wild, H. K. (M)
Winger, W. D. (A)
Wong, S. Y. (M)

Warners (SYR-1)
Walsh, L. F. (A)

Waterford (SCH-1)
Michon, G. J. (A)

Waterloo (ROC-1)
Allen, R. J. (A)

Water Mill (LI-2)
Delbert, C. R. (M)
Luke, R. O. (M)

Watertown (SYR-1)
Vaughan, J. A. (M)

Waterville (RU-1)
Carr, E. Q. (M)
Seller, R. T. (A)

Watervliet (SCH-1)
Lavoo, N. (M)
McCarron, D. J. (M)

Watkins Glen (ELM-C-1)
Welton, D. A. (M)

Waverly (BING-1)
Long, R. E. (M)
Owen, F. D. (M)

Webster (ROC-1)
Beetz, H. J. (M)
Coleton, J. W. (M)
Fox, R. M. (M)
Hattersley, T. E., Jr. (M)
Hedrick, R. L. (M)
King, P. F. (A)
Livingstone, J. K. (M)
Matteson, R. G. (M)
Ozone, K. (SM)
Piotraschke, C. F. (M)
Proctor, T. (M)
Reinke, R. V. (M)
Sienkiewicz, A. H. (A)
Styner, T. L. (A)
Wheeler, J. L. (M)

West Babylon (LI-2)
D'Angelo, H. (M)
McMullin, R. E. (M)

Westhampton Beach (LI-2)
Fowler, R. H. (M)
Hogston, C. R. (A)

West Branch (RU-1)
Ricketts, P. E. (SM)

Westbury (LI-2)
Abajian, H. B. (M)
Adler, W. (M)
Barbaccia, A. J. (A)
Becker, A. (M)
Beley, E. G., Jr. (A)
Bergdahl, L. A. (A)
Berkoff, S. (M)
Borken, A. (A)
Cataldo, T. R. (M)
Cherry, E. P., Jr. (M)
Chin, J. H. S. (A)
Cohen, S. B. (M)
Collins, J. F. (M)
Dorne, A. (M)
Douglas, W. S. (A)
Ellis, P. H. (SM)
Esposito, J. A. (A)
Friedman, J. (A)
Geyer, G. E. (M)
Gitlin, S. A. (M)
Gittleman, R. (A)
Gledhill, A. P. (M)
Glixon, H. R. (A)
Graber, L. J. (SM)
Haagens, D. (M)
Harjes, F. W. (A)
Hellmann, R. K. (M)
Hoffman, G. (SM)
Hoffman, H. L. (M)
Kelleher, R. L. (SM)
Kenny, J. A. (SM)
Kritz, J. (M)
Levine, S. W. (SM)
Liguori, M. A. (A)
Logan, R. W. (M)
Luce, P. P. (A)
Mankin, A. H. (M)
Marston, R. S. (M)
Martines, L. T. (M)
Mesch, R. M. (M)
Moscarello, M. A. (SM)
Napolin, S. (A)
Oldmixon, R. (A)
O'Meara, T. J. (M)
Pinkham, G. E. (M)
Price, R. C. (SM)
Proskauer, R. (M)
Richards, G. F. (M)
Rickert, H. H. (SM)
Rogich, S. G. (M)
Rostky, G. H. (M)
Rush, S. (M)
Rustad, A. C. (SM)
Savet, P. H. (A)
Schuhlein, C. M. (M)
Schumacker, A. L. (VA)
Schwiebert, H. (A)
Sege, T. D. (M)
Serice, D. S. (A)
Shostak, R. B. (SM)
Simon, J. M. (M)
Smith, H. M. (A)
Speakman, E. A. (F)
Stein, D. B. (A)
Stitch, M. (SM)
Tate, R. (A)
Tichy, B. W. (M)
Troop, J. (A)
Truhlar, G. (M)
Volpe, C. D. (M)
Walcule, D. (M)
Waller, W. E. (M)
White, J. R. (M)
Whitford, J. R. (M)
Wilson, L. B. (M)
Wingen, J. H. (A)
Winson, P. (A)
Witt, C. J. (M)

West Endicott (BING-1)
Taub, S. (M)

Westernville (RU-1)
Clawson, G. T. (A)
Mackey, C. L. (M)

West Hempstead (LI-2)
Aveney, R. J. (M)
Bifano, V. J. (A)
Buck, J. D. (A)
Cohen, H. (A)
Cohen, N. L. (M)
Dean, M. A. (M)
Erdheim, W. (M)
Fairweather, R. W. (M)
Karasz, J. (M)
Lammer, L. H. (M)
Levine, H. A. (SM)
Lorch, J. (M)
Miller, R. A. (M)
Multari, A. M. (M)
Saffitz, I. M. (M)
Seisler, M. (M)
Shnitkin, H. (M)
Thiede, F. C. W. (VA)
Voelpel, J. (A)
Weintraub, I. A. (M)
Westman, H. P. (SM)

West Hurley (NY-MH-2)
Bading, C. E. (M)

West Islip (LI-2)
Bell, R. W. (M)
Bushor, W. E. (M)
Collock, H. (A)
Damast, M. A. (M)
Eglit, W. F. (M)
Gager, C. H. (A)
Hermida, R. J. (A)
Russo, A. J. (A)
Schecker, E. J. (A)
Stenecker, R. G. (M)

West Monroe (SYR-1)
Fiet, J. H., III (A)

West Nyack (NY-2)
Wolff, J. H. (A)

West Point (NY-MH-2)
Cutler, E. C., Jr. (A)
Friend, H. C. (A)
Gillette, E. C., Jr. (M)
Monahan, L. P., Jr. (M)
Strohm, W. E. (M)

West Seneca (BN-1)
Nowicki, J. J. (A)

White Plains (NY-W-2)
Asch, B. (A)
Aslan, E. E. (M)
Atlee, R. V. (M)
Bernardi, A. R. (A)
Blocker, T. B. (M)
Bloom, W. E. (A)
Bolsey, E. J. (A)
Borden, E. D. (A)
Brailey, M. L. (M)
Brown, R. L. (M)
Cohn, E. (A)
Coles, G. F. (A)
Cuccia, J. F. (M)
Deas, J. M. (M)
Enoch, D. G. (A)
Fearing, J. L. (VA)
Flower, R. A. (M)
Friedensohn, G. (A)
Gaffney, J. E., Jr. (M)
Gano, A. S. (SM)
Gazzigli, J. J. (A)
Gilbert, J. (M)
Glancy, R. C., Jr. (SM)
Golec, E. J. (M)
Gottlieb, G. J. (M)
Gresko, J. J. (M)
Gronner, A. (SM)
Hackett, A. J. (M)
Halpern, W. (M)
Harris, E. R. (M)
Heisler, M. M. (A)
Higgins, R. W. (A)
Horton, T. R. (M)
Houle, L. A. (M)
Ikeda, T. (A)
Jenkins, H. C. (M)
Kalman, R. E. (A)
Kaye, H. W. (M)
Lake, J. R. (M)
Lambert, F. C. (A)
Lebid, J. (A)
Lewis, J. R. (M)
Lisk, H. H. (M)
Lombardi, B. J. (A)
MacDonald, L. D. (SM)
Merritt, N. A. (M)
Metcalfe, D. (SM)
Mico, G. (A)
Millman, J. (F)
Mountain, J. D. (M)
Oess, F. G. (M)
Pastorisa, H. G., Jr. (M)
Preston, F. S. (SM)
Reiner, S. (M)
Sachs, H. L. (M)
Sandock, J. (A)
Sansevero, V. J. (A)
Scheiner, M. L. (M)
Schleicher, M. (A)
Shaw, D. B. (SM)
Sulds, I. P. (A)
Spitalny, A. (M)
Strysko, W. J. (A)
Warnick, G. H. (M)
Yadoff, O. (SM)
Ziserman, M. (SM)

Whitesboro (RU-1)
Benman, E. J. (SM)
Billington, C. H. (M)
Bunger, J. W. (M)
Davis, D. M. (M)
Diab, M. A. (M)
Edgett, R. S. (M)
Erwin, R. L., Jr. (M)
Faulkenberry, B. K. (M)
Gaffney, R. E. (SM)
Giles, J. W. (SM)
Girismen, M. F. (A)
Grimm, R. S. (M)
Hannell, F. D. (M)
Hartnett, G. C. (M)
Hauge, H. R. (M)
Kenyon, H. P., Jr. (M)
Ketchum, P. M. (SM)
Kulmus, R. L. (M)
Lanzara, E. M. (M)
Levesque, R. W. (M)
Lutze, R. J. (SM)
Mills, J. B. (M)
Moffat, D. (M)
Orear, E. R. (SM)
Pashby, C. A. (M)
Pfefer, B. L. (SM)
Piepho, J. B. (A)
Power, H. J. (A)
Riddle, P. (A)
Schaaf, M. W. (A)
Schatz, F. W. (SM)
Schultz, J. L. (SM)
Sill, D. B. (M)
Spalding, J. F. (M)
Stark, J. A. (M)
Steel, J. W. (M)
Stitt, R. P. (M)
White, R. L. (A)
Winn, O. H. (SM)
Withington, A. (M)

Whitestone (LI-2)
Abruzzi, P. W. (M)
Ballinger, R. F. (M)
Chun, B. (M)
Crowhurst, N. H. (SM)
Dunefsky, M. (M)
Franchina, M. A. (A)
Greenberg, E. (M)
Greene, I. (A)
Hunter, E. M. (M)
Nelson, E. G. (A)
O'Connell, T. P. (A)
O'Toole, C. E. (SM)
Parker, H. L. (A)
Pedowicz, J. M. (M)
Pelner, N. (M)
Piller, S. E. (M)
Pokorny, J. S. (M)
Poliak, F. (M)
Pomerantz, M. (M)
Rotker, W. (A)
Rubin, W. L. (SM)
Sachs, M. (M)
Sandler, H. (M)
Satz, R. G. (M)
Schachter, J. (M)
Schadelbauer, B. F. (M)
Schaja, H. B. (M)
Shanahan, W. J. (M)
Smith, J. W. (SM)
Sobel, I. J. (A)
Steckler, I. (A)
Vogt, J. J. (M)
Von Kunits, P. (M)
Wappler, A. C. (A)
Weida, R. L. (M)

Whitney Point (BING-1)
Read, L. P., Jr. (M)

Williamsville (BN-1)
Aines, F. G. (M)
Becker, H. D. (A)
Bergerson, C. W. (A)
Black, P. B. (SM)
Cleary, R. E. (M)
Corp, D. E. (M)
Fryer, W. D. (M)
Giori, F. A. (M)
Hart, W. E. (M)
Hmelar, S. L. (M)
Hunting, R. A. (A)
Mandale, W. R. (M)
Maylott, C. F. (SM)
Maynard, H. M. (M)
Novo, R. B. (M)
Pelton, F. M. (M)
Pifer, M. J. (SM)
Sears, R. A. (M)
Snyder, W. W. (SM)
Tona, C. J. (M)
Viburi, A. L. (M)
Wood, F. S. (M)

Williston Park (LI-2)
Fiattau, T. (A)
Gillespie, C. H., Jr. (A)
Hopkins, G. C. (M)
Lerch, Q. A., Jr. (M)
Losow, H. C. (M)
Perkowski, T. F. (M)
Ploss, A. G. (M)
Schaetzl, R. J. (A)
Weidle, C. M., Jr. (A)
Zaklad, S. (A)
Zwick, G. (M)

Wilmington (SCH-1)
Preston, H. D. (A)

Windsor (BING-1)
Nielsen, R. S. (A)

Woodbury (LI-2)
Hanulec, J. D. (A)
Henrich, W. H. (SM)

Woodhaven (LI-2)
De Size, L. K. (M)
Jacobs, F. (SM)
Kurz, F. A. (M)
Reitlinger, A. (M)
Sloan, R. R. (M)
Sweetland, J. G. (M)
Winter, D. W. (A)
Wolber, W. O. (M)

Woodmere (LI-2)
Bach, H. M. (M)
Cohen, A. L. (M)
Crystal, F. H. (A)
Kahgan, J. J. (M)
Ozarin, S. J. (A)
Zweifler, I. (M)

Woodside (LI-2)
Berger, L. M. (M)
Cabot, J. H. (A)
Carey, E. D. (A)
Culver, A. R. (A)
Depierro, J. M. (M)
Digenova, F. (A)
Fitzgerald, B. P. (M)
Gautherin, G. A. (M)
Johnston, W. F. (A)
Julich, H. (M)
Keith, W. S. (M)
Koletsky, H. (M)
Larkin, J. P. (M)
Lillie, M. I. (M)
Maisto, N. S. (M)
Mohr, R. J. (M)
Newman, S. (M)
O'Sullivan, J. K. (M)
Parzen, B. (SM)
Perle, R. C. (M)
Pocze, T. (M)
Rafferty, J. J. (M)
Reese, R. E. (A)
Reuman, W. H. (A)
Ricci, T. M. (A)
Rowney, E. A. (A)
Tucker, A. G. (A)
Walsh, W. J. (A)
Wetzler, C. E. (M)

Woodstock (NY-MH-2)
Fritz, F. J. (M)
Gray, R. G. (M)
Heck, N. A. (M)
Jacob, W. P. (M)
Kutcher, M. M. (M)
McCarter, C. B. (M)
Mirick, H. L., Jr. (A)
Rowe, J. B., Sr. (M)
Seelbach, W. C. (M)
Shaw, F. E. (A)
Spencer, D. L. (M)
Surman, G. R. (M)
Thurston, P. H. (A)
Van Rijn, J. C. (SM)

Wyandanch (LI-2)
Kishinsky, L. S. (M)
Miller, J. Z., IV (A)
Totah, E. J. (M)

Yonkers (NY-W-2)
Altieri, J. R. (M)
Arbuthnott, J., Jr. (A)
Armani, L. J. (M)
Avrutik, R. F. (M)
Balletta, A. G. (A)
Bartlett, S. C. (SM)
Bergen, A. R. (A)
Bernardi, U. A. (M)
Bianco, A. A. (M)
Bodin, M. (M)
Bols, R. A. (M)
Buchalter, M. (M)
Burger, E. (M)
Campbell, J. A. (A)
Cano, J. R. (A)
Caras, B. (A)
Castriota, L. J. (M)
Corwin, M. H. (M)
Cugliari, N. (M)
Defloria, R. N. (A)
Edwards, H. M. (A)
Findeis, W. J. (M)
Fliderblum, D. D. (A)
French, C. C. (A)
Friedman, M. G. (M)
Friedman, S. N. (A)
Genz, W. F. (M)
Goetzl, M. (M)
Gomberg, L. (M)
Grabowski, J. L. (A)
Green, S. N. (A)
Greenwald, M. H. (M)
Hillman, P. L. (SM)
Knauert, W. F. (M)
Korewick, J. (M)
Lamb, R. U. (A)
Letacher, E. J. (M)
Lisewski, E. E. (A)
Loebl, W. W. (M)
Looney, L. A. (M)
Lynch, D. F., Jr. (A)
Lynch, H. G. (M)
Namerow, V. C. (A)
Ondrocsky, O. A. (M)
Orefice, G. T. (M)
Oswald, H. (A)
Pelavin, M. H. (M)
Perelle, I. B. (A)
Regan, H. T. (A)
Richter, J. G. (A)
Richardson, R. J. (A)
Robinson, R. J. (M)
Rodrigues, A. N. (A)
Roth, S. S. (A)
Schachat, T. (SM)
Shecter, E. S. (M)
Shirley, G. (A)
Schreiber, W. B., Jr. (M)
Solins, R. (M)
Speranza, A. A., Jr. (A)
Staudt, W. (A)
Stein, R. S. (SM)
Sterk, A. A. (M)
Svoritch, P. (A)
Szymanski, L. A. (M)
Taffet, W. (A)
Tarowsky, H. (A)
Troster, M. (A)
Webb, W. J. (A)
Yablonsky, D. M. (A)
Zatorsky, E. F. (VA)

Yorktown (NY-W-2)
Rochester, N. (F)

Yorktown Heights (NY-W-2)
Arcand, A. T. (A)
Furth, E. (A)
Guros, F. S. (M)
Jensen, R. A. (SM)
Luhn, H. P. (M)
Saslovsky, S. (A)
Teschmacher, H. W. (SM)

Yorkville (RU-1)
Pankiewicz, C. L. (M)
Richers, L. (A)
Strauss, L. (M)

NORTH CAROLINA

Asheboro (N-CAR-3)
Stephens, T. L. (M)

Asheville (NC-W-3)
Hayes, W. L. (M)
Kennedy, R. A. (M)
McConnel, W. G. (SM)
Morgan, Z. K., Jr. (A)
Schumer, H. A. (M)
Smith, I. A., Jr. (M)

Badin (NC-W-3)
McFadden, J. W. (M)

Banner Elk (N-CAR-3)
Kalbfleisch, A. M. (A)

Black Mountain (NC-W-3)
Huffman, J. C. (A)

Boone (N-CAR-3)
Isenhour, C. N. (A)
Littleton, W. W. (M)

Burlington (N-CAR-3)
Apple, H. L. (M)
Barlow, J. E. (A)
Birdsey, G. J., Jr. (M)
Brown, C. J. (SM)
Casey, J. B. (M)
Cobb, H. E. (M)
Day, J. L. (M)
Earles, D. R. (M)
Fox, M. L. (M)
Harris, R. H. (M)
Hastings, C. L. (SM)
Jones, J. W. (M)
Jones, W. G. (M)
Kelly, C. J. (A)
Kelly, I. E. (M)
Mann, J. H. (A)
Mears, D. F. (M)
Miller, A. R. (A)
Miller, O. R. (M)
Nance, R. L. (A)
Nimmcke, F. E. (SM)
North, T. G., Jr. (M)
Savole, L. P. (A)
Sees, J. H. (M)
Sence, R. L. (A)
Smith, C. P. (M)
Smith, H. O. (M)
Thomas, B. J. (M)
Thorne, J. C. (M)
Thrash, W. D. (M)
Troussoff, G. B. (SM)
Waite, A. C., Jr. (M)

Camp Lejeune (NC-E-3)
Brady, C. L. (SM)

Candler (NC-W-3)
Brown, J. R. (A)

Carrboro (NC-E-3)
Pressly, C. P., III (M)

Cary (NC-E-3)
Dawkins, L. L. (SM)

Chapel Hill (NC-E-3)
Forrest, L. A., Jr. (A)
Jennette, J. E., Jr. (M)
Macintyre, A. B. (M)
Thurstone, F. L. (M)

Charlotte (NC-W-3)
Anderson, F. C. (A)
Barron, J. I. (M)
Bateman, F. F. (M)
Brown, F. R. (A)
Bush, T. K. (M)
Caldwell, H. S. (A)
Carey, J. G. (SM)
Carr, L. O. (M)
Caudle, L. L., Jr. (M)
Chaney, A. L., Jr. (M)
Covington, N. J. (M)
Deyton, J. B., Jr. (M)
Dycus, R. W. (A)
Hager, M. F. (A)
Halstead, W. R. (M)
Hardin, L. H. (A)
Hicklin, W. H., Jr. (M)
Howard, T. E. (M)
Kickler, E. M. (A)
Larson, F. P., Jr. (M)
Livingston, T. C. (M)
McCray, H. R., Jr. (A)
Meadow, W. L. (M)
Minor, M. J. (SM)
Mullis, C. B. (M)
Murphy, B. (M)
Ramsey, R. W. (VA)
Scoggin, W. G., Jr. (A)
Walker, L. L. (A)

Davidson (N-CAR-3)
McLane, S. B., Jr. (M)

Durham (NC-E-3)
Browning, P. L. (A)
Chenery, P. J. (SM)
Cronin, H. C. (M)
Edwards, F. D. (M)
Fullen, R. E. (A)
George, R. T., Jr. (M)
Koppenhaver, J. T. (A)
Owen, H. A., Jr. (M)
Perry, W. T., Jr. (M)
Rudisill, J. A., Jr. (M)
Seeley, W. J. (SM)
Vail, C. R. (SM)
Young, D. B. (M)

Elizabethtown (NC-E-3)
Baird, J. W. (A)

Elon College (N-CAR-3)
Baynard, J. S., Jr. (M)
Berryman, J. W. (M)

Enka (N-CAR-3)
Kemic, C. S. (A)

Farmville (N-CAR-3)
Thorne, M. G. (A)

Fayetteville (NC-E-3)
Bernard, J. T. (M)
Buck, J. H. (M)

Fort Bragg (NC-E-3)
Bell, W. S. (A)

Gastonia (NC-W-3)
Huffstetler, J. P. (M)
Mills, C. W. (M)

Germantown (N-CAR-3)
Long, E. S. (A)

Goldsboro (NC-E-3)
Trueblood, D. B. (M)

Graham (N-CAR-3)
James, H. C. (SM)
Pope, M. G. (M)
Rountree, R. H. (M

Greensboro (N-CAR-3)
Adams, T. N. (M)
Aitkenhead, J. (M)
Allred, R. R. (M)
Annas, P. D. (M)
Atcheson, S. E. (M)
Bescherer, E. A. (SM)
Best, R. H. (A)
Bezera, G. (M)
Coble, R. P., Jr. (M)
Coordsen, J. F., Jr. (M)
Fennell, T. C. (M)
Gardiner, J. G. (SM)
Gregory, L. C. (M)
Horne, W. H., III (M)
Hunter, J. R. (M)
Hurt, C. V. (M)
Johnson, W. H. (M)
Joseph, F. T. (M)
Lowe, A. L. (A)
Lupton, C. C. (A)
Marteena, J. M. (M)
Monroe, J. E. (A)
Morris, R. E. (M)
Porter, G. R. (M)
Richardson, B. W. (M)
Schaffer, L. I. (M)
Shore, E. B. (A)
Smith, F. S. (M)
Stanton, G. L. (SM)
Strandberg, C. F. (M)
Thayer, P. H., Jr. (M)
Wilder, G. R. (M)

Guilford (N-CAR-3)
Thompson, F. E. (M)

Hamlet (NC-W-3)
Lestick, A. P. (A)

Havelock (NC-E-3)
Lindeman, W. D. (A)

Hendersonville (NC-W-3)
Hawks, J. D. (M)
Howell, E. K. (M)
Jones, H. T. (A)
Kelley, H. P., Jr. (M)

Hickory (NC-W-3)
Long, T. E. (A)

High Point (N-CAR-3)
Bivins, J. F. (SM)
Portaro, S. A. (A)
Severance, F. D. (M)
Zevenbergen, J. W. (A)

Jacksonville (NC-E-3)
McLendon, J. T., Jr. (A)

Jamestown (N-CAR-3)
Caldwell, D. J. (SM)
Moore, R. L. (M)

Kernersville (N-CAR-3)
Conklin, J. L. (M)
Farrington, O. M. (M)

Kinston (NC-E-3)
Hurt, A. B., Jr. (M)

Laurinburg (NC-E-3)
Phillips, G. W. (A)

Lewisville (N-CAR-3)
Dearing, M. (A)

Liberty (N-CAR-3)
Wolfgang, W. W. (M)

Lincolnton (NC-W-3)
Peeler, D. D. (M)

Marion (N-CAR-3)
Dowdle, J. F. (M)

Mars Hill (NC-W-3)
Thompson, R. C. (A)

Mebane (N-CAR-3)
Mincey, J. H. (M)

Mount Airy (N-CAR-3)
Epperson, R. H. (A)

New Bern (NC-E-3)
Haire, B. G. (M)

Pfafftown (N-CAR-3)
Garrison, W. H. (M)

Raleigh (NC-E-3)
Baldwin, C. M., Jr. (M)
Barclay, W. J. (SM)
Colvert, F. T. (A)
Corns, R. B. (M)
Goetze, A. J. (M)
Higgins, J. F. (A)
Hill, J. S., II (M)
Hoadley, G. B. (SM)
Hulick, H., Jr. (SM)
Idol, C. A. (M)
Kahn, S. H. (M)
Kern, W. J. (M)
Manning, E. G. (M)
Martin, J. C. (M)
McArthur, C. S. (SM)
Moore, C. H. (M)
Mott, H. (M)
Neuse, D. H. (A)
Padunchewit, P. I. (M)
Palmer, W. G. (M)
Parkin, H. C. (A)
Randolph, H. D. (A)
Rothstein, R. I. (A)
Seay, R. T. (A)
Sloop, W. B. (A)
Speed, W. J. (M)
Sugg, C. H. (A)
Tommerdahl, J. B. (M)
Tompkins, E. H., Jr. (M)

Rural Hall (N-CAR-3)
Helms, C. M. (M)

Sanford (NC-E-3)
Buchanan, T. B. (A)

Selma (NC-3)
Jones, F. D. (M)

Shelby (NC-W-3)
Mathis, J. E. (A)

Trinity (N-CAR-3)
Hill, K. R. (A)

Wendell (NC-E-3)
Todd, M. C. (M)

Wilmington (NC-E-3)
Peebles, N. A. (M)

Winston-Salem (N-CAR-3)
Adkins, F. L., Jr. (M)
Anderson, F. B. (SM)
Applegate, I. D. (SM)
Arnold, H. H. (SM)
Aykens, E. W. (M)
Baity, A. C., Jr. (M)
Balden, J. M. (M)
Barnett, H. A., Jr. (A)
Beach, O. R. (M)
Beard, C. E. (M)
Bernath, W. A. (M)
Bertie, C. E. (SM)
Boatwright, J. H. (M)
Bright, J. O. (SM)
Broadwell, B. L. (M)
Bunney, E. (M)
Burnett, J. W. (M)
Cantrell, M. E. (M)
Carlisle, H. C., Jr. (A)
Carpenter, R. D. (A)
Caskey, L. F. (M)
Clabough, E. M. (A)
Climer, F. A. (M)
Coan, J. O., Jr. (A)
Corderman, R. C. (SM)
Corn, M. (A)
Cornett, L. A. (A)
Cottrell, B. P. (SM)
Cox, C. W. (M)
Craddock, G. L. (M)
Dague, G. I. (A)
Dinner, R. S. (A)
Edwards, G. W. (M)
Eidson, H. G., Jr. (A)
Estes, F. B. (VA)
Evans, R. D. (A)
Feeney, C. J. (A)
Fisher, R. W. (M)
Fox, E. D. (M)
Gegenheimer, W. C. (SM)
Genaille, R. A. (A)
Glenn, H. L. (A)
Green, A. H. (M)
Hamilton, R. D. (A)
Hanks, W. R. (M)
Heard, B. E. (M)
Hedrick, P. F. (SM)
Hege, A. (A)
Heineman, J. T. (M)
Herb, J. W. (M)
Hilker, A. H. (M)
Hirner, J. A. (M)
Hoffman, W. R. (VA)
Hopper, F. L. (SM)
Hunter, P. H. (M)
Ivester, H. E. (M)
Kimmell, R. G. (M)
King, L. C. (A)
Kuntz, H. A., Jr. (M)
Lanford, W. E. (M)
Laughter, F. H. (M)
Lee, R. E., Jr. (M)
Leonard, A. B. (M)
Libby, V. A. (A)
Lumley, R. M. (A)
Lyerly, E. E. (A)
Lyle, D. A. (A)
Maddox, H. D. (SM)
Malone, W. H. (M)
March, R. C. (M)
McAvoy, W. G. (SM)
McFarland, R. T. (M)
McMillin, D. L. (A)
Monty, B. E. (M)
Moore, W. C. (M)
Morgan, G. T. (A)
Mueller, H. W. (M)
Mulheron, A. R. (A)
Needham, D. P. (M)
Norwood, C. A. (SM)
Oliver, C. W. (A)
Owen, F. R. (M)
Palmer, C. W. (SM)
Parlee, G. N. (SM)
Pfohl, J. T. (A)
Powell, L. H. (VA)
Pratt, E. E. (M)
Reisenweaver, W. B. (M)
Remley, L. A., Jr. (M)
Reynolds, C. W. (SM)
Ridgill, J. R. (A)
Robey, E. E. (A)
Robinson, J. L. (M)
Rudroff, M. G. (A)
Shacklett, J. H. (A)
Sharpe, E. F. (M)
Sidelinger, S. G. (A)
Smith, A. D., Sr. (M)
Smith, C. M., Jr. (SM)
Smith, F. C. (M)
Spikula, R. W. (M)
Stavrou, N. C. (A)
Stephenson, H. L. (A)
Stouse, L. E., Jr. (M)
Stuart, J. C. (M)
Tanner, T. B. (M)
Tetzlaff, F. L. (M)
Theriot, E. J. (M)
Townsend, W. A. (A)
Travison, R. (M)
Turrini, J. J. (M)
Tyack, L. C. (SM)
Vance, R. L. (SM)
Van Doeren, C. A. (M)
Voorhees, H. A. (M)
Wall, R. D. (A)
Wescott, J. C. (A)
Wikstrom, D. E. (A)
Williams, R. B. (M)
Wilson, R. B. (M)
Zammit, J. F. (M)

NORTH DAKOTA

Bismarck (TC-5)
Nelson, I. (M)
Vavra, H. G. (M)

Edgeley (TC-5)
Meyer, L. L. (M)

Fargo (TC-5)
Anderson, E. M. (M)
Foerster, A. C. (A)
Hetland, J. M. (VA)
Hoaby, E. A. (M)
Peterson, D. E. (M)
Wolla, M. L. (M)

Grand Forks (TC-5)
Thomforde, C. (M

Minot (TC-5)
Haeusler, H. (A)
Main, J. F. (A)

Valley City (TC-5)
Amoo, L. R. (M)

OHIO

Ada (TOL-4)
Klingenberger, J. L. (M)

Akron (AKR-4)
Arkwright, L. P. (A)
Armstrong, R. H. (M)
Baker, E. E., Jr. (M)
Barnett, C. B. (M)
Bentley, D. E. (A)
Berkey, R. H. (A)
Bock, A. W. (A)
Bock, E. D. (A)
Bose, E. B. (M)
Bosomworth, G. P. (F
Bowman, B. M. (M)
Bowyer, J. M. (M)
Brown, D. L. (A)
Buxton, A. C. (SM)
Caulkins, F. A. (M)
Chase, P. W. (M)
Chimera, V. J. (SM)
Ciocca, F. J. (A)
Colletti, N. (M)
Crano, C. A. (A)
Di Caudo, V. J. (M)
Eddey, E. E. (A)
Eishen, D. E. (A)
Emery, W. S. (A)
Fanwick, C. (SM)
Foley, J. S. (M)
Forbes, D. F. (M)
Foreman, C. W. (SM)
Forman, H. L. (A)
Gibson, C. O. (A)
Gray, C. L. (M)
Ham, B. D. (A)
Hazlip, G. M. (M)
Hegbar, H. R. (F)
Hlatky, M. G. (M)
Holler, J. R. (SM)
Horowitz, M. (SM)
Huber, J. C., Jr. (M)
Huffman, E. B. (A)
Iffland, H. L. (A)
Jonard, H. A. (M)
Jubin, T. A. (A)
Kanis, E. J. (A)
Kime, J. M. (M)
Knopp, L. L. (M)
Kostolansky, V. A. (A)
Lambert, C. O. (SM)
Leibowitz, S. (M)
Link, T. V. (A)
Lofgren, E. W. (M)
McCarty, J. R. (A)
McClary, D. A. (M)
McMahon, W. D. (SM)
Nank, W. A. (A)
Nellis, R. E. (M)
Nerhood, H. E. (A)
Neuwirth, K. R. (A)
Obermeier, J. A. (M)
Oplinger, J. N. (A)
Paden, H. R. (M)
Pake, F. G. (M)
Papaioan, I. M. (M)
Phares, D. P. (M)
Poticny, J. (M)
Pressel, P. I. (M)
Rataski, C. P. (SM)
Redmond, J. F. (M)
Roberts, L. H. (M)
Ryburn, P. W. (M)
Sager, J. R. (M)
Scheck, J. A. (M)
Shingler, D. F. (A)
Shively, H. G. (M)
Shoemaker, J. R. (SM)
Sicheri, C. R. (A)
Silkman, H. G. (M)
Smith, P. C. (SM)
Strang, J. R. (SM)
Strowig, K. W. (A)
Taylor, R. T. (A)
Vaughan, R. L. (A)
Veit, N. J. (M)
Wagner, W. R. (M)
Watkins, W. H. (M)
Weinsheimer, W. E. (A)
Weyrick, R. C. (M)
Winkler, M. A. (M)
Wold, J. E. (M)
Wright, D. M. (A)
Yanase, H. Y. (A)
Yarosh, N. P. (SM)
Zatezalo, G. E. (A)
Zeigler, K. O., Jr. (A)

Alliance (AKR-4)
Foulks, E. D. (M)
Smith, A. E. (A)

Alpha (DAY-4)
Hall, J. J. (A)

Amlin (COL-4)
Rife, W. E. (SM)

Anna (TOL-4)
Taylor, S. V. (M)

Arcanum (DAY-4)
Weber, S. E. (M)

Ashtabula (ERI-1)
Micksch, J. E. (A)
Morrison, H. F. (A)

Ashville (COL-4)
Martin, W. C. (M)

Athens (COL-4)
Bjerre, P. (M)
Cartland, F. W. (M)
Green, D. B. (M)

Atwater (AKR-4)
Meilander, W. C. (M)

Avon Lake (CLE-4)
Coffe, S. A. (M)
Dobosy, J. F. (SM)
Ramaley, C. W. (M)

Barberton (AKR-4)
Austin, A. O. (F)
Kane, C. G., Jr. (M)
Kelley, J. B. (M)
Klever, W. O. (A)
Miller, D. A. (M)
Takacs, J. A. (M)
Tompkins, F. G. (M)
Whitchurch, N. E. (M)

Batavia (CIN-4)
Kay, E. D. (M)

Bay Village (CLE-4)
Didinger, G. H., Jr. (M)
Friswold, F. A. (M)
Gunderman, R. J. (M)
Smith, C. W. (A)
Smith, T. H. (SM)

Beachwood (CLE-4)
Ulmer, R. M. (M)

Bedford (CLE-4)
Jerome, W. R. (VA)
Kessler, J. C. (A)
Washko, F. H. (M)

Bellbrook (TOL-4)
Carpantier, V. J. (SM)
Cunningham, R. F. (SM)

Bellefontaine (TOL-4)
Bridges, B. D. (A)
Cammack, H. F. (M)
Wallace, H. L. (A)

Berea (CLE-4)
Blackman, C. P. (SM)
Epperson, J. B. (F)
Sanderson, R. B. (A)
Simmons, R. A. (A)

Bethel (CIN-4)
Krody, J. L. (M)

Bexley (COL-4)
Brooke, E. F. (M)
Wilcox, C. R. (M)

Blacklick (COL-4)
Edens, S. V. (M)

Blue Ash (CIN-4)
Keene, L. C. (SM)

Bluffton (TOL-4)
Triplett, M. M. (M)
Triplett, W. R. (A)

Boardman (AKR-4)
Dustman, H. C. (M)

Bowling Green (TOL-4)
Synnamon, J. H. (M)

Brecksville (CLE-4)
Brooks, R. C. (A)
Butler, A. H. (M)
Caensich, J. E. (A)
Cull, R. R. (M)
Hopwood, A. M., Jr. (VA)
La Moreaux, D. D. (A)
Nace, A. S. (SM)
Roeger, R. E. (M)
Stadig, S. V. (M)
Ulrich, J. F. (SM)
Weaver, J. H. (M)

Brookfield (AKR-4)
Miles, V. J., Jr. (M)

Brooklyn (CLE-4)
Andrews, F. C. (A)

Brookville (DAY-4)
King, H. B. (SM)

Burton (CLE-4)
Bogas, J. (A)

Campbell (AKR-4)
Klimko, C. A. (A)

Canton (AKR-4)
Arnold, E. N. (SM)
Beckerman, L. M. (M)
Burtner, R. L. (SM)
Duff, J. E. (M)
Fehn, F. P., Sr. (M)

Greene, F. L. (M)
Hill, M. W. (A)
Jameson, W. B. (A)
Koenig, J. (M)
Leist, L. G. (M)
Rudolph, R. H. (M)
Sole, A. R. (A)
Walker, N. S. (VA)

Cedarville (DAY-4)
Marshall, R. C. (M)

Centerville (DAY-4)
Gulden, E. V. (SM)

Chagrin Falls (CLE-4)
Berlincourt, D. A. (M)
Bird, J. R. (SM)
Dornbos, L. J. (M)
Gehman, J. B. (M)
Kilroy, J. W. (M)
McConnell, H. M. (M)
Saint-Amour, J. D. (A)
Shields, E. T. (A)
Streater, J. W. (M)

Chesterland (CLE-4)
Mette, R. J. (M)
Sallach, M. E. (SM)

Cheviot (CIN-4)
Spinner, L. N. (M)

Chillicothe (CIN-4)
Batcher, K. E. (M)
Friedman, D. W. (M)
Hanson, M. L. (SM)
Pulliam, P. E. (M)

Cincinnati (CIN-4)
Adams, M. M. (M)
Ahrends, S. W. (M)
Apgar, R. R., Jr. (M)
Ashman, A. B. (M)
Ayers, N. E. (M)
Baird, C. W. (A)
Bass, H. (SM)
Bass, L. (SM)
Bates, F. E. (M)
Bauer, H. A. (M)
Baylor, A. D. (SM)
Beam, L. W. (A)
Berberich, R. J. (A)
Bereskin, A. B. (F)
Berg, D. F. (M)
Bielka, R. P. (SM)
Bingham, T. V. (A)
Blair, D. (M)
Blasberg, L. A. (SM)
Blum, S. (M)
Bolt, A. T., Jr. (A)
Boothe, A. M. (SM)
Bopp, C. (SM)
Borgstrom, J. H. (M)
Bowling, J. C. (M)
Bradmiller, R. W. (A)
Breunig, W. H. (M)
Briles, W. F. (M)
Brouse, H. L. (SM)
Browde, A. (SM)
Brown, H. K. (M)
Burnett, L. A. (M)
Burrer, G. J. (M)
Bussard, E. J. H. (SM)
Butterworth, G. S. (M)
Calahan, D. A. (M)
Campbell, D. J. (A)
Campion, H. H. (M)
Campisano, F. J. (M)
Campa, T. F. (M)
Carlton, E. O. (A)
Carver, J. G. (M)
Cavanaugh, H. D. (A)
Charlton, A. E. (A)
Clemens, J. F. (SM)
Cobb, R. B. (A)
Coddington, J. (M)
Collins, J. T. (A)
Congdon, K. P. (M)
Conklin, H. A., Jr. (M)
Cook, H. L., Jr. (M)
Crosby, R. H., Jr. (M)
Dale, W. L. (A)
Dalins, I. (M)
Dapper, J. C. (M)
Darling, R. E. (A)
Davison, F. A. (M)
Decker, R. H. (M)
Diehl, J. A. (A)
Dilz, A. E., Jr. (M)
Doctor, B. (M)
Doerr, W. H. (M)
Dolbeer, W. J. (A)
Dooley, E. B., Jr. (M)
Durnell, R. S. (A)
Dutton, C. E. (VA)
Ehbeler, J. R. (M)
Eichenberger, N. F. (M)
Einbinder, L. W. (A)
Emmerling, E. J. (M)
Engelmann, R. H. (SM)
Englert, R. W. (A)
Etzold, D. J. (M)
Fenstermacher, A. L. (M)
Ficek, J. A. (M)
Fleshman, W. S., Jr. (M)
Fortier, R. E. (M)
Fromm, K. N. (M)
Frommer, J. C. (SM)
Gamble, E. H. (SM)
Garvin, C. W. (A)
Gehring, M. C. (SM)
Geoghegan, J. P. (A)
George, P. H. (A)
Georger, L. J. (A)
Gieringer, C. K. (SM)
Ginn, C. R. (M)
Goode, J. P. (A)
Graves, J. A. (M)
Griffin, W. H. (A)
Grosse, R. H. (M)
Grosscohme, F. (M)
Gruber, J. R. (SM)
Haehnle, C. G. (SM)
Harmon, C. J. (M)
Harris, H. H. (M)
Harter, W. R. (M)
Harvey, J. T. (M)
Headley, H. N. (M)
Heinzelman, G. J. (M)
Helsing, C. R. (A)
Hellen, R. J. (M)
Helmheckel, T. A. (M)
Hentz, E. G. (A)
Herrin, C. B. (M)
High, R. A. (A)
Himes, H. D. (M)
Hoeltge, E. J. (A)
Hogan, C. M. (SM)
Holst, P. F. G. (SM)
Holub, P. E. (A)
Hosea, R. A. (M)
Humphrey, W. R. (A)
Hundley, T. C. (M)
Hunter, W. F. (M)
Inderhees, J. A. (M)
Jenkins, R. A., Jr. (M)
Johnson, C. W. (A)
Johnson, W. C. (M)
Jones, E. M. (M)
Jones, W. G. (M)
Joyce, K. J. (M)
Kaesemeyer, W. W. (M)
Kaufman, B. A. (M)
Kelling, D. G. (M)
Kelly, J. W. (M)
Kennedy, D. D. (M)
Kerhulas, A. T. (A)
Kibby, J. R. (A)
Kidwell, E. W., Jr. (A)
King, F. W., Jr. (SM)
Kiss, J. S. (M)
Kline, A. J. (M)
Knoblaugh, A. F. (F)
Kober, C. L. (SM)
Kuecken, J. A. (M)
Lambert, R. (SM)
Lambert, V. L. (M)
Lathrem, L. R. (A)
Lawall, R. M. (M)
Lehman, R. H. (A)
Lehnhoff, R. G. (M)
Lenk, H. H. (M)
Lepple, H. (M)
Linblad, T. N. (M)
Lorah, P. W. (M)
Loutzenhiser, C. F. (M)
Luhn, P. J. (A)
Lundgren, C. W., Jr. (M)
Magrish, C. J. (M)
Marlowe, E. W. (M)
Martin, D. W. (F)
Mast, C. E. (M)
Maxim, R. A., Jr. (M)
McDonald, J. M. (SM)
McGregor, M. A. (A)
Meehan, J. P. (SM)
Mentink, A. F. (M)
Meyer, A. (SM)
Meyer, B. W. (M)
Mika, J. I. (M)
Miller, R. W. (M)
Montgomery, W. D. (SM)
Moxley, S. D., Jr. (M)
Murray, J. W. (M)
Nason, D. B. (SM)
Nathan, R. (SM)
Nauman, J. G. (M)
Neal, N. D. (M)
Needles, W. F., Jr. (A)
Nieman, F. G. (M)
Nistico, F. (M)
Nord, G. L. (M)
Novy, E. W. (M)
Nyberg, L. V. (A)
O'Connell, R. E. (A)
Ohmart, P. E. (M)
Osterbrock, C. H. (M)
Overman, C. I. (A)
Perry, G. W. (A)
Plogstedt, A. E. (M)
Pohlman, R. A. (A)
Quitter, J. P. (SM)
Ragen, J. R. (A)
Rakel, R. H. (A)
Ransom, G. B. (M)
Reardon, R. A. (A)
Reher, R. R. (A)
Richelieu, C. C. (M)
Rockowitz, M. (M)
Rockwell, R. J. (F)
Roskos, R. G. (A)
Rowe, S. (M)
Ruppel, D. (A)
Sanders, H. E. (A)
Sasser, T. (A)
Schafer, G. E. (M)
Schenck, R. L. (M)
Schlemmer, R. P. (M)
Schmidt, R. F. (M)
Schmittou, C. J. (M)
Schroeder, W. R. (VA)
Schumacher, T. J. (A)
Schutz, G. C. (SM)
Scott, V. J., Jr. (M)
Selchter, K. R. (A)
Seward, G. J. (M)
Seyfried, J. E. (A)
Shadley, F. C. (M)
Shaw, C. B., Jr. (M)
Shekro, C. M. (M)
Sheridan, C. J. (M)
Shirk, W. B. (SM)
Sinclair, R. R. (A)
Smith, D. L. (M)
Smith, P. C. (SM)
Spayth, F. J. (M)
Staab, P. C. (A)
Stacy, R. A. (SM)
Stallings, R. E. (M)
Stegman, T. E. (A)
Stephens, T. C. (SM)
Stewart, A. W. (M)
Stuhlbarg, S. M. (M)
Taylor, G. O. (SM)
Taylor, W. S., Jr. (M)
Thomas, D. E. (A)
Thompson, M. E. (M)
Timperman, E. J. (M)
Toole, W. W. (M)
Topmiller, C. H. (VA)
Truitt, J. R. (M)
Tupman, L. M. (M)
Turrell, R. M. (M)
Tyberg, A. H. (M)
Van den Berg, W. J. (A)
Vandoch, S. C. (A)
Van Valkenburg, H. M. (A)
Verkley, B. M. (M)
Ward, D. L. (M)
Weaver, C. W. (M)
Weber, C. E. (M)
Wedig, F. L., Jr. (SM)
Westerlund, K. I. K. (M)
Wetz, R. H. (SM)
White, N. (A)
Williamson, G. F. (M)
Wills, T. C. (A)
Wilson, H. J. (A)
Wilson, J. W. (M)
Winder, C. F. (M)
Winkle, L. (M)
Wissel, F. A. (SM)
Woestman, J. W. (M)
Woodcock, C. A. (M)
Wyzenbeek, A. (A)
Yaney, P. P. (M)
Young, J. D., Jr. (M)
Zimov, L. R. (SM)
Zoerner, J. R. (M)
Zohar, S. (A)

Circleville (COL-4)
Welsh, R. D. (A)

Cleveland (CLE-4)
Ackerman, E. K. (SM)
Allen, D. P. (M)
Anderson, C. R. (M)
Anderson, F. D. (A)
Banshak, W. G. (A)
Begun, S. J. (F)
Bellitto, R. R. (A)
Bickley, E. B. (A)
Bletcher, A. L. (M)
Blue, T. F., Jr. (M)
Bolz, R. W. (SM)
Braschwitz, H. J. (M)
Brewer, H. D. (A)
Briggs, R. F. (M)
Brincka, J. J. (M)
Broudy, R. M. (M)
Buchspice, J. E. (A)
Burhans, R. W. (A)
Busher, R. E. (M)
Campbell, J. H. (M)
Caskey, H. B. (M)
Cerveny, W. J. (SM)
Chakerian, R. (M)
Chapa, J. (A)
Chase, W. H. (SM)
Chermely, C. (A)
Christiansen, M. E. (A)
Chulick, C. M. (M)
Churlin, E. (A)
Cleary, R. E. (A)
Collin, R. E. (M)
Crowe, H. (M)
Crozier, R. W. (A)
Curran, D. R. (SM)
Dambach, R. A. (SM)
Dambach, T. F. (M)
Dannemiller, J. R. (M)
Davison, B. (M)
De Lany, R. H. (SM)
De Parry, T. (M)
Dittenberger, R. J. (A)
Dittoe, R. E., Jr. (M)
Dowling, E. C. (A)
Elmendorf, D. E. (M)
Erskine, H. R. (A)
Farr, H. J., Jr. (M)
Frankel, B. L. (M)
Frederico, B. D. (M)
Friedberg, M. R. (SM)
Gardner, W. H. (A)
Gehrke, E. P. (M)
Geiger, D. L. (M)
George, E. W. (A)
Gerhan, C. F. (M)
Germano, C. P. (SM)
Gilbert, L. J. (M)
Gogia, J. K. (A)
Goodman, A. M. (M)
Gotschall, G. D. (M)
Grace, C. H. (M)
Granger, L. V. (M)
Grasson, W., Jr. (A)
Grossman, H. (A)
Hamann, K. R. (M)
Hartel, R. R. (M)
Heller, H. H. (SM)
Hickok, R. D. (SM)
Hill, J. S. (SM)
Hotchkin, E. E. (M)
Howard, R. M. (A)
Humphrey, A. J. (M)
Inada, G. (A)
Isear, J. A. (M)
Jackson, W., Jr. (M)
Jaffe, H. (SM)
Jira, J. W. (M)
Kazarian, R. (M)
Kinkaid, J. C. (A)
Kliever, W. H. (SM)
Klivans, N. R. (M)
Klock, H. F. (M)
Krasnican, M. J. (A)
Krauss, A. (SM)
Kres, A. J. (M)
Laden, H. N. (M)
Lake, W. H. (M)
Lalli, V. R. (M)
Lannan, P. E. (SM)
Lee, J. M. (M)
Leemon, W. (A)
Lesyk, L. (M)
Lillibridge, J. R., Jr. (M)
Little, H. (A)
Little, R. V., Jr. (M)
Lomaz, D. D. (A)
Louis, W. B. (M)
Ludwig, S. (M)
Luehring, E. L. (A)
Lungo, A. (M)
Lynch, T. E. (M)
Majercak, J. V. (M)
Marsal, P. A. (M)
Martin, E. E. (M)
McCollister, D. R. (M)
McCormick, J. R. (M)
McNeel, E. L. (A)
Melkonian, H. A. (M)
Mentzer, P. K. (M)
Mergler, H. W. (M)
Middleton, A. E. (M)
Misek, A. E. (M)
Moravek, E. J. (A)
Morrow, L. A. (M)
Murray, J. H. (A)
Myers, J. F. (M)
Nash, H. C. (M)
Naylor, A. F. (M)
Newborg, D. S. (M)
Nunan, J. K. (M)
Oestermeyer, C. F. (A)
O'Hearn, W. F., Jr. (A)
Pearson, D. M. (M)
Pettus, R. (A)
Piwonka, W. G. (M)
Plaisted, R. J. (M)
Plakadis, A. P. (VA)
Plonsey, R. (M)
Post, R. H. (M)
Potter, N. M. (VA)
Praglin, J. (M)
Reash, C. W. (SM)
Reiches, S. L. (SM)
Rienerth, G. R. (M)
Rittenhouse, J. W. (SM)
Rodgers, R. C. (M)
Saby, J. S. (SM)
Saltzer, C. (M)
Sanders, N. D. (A)
Sanderson, J. K. (M)
Sauber, J. W. (SM)
Schneider, P. (A)
Schuler, R. G. (SM)
Schwager, A. C. (M)
Seaton, G. (A)
Seely, S. (F)
Seldner, K. (M)
Sharp, F. R. (M)
Shearer, R. L. (M)
Shepherd, B. R. (M)
Sherman, K. S. (SM)
Snedeker, M. L. (SM)
Sollock, L. (A)
Sommer, R. J. (A)
Spears, W. F. (SM)
Stafford, K. E., Jr. (M)
Stoffel, L. L. (A)
Thayer, G. N. (F)
Thayer, J. W. (M)
Thomas, G. E. (M)
Till, W. C. (M)
Todd, A. W. (A)
Toncich, S. V. (M)
Uguccini, O. W. (M)
Vuolle, C. E. (M)
Wagenhals, E. R. (M)
Wells, M. (M)
West, S. S. (A)
Whalen, P. P. (A)
Whittaker, B. H. (M)
Wickenden, H. R. (A)
Williams, K. S. (M)
Wise, D. S. (SM)
Wood, R. M. (M)
Wozniak, A. J. (M)
Zelle, J. F. (SM)
Zechock, B. W. (A)

Cleveland Heights (CLE-4)
Baerwald, H. G. (SM)
David, B. W. (SM)
Gibson, J. L. (M)
Glauberman, L. (A)
Goodman, L. (M)
Hooper, J. R., Jr. (M)
Hudson, A. E. (M)
Koeblitz, W. E. (M)
Lewis, A. M. (M)
Maloney, T. C. (M)
Manring, J. M. (M)
Newman, H. B. (M)
Pierce, D. E. (A)
Scott, E. P. (M)
Smith, C. E. (F)
Tame, J. S. (M)
Westbrook, R. D. (M)

Columbus (COL-4)
Anthony, G. E. (M)
Antonevich, J. N. (M)
Atherton, D. G. (M)
Austen, B. G. (M)
Autry, A. T. (A)
Bacon, J. (M)
Baeumler, H. W. (M)
Bailey, R. J. (A)
Bain, T. D., Jr. (A)
Battocletti, F. E. (M)
Bauer, W. (M)
Beer, A. C. (M)
Blake, R. E. (M)
Blessing, H. L. (A)
Bohannan, R. C. (M)
Boone, E. M. (F)
Bough, J. N. (A)
Boyers, J. S. (SM)
Bulman, W. E. (SM)
Burrus, W. R. (M)
Campbell, R. M. (M)
Casto, A. E. (M)
Chapman, C. M. (M)
Chope, H. R. (SM)
Chope, W. E. (SM)
Clore, W. R. (SM)
Clymer, A. B. (M)
Cohen, D. (M)
Cornetet, W. H., Jr. (A)
Cosgriff, R. L. (SM)
Crispin, H. L. (M)
Crow, W. F. (M)
Damon, E. K. (M)
Davis, B. D. (M)
Dawirs, H. N. (SM)
Deeter, C. R. (M)
De Vore, R. V. (M)
Distelzweig, F. J. (M)
Dukes, J. R. (A)
Easterday, J. L. (M)
Eastwood, W. J. (A)
Ellis, R. E. (A)
England, S. J. M. (A)
Everett, W. G. (M)
Falkenbach, G. J. (SM)
Fell, C. F. (SM)
Ferguson, R. E. (A)
Fraggiotti, J. (A)
Francisco, G. E., Jr. (M)
Freundlich, J. J. (M)
Gahm, W. L. (M)
Gay, J. W. (M)
Guernsey, E. D. (M)
Gulcher, R. H. (M)
Haas, C. J. (M)
Habermann, C. L. (M)
Hame, T. G. (SM)
Handel, N. E. (M)
Hanks, C. L. (M)
Harcarufka, J. F. (M)
Harrison, R. J. (SM)
Hayden, J. R. (M)
Hicks, E. P. (M)
Higgy, R. C. (SM)
Hines, J. N. (M)
Hood, W. L. (M)
Hover, P. B. (A)
Humphreys, R. F. (A)
Hunter, H. H. (A)
Iwanovsky, A. (M)
Jackson, A. J. (M)
Jaeger, J. H. (SM)
James, R. B. (A)
Jastram, P. S. (M)
Jenkinson, G. H. (M)
Johnson, E. W., Jr. (M)
Jones, E. A. (SM)
Joost, A. E. (M)
Kaiser, R. L. (M)
Kennaugh, E. M. (A)
Kennedy, P. (M)
Kirschbaum, H. S. (A)
Ko, H. C. (M)
Kornacker, J. M. (M)
Kouyoumjian, R. G. (A)
Kraus, J. D. (F)
Kreager, C. R. (A)
Krzywonos, S. M. (M)
Lackey, R. B. (A)
Larsen, W. L. (M)
Lawrence, G. M. (M)
Lenker, P. E. (A)
Leonard, J. D. (SM)
Leonhard, C. P. (A)
Levadi, V. S. (M)
Levine, R. B. (M)
Levis, C. A. (M)
Lewis, D. E. (M)
Lindgren, W. A. (A)
Linsk, L. (A)
Litterer, J. E. (A)
Masters, R. W. (SM)
Matyas, J. A. (A)
Mauk, L. H. (M)
McCune, H. K. (M)
McFarland, R. H. (M)
McFarland, R. S. (A)
McNichols, H. B. (A)
Mendenhall, W. S., Jr. (A)
Merrill, R. L. (M)
Mochel, R. S. (A)
Moll, M. (A)
Muldowney, J. F. (A)
Myers, O. C. (M)
Nafzger, L. H. (M)
Nash, R. T. (A)
Noriega, J. R. (M)
Orr, W. (A)
Pang, T. C. (A)
Pattee, H. E. (A)
Peake, W. H. (M)
Perry, R. C. (M)
Peters, L., Jr. (A)
Plenkowski, E. C. (A)
Pierzchala, L. C. (M)
Ramey, D. E. (M)
Reed, T. W. (M)
Rice, D. R. (M)
Richmond, J. H. (M)
Roehm, J. D. (M)
Ryan, P. A. (M)
Scheffler, H. S. (M)
Serracchioli, F. (M)
Sherwood, E. M. (M)
Sloan, C. B. (M)
Spergel, P. (M)
Spero, A. F. (M)
Stapf, M. R., Jr. (A)
Stein, T. G. (M)
Stember, L. H., Jr. (M)
Stevens, R. H. (M)
Stoutenburg, D. V. (A)
Tamplin, G. R. (M)
Taylor, J. K., Jr. (M)
Thatcher, F. F., II (M)
Thompson, H. E. (A)
Thurston, M. O. (SM)
Tice, T. E. (SM)
Tischer, F. J. (SM)
Tracy, R. C. (M)
Travis, E. W. (M)
Troyan, J. F. (A)
Truxall, F. W. (M)
Tucker, R. E. (M)
Verbance, A. (A)
Walter, C. H. (M)
Ward, R. C. (A)
Warren, C. E. (SM)
Webster, R. E. (A)
Weed, H. R. (SM)
Weimer, F. C. (M)
Wolf, F. A. (M)
Yaw, D. F. (SM)
Young, D. A. (VA)
Young, G. W. (A)

Conneaut (ERI-1)
Dvorsky, A. L. (M)
Freidner, G. E. (A)
Hintikka, I. (M)
Keskinen, A. R. (SM)
Morrell, G. A., Jr. (M)
Ryan, W. J. (A)
Telew, W. (M)

Cuyahoga Falls (AKR-4)
Bachtell, R. S. (M)

Burke, J. T. (SM)
Buynak, G. R. (M)
Cacioppo, A. J. (M)
Carpenter, C. P. (SM)
Chuma, N. (A)
Cobbs, E. R. (A)
Crosley, E. W., Jr. (A)
Davis, H. P. (A)
Diamantides, N. D. (M)
Evans, D. C. (A)
Flowers, H. L. (SM)
Fordham, C. E. (M)
Greene, H. R. (M)
Greenwood, R. E. (M)
Guthrie, F. W. (M)
Hakes, T. H. (M)
Hellman, B. H. (A)
Hermann, P. J. (SM)
Horwitz, G. (A)
Hurley, W. A. (M)
Ingalls, R. S. (M)
Kelly, C. M. (SM)
Kierstead, F. H., Jr. (M)
Kult, M. L. (SM)
Lanier, H. F. (SM)
Machan, R. D. (A)
Marquis, G. E. (SM)
Mason, D. F. (M)
Maxwell, D. W. (A)
McCauley, C., Jr. (M)
Meneley, C. A. (SM)
Miller, R. F. (M)
Miller, W. W. (A)
Morrill, C. D. (M)
Olseen, E. E. (A)
Paxton, R. K. (M)
Robinson, G. E. (M)
Shackelford, W. T., III (M)
Sibila, K. F. (SM)
Steiner, W. L. (M)
Stringer, R. B. (M)
Toman, W. J. V. (M)
Trutko, J. M. (A)
Tuma, W. S. (M)
Van Buskirk, W. J. (A)
Welch, G. H. (M)
Yochelson, S. (M)

Dayton (DAY-4)
Adams, E. L. (SM)
Adamson, L. B. (M)
Agins, B. R. (A)
Ahalt, C. A. (M)
Aleo, J. (M)
Allen, F. W. (A)
Allen, K. D. (A)
Allison, G. R. (A)
Althouse, J. M. (SM)
Amrhein, O. C. (A)
Anderson, J. R. (A)
Anderson, J. R. (M)
Andrew, G. W. (SM)
Anglin, D. (M)
Archer, R. F. (A)
Arenstein, G. H. (SM)
Arment, Z. R. (A)
Ashby, G. L. (M)
Augustin, O. E. (M)
Bahret, W. F. (M)
Bange, D. A. (A)
Barker, J. I. (M)
Barker, W. J. (M)
Barkley, M. M. (SM)
Barrett, R. F. (A)
Bartman, H. M. (A)
Becker, R. H. (A)
Belitz, H. G. (A)
Bialer, M. (A)
Biales, K. (A)
Biddle, W. G. (M)
Bily, J. J. (SM)
Bird, G. L., Jr. (A)
Bissonette, A. G. (A)
Boario, W. R. (SM)
Bockenstedt, P. J. (M)
Boedeker, H. F. (M)
Boehme, C. D. (A)
Boettcher, B. K. (M)
Bordewisch, J. F. (M)
Borgelt, E. H. (M)
Bornhorst, K. F. (M)
Botsong, W. B. (A)
Boyle, H. G. (A)
Braden, P. F. (A)
Braun, W. G. (M)
Breesman, R. N. (M)
Brobst, P. L. (M)
Brooks, M. (A)
Brothers, A. L., Jr. (M)
Brown, D. E. (M)
Brown, F. M. (M)
Brown, G. T., Jr. (A)
Brown, W. C. (M)
Bruns, C. R. (M)
Bryan, C. R., Jr. (A)
Bryer, R. L., Jr. (A)
Bryson, V. E. (M)
Budde, R. V. (A)
Buhl, W. T. (VA)
Burneka, C. R. (A)
Butsch, L. M., Jr. (A)
Buxton, R. W. (A)
Byrd, E. W. (M)
Calhoun, R. P. (A)
Call, S. W. (A)
Callahan, J. G. P. (SM)
Carney, J. J. (A)
Carothers, F. S., Jr. (M)
Carr, M. G. (M)
Carter, J. M. (A)
Caskey, O. G. (A)
Castanias, J. E. (SM)
Catanzarite, F. J. (A)
Cavender, J. T. (SM)
Chamberlain, W. S. (M)
Chandler, J. A. (SM)
Charbonneaux, W. A. (SM)
Charnock, L. J. (SM)
Cherpeski, R. P. (M)
Chong, B. (A)
Christianson, L. L. (M)
Clark, A. D. (M)
Clark, A. H. (M)
Clark, P. H. (SM)
Clark, R. R. (M)
Clark, W. H., Jr. (M)
Clute, D. G. (M)
Combs, J. A. (M)
Conant, J. L. (M)
Conrad, C. G. (M)
Coombs, C. C., Jr. (A)
Cooper, E. H. (SM)
Copp, R. S. (M)
Correll, E. G. (M)
Couch, L. J. (M)
Couch, P. W. (A)
Courtney, R. L. (M)
Coy, R. J. (A)
Cranston, H. J., Jr. (M)
Croyte, H. S. (M)
Cummins, S. E. (M)
Curp, W. C. (A)
Curtis, L. L. (A)
Cushing, W. J. (A)
Daugherty, D. J. (M)
Davis, C. H. (A)
Day, J. G. (A)
Decker, E. E. (M)
Deeken, J. W. (M)
De Fries, W. G. (A)
De Luna, J. (M)
Dennis, J. L. (SM)
Deyerle, C. D. (A)
Dicke, A. H. (M)
Director, H. (A)
Drouilhet, P. R., Jr. (M)
Drozd, C. J. (A)
Duckwitz, W. G. (SM)
Dunn, V. E. (M)
Eckert, C. C. (SM)
Elcan, W. C. (M)
Eppers, W. C., Jr. (M)
Erdman, B. K. (M)
Falk, D. B. (A)
Falkowski, A. J. (SM)
Falvey, J. L. (M)
Fassett, J. O. (M)
Fawcett, C. D. (M)
Fedotin, L. S. (A)
Feist, W. E. (SM)
Fensler, W. E. (M)
Ferguson, J. L. (M)
Finocharo, J. J. (M)
Fischer, R. W. (M)
Fisher, P. A. (A)
Flaningam, L. A. (A)
Foraker, C. M. (M)
Fouse, G. T. (SM)
Framme, R. J. (SM)
Franklin, C. S. (SM)
Fried, W. R. (SM)
Friedman, H. (M)
Fritz, A. D. (A)
Fulcher, J. A. (A)
Fulton, W. L., Jr. (M)
Gambill, C. C. (M)
Garing, H. R. (M)
Gauvey, M. P. (M)
Geis, J. H. (M)
Georgi, J. P. (SM)
Gerdes, C. V. (A)
Gerner, R. J. (M)
Gibbs, L. L. (M)
Gibson, J. D. S. (M)
Giffin, E. L., Jr. (A)
Gilbert, D. F. (M)
Gian, G. (SM)
Glidewell, J. J. (M)
Godwin, S. J. (A)
Goldman, A. (SM)
Goldman, C. C. (A)
Goldsberry, P. E. (A)
Gould, W. B. (M)
Graebner, M. S. J. (M)
Greene, C. K. (A)
Griffing, B. F. (SM)
Grillmeier, E. J. (A)
Grimes, W. H. (M)
Gross, E. H. (A)
Grove, H. M. (M)
Gruber, C. W. (M)
Guest, T. W. (A)
Guzak, P. D. (A)
Hallman, L. B., Jr. (F)
Harmon, W. L. (M)
Harnett, R. J. (A)
Harris, F. (SM)
Harter, R. H. (A)
Hausen, D. K. (M)
Hauser, P. D. (SM)
Hayes, T. J. (M)
Hazen, R. R. (A)
Helldoerfer, C. S. (M)
Henderson, A. B. (SM)
Herbert, M. B. (M)
Herzog, W. F. (A)
Heyd, J. W. (SM)
High, R. (M)
Hill, M. A. (M)
Hilsebeck, D. M. (M)
Hilt, W. M. (SM)
Hobstetter, J. P. (A)
Hoefle, R. R. (M)
Hollander, J. M. (M)
Hollinger, E. C. (A)
Holloway, F. L. (SM)
Hooke, J. M., Jr. (A)
Hooks, L. E. (M)
Horrigan, J. S. (A)
Horton, C. D. (A)
Hovey, W. J. (M)
Howard, D. F. (A)
Huckaby, J. H. (SM)
Huff, J. F., Jr. (M)
Hull, R. S. (SM)
Hunt, M. L. (A)
Husmann, F. W. (M)
Huster, L. W. (M)
Hutchinson, J. H. (M)
Ittelson, R. W. (SM)
Jacobs, M. (SM)
Jacobs, Y. (SM)
Jahren, A. S., Jr. (M)
Jakus, L. A. (SM)
James, R. L. (SM)
Javorsky, J. J. (A)
Jellison, K. A. (M)
Jent, J. H. (M)
Johannes, J. M. (SM)
Johnson, D. A. (M)
Johnson, J. T. (M)
Johnson, R. A. (M)
Johnston, E. F., Jr. (M)
Jones, C. L. (A)
Jones, O. D. (M)
Jones, W. B. (M)
Kaeding, D. A. (M)
Karabaich, F. (A)
Karagianis, L. G. (M)
Kearns, J. H., III (A)
Kellogg, R. E. (M)
Kerbs, W. A. (A)
Kern, J. I. (M)
Kessler, C. W. (M)
Kester, R. E. (SM)
Kester, W. C. (M)
Keto, J. E. (F)
Kidd, G. B. (M)
Kienker, J. E. (M)
Kilheffer, L. D. (SM)
Kimball, G. W. (M)
Kinnally, J. W. (M)
Klein, W. (A)
Knight, A. R. (SM)
Kohls, G. F. (M)
Kouri, F. G. (SM)
Kreitsburg, H. L., Jr. (M)
Krenzer, B. A. (M)
Kress, O. C. (A)
Kuhn, T. A. (A)
Kuppin, F. (M)
Ladd, E. L. (A)
Lambert, J. P. F. (M)
Landreman, G. R. (A)
Langston, G. A. (M)
Lawson, S. A. (SM)
Leland, H. E. (A)
Lemmen, R. M. (M)
Levine, H. M. (M)
Lipsey, E. M. (M)
Lisowski, E. M. (M)
Littell, C. C., Jr., (M)
Litwin, S. (A)
Lloyd, L. H. (SM)
Lockwood, G. C. (M)
Long, G. A., Jr. (M)
Long, R. E. (M)
Lord, A. S. (M)
Madden, J. R. (M)
Magill, J. J. (M)
Mahlmeister, T. G. (M)
Marcus, G. H. (M)
Martl, N. F. (A)
Martino, J. P. (M)
Mawdsley, R. L. (SM)
McClellan, K. C. (A)
McCormick, R. E. (SM)
McIlrath, R. J. (A)
McLaughlin, C. E. (M)
McLennan, M. A. (SM)
McRae, A. H. (SM)
Mehron, M. E. (A)
Mendelson, D. A. (A)
Metzger, J. A. (A)
Meuche, C. H. (M)
Meyer, G. B. (M)
Midgley, V. E. (A)
Milbrodt, P. E. (A)
Miller, A. (M)
Mintz, B. (M)
Mirsky, M. M. (M)
Moon, J. F. (A)
Moore, J. M. (M)
Morrison, D. W. (SM)
Morse, B. K. (A)
Mounts, T. P., Jr. (M)
Moyer, D. F. (SM)
Mumma, R. E. (SM)
Munkasey, P. F. (M)
Myers, R. P. (M)
Netherwood, D. B. (M)
Noble, J. C. (M)
Norton, M. H. (M)
Ogar, G. W. (M)
Osborn, C. R. (A)
Overholser, W. E. (M)
Owen, H. W. (SM)
Pappas, M. J. (A)
Parker, A. P. (M)
Pasek, J. (A)
Pennington, P. J. (A)
Perdzock, R. C. (M)
Peters, A. L., Jr. (SM)
Petit, A. H. (SM)
Pirie, F. E. (M)
Pitinsky, L. (M)
Planchat, E. (M)
Plesbek, L. J. (SM)
Pohl, W. A. (SM)
Pokorny, J. J. (SM)
Porter, C., Jr. (A)
Pritchard, C. J. (M)
Quinn, R. E. (M)
Rawhouser, R. (M)
Regnier, L. A. (M)
Retterer, B. L. (M)
Rice, B. J. (A)
Richard, P. R. (A)
Richards, M. V. (M)
Richmond, L. P. (SM)
Roesler, L. (M)
Rogers, A. J. (SM)
Root, L. W. (M)
Root, R. A., Jr. (A)
Roschl, J. W., Jr. (A)
Rose, L. H. (SM)
Rothammer, W. H. (SM)
Rottenberg, M. J. (A)
Rounds, J. M. (A)
Ruble, H. E. (M)
Ruddell, E. E. (A)
Russ, F. J. (SM)
Russell, H. J. (M)
Ryan, F. A. (A)
Rychlik, R. F. (SM)
Rynda, T. C. (A)
Sample, J. G. (M)
Sandor, L. K. (M)
Sansom, F. J. (M)
Sauer, R. J. (M)
Schantz, G. W. (M)
Scheer, G. H. (SM)
Schoonover, W. C. (A)
Schram, S. M., Jr. (SM)
Schreiber, E. J. (M)
Schroeder, H. (M)
Schwennesen, A. B. (M)
Schwitzgebel, W. C. (M)
Scott, J. E. (SM)
Segen, S. A. (A)
Semkow, J. W. (A)
Sen, W. J. (SM)
Senecal, T. L. (SM)
Seth, C. E. (A)
Shanteau, N. G. (A)
Shawda, F. E. (A)
Sheffs, J. F. (A)
Sides, J. D. (A)
Siefker, R. G. (A)
Siek, J. R. (A)
Siff, R. G. (A)
Simopoulos, N. T. (A)
Singer, J. E. (M)
Skolnik, S. (SM)
Smith, D. A. (SM)
Smith, V. M. (A)
Snyder, A. R. (A)
Sogn, L. T. (M)
Sonstegard, A. M. (A)
Speake, A. C. (M)
Spieler, R. J. (M)
Springer, P. W. (SM)
Sproule, J. H. (SM)
Squire, H. H. (A)
Stahler, Y. E. (M)
Stanford, R. W. (M)
Stanton, J. S. (M)
Stause, E. G. (M)
Stein, R. J. (A)
Stevens, R. D. (A)
Stewart, J. R. (A)
Stewart, W. E. (SM)
Stolzenbach, R. W. (SM)
Stouch, D. H. (M)
Striebel, D. R. (M)
Studebaker, M. E. (M)
Sullivan, L. D. (M)
Sutton, A. W., Jr. (M)
Sutton, W. K. (A)
Tarrants, G. (M)
Temoyan, J. D. (M)
Teplitz, H. (M)
Theroux, L. N. (SM)
Thom, A. R. (SM)
Thomas, E. R. (M)
Thompson, C. W. N. (M)
Thompson, J. P. (M)
Thompson, N. P. (A)
Thresher, W. E. (M)
Tobias, J. J. (M)
Tomberg, S. (A)
Trenkle, R. A. (M)
Turner, E. M. (SM)
Turner, R. P. (M)
Valentine, E. O. (M)
Van Wechel, R. J. (A)
Velesky, J. J. (M)
Vendely, B. (A)
Versic, C. (M)
Wadsworth, N. L. (M)
Walker, J. C. F., III (M)
Wall, J. R. (M)
Walling, G. P. (SM)
Wamboldt, H. (M)
Warshawsky, L. M. (M)
Warwick, J. D. (M)
Watton, A., Jr. (SM)
Webb, W. L., Jr. (A)
Wehner, G. L. (M)
Wehrman, R. B. (A)
Weiser, R. V. (SM)
Westland, R. A. (M)
Whelan, R. E. (A)
White, S. B. (A)
Wiegert, P. G., Jr. (SM)
Wieland, E. S. (SM)
Wilde, A. J. (SM)
Wilder, J. E. (M)
Wilkinson, J. E. (M)
Winston, C. B. (M)
Winter, H. (SM)
Winters, J. N. (A)
Winters, W. D. (M)
Woodcock, S. J. (M)
Worley, R. M. (M)
Writer, J. D. (M)
Wyse, D. S. (A)
Yolles, J. (SM)
Yoshida, H. (A)
Young, J. E. (M)
Young, L. M. (SM)
Zabetakis, S. G. (M)
Zacharias, R. A. (A)
Zalusky, C. W. (A)
Zich, M. M. (M)
Zieman, C. M. (M)
Zimmerle, D. F. (A)
Zimmerman, R. F. (M)
Zingg, J. E. (A)
Zwissler, H. R. (A)

Defiance (TOL-4)
Sherbno, J. C. (A)

Delaware (COL-4)
Kreis, R. J. (M)
Poast, L. M. (M)

Dover (PIT-4)
Petrella, J. L. (A)

Doylestown (AKR-4)
Nuss, R. J. (A)

East Cleveland (CLE-4)
Howard, G. T. (A)
Kennedy, E. D. (SM)
Serota, R. M. (SM)
Viton, E. J. (M)
Ward, D. O. (M)
White, J. E. (M)

Eastlake (CLE-4)
Sawyer, B. (A)
Wassum, R. E. (A)

Elmore (TOL-4)
Bay, R. J. (A)

Elyria (CLE-4)
Finegold, I. (A)
Meili, E. J. (A)
Steele, E. M. (A)

Englewood (DAY-4)
Von Rohr, R. D. (A)

Enon (DAY-4)
Garman, D. F. (M)
Jeffries, C. E. (M)
Hornseth, J. P. (M)

Euclid (CLE-4)
Beaver, A. R. (A)
Bieda, S. J. (A)
Borland, R. P. (M)
Businger, K. A. (M)
Calderhead, H. J. (M)
Elze, R. P. (A)
Louis, J. R. (M)
Mason, N. O. (A)
Murray, J. E. (M)
Nurmi, L. O. (M)
Schunemann, C. F. (SM)
Stevko, P. J., Jr. (A)
Tapp, N. F. (A)
Wittlinger, H. A. (M)
Wurster, D. E. (M)

Ewington (CIN-4)
Terry, L. B. (A)

Fairborn (DAY-4)
Anderson, H. L. (A)
Anderson, J. G. (A)
Anderson, R. C. (M)
Archer, C. J. (SM)
Basham, R. S. (A)
Behane, D. (A)
Bowker, I. H. (A)
Carnahan, K. R. (A)
Conway, B. B. (M)
Crosse, C. S. (A)
De Camp, P. W. (A)
De Jonghe, J. J. (M)
Emrick, B. S. (M)
Etheridge, L. R. (M)
Fahrney, R. L. (M)
Faust, R. L. (M)
Ferguson, J. V. (M)
Friz, W. (A)
Froehner, D. A. (A)
Green, W. M. (A)
Grooms, W. G. (A)
Groszewski, D. J. (M)
Harlan, W. E. (A)
Hines, C. A. (M)
Horvath, M. J., Jr. (M)
Hybskmann, V. L. (A)
Ingram, D. B. (M)
Johnson, G. L. (M)
Kistner, R. L. (A)
Kohlmann, H. P. (M)
Lazur, E. (A)
Magee, T. H. (M)
Mayer, I. S. (SM)
McDowell, M. S. (A)
McElroy, G. A. (M)
McLaughlin, L. L. (M)
Miller, F. P. (SM)
Milliron, J. R. (M)
Perkins, W. E. (M)
Peterson, L. S. (M)
Price, L. R. (M)
Pyle, J. L. (M)
Rizos, J. G. (SM)
Schivley, G. W. (M)
Sparks, R. S. (A)
Spengler, J. R. (A)
Stimson, J. S. (A)
Taylor, P. B. (SM)
Terrell, J. H., Jr. (M)
Turner, W. P. (A)
Vanderpool, H. D. (A)
Varga, M. J., Jr. (A)
Whitlock, R. S. (A)
Wilson, J. W. (M)
Wolaver, L. E. (A)
Woodka, C. J. (M)

Fairview Park (CLE-4)
Atkisson, E. A. (A)
Carne, E. B. (A)
Dailey, R. (A)
Dennison, G. L. (A)
Hoff, H. B. (M)
Ryskamp, J. H. (M)
Williamson, C. R. (M)

Findlay (TOL-4)
Hipskind, G. S. (M)
Lavender, J. S., Jr. (M)
Smith, E. C. (M)

Foster (DAY-4)
Porter, J. R. (M)

Franklin (DAY-4)
Bryant, V. D. (M)

Fremont (TOL-4)
Leite, R. C. (M)
Noffs, H. C. (M)
Swartzlander, G. W. (M)

Gahanna (COL-4)
Stropki, G. T. (A)

Galion (AKR-4)
Blashfield, W. H. (M)
Brenton, G. P. (M)
Crissinger, W. W. (M)
Earley, N. B. (M)
Haferd, F. H. (M)
Kay, H. L. (M)
Kraepelien, H. Y. (M)
Murphy, C. E. (M)
Stetler, I. H. (A)
Van Voorhes, A. J. (M)

Galloway (COL-4)
Burgess, L. D. (M)

Garfield Heights (CLE-4)
Kurkul, W. (SM)
Lind, R. P. (A)
Marquardt, R. A. (M)

Gate Mills (CLE-4)
Gardiner, R. A. (SM)

Genoa (TOL-4)
Spencer, N. K. (M)

Girard (AKR-4)
Kramer, R. E. (SM)

Glendale (CIN-4)
Deveney, J. D. (A)

Granville (COL-4)
Clark, J. V. (M)
Taylor, L. L. (SM)

Grove City (COL-4)
Barbee, V. A. (A)
Birk, E. V. (A)

Hamilton (CIN-4)
Marvin, I. E. (M)
Purdy, J. A. (A)
Rudolph, I. W. (A)
Stump, A. M. (M)
Sutphen, K. A. (M)
Tushar, H. J. (M)
Wear, J. (M)
Whittington, R. C. (M)
Willsey, R. H. (M)
Winkeljohann, A. (M)

Hicksville (TOL-4)
Applegate, H. E. (SM)
Culler, D. M. (SM)

Hilliards (COL-4)
Burgener, R. C. (A)
Cary, H. (M)

Holland (TOL-4)
Holmes, H. R. (A)

Hubbard (AKR-4)
Bang, M. W. (SM)

Huron (CLE-4)
Wilber, B. E. (A)

Independence (CLE-4)
Jacques, G. E. (A)
Scott, R. J. (A)

Ironton (CIN-4)
Loftis, H. J. (M)

Kent (AKR-4)
Huffman, D. L. (SM)
Iarussi, R. D. (A)
Johnson, R. E. (M)
Kapur, K. N. (M)
Mathis, H. F. (SM)
Wightman, E. E. (M)

Kettering (DAY-4)
Ashbrook, S. B., Jr. (A)
Ashley, C. L. (M)
Banta, F. D. (A)
Burns, J. H. (M)
Desch, J. R. (M)
Gerhard, W. J. (M)
Getty, J. N. (A)
Grimm, F. W. (A)
Hannay, B. E. (A)
Hogan, J. R. (A)
Jacoby, G. R. (M)
Kohler, E., Jr. (M)
Marshall, C. J. (F)
Mitter, T. S. (M)
Morrison, C. L. (M)
Murray, P. R. (SM)
Nelson, N. A. (SM)
Nordstrom, D. R. (M)
Piety, E. W. (SM)
Stimmel, R. G. (SM)
Strasser, R. A. (M)
Wallin, W. (M)

Kingston (CIN-4)
Leasure, R. B. (M)

Lakewood (CLE-4)
Benkelman, G. F. (SM)
Christen, A. L. (M)
Flack, S. G. (M)
Hamman, G. B. (M)
Haner, L. (A)
Hart, C. E. (A)
Hodge, J. D. (A)
Mattern, R. M. (M)
Mealey, C. W., Jr. (M)
Mokrytzki, B. (M)
Mounce, C. O. (A)
Phillips, W. E., Jr. (A)
Seielstad, H. D. (SM)
Tasch, A. (A)
Torsch, C. E. (SM)
Tudbury, C. A., (M)
Wagener, J. S. (SM)
Webner, R. D. (M)

Lancaster (COL-4)
Daubenmire, R. L. (A)
Good, J. A. (M)
Hudson, R. S. (A)
Magestro, J. C. (M)
Markwood, W. R. (A)
Mitchell, J. P. (A)
Rado, J. A. (SM)

Lemoyne (TOL-4)
Kohler, R. D. (M)

Lewisburg (DAY-4)
Brown, N. E. (M)

Lima (TOL-4)
Carson, D. E. (M)
MacCallum, J. L. (A)
McIlvaine, D. K. (M)
Smith, J. A., Jr. (M)
Swiderski, E. F. (A)

Lisbon (PIT-4)
Catanzarite, V. O. (M)

Lockbourne (COL-4)
Benson, M. C. (SM)

Logan (COL-4)
Magle, R. (A)

Londonderry (CIN-4)
Dearth, G. E. (M)

Lorain (CLE-4)
Frost, E. C. (A)
Goodell, W. A. (M)
Heisner, D. A. (M)
Herrick, R. H. (SM)
Huge, H. M. (M)
Kauffman, H. C. (M)
Romoser, P. E. (M)
Yarmack, J. E. (SM)

Louisville (AKR-4)
Boudler, A. G. (A)
Leslie, F. C., Jr. (A)

Loveland (CIN-4)
Hancock, H. E. (SM)
Kleinman, J. M. (M)
Rabe, W. A. (A)
Thomas, J. P. (M)

Lyndhurst (CLE-4)
Cornell, P. M. (A)
Dalasta, F. (M)
Hammill, C. W. (M)
O'Gara, J. J. (A)
Semenhuk, M. H. (A)
Spiller, H. A. (M)
Stevens, H. E. (M)

Madiera (CIN-4)
Jacobs, A. (M)
Meuelman, R. (SM)
Schneider, C. A. (M)

Mansfield (AKR-4)
Cassidy, R. J. (M)
Miller, K. W. (M)
Stevens, W. C. (M)

Mantua (AKR-4)
Watson, R. D. (A)

Maple Heights (CLE-4)
Crail, A. C. (M)

Marietta (PIT-4)
Clark, C. E. (A)
Torpy, D. J. (M)

Marion (AKR-4)
Davis, J. S., Jr. (M)
Jenkins, D. B. (M)

Martins Ferry (PIT-4)
Daubenmeyer, H. L., Jr. (A)

Mason (DAY-4)
Lantzer, F. N. (M)
Raso, F. A. (M)
Van Horn, J. E. (M)

Massillon (AKR-4)
Burrier, W. O. (A)
Kish, J., Jr. (A)

Maumee (TOL-4)
Carnicom, R. T. (A)
Molloy, G. P. (SM)

Mayfield Heights (CLE-4)
Karbo, D. J. (M)
Reilly, E. J. (A)
Yeager, J. R. (M)

Mechanicsburg (DAY-4)
Alty, R. L. (M)

Medina (AKR-4)
Sharp, J. A. (M)

Medway (DAY-4)
Glancy, C. H. (M)
Gunning, M. E. (A)
Ridenour, P. W. (M)
Soorin, A. J. (M)

Mentor (CLE-4)
Miller, E. O. (M)
Wermelskirchen, L. M. (M)

Miamisburg (DAY-4)
Ballard, J. W. (SM)
Georgia, A. (M)
Schrieber, P. W. (M)

Milford (CIN-4)
Marsh, J. H., Jr. (A)

Mogadore (AKR-4)
Brown, D. L. (M)
Hall, W. S. (M)
Hann, D. D. (M)
Zeigler, E. S. (A)

Monroeville (CLE-4)
Cramer, R. F. (A)

Mount Vernon (COL-4)
Woodward, R. O. (M)

Munroe Falls (AKR-4)
Nickson, R. W. (A)

Napoleon (TOL-4)
Roessing, E. F. (M)

Newark (COL-4)
Stevens, T. R. (A)

New Bremen (TOL-4)
Jung, D. H. (A)

Newbury (CLE-4)
Kragle, R. J. (M)

New Carlisle (DAY-4)
Croner, A. J. (M)
Jeffers, G. N. (M)
Lewis, L. F. (A)
Lower, R. (SM)
Maxim, W. A. (A)

Newton Falls (AKR-4)
Force, E. (M)

North Canton (AKR-4)
Gray, D. W. (M)
Haas, D. L. (SM)
Miller, B. M. (M)
Miller, J. H. (M)
Stahl, M. D. (M)
Zumkehr, J. L. (A)
Zurcher, L. A. (SM)

Northfield (AKR-4)
Parker, J. E. (A)

North Olmsted (CLE-4)
Bossard, G. L. (M)
Mull, H. R. (SM)

North Royalton (CLE-4)
Hulme, W. P. (A)
Hutton, W. G. (SM)

Norwood (CIN-4)
Brandenburg, P. J. (A)
Haverkos, N. P. (M)
Sang, W. W. (M)

Novelty (CLE-4)
Tucker, S. L. (M)

Oak Harbor (TOL-4)
Wott, H. W. (A)

Oakwood (FT-W-5)
Colwell, R. E. (SM)

Oberlin (CLE-4)
Gilford, S. R. (M)
Howe, C. E. (M)
Young, M. L. (A)

Olmsted Falls (CLE-4)
Downer, E. W. (M)
Thomas, B. M. (A)
Wolfe, A. R. (M)

Ottawa (TOL-4)
Goodkin, S. S. (M)
Loman, J. A. (M)
Schoonover, D. J. (M)
Weideman, R. J. (M)

Oxford (CIN-4)
MacKinnon, A. J. (A)
Teetzel, F. M. (M)

Parma (CLE-4)
Dombrady S (M)
Ellis, R. R. (M)
George W. C. (SM)
Guild, E. G. (A)
Hultzman, W. W. (M)
Kyfes, V. (A)
Lippert, G. R. (SM)
Meder, R. (M)
Oliverio, A. D. (M)
Schindler, R. W. (M)
Schultz, R. J. (M)
Sommer, R. A. (M)
Tunder, S. (A)

Parma Heights (CLE-4)
Brinkman, H. A. (M)
Ewart, J. M. (M)
Foster, F. A. (A)
Franks, C. V. (M)
Maciag, E. T. (M)

Perrysburg (TOL-4)
Gries, C. H. (M)
Wilson, D. H. (M)

Phillipsburg (DAY-4)
Share, G. E. (SM)

Piqua (DAY-4)
Driver, C. B. (M)

Poland (AKR-4)
Wallen, A. C. (A)

Portage (TOL-4)
Klopfenstein, L. R. (M)

Port Clinton (TOL-4)
Morgan, W. O. (A)

Ravenna (AKR-4)
Braden, W. V. (A)
Cory, R. W. (A)
Montgomery, W. M. (M)
Morton, R. F. (A)

Rawson (TOL-4)
Shumaker, R. E. (M)

Reading (CIN-4)
Ross, C. W. (SM)
Westmark, J. E. (A)

Rocky River (CLE-4)
Byrd, H. F. (A)
Craig, R. T. (M)
Kelley, J. J. (M)
Stover, F. J., Jr. (M)

Roseville (PIT-4)
Allen, J. N. (A)

Rossford (TOL-4)
Perch, D. F. (M)

St. Bernard (CIN-4)
Wood, J. J. (M)

St. Clairsville (PIT-4)
Skoff, J., Jr. (A)

Sandusky (CLE-4)
Conlin, H. T. (A)
Derrick, W. A. (M)
Fraser, R. J. (A)
Freyberg, J. A. (A)
Hummer, E. W. (A)
Kenyon, H. S. (SM)
Wild, J. H. (SM)

Shaker Heights (CLE-4)
Dennis, H. (SM)
Fields, I. L. (A)
Jones, A. F. (A)
Keithley, J. F. (SM)
Miller, H. J. (M)
Pfaff, R. W. (M)
Seidman, S. M. (M)
White, G. M. (M)

Sharonville (CIN-4)
Gorker, G. E. (A)

Sidney (TOL-4)
Rogers, D. E. (M)
Ulman, W. H. (M)
Wibel, D. (A)

Silverton (CIN-4)
Bertram, M. A. (A)

Solon (CLE-4)
Chevron, R. R. (A)
Fisher, H. F. (VA)

South Euclid (CLE-4)
Baskin, R. F. (M)
Di Julius, J. R., Jr. (A)
Louden, W. C. (M)
Monroe, R. T., Jr. (A)
Peterson, W. V. (A)

Springfield (DAY-4)
Baer, C. E. (SM)
Beedy, R. M. (M)
Bell, A. L. (SM)
Carey, R. M. (M)
Castillo, H. T. (M)
Cunningham, H. W. (A)
Davis, C. R. (M)
Dieterle, M. W. (M)
Hockman, P. E. (M)
Jones, T. G., Jr. (M)
Parker, A. J. (SM)
Pingel, N. D. (M)
Smith, L. A. (A)

Spring Valley (DAY-4)
Hearsum, D. R. (M)
Horst, W. R. (M)

Steubenville (PIT-4)
McFeely, H. H. (SM)

Stow (AKR-4)
Andresen, G. J. C. (A)
Blocki, W. G. (A)
Donze, R. J. (A)
Fauss, G. C. (A)

Strongsville (CLE-4)
Ward, W. L. (M)

Swanton (TOL-4)
Fabik, R. H. (A)

Sylvania (TOL-4)
Forman, H. R. (A)
Myers, O. J. (A)
Williams, R. B., Jr. (M)

Tallmadge (AKR-4)
Farnsworth, N. B. (M)
Folk, V. O. (A)
Porter, D. D. (A)
Stonerook, T. D. (M)

Terrace Park (CIN-4)
Hudnall, J. U. (A)
Jordan, J. F. (F)

Tiffin (TOL-4)
Hartman, R. E. (A)

Tipp City (DAY-4)
Brode, R. L. (SM)
Johns, M. W. (A)

Toledo (TOL-4)
Ambrose, J. (A)
Aufderheide, J. H. (A)
Beins, J. K. (M)
Bell, R. E. (M)
Bensman, R. W. (M)
Blomberg, P. E. (A)
Boudouris, A. (M)
Brillhart, M. F. (A)
Brown, W. R. (A)
Cameron, D. F. (M)
Chapman, L. B. (M)
Childers, R. F. (A)
Chipman, R. A. (SM)
Comer, J. W. (M)
Cousino, R. E. (M)
Diehn, R. J. (A)
Drescher, L. L. (M)
Eash, G. H. (A)
Ewing, D. J., Jr. (A)
Fuller, L. E. (A)
Gage, J. F. (M)
Gramlich, H. F. (A)
Hanna, R. N. (M)
Hawley, F. S. (A)
Hedler, R. C. (A)
Herrick, K. P. (A)
Josenhans, J. G. (M)
Kaminski, G. L. (M)
Kearney, J. P. (SM)
Keck, M. W. (M)
Ketcham, A. R. (M)
Kirchenbauer, C. C. (SM)
Krieger, A. E. (A)
Laker, F. J., Jr. (M)
Larson, R. G. (M)
Leuck, D. D. (M)
Lippmann, R. J. (M)
Loabbough, R. C. (M)
Marsh, R. H. (A)
Martin, O. J. (M)
McCormick, J. M. (SM)
Meeker, J. G. (A)
Melcher, R. J. (A)
Morrison, E. (A)
Murley, E. M., Jr. (M)
Naborowski, J. G. (M)
Netermyer, R. L. (A)
Neuert, H. L. (M)
Patay, J. J. (A)
Petty, D. E. (A)
Pierce, E. W. (M)
Rees, V. C. (A)
Reynolds, F. L. (A)
Richards, D. K. (M)
Rosencrantz, M. E. (M)
Rowe, H. N. (M)
Rynder, L. S. (M)
Schnell, W. S. (A)
Schoor, V. M. (M)
Sheckler, L. D. (M)
Shodies, H. F. (M)
Simonds, C. S. (M)
Stringfellow, W. M. (SM)
Szymkowiak, E. (A)
Vincent, H. B. (SM)
Wallace, G. A. (A)
Weeber, R. E. (M)
Wooster, W. H. (A)

Trotwood (DAY-4)
Helbig, E. M. (A)
Sadow, R. M. (A)
Weissman, S. (SM)

Troy (DAY-4)
Benedict, D. E. (A)
Hook, G. E. (A)
Schmidt, H. J. (M)
Sutton, G. L. (M)

Twinsburg (AKR-4)
Howard, W. R. (A)

Union (DAY-4)
Apple, R. C. (M)
Learish, H. B. (SM)

University Heights (CLE-4)
Brown, L. H. (A)
Goldfarb, J. (M)
Roth, M. S. (M)
Williams, H. C. (M)

Vandalia (DAY-4)
Mayer, J. M. (A)
Patrie, J. D. (A)
Weinstein, G. E. (A)

Van Wert (FT-W-5)
Conley, W. H. (M)
Lindsay, J. T. (M)

Wadsworth (AKR-4)
Steigerwalt O. I. (M)
Vaughan, T. J. (M)

Walbridge (TOL-4)
Corathers, C. N. (M)
Dehring, J. C. (M)

Warren (AKR-4)
Atwood, W. L. (SM)
Ensall, T. (M)
Marshall, E. L. (VA)
Parlas, J. L. (SM)
Sherman, A. (M)
Sprague, W. L. (M)

Warrensville (CLE-4)
Davis, S. (M)

Waynesville (DAY-4)
Puterbaugh, W. H., Jr. (M)

West Carrollton (DAY-4)
Sonnanstine, E. H., Jr. (A)
Springer, L. D. (A)

West Chester (CIN-4)
Forbes, H. R. (M)

Westerville (COL-4)
Harris, E. L. (A)
Hodge, R. M. (A)

Westlake (CLE-4)
Albrecht, W. (M)
Fletcher, E. S. (SM)
Odell, M. P. (SM)
Seybold, J. F. (A)

West Richfield (AKR-4)
Bear, N. (A)

West Union (CIN-4)
Malone, W. D. (M)

Wickliffe (CLE-4)
McNeill, T. J. (A)
Schwaller, F. A. (M)

Willoughby (CLE-4)
Ferber, L. W. (SM)
Hodina, E. G. (M)
Sacha, R. J. (A)

Willoughby Hills (CLE-4)
Blauvelt, R. C. (SM)

Willowick (CLE-4)
La Joe, J. (M)
Martin, T. J. (M)
Mason, R. F. (A)
Rowe, L. R. (A)

Woodville (TOL-4)
Nitschke, N. C. (M)

Wooster (AKR-4)
Mullen, H. P., Jr. (A)
Strock, R. E. (A)

Worthington (COL-4)
Clutter, E. C. (A)
Conlon, R. J. (M)
Crane, N. B., Jr. (M)
Davis, W. C. (SM)
Kean, P. M., Sr. (A)
Taylor, R. C. (M)
Van Buskirk, R. C. (A)
Wyler, E. N. (M)

Wright-Patterson AFB (DAY-U-4)
Ainstutz, S. R. (M)
Bolick, H. H., Jr. (M)
Bretthauer, L. G. (M)
Brittain, J. F. (A)
Bryan, C. W. (M)
Corbin, M. W. (A)
Deegan, T. J. (A)
Donovan, P. R. (M)
Dukes, E. F., Jr. (A)
Eiler, G. H. (A)
Etteredge, V. L. (M)
Fenton, R. E. (M)
Francis, L. G. (M)
Glushko, W. (A)
Gregory, J. W. (A)
Hancman, V. S., Jr. (M)
Hayes, R. L. (M)
Hesse, A. W. (M)
Hill, J. H. (A)
Hitzenhammer, A. D. (SM)
Houpis, C. H. (M)
Israel, L. J. (SM)
Janer, R. (M)
Jones, E. D., Jr. (M)
Jones, W. D. (M)
Kennedy, J. V. (A)
King, J. D. (A)
Lanford, H. W., Jr. (SM)
Little, T. D. (A)
Lundquist, G. J. P. (A)
Macpherson, G. W. (A)
Matthews, A. R. (SM)
McLean, M. H. (M)
Metscher, W. (M)
Mims, J. H. (A)
Oliveros, C. G., Jr. (A)
Peot, H. G. (A)
Prohaska, C. R. (M)
Pulling, B. S. (M)
Reed, R. C. (SM)
Regulinski, T. L. (M)
Rhude, D. P. (M)
Roberts, C. L. (M)
Schulherr, R. M. (SM)
Schwartz, D. M. (M)
Scott, J. W. (M)
Shadburn, T. H. (M)
Shankland, D. G. (M)
Smith, C. V. (M)
Stern, T. E. (M)
Sybenga, P. M. (M)
Taylor, P. R. (SM)
Thomas, C. P. (A)
Tom, H. (M)

Wyoming (CIN-4)
Boleubaugh, R. K. (M)
Bruck, G. (SM)
Wahl, A. C. (M)
Zupansky, M. (A)

Xenia (DAY-4)
Anderson, C. W. (VA)
Apostolos, T. (M)
Baker, W. W. (SM)
Cox, H. L., Jr. (A)
Doran, R. J. (SM)
Doyle, C. E. (A)
Gearhart, J. J. (A)
Holt, T. (A)
Knight, L. B. (M)
Michaelson, B. L. (A)
Myszko, R. (A)
Noble, H. V. (F)
Nordlund, R. J. (SM)
O'Brien, W. R. (M)
Russell, J. W. (A)
Walker, R. V. (M)
Waugh, R. E. (M)

Yellow Springs (DAY-4)
Aschbacher, S. J. (M)
Carr, D. L. (A)
Colbert, C. (SM)
Nosker, P. W. (SM)
Obermayer, R. W. (M)
Otten, K. W. (M)

Youngstown (AKR-4)
Carmichael, P. D. (M)
Cherpack, J., Jr. (M)
Conroy, M. J. (A)
Dieringer, F. A. (VA)
Everett, T. D. (A)
Greene, R. L. (M)
Hirt, A. J. (A)
Houseau, C. M., Jr. (A)
Nyberg, W. C. (A)
Phillips, R. G. (A)
Ross, N. V., Jr. (A)
Small, J. P. (M)
Umbach, L., Jr. (M)
Williamson, W. P., III (A)

Zanesfield (TOL-4)
Snyder, H. D. (A)

Zanesville (PIT-4)
Hatfield, F. A. (A)
Hunt, W. A. (M)
Thompson, C. O. D., Jr. (M)

OKLAHOMA

Altus (OC-6)
Arens, V. R. (M)

Ardmore (OC-6)
Burke, B. (A)
Pryga, J. F. (A)
Rollins, C. W. (A)

Bartlesville (TUL-6)
Bondurant, J. E. (M)
Brashear, R. T. (M)
Dale, H. C. (M)
Freeman, L. R. (M)
Greening, J. P. (A)
Hensley, W. A. (M)
Johnson, E. W. (M)
Kindred, R. L. (A)
Kline, M. E. (M)
Owen, J. D. (M)
Piety, R. G. (M)
Walker, J. F. (M)

Bethany (OC-6)
Hill, W. M. (M)
Jackson, M. H. (M)

Broken Arrow (TUL-6)
Smith, D. (A)
Tompkins, H. S. (A)

Choctaw (OC-6)
Kovar, P. (SM)

Coweta (FUL-6)
Higgins, H., Jr. (A)

Coyle (OC-6)
Shellhammer, O. K. (M)

Duncan (OC-6)
Copland, G. V. (M)
Hulme, J. R. (M)

El Reno (OC-6)
Crawford, D. M. (A)

Enid (OC-6)
Tennison, D. B. (A)

Fay (OC-6)
Conner, J. B. (M)

Fort Sill (OC-6)
Brown, B. W. (A)
Donaghy, J. F. (A)
Hahn, J. H. (M)
Laprad, Q. C. (A)

Frederick (OC-6)
Jones, J. D., Jr. (SM)

Kinta (TUL-6)
Stowell, N. J. (M)

Lawton (OC-6)
Hudson, B. J. (A)
Jones, A. H. (M)
Shores, D. D. (A)
Theroux, G. L. (M)
Wilson, H. D. (M)

Miami (TUL-6)
Wetherell, M. L. (M)

Midwest City (OC-6)
Bierach, K. F., Jr. (M)
Boyd, W. L. (M)
Crane, R. B. (A)
Davis, A. C. (M)
Duff, J. B. (A)
Ferguson, J. W. (A)
Frey, W. A. (A)
Gilmore, E. H. (A)
Hansen, E. N. (A)
Headstrom, R. L. (M)
Hedson, H. D. (A)
Hutton, J. E. (M)
McDonald, T. K. (SM)
Rauscher, A. I. (M)
Roben, H. (A)
Villines, F. S. (M)
Weaver, T. H., Jr. (M)
Weisiger, J. M. (M)
Wood, R. L. (M)

Moore (OC-6)
Gordon, J. B. (A)

Muskogee (TUL-6)
Hardesty, R. D. (M)

Norman (OC-6)
Brewster, A. H., Jr. (A)
Challenner, A. P. (SM)
Dorsett, L. G. (A)
Edwards, O. L. (A)
Farrar, C. L. (SM)
Green, B. B. (M)
Grubbs, C. E. (M)
Harp, C. E. (SM)
North, R. C., Jr. (M)
Palmer, J. D. (M)
Puckett, T. H. (M)
Simmons, G. J. (M)
Tuma, G. (SM)
Vlay, G. J. (M)
Warren, J. D. (M)

Okemah (TUL-6)
Gates, J. L., Jr. (A)

Oklahoma City (OC-6)
Adams, R. G. (M)
Allbright, B. D. (M)
Ashby, R. H. (M)
Barker, M. W. (M)
Barnett, J. E. (A)
Bastian, L. R. (M)
Battenburg, N. (M)
Berry, G. P. (M)
Black, E. (M)
Bolay, C. E. (A)
Bowen, L. M. (A)
Bower, H. H., Jr. (M)
Brown, R. W., Jr. (M)
Buettner, N. G. (M)
Callihan, E. S. (M)
Cherry, R. B. (A)
Clifton, J. L. (M)
Clinkenbeard, H. A. (M)
Costellow, L. H. (M)
Crippen, E. G. (M)
Cross, C. C. (M)
Daniels, C. L. (M)
Daugherty, L. C. (M)
Daugherty, W. M. (M)
Delbridge, J. D. (M)
Dick, C. W. (M)
Diggs, B. H. (M)
Drumeller, C. C. (M)
Easum, C. M. (M)
Ebner, W. H. (M)
Edlund, R. W. (M)
Ely, D. H. (M)
Emery, M. (A)
Farrow, C. L., Jr. (M)
Faux, W. H., Jr. (M)
Fillebrown, A. R. (M)
Fish, R. L. (A)
Foster, E. W. (M)
Hall, J. R. (M)
Hammer, F. E. (M)
Hannan, C. V., III (A)
Harnden, L. W. (M)
Hart, C. O. (M)
Herriott, J. K., Jr. (A)
Herrmann, F. (M)
Hilmes, E. F. (M)
Hines, J. W. (M)
Holaday, D. F. (M)
Holt, G. W. (SM)
Hurst, K. J. (M)
Jackson, F. L. (M)
Jackson, J. H., Jr. (M)
Jones, E. L. (M)
Kruger, K. W. (M)
Kuehne, A. (A)
Kuether, Q. W. (M)
Ledbetter, R. P. (M)
Le Fevre, F. W. (M)
Lydick, J. D. (M)
Lyons, E. F. (M)
Marrinan, H. J. (M)
Martin, M. M. (M)
Maunder, E. R. (M)
McGowan, C. W. (A)
McKinley, H. W. (SM)
Michaels, G. (A)
Miller, I. S. C. (M)
Monkres, J. P. (M)
Moore, A. E. (M)
Morris, R. K. (M)
Mueller, C. W. (SM)
Murar, E. J. (M)
Murta, E. J., Jr. (M)
O'Brien, E. G. (M)
O'Neal, R. K. (A)
Owen, B. D. (SM)
Park, R. K. (M)
Persson, K. R. (M)
Phillips, H. E. (M)
Pickett, R. N. (M)
Ramsey, O. B., Jr. (M)
Rea, R. W. (M)
Redding, P. B. (A)
Reynolds, J. (M)
Ricciotti, S. (M)
Rogers, A. L. (M)
Sala, K. E. (M)
Shaw, J. E. (M)
Sheaffer, C. F. (VA)
Sober, V. (M)
Spooner, A. J. (M)
Sroufe, J. G., Jr. (A)
Steed, G. H. (M)
Stevens, T. W. (A)
Swenson, H. T. (M)
Sypherd, R. S. (M)
Tanner, J. H. (A)
Thomas, M. W. (SM)
Waddell, R. E. (M)
Waits, L. E. (A)
Walker, S. I. (M)
Watkins, P. E. (M)
Welch, P. G. (M)
Wells, F. D. (M)
Wichels, J., Jr. (M)
Wright, T. E. (M)
Zelinger, F. F. (M)

Okmulgee (TUL-6)
Miller, W. A. (A)

Pauls Valley (OC-6)
Williams, F. G. (M)

Perry (TUL-6)
Graham, W. L. (M)

Ponca City (TUL-6)
Brown, G. L. (M)
Conger, N. L. (A)
Doty, W. E. N. (M)
Fair, D. W. (M)
Flucard, W. B. (A)
Gray, R. T. (A)
Hall, M. L. (M)
Horwitz, L. B. (SM)
Karr, R. J. (A)
Rochelle, C. A. (A)
Schlesinger, P. J. (M)
Sullivan, D. S. (M)
Wann, L. D. (A)

Sand Springs (TUL-6)
Goatcher, H. Z. (A)
Roop, L. H. (A)
Stullken, R. D. (A)

Seminole (OC-6)
Smith, G. L. (M)

Shawnee (OC-6)
Johnson, L. W. (M)
Wells, E. W. (M)
Wood, G. J. (A)

Stillwater (TUL-6)
Buck, R. F. (M)
Cairns, T. W. (M)
Cameron, C. F. (M)
Fristoe, H. T. (SM)
Fucci, E. A. (A)
Hallett, P. C. (M)
Jones, H. L. (SM)
Kobos, F. (A)
Koepsel, W. W. (M)
Labarthe, L. C. (M)
Lingelbach, D. D. (M)

Tinker AFB (OC-6)
Bellmore, M. (M)
Wilson, W. (A)

Tulsa (TUL-6)
Alexander, W. A. (A)
Allen, J. J. (A)
Atchison, R. L. (M)
Austin, R. A. (M)
Barnes, E. M., Jr. (A)
Biggs, M. A. (A)
Blackman, B. A. (A)
Born, W. T. (F)
Bowman, D. C. (M)
Boylan, W. F. (M)
Braidwood, D. W. (A)
Broding, R. (SM)
Brooks, L. C. (M)
Buck, J. H. (SM)
Buffum, C. E. (SM)
Burns, K. N. (A)
Burton, R. G. (M)
Bushnell, J. M., Jr. (A)
Care, W. G. (A)
Casey, J. L. (M)
Cheney, J. F. (M)
Childress, J. C., Jr. (A)
Cooley, J. A. (M)
Cooper, J. R. (SM)
Cordell, L. B. (M)
Cordell, R. L. (M)
Craig, D. H. (A)
Crom, C. L. (M)
David, W. O. (A)
Davis, D. R. (A)
Day, C. E. (M)
Deming, J. M. (A)
Dennis, J. R. (A)
Dikmen, B. (M)
Donley, M. M. (A)
Draheim, L. H. (M)
Duerig, W. H. (A)
Dunn, C. S. (M)
Durham, E. R. (A)
Earthman, J. C. (M)
Eisler, J. D. (SM)
Ellis, R. M. (SM)
Ewing, T. N. (M)
Favors, E. L. (A)
Ferguson, H. B. (M)
Ferguson, P. M. (M)
Field, H. S. (M)
Finn, R. S. (M)
Fisher, J. L. (A)
Fisher, R. B. (M)
Flury, H. E. (A)
Fouts, C. G. (A)
Freeman, F. R. (M)
Giles, C. S. (A)
Gladson, G. G. (M)
Graham, R. W. (SM)
Green, G. C. (A)
Hadley, C. F. (SM)
Harper, F. N. (M)
Hart, R. N. (M)
Harts, W. G. (M)
Hawkins, J. E. (SM)
Hearn, D. P. (M)
Hibbard, H. C. (A)
Hill, J. K. H. (A)
Hollingsworth, R. B. (A)
Holmes, E. J. (A)
Hooker, L. H. (A)
Hopkinson, E. C. (A)
Howell, W. R., Jr. (M)
Hunsicker, W. R. (M)
Hussey, C. V., Jr. (A)
Hutchinson, H. M., Jr. (A)
Irvin, R. G. (A)
Jacobs, G. G. (A)
Kammerzell, C. E. (A)
Kartman, D. J. (M)
Keller, B. H. (A)
Kenton, J. K. (M)
Klemm, H. L. (M)
Koeppel, B. W. (M)
Lang, H. M. (SM)
Lash, C. C. (SM)
Lippman, L. (M)
Lopez, J. L. (A)
Luong, V. B. (A)
Lynn, R. D. (M)
MacLaughlan, G. S. (A)
Mahoney, E. H. (M)
Marshall, B. R. (A)
Martin, H. H., Jr. (A)
Matthews, C. G. (A)
McCoy, B. F. (A)
McFarland, R. L. (M)
Miller, J. W. (SM)
Miller, R. A. (A)
Mitchell, R. W., Jr. (M)
Moon, C. L. (A)
Murphy, W. J. (M)
Newton, G. R. (SM)
Nichols, R. L. (A)
Norris, W. F. (M)
O'Reilly, G. A. (SM)
Orsak, A. J. (A)
Peterson, G. (SM)
Phillips, H. W. (SM)
Reid, A. C. (M)
Roach, M. L. (A)
Roe, E. O. (A)
Shelton, H. C. (A)
Silverman, D. (F)
Smith, L. H. (A)
Smith, R. (A)
Sorge, W. A. (M)
Stover, E. B., Jr. (M)
Sutherlin, R. F. (M)
Sweeny, A. C., Jr. (A)
Swift, G. (M)
Sykora, G. E. (A)
Tenney, F. T. (A)
Voorheis, T. E. (A)
Walker, J. V. (M)
Watkins, R. E. (M)
Watson, R. E. (A)
Wattenbarger, W. W. (A)
Weinroth, S. A. (M)
Weir, J. B. (A)
Weldon, W. J. (A)
Westervelt, J. C. (A)
Whitlock, J. R. (M)
Wilcox, R. L. (A)
Willits, G. N. (A)
Wilson, B. F. (M)
Wolkov, D. (SM)
Wood, G. A. (A)
Wooten, J. R. (A)
Zenor, H. M. (SM)
Zimmerman, C. W. (M)
Zongker, R. C. (M)

Wilson (OC-6)
Glenn, R. D. (M)

Yukon (OC-6)
Rice, P. G. (M)

OREGON

Beaverton (POR-7)
Calnon, D. C., Jr. (M)
Gasser, C. D. (A)
Jenkins, R. W. (M)
Kobbe, J. R. (M)
Macpherson, C. H. (M
Rice, R. G. (A)
Schiller, J. D. (A)
Tinker, F. B. (A)
Trump, W. E. (A)

Clackamas (POR-7)
Pickett, R. A. (A)

Corvallis (POR-7)
Albert, A. L. (F)
Ballard, B. J. (M)
Feikert, G. S. (SM)
Huber, S. J. (M)
Hunnicutt, A. L. (M)
Jensen, L. C. (A)
Looney, J. C. (M)
Mesecar, R. S. (M)
Michael, R. R. (M)
Oorthuys, H. J. (SM)
Stone, L. N. (M)
Stone, S. A. (M)
Weber, L. J. (M)
Yunker, E. A. (SM)

Eugene (POR-7)
Balint, J. E. (SM)
Hoppe, P. R. (A)
Marchner, T. C. (A)
Surdam, E. L. (M)

Gresham (POR-7)
Nichols, J. S. (M)

Hillsboro (POR-7)
Kelsey, G. M. (A)
Scott, H. D. (A)

Klamath Falls (POR-7)
Cramer, K. H. (A)
DuWane, W. H. (A)
Orrell, D. B. (M)

McMinnville (POR-7)
Anderson, C. M. (M)
Bennett, S. D. (SM)
Brock, E. G. (SM)
Dyke, W. P. (M)
Sleeth, J. D. (M)
Strayer, R. W. (M)

Medford (POR-7)
Walker, V. G. (VA)

Oswego (POR-7)
Smith, D. E. (SM)
Wray, J. B. (A)

Philomath (POR-7)
Plunkett, D. T. (A)

Portland (POR-7)
Allen, W. M. (SM)
Austin, L. C. (A)
Bailey, R. L. (A)
Bartch, H. (A)
Belusko, J. V. (A)
Bishop, A. R. (M)
Bookwalter, L. S. (VA)
Broms, B. H. (A)
Brown, F. M. (M)
Carpenter, C. B. (SM)
Corbett, H. L., Jr. (M)
Corbett, T. (A)
Craycraft, H. T. (A)
Cutting, W. A. (M)
Dallas, W. K. (SM)
Davis, K. E. (A)
Davis, R. J. (SM)
Day, J. E. (A)
Deardorff, R. W. (F)
Delord, J. F. (SM)
Doel, D. (M)
Donoghue, J. J. (M)
Easterday, R. B. (A)
Ellis, D. G. (A)
Ellis, P. V. (M)
Ellison, G. C., Jr. (M)
Erwin, J. A. (M)
Fox, R. A. (M)
Franzel, D. E. (M)
Gard, J. J., Jr. (M)
Gert, E. B. (A)
Gibson, C. B., Jr. (A)
Glover, M. H. (M)
Goard, R. W. (A)
Gotcher, A. W. (A)
Griffith, J. W. (A)
Groeger, E. R. (M)
Grossenbacher, A. C. (A
Hashizume, G. K. (M)
Heath, H. W. (A)
Hedrick, L. C. (SM)
Henderson, J. E. (A)
Herren, R. A. (M)
Hollingsworth, K. M. (A)
Holtzman, M. (M)
Hood, F. D. (M)
Horseman, T. E. (M)
Jackson, F. E. (A)
James, T. W. (M)
Johnson, D. E. (SM)
Johnston, G. I. (M)
Keyser, K. E. (A)
Koroch, L. R. (A)
Krausse, J. B. (A)
Leech, E. R. (M)
Liedtke, J. A. (A)
Lund, C. W. (SM)
Lyon, W. C. (A)
Marihart, D. J. (A)
Marsh, W. E. (M)
McCann, F. H. (SM)
McCutcheon, S. R. (M)
McEdward, F. A. (M)
McFarland, B. N. (M)

McLennan, J. D. (M)
Meissner, E. R. (SM)
Mendoza, D. C. (M)
Miller, F. E. (SM)
Miller, V. F. (A)
Morey, A. M. (M)
Morgan, M. L. (A)
Morin, L. A. (M)
Moulton, C. H. (M)
Nelson, D. E. (A)
Newhouse, D. R. (M)
Nolan, C. A. (M)
Olsen, R. M. (M)
Paul, B. R. (VA)
Perletti, P. V. (M)
Peterson, R. M. (M)
Pittard, F. L. (M)
Polits, W. J. (A)
Pooley, R. R. (M)
Poulin, R. A. (M)
Quinn, A. C. (M)
Raupach, R. C. (A)
Reilly, J. A. (A)
Rhiger, R. R. (M)
Richardson, W. E. (M)
Riley, J. C. (M)
Ritter, H. C. (A)
Roberts, J. M. (SM)
Roberts, M. L. (A)
Rogers, E. J. (M)
Ropiequet, R. L. (SM)
Schmidt, R. W. (M)
Schmitt, G. W. (A)
Schmitt, W. L. (M)
Scott, E. D. (SM)
Senseney, G. T. (A)
Shantz, C. J. (A)
Shelley, A. L. (M)
Single, E. P. (M)
Singleton, H. C. (SM)
Stoll, J. L. (M)
Strain, D. C. (M)
Tabshy, S. J. (M)
Terrill, F., Jr. (A)
Thompson, W. S. (A)
Thomson, A. (M)
Tunturi, A. R. (A)
Tyle, A. B. (SM)
Vassallo, W. H. (A)
Vollum, H. (F)
Warchol, E. J. (M)
Weiss, L. S. (A)
White, L. C. (M)
Wilhoit, D. I. (M)
Winkler, L. R. (VA)
Wold, D. C. (A)
Worden, A. E. (A)

Salem (POR-7)
Hannon, G. A. (M)
Hart, F. J. (A)
Hoskins, R. E. (A)
Purbrick, R. L. (M)
Stangland, D. E. (A)
Wane, W. M. (A)

Sherwood (POR-7)
Long, L. A. (M)

The Dalles (POR-7)
Curtis, H. T. (M)
Stuart, C. J. (M)

Tigard (POR-7)
Eliander, H. F., Jr. (M)
Kidd, D. E. (M)
Webber, W. B. (M)

PENNSYLVANIA

Abington (PHI-3)
Adams, K. (M)
Alter, A. R. (SM)
Batiuk, R. A. (M)
Booker, R. W. (M)
Dittrich, W. A. (A)
Forsyth, W. A., Jr. (M)
Lounsberry, E. P. (M)
Remich, J. E. (A)
Schellenberg, P. J. (A)
Tarzian, V. (A)
Vantine, H., Jr. (SM)
Young, C. P. (SM)

Adah (PIT-4)
Bohar, J. (M)

Aldan (PHI-3)
Gahagan, J. R. (M)
Heacock, R. J. (A)

Aliquippa (PIT-4)
Haluga, M. G. (A)

Allentown (P-LV-3)
Amron, I. (A)
Bolez, E. C. (A)
Bradford, C. E. (M)
Buehler, P. R. (M)
Chaplin, N. J. (A)
Cordaro, C. F. (A)
Gingrich, C. C., Jr. (M)
Hansen, E. (M)
Hanson, F. E. (SM)
Hanson, G. H. (M)
Herbert, N. J. (SM)
Hittinger, W. C. (A)
LeLacheur, R. M. (M)
McGrath, J. W. (SM)
Momenthy, A. M. (M)
Newhard, C. E. (M)
Paulsen, J. F. (SM)
Purcell, R. H. (SM)
Ronci, V. L. (SM)
Rutter, V. E. (M)
Savadelis, I. C. (M)
Simpson, A. D. (SM)
Stubner, F. W. (M)
Sutter, D. M. (A)
Szabo, W. (M)
Tabor, C. J., Jr. (A)
Taylor, E. W. (M)
Taylor, R. R. (VA)
Tooker, H. A. (SM)
Von Ohlsen, L. H., Jr., (M)
Waltz, M. C. (SM)
Watson, H. A. (M)
Westberg, R. W. (A)
Whitner, R. A. (M)
Young, C. S. (SM)
Zuk, P. (M)

Allison Park (PIT-4)
Joller, C. R. (A)
Mink, R. E. (M)

Altoona (PIT-4)
Erhard, J. L. (M)
Figart, E. C. (M)
Schwartz, E. (M)

Ambler (PHI-3)
Colussi, E. J. (M)
Conroy, J. F. (A)
Davidson, D. R. (M)
Dosch, V. F. (M)
Fanu, N. M. (A)
Gehman, P. A. (M)
Grabiec, J. J. (M)
Gruensfelder, K. (M)
Jensen, C. L. (M)
Kusma, P., Jr. (A)
Leonard, J. F. (M)
O'Meara, W. J. (M)
Schoenberg, J. P. (M)
Simmons, C. D. (A)
Sommer, E. H., Jr. (M)
Swift, M. E. (SM)
Voorhoeve, E. W. (A)

Ambridge (PIT-4)
Joseph, G. P. (M)

Ardmore (PHI-3)
Cheng, T. (M)
Churchill, H. J. (M)
Elizondo, E. L. (M)
Fuller, L. C., Jr. (M)
McDonnell, J. A. (SM)
Meyer, C. B. (M)
Norton, R. (A)
Oliver, G. A. (M)
Rothenheber, N. (A)

Ardsley (PHI-3)
Merrihew, H. W. (M)
Schweiss, W. W. (M)

Arnold (PIT-4)
Ceschini, E. S. (M)

Bakerstown (PIT-4)
Mag, A. (VA)

Bala-Cynwyd (PHI-3)
Baron, R. C. (M)
Bresson, J. (M)
Callender, E. M. (M)
Eachus, I., Jr. (SM)
Frederick, L. G. (M)
Friend, A. W. (F)
Kushner, E. E. (A)
Messmer, W. J., Jr. (M)
Roop, R. W. (SM)
Sorkin, C. S. (A)
Steinberg, B. D. (A)
Sunstein, D. E. (F)

Bangor (P-LV-3)
Comes, R. G. (A)

Bath (P-LV-3)
French, I. F. (M)

Bedminster (P-LV-3)
Moyer, L. K. (VA)

Bellefonte (CP-4)
De Barber, J. P. (SM)
Harvey, H. B. (M)
Holter, D. H., Jr. (M)
Lyon, C. M. (A)
Stevenson, F. R. (M)
Wallace, R. P. (SM)

Belle Vernon (PIT-4)
Radock, C. (A)

Bentleyville (PIT-4)
Vertar, J. A. (A)

Bernville (PHI-L-3)
Gantert, A. (A)

Berwyn (PHI-3)
Andrews, B. I. (A)
Baker, B. A. (M)
Barnes, G. H. (A)
Brown, L. R. (SM)
Bullard, H. (A)
Hoberg, G. G. (SM)
Kenosian, H. (M)
Michaels, C. J., Jr. (A)
Murray, K. W. (M)
Phelan, L. T. (A)
Reid, C. R. (SM)
Schultz, M. A. (M)
Tate, H. J. (M)
Taylor, C. A. (SM)
Williams, R. J., III (M)
Youtcheff, J. S. (M)

Bethel Park (PIT-4)
Augenstene, M. G. (M)
Donahue, R. O. (A)
Fairey, T. E. (M)
Grace, J. N. (M)
Sander, H. F. (M)

Bethlehem (P-LV-3)
Downing, H. L. (VA)
Elder, H. E. (A)
Embree, M. L. (A)
Gardner, E. E. (M)
Hattery, W. V. (M)
Karakash, J. J. (SM)
Kircher, C. J. (M)
Larky, A. I. (M)
Lisle, J. (M)
McCracken, L. G., Jr. (SM)
Posivak, J. S., Jr. (M)
Simpson, R. H. (M)
Stauffer, R. E. (M)
Wagner, R. E. (M)
Wahl, A. (M)

Birchrunville (PHI-3)
Stevens, A. W. (A)

Blawnox (PIT-4)
Belinsky, O. A. (A)

Blue Bell (PHI-3)
Kieslich, W. G. (M)
Parnell, J. (M)
Van Name, J. M. (M)

Boalsburg (CP-4)
Bennett, P. E. (M)
Harris, D. E. (SM)
Kaprocki, F. E. (M)
Slear, L. S., Jr. (M)
Smitley, C. R. (A)

Brackenridge (PIT-4)
Monnier, H. E. (M)

Braddock (PIT-4)
Zygmunt, H. J. (M)

Bradford (EMP-4)
Biss, M. W. (A)
Johns, S. E., Jr. (M)
McCann, R. W. (A)
McKnight, G. P. (SM)
Schermerhorn, F. G. (A)

Bridgeport (PHI-3)
Berkowitz, M. (SM)
Busch, E. G. (M)
Cohen, M. J. (SM)
Dix, T. S., Jr. (SM)
Gibson, H. C., Jr. (M)
Hand, G. C., Jr. (M)
Holeczy, A. A. (A)
Kutner, N. H. (M)
Levy, L. G. (M)
Payne, R. E. (SM)
Rosen, H. H. (SM)
Selinsky, J. J. (M)
Swelgart, A. S. (A)
Wright, J. A. (M)

Bridgeville (PIT-4)
Tury, S. F. (A)

Bristol (PHI-3)
Annett, M. E. (A)
French, C. G. (M)

Brookville (EMP-4)
Calvert, R. B. (M)
Emerick, L. C. (M)
Englehardt, W. K. (M)
Georgek, S. C., Jr. (M)
Porsch, A. W. (M)
Say, D. L. (M)

Broomall (PHI-3)
Benn, R. E. (M)
Boonin, N. B. (M)
Caplan, D. I. (M)
Dieson, S. B. (M)
Eells, W. A. (M)
Gray, R. L., Jr. (A)
Kessler, F. L. (M)
Mason, E. A. (M)
Mercado, P. D. (A)
Muroff, J. M. (A)
Picus, F. (M)
Pressede, D. J. (M)
Scalzetti, M. R. (M)
Streater, A. L. (M)
Thompson, G. H., Jr. (A)
Thompson, L. G. (M)
Walkling, R. W. (M)
Zechter, S. (SM)

Bryn Athyn (PHI-3)
Gyllenhaal, P. R. (A)
Simons, K. A. (M)

Bryn Mawr (PHI-3)
Anderson, R. F. (M)
Bartlett, F. F. (M)
Chow, C. K. (M)
Dinackus, H. G. (A)
Gardiner, F. J. (SM)
Harman, G. F., Jr. (A)
Hertzberg, J. M. (M)
Kimp, H. D. (SM)
Masterson, E. (M)
Rawle, J., III (A)
Reich, A. L. (M)
Sumerlin, W. T. (SM)

Bustleton (PHI-3)
Just, G. A. (A)

Butler (PIT-4)
Barton, R. L. (A)
Olmsted, R. W. (M)
Wakeman, C. B. (M)

Camp Hill (PHI-L-3)
Austin, R. C. (A)
Ayer, W. T. (M)
Berry, J. D. (A)
Eisenhard, S. E., Jr. (M)
Green, R. H. (A)
Jolkovski, J. (M)
Morris, G. W. (M)
Peterson, R. K. (M)
Sponeybarger, J. O. (M)

Canonsburg (PIT-4)
Lybarger, S. F. (SM)
Sulkowski, E. L. (M)

Carbondale (PHI-3)
Finlon, J. J. (M)

Carlisle (PHI-L-3)
Fourlas, N. J. (A)
Hoffman, P. R. (SM)
Lerch, D. P. (M)
Mann, C. W. (A)
Meyers, K. D. (M)
Rycuky, S. (M)
Spease, G. E. (A)
Van Gavree, R. L. (A)

Carlisle Barracks (PHI-L-3)
Goodrich, R. H. (M)

Carnegie (PIT-4)
Kinney, J., Jr. (A)
La Sota, L. S. (A)

Central City (PIT-4)
Bloom, R. D. (A)

Centre Hall (CP-4)
Hackman, H. R. (M)

Chalfont (PHI-3)
Brenner, W. F. (A)
Christensen, H. E. (A)
Curtis, C. T. (M)
Rexon, L. (M)
Whallon, W. P., Jr. (M)

Cheltenham (PHI-3)
Eckert, J. F., Jr. (A)
Gero, B. C. (A)
Himmer, F., Jr. (SM)
Hoagland, C. C. (SM)
Pinter, P. J. (M)
Sheldon, H. W. (SM)

Chester (PHI-3)
Dietze, H. O. (A)
McLaughlin, J. A. (M)

Cheswick (PIT-4)
Lee, C. H. (M)
Murray, D. W. (A)
Peters, J. E. (M)

Churchill Boro (PIT-4)
Osial, T. A. (SM)

Churchville (PHI-3)
Adezio, L. S. (M)
Kirk, D., Jr. (M)
Syako, S. J. (M)
Uphoff, F. B. (A)

Clarendon (EMP-4)
Haines, H. M. (M)

Clarks Green (PHI-3)
Blackford, W. (SM)
Moeller, K. F. W. (M)

Clarks Summit (PHI-3)
Decino, A. (SM)
Thomas, J. E. (SM)

Clearfield (EMP-4)
Bolton, S. W. (M)
Boyd, J. C. (SM)
Diehl, W. F. (F)
Hosoda, J. (A)

Clifton Heights (PHI-3)
Allen, G. P. (A)
Bradley, W. E. (A)
Hood, C. E. (M)
Kozikowski, J. L. (M)
Lobel, D. J. (M)
Lombardini, P. P. (SM)
Riley, P. J. (M)
Werbickas, J. P. (A)

Collegeville (PHI-3)
Burleigh, R. P. (M)
Messenger, G. C. (A)
Smith, R. M. (A)

Collingdale (PHI-3)
Fritz, C. H. (M)
Minahan, W. G. (M)

Conemaugh (PIT-4)
Holub, J. (M)
Yasko, R. N. (M)

Conestoga (PHI-L-3)
Landis, C. G. (M)
Scholz, K. W. (A)

Connellsville (PIT-4)
Gillott, D. H. (M)

Conshohocken (PHI-3)
Blumenthal, E. I. (M)
McKenna, J. R. (A)
Milliken, E. N. (A)

Coopersburg (P-LV-3)
Miller, R. F. (M)

Coraopolis (PIT-4)
De Lutis, T. (M)
Williams, H. P., III (A

Cornwells Heights (PHI-3)
Baskin, E. B. (A)
Douthwaite, W., Jr. (M)

Coudersport (EMP-4)
Du Bois, A. F. (M)

Creighton (PIT-4)
Sherwin, G. W. (A)
Umbel, F. K. (A)

Croydon (PHI-3)
Busch, S. D. O. (M)
Erickson, M. L. (A)

Crum Lynne (PHI-3)
Dale, J. D. (A)

Curwensville (EMP-4)
Bowman, D. P. (M)

Cynwyd (PHI-3)
Follensbee, W. R. (A)
Polheinus, G. C. (M)
Prywes, N. S. (M)

Dallas (PHI-3)
McDonald, K. D. (M)

Delphi (PHI-3)
Richard, C. D., Jr. (M)

Derry (PIT-4)
Shaffer, R. E. (A)

Devon (PHI-3)
Bell, P. F. (M)
Denk, W. E. (M)
Hauptli, J. T. (A)

Dickson City (PHI-3)
Dunn, J. E. (M)
Srebro, J. L. (A)

Dillsburg (PHI-L-3)
Zerby, A. B. (M)

Donora (PIT-4)
Grant, D. (A)

Downington (PHI-3)
Bittmann, E. E. (M)
Jensen, D. W. (M)
Schwartz, B. (A)

Dowlestown (PHI-3)
Benecke, H. O. (SM)
Biggs, J. A. (M)
Davis, R. W., Jr. (SM)
Doelp, W. L., Jr. (A)
Gerlach, G. G. (SM)
Mulherin, E. M. (M)
Schweitzer, R. W. (M)
West, H. (M)

Dresher (PHI-3)
Spielman, H. (M)

Drexel Hill (PHI-3)
Boyajian, M. M. (A)
Chudleigh, W. H., Jr. (SM)
Dimmler, H. F. (A)
Ditkofsky, H. (M)
Free, A. L. (M)
Gensel, W. L. (A)
Ludwig, S. C., Jr. (A)
Mankoff, L. L. (M)
Marcovitz, M. W. (M)
Morris, C. R. (M)
Mural, F. (M)
Neel, J. M. (M)
Reickord, A. W. (M)
Rosenberg, H. (M)
Schlenger, J. I. (M)
Stobbart, A. J. (A)
Webster, J. J. (M)

Dry Run (PHI-3)
Worthington, F. M. (M)

Du Bois (EMP-4)
Bley, L. H. (M)
Kunst, A. F. (M)
Mc Garvey, H. J. (M)
Winters, W. J. (M)

Dunlo (PIT-4)
Cimba, J. (A)

Dunmore (PHI-3)
Reiner, C. (A)

Duquesne (PIT-4)
Laycak, J. F. (M)

Duryea (PHI-3)
Panick, R. J. (M)

East Lansdowne (PHI-3)
Clark, W. A. (M)

East McKeesport (PIT-4)
Queer, P. R. (A)

Easton (P-LV-3)
Berk, D. M. (A)
Conover, L. J. (SM)
Duncan, J. R. (M)
Heller, L. J. (A)
Jackson, I. S. (A)
Kressman, J. H. (M)
Philipp, C. A. (A)
Slavics, J. W. (A)
Smith, F. W. (SM)
Volk, J. H. (M)

East Petersburg (PHI-L-3)
Hammersand, F. G. (M)
Morrell, A. M. (M)

East Pittsburgh (PIT-4)
Brown, B. K., Jr. (A)
Crawford, R. G. (M)
McDonald, J. (A)
Osbon, W. O. (M)
Steinbruegge, H. A. (M)

Edison (PHI-3)
Cole, W. G. (A)

Edwardsville (PHI-3)
Korlishin, L. (A)

Elizabethtown (PHI-L-3)
Alger, P. B. (M)
Boylan, R. T. (A)
Custer, H. M. (M)
McGowan, T. C. (M)
Orr, R. W. (VA)

Elkins Park (PHI-3)
Allen, M. M. (A)
Anton, A. (M)
Beck, C. (A)
Biernbaum, J. W. (A)
Chang, S. Y. (M)
Feigenbaum, I. A. (M)
Focht, L. R. (M)
Gollub, R. (M)
Gruen, H. (M)
Kaufmann, H. L. (M)
Kirsch, A. L. (M)
Kraus, M. H. (M)
Krutter, H. (SM)
McGuire, T. J. (A)

New, R. (M)
Porter, H. F. (SM)
Rath, H. B. (M)
Rojas, R. R. (M)
Rothschild, L. I., Jr. (M)
Simon, W. (A)
Sink, J. A. (A)
Suckle, B. W. (A)
Swartz, M. D. (A)
Valliere, E. G. (A)
Zaslav, B. (A)

Ellwood City (PIT-4)
Powell, K. F. (A)

Elverson (PHI-3)
Nelsom, M. W. (A)

Emmaus (P-LV-3)
Burcham, N. P. (A)
Ebers, J. J. (SM)

Emporium (EMP-4)
Ackman, C. W. (A)
Ackman, H. E. (SM)
Allgaier, W. A. (SM)
Baldwin, A. V. (SM)
Beeney, D. W. (M)
Bergdahl, R. F. (A)
Bisso, R. J. (SM)
Boden, E. H. (SM)
Boots, W. K. (SM)
Brunner, G. V. (SM)
Buescher, W. E. (SM)
Burwell, A. C., Jr. (SM)
Campbell, V. H. (SM)
Cannizzaro, F. (A)
Carlstrom, T. H. (SM)
Clark, J. H. (M)
Clausen, R. P. (SM)
Cooley, R. M. (SM)
Curry, G. T. (SM)
Dander, D. A. (SM)
Detweiler, J. E. (A)
Dolnick, A. L. (SM)
Douglass, C. F. (SM)
Dresser, S. R., Jr. (M)
Erdle, P. J. (SM)
Fisher, L. R. (M)
Fromell, H. J. (SM)
Gausman, T. E. (SM)
Goodman, H. L. (M)
Gorman, V. R. (A)
Grubbe, V. P. (M)
Heitner, A. J. (M)
Hench, H. S., Jr. (M)
Hendrickson, C. C. (SM)
Herbert, H. W. (SM)
Hesser, C. B. (M)
Humphreys, R. A. (M)
Kackauskas, J. J. (A)
Kamler, H. V., Jr. (M)
Keenan, C. H. (A)
Klees, E. C. (M)
Klinestiver, G. H., Jr. (M)
Lambert, R. L. (SM)
Lantzy, W. E. (A)
Maguire, L. R. (SM)
McKain, J. L. (SM)
McNaughton, R. A. (M)
Melzer, H. (M)
Metzler, F. A., Jr. (A)
Mueller, W. P. (SM)
Murphy, W. A. (M)
Neuber, R. E. (SM)
Northrup, R. M. (A)
Overmier, E. E. (SM)
Palen, H. A. (M)
Palmateer, R. E. (SM)
Pawlikowski, S. L. (M)
Peterson, A. W. (SM)
Pope, L. A. (A)
Reitz, N. J. (SM)
Rishell, G. L. (SM)
Robbins, J. D. (SM)
Rolf, W. R. (SM)
Sassaman, P. H. (SM)
Schultz, A. J. (SM)
Schwender, L. D. (M)
Simon, P. R. (M)
Slinkman, R. W. (SM)
Snyder, V. D. (M)
Summers, G. L. (M)
Stengel, E. S. (SM)
Stumpff, H. G. (SM)
Tate, J. B. (M)
Vergason, D. L. (SM)
Walsh, R. J. (M)

Erie (ER-1)
Anderson, R. H. (M)
Blakeley, F. J. (M)
Bova, A. S. (A)
Brown, P. H. (M)
Davidson, A. R. (SM)
Dieter, M. R. (A)
Ehrman, P. B. (M)
Flowers, R. B., Jr. (A)
Foster, J. H. (SM)
Gluck, F. (SM)
Gray, R. B. (SM)
Harding, G. D. (A)
Herrick, H. S. (M)
Hestor, K. L. (M)
Kints, R. M. (A)
Klevans, W. L. (M)
Minnium, B. B. (SM)
Nedreski, R. J. (A)
Page, R. S. (M)
Presutti, B. D. (A)
Rochin, D. W. (A)
Shafer, W. A. (A)
Smith, D. H. (M)
Sterner, P. E. (M)
Steward, H. E. (A)
Taylor, G. P. (M)
Tuznik, R. H. (M)
Van Arsdell, J. C., Jr. (M)
Vieira, J. E. (A)
Werner, G. L. (M)
Windsor, R. T. (A)
Wolfskill, J. M. (M)

Export (PIT-4)
Jones, G. E., Jr. (M)
Kadak, E. (M)

Exton (PHI-3)
Reisener, W. C., Jr. (M)

Fallsington (PHI-3)
Maddox, J. A. (M)

Feasterville (PHI-3)
Lofton, J. H. (M)

Fleetville (PHI-3)
Hricko, R. M. (A)

Flourtown (PHI-3)
Bartels, H. C., Jr. (A)
Bruno, A. (M)
Chase, B. G. (A)
Kishpaugh, A. W. (A)
Lynch, C. V., Jr. (M)
Marcus, H. M. (A)
O'Brien, J. F., Jr. (A)
Spindler, C. W., Jr. (SM)

Folcroft (PHI-3)
Cunningham, W. G. (A)

Folsom (PHI-3)
Casciato, A. C. (M)

Forest City (PHI-3)
Cawley, W. F. (M)

Fort Washington (PHI-3)
Brooks, F. E. (M)
Price, R. (A)
Schantz, J. S. (VA)

Frackville (PHI-3)
Cooper, E. J. (M)
Troyanoski, W., Jr. (A)

Freedom (PIT-4)
Swartz, F. E. (A)

Fullerton (P-LV-3)
Bartholomew, C. V., Jr. (M)
Moyer, R. H. (M)

Gettysburg (PHI-L-3)
Cain, M. F. (M)

Gibsonia (PIT-4)
Haube, J. C. (A)

Gladwyne (PHI-3)
Dever, J. A. (M)
Eckert, J. P., Jr. (F)
Owings, J. L. (M)

Glassport (PIT-4)
Leib, F. E. (M)
Pudlak, A. (A)

Glen Mills (PHI-3)
De Prisco, C. F. (A)

Glenolden (PHI-3)
Stott, H. B. (SM)

Glenshaw (PIT-4)
Horlbeck, W. E. (M)
Komar, J. C. (M)
Suter, S. G. (M)
Van Nice, R. I. (M)

Glenside (PHI-3)
Benge, J. R. (VA)
Bobb, L. J. (M)
Bowman, J., Jr. (A)
Brown, D. G. (A)
Irwin, R. R. (A)
Montgomery, A. P. (SM)
Plotkin, I. (M)
Stein, H. B. (SM)
Taylor, J. R. (M)
Wilson, H. R. (M)
Wood, H. O. (SM)

Gouldsboro (PHI-3)
Pelick, J., Jr. (A)

Green Lane (PHI-3)
Rabb, J. W. (M)

Greensburg (PIT-4)
Baird, D. R. (A)
Baldwin, C. H. (SM)
Bosted, N. P. (A)
Brown, R. E. (M)
Courty, C. H. (M)
Forbes, N. A. (M)
Hornstein, M. B. (M)
LaMorte, M. F. (A)
Laskin, R. S. (M)
Little, D. R. (M)
Lynch, R. D. (M)
New, T. C. T. (M)
Strull, G. (M)
Weber, E. V. (M)

Gwynedd Valley (PHI-3)
Robinson, R. R. (A)

Hanover (PHI-L-3)
Rohrbaugh, P. A. (A)

Harrisburg (PHI-L-3)
Harris, T. R. (A)
Heist, H. E., Jr. (A)
Holcombe, M. M. (SM)
Kelley, O. G. (A)
Middleton, W. W. (M)
Moretz, L. A. (M)
Peffer, R. M. (A)
Stock, K. A. (M)
Strickland, J. L. (M)
Wachtman, G. S. (SM)
Whitley, J. H. (A)
Wiley, L. G. (M)

Hartsville (PHI-3)
Frekot, J. J. (M)
Herrmann, D. C. (M)
Snook, J. E. (M)
Wullert, J. R. (SM)

Harveys Lake (PHI-3)
Baloga, J. J. (M)

Hatboro (PHI-3)
Aurelius, K. P. (A)
Ayers, J. B. (M)
Bartik, W. J. (M)
Bearcove, K. O. (M)
Bristow, F. E. (M)
Brooks, C. E. (M)
Buscher, D. G. (M)
Butterfoss, E. J. (A)
Cramton, F. N. (A)
Dietz, W. J. (A)
Doerfel, H. V. (M)
Espig, M. A. (A)
Fedde, G. A. (M)
Foley, T. J. (A)
Fortini, M. A. (M)
Gelardi, M. (VA)
Gleiter, W. C. (M)
Godley, W. P. (A)
Greenfield, A. (SM)
Harrison, R. K. (M)
Hastings, J. A. (A)
Johnson, E. C. (SM)
Karew, J. J. (M)
Knouse, R. H. (A)
Koos, E. E. (M)
Lichtenfels, J. L. (M)
Long, M. L., Jr. (SM)
Martin, H. B. (M)
Massey, T. J., Jr. (M)
McWilliams, C. R. (M)
Miles, T. J. (M)
Miller, R. L. (M)
Patterson, T. A., Jr. (A)
Roschen, J. (M)
Saboe, J. (M)
Senulis, R. E. (M)
Spacie, R. W. (A)
Steele, E. R. (M)
Suter, H. (SM)
Swanson, C. I. (A)
Tiley, J. W. (SM)
Twist, G. A. (M)
Williams, G. C. (M)

Hatfield (PHI-3)
Insinger, R. H., Jr. (M)
Smith, D. J. (A)
Trinkle, W. S. (M)

Haverford (PHI-3)
Benham, T. A. (SM)
Carr, J. J. (M)
Crawford, A. L., Jr. (SM)
Schwenneseen, D. (M)
Trotter, H., Jr. (SM)

Havertown (PHI-3)
Apolito, P. L. (M)
Beck, J. J. (SM)
Chen, T. C. (SM)
Consalvi, A. L. (A)
Crawford, C. S., Jr. (A)
Crockett, J. G. (M)
Currie, A. H. (M)
Deacon, N. E. (M)
Denyer, D. B. (M)
Devenny, C. F., Jr. (M)
Dougherty, J. W. (M)
Dytrt, L. F. (M)
Erdmanis, E. J. (A)
Eschner, A. H. (M)
Ferri, J. F. (M)
Fulmer, J. W. (M)
Gilligan, T. E., Jr. (M)
Henry, A. T. (A)
Kauders, R. M. (M)
Koch, J. F., Jr. (SM)
Ladenson, M. (A)
Liston, J. (A)
Lund, G. E. (M)
Meyer, S. (M)
Miehle, W. (M)
Rauscher, H. C. (A)
Mustico, J. (A)
Palmer, G., Jr. (SM)
Patchell, T. A. (M)
Reid, J. M. (M)
Robinson, C. W. (M)
Sabaroff, S. (M)
Sachs, A. F. (M)
Satterthwaite, W. F. (M)
Sohon, H. (SM)
Titus, C. H. (M)
Wise, B. (A)
Witherspoon, J. M. (A)
Woll, C. F. (SM)
Zappacosta, A. D. (M)

Hazleton (PHI-3)
Campbell, H. L., III (M)
Gans, J. S. (A)
Steckert, J. W. (M)
Walker, M. J. (M)

Hellam (PHI-L-3)
Megargel, L. R., Jr. (M)
Swengel, R. C. (A)

Hershey (PHI-L-3)
Simes, J. G. (M)
Smith, E. C. (M)

Highspire (PHI-L-3)
Miller, P. M. (M)

Hilliards (PIT-4)
Boyd, D. B. (A)

Holicong (PHI-3)
Dulberger, L. H. (M)

Hollidaysburg (PIT-4)
Kilgore, W. (M)

Holmes (PHI-3)
Warner, H. (M)

Homestead Park (PIT-4)
Cauley, T. K. (M)

Horsham (PHI-3)
Bucks, R. M. (A)
Tremblay, H. G. (A)

Huntingdon Valley (PHI-3)
Angell, J. B. (SM)
Boothroyd, W. P. (F)
Borden, C. C. (A)
Brady, P. B. (SM)
Erie, S. D. (M)
Forell, H. K. (A)
Freeland, E. C. (SM)
Gilman, H. (M)
Hayward, J. W. (M)
Jensen, R. O. (M)
Lee, C. F. (A)
Lorant, L. (SM)
Matthews, A. C. (SM)
Moore, R. C. (F)
Munster, A. C. (SM)
Oliver, W. G. (M)
Riebman, L. (M)
Riester, H. A., Jr. (M)
Ruehlemann, H. E. (SM)
Spieler, A. (A)
Thompson, M. L. (SM)
Vallette, C. N. (M)
Weinberg, I. (M)
Welsh, W. J. (M)
Williams, M. A. (SM)

Indiana (PIT-4)
Hitchcock, R. C. (SM)

Irwin (PIT-4)
Brook, A. (A)
Heess, E. L. (M)
Kinder, H. R. (M)
Mucci, G. (M)
Place, W. P. (M)
Riemersma, H. (M)
Rowe, I. (A)
Wagner, H. A. (SM)
White, C. W. (A)
Wissman, A. J. (M)
Wright, E. B. (M)

Ivyland (PHI-3)
Lee, W. S. (M)
Rogers, D. H. (M)

Jamison (PHI-3)
Fuchs, A. M. (M)

Jeannette (PIT-4)
Kihchel, O. D. (M)
Mulica, A. R. (M)

Jeddo (PHI-3)
Kallessar, J. J. (M)

Jenkintown (PHI-3)
Clark, W. R. (SM)
Drenchko, J. D. (A)
Frear, W. (SM)
Glasby, W. E. (M)
Husband, R. E. (M)
Koehler, J. F. (SM)
Lanagan, J. G. (A)
Laurent, G. J. (SM)
Liebscher, A. (SM)
McClarren, R. H. (SM)
Myers, A. S., Jr. (SM)
Namaroff, J. H. (SM)
Overdeer, R. H. (M)
Peltz, W. J. (SM)
Stewart, G. H., III (M)

Johnstown (PIT-4)
Blewitt, D. D. (M)
Campbell, T. E. (A)
Friedman, M. I. (A)
Kocsan, E. S. (M)
Lopresti, P. V. (A)
Podrasky, R. W. (M)
Shostek, R. E. (M)
Smith, R. F. (M)
Straub, N. L. (A)
Wood, J. E., Jr. (M)

Johnsville (PHI-3)
Collins, C. C. (A)
Nupp, W. D. (A)
Packard, A. C. (SM)
Stobie, E. F. (M)
Vasaka, C. S. (SM)
Walker, H. R. (A)

Kennerdell (PIT-4)
Smith, S. A. (A)

King of Prussia (PHI-3)
Attarian, R. V. (M)
Galbraith, J. R. (A)
Krell, A. I. (M)
Longo, J. F. (M)
Millet, M. R. (M)
Osabhr, B. F. (SM)
Regan, J. V., Jr. (A)
Weaver, R. L. (M)

Kingston (PHI-3)
Sakoski, C. (A)

Kittanning (PIT-4)
Golla, E. F. (SM)

Kutztown (PHI-L-3)
Sparacino, R. R. (M)
Tawney, G. L. (SM)

Lafayette Hill (PHI-3)
Bloomsburgh, R. A., Jr. (M)
Clifford, M. L. (M)
Haimowitz, B. (M)
McKee, G. R., Jr. (M)
Pitman, J. E. (M)
Scott, C. H., Jr. (A)
Zuck, R. A. (A)

Lake Ariel (PHI-3)
Grimditch, W. H. (SM)

Lake Lynn (PIT-4)
Shibler, W. (A)

Lampeter (PHI-L-3)
Damon, P. P. (A)

Lancaster (PHI-L-3)
Almond, W. R. (A)
Bedrosian, P. G. (A)
Beidler, R. T. (M)
Bennett, W. P. (SM)
Bixler, R. T. (SM)
Block, F. G. (M)
Brackbill, C. R. (SM)
Brown, B. B. (M)
Burnett, C. E. (SM)
Burton, N. H. (A)
Carter, W. S., Jr. (A)
Class, J. S. (A)
Comins, A. W. (SM)
Craig, M. E. (M)
Doner, C. E. (M)
Dreyer, K. (SM)
Duckworth, G. W. (M)
Dyall, W. T. (SM)
E'Del, R. R. (M)
Enck, F. D. (SM)
Engstrom, R. W. (SM)
Evans, J. (M)
Forman, J. M. (M)
Free, J. L. (A)
Freund, W. H. (M)
Gadbois, G. S. (A)
Gaylord, J. W. (M)
Grimm, A. C. (SM)
Hagmann, R. W. (SM)
Handel, R. R. (SM)
Hansell, G. E. (A)
Harsh, M. D. (M)
Hatzikyriakos, P. P. (M)
Headrick, L. B. (F)
Herman, L. C. (SM)
Hershenson, L. H. (M)
Hilliegass, H. N. (M)
Hoover, M. V. (M)
Johnson, J. K. (SM)
Kaseman, P. W. (M)
Kazanowski, H. F. (M)
Kawabara, T. (M)
Kistler, R. J. (A)
Kolostyak, J. (M)
Leonard, T. V. (A)
Mandell, G. E. (A)
Mark, J. T. (A)
Mathlot, J. E. (M)
McLaughlin, K. M. (SM)
McNees, S. G. (M)
McNickle, R. E. (M)
Mengle, L. I. (M)
Metzger, P. A. (M)
Miller, L. D. (M)
Moodey, H. C. (SM)
Nekut, A. G. (SM)
Parker, W. N. (SM)
Quinn, J. L., Jr. (M)
Ransom, D. J. (M)
Reed, R. E. (A)
Rogers, H. L. (M)
Rotow, A. A. (SM)
Schumacher, R. T. (M)
Scott, G. W., Jr. (SM)
Seelen, H. R. (SM)
Siegler, H. B. (A)
Smith, C. P. (SM)
Spitzer, E. E. (F)
Stone, R. P. (SM)
Stoudenheimer, R. G. (SM)
Sweet, A. P., Jr. (M)
Trytko, E. F. (A)
Uyeda, Y. (M)
Van Asselt, R. L. (SM)
Van Ormer, D. D. (M)
Veith, F. S. (SM)
Vine, B. H. (SM)
Warshaw, J. (M)
Weaver, J. L. (M)
Wenger, R. S. (SM)
Yingst, T. E. (M)
Zachariason, R. H. (SM)
Zorger, P. H. (M)

Landisville (PHI-L-3)
Fendley, J. R., Jr. (A)

Langhorne (PHI-3)
Brown, J. N. (M)
Cooley, C. C., Jr. (A)
Haigh, L. E. (A)
Rice, R. A. (M)
Ryan, T. J. (SM)

Lansdale (PHI-3)
Buchanan, J. P. (M)
Carney, R. W. (M)
Clarke, C. E. (M)
Gable, N. P. (M)
Granger, B. W. (A)
Gray, C. R. (A)
Hirshon, J. M. (M)
Ishler, H. K. (SM)
King, R. B. (M)
Levy, S. L. (M)
Lyle, A. E. (SM)
Malotte, D. W. (A)
Mandelkorn, R. S. (SM)
McCotter, J. D., Jr. (A)
Misra, R. P. (SM)
Moll, W. H. (M)
Pratt, G. W. (M)
Schlegel, E. S. (M)
Schmitz, C. F., Jr. (A)
Schnable, G. L. (A)
Smith, W. E. (M)
Spencer, G. R. (M)
Tague, C. B., Jr. (M)
Thornton, C. G. (SM)
Waite, G. C. (M)
Wells, R. J. (M)

Lansdowne (PHI-3)
Ambrogi, J. N., Jr. (M)
Candell, G. W. (M)
Felton, W. W. (SM)
Fetters, C. M. (M)
Foster, W. P. (M)
Holdsworth, R. M., Jr. (A)
Pappas, C. (M)
Stubner, J. W. (M)

Lansford (PHI-3)
Pispeky, S. (M)

Latrobe (PIT-4)
Albert, D. E. (M)
Guidos, B. W. (A)
Monari, A. J. (A)

Laureldale (PHI-L-3)
Franz, R. C. (A)
Simpson, J. E. (M)

Lehighton (PHI-3)
Steckel, T. G., Jr. (M)

Lemoyne (PHI-L-3)
Smiley, W. A. (VA)

Levittown (PHI-3)
Abrams, J. J. (M)
Aires, R. H. (M)
Amodei, J. J. (M)
Azaren, D. (M)
Barnes, W. L. (M)
Barnette, W. E. (A)
Bell, C. V. (A)
Bensky, L. S. (M)
Bernstein, F. (A)
Berry, W. P. (A)
Bloss, R. C. (M)
Boardman, H. B. (M)
Boye, H. N. (A)
Bradshaw, G. V., Jr. (M)
Busby, J. W. (M)
Carson, R. E. (A)
Charton, S. (M)
Cohen, I. (A)
Collins, H. C. (M)
Colodny, S. H. (SM)
Darling, D. C. (M)
Dixon, G. P. (A)
Dunn, T. E. (M)
Eby, J. A. (M)
Eckert, F. A. (M)
Eigner, H. (SM)
Elion, H. A. (M)
Epstein, H. (M)
Etkin, H. A. (SM)
Ewald, W. J. (A)
Farrelly, R. J. (A)
Faust, E. J. (M)
Fernandez-Rivas, L. A. (A)
Fox, E. C. (M)
Furstein, R. A. (M)
Fink, E. A. (M)
Garber, H. N. (M)
Giller, M. (M)
Given, W. H., III (A)
Gleason, H. H. (SM)
Goldstone, B. J. (M)
Hacking, C. (SM)
Haneman, W. J. (M)
Heinaman, H. B., Jr. (M)
House, H. J. (M)
Hsueh, C. Y. (M)
Insalaco, P. J. (A)
Ivins, W. A. (A)
Jackson, W. K. (M)
Jessen, F. A., Jr. (M)
Johnston, J. B., Jr. (M)
Junker, E. S. (M)
Jurkevich, I. (A)
Kaskey, G. (SM)
Kornfeld, G. R. (A)
Krawitz, L. J. (A)
Kregi, S. (A)
Lamnin, M. (M)
Lathrop, P. A. (M)
Levine, S. A. (A)
Lieberman, E. (M)
Ludwiczak, T. A. (M)
Miller, E. (M)
Nachman, M. W. (M)
Ogawa, H. F. (A)
Pitts, W. L. (SM)
Postman, M. H. (M)
Potosky, M. (M)
Powell, W. E., Jr. (M)
Rager, G. T. (M)
Robinson, L. R. (A)
Rosen, B. H. (A)
Sailor, R. W., Jr. (SM)
Shucker, S. (SM)
Silverman, M. (SM)
Solomon, H. (A)
Stern, S. (A)
Sullivan, F. J. (M)
Susskind, I. N. (M)
Szumila, A. D. (A)
Terrell, R. L. (M)
Titefsky, E. J. (M)
Trilling, T. R. (A)
Turner, R. J. (M)
Turtil, J. F. (M)
Uslin, L. T. (M)
Walberg, A. G. (M)
Weinberg, A. D. (A)
Weisman, S. M. (M)
Weixler, H. J. (M)
Wernlund, R. F. (M)
Wilcox, J. E. (A)
Wood, R. F., Jr. (SM)
Wydro, W. S. (A)
Yang, T. (M)
Zimmer, L. J., Jr. (A)

Lewisburg (WIL-4)
Irland, G. A. (M)
Mathias, J. P. (A)
Walker, R. C. (M)
Webb, H. E. (M)

Lewistown (WIL-4)
Gardner, G. F. (M)

Liberty (EI.M-C-1)
Frutiger, W. A. (M)

Linglestown (PHI-L-3)
Fritz, W. B. (A)

Lionville (PHI-3)
Lynch, J. T. (M)

Lititz (PHI-L-3)
Gall, R. G. (M)
Grosh, J. B., III (M)
Sheffy, H. J. (M)

Lock Haven (WIL-4)
Cooney, T. D. (M)
Young, G. D. (A)

Lynnport (P-LV-3)
Klingaman, G. W. (M)

Macungie (P-LV-3)
Nelson, M. F. (A)

Malvern (PHI-3)
Balakian, G. (A)
Bedrosian, S. D. (SM)
Briggs, T. H. (SM)
Dowds, T. A. (M)
Durfee, G. H. (M)
Erndl, W. J. (A)
Grafinger, A. B. (SM)
Greenblatt, R. C. (A)
Lannutti, A. P. (M)
Pedersen, J. H. (A)
Pezely, S. J. (M)
Reiss, H. R. (M)
Skinner, N. W. (A)
Wachter, W. J. (M)

Manor (PIT-4)
Anderson, J. W. (A)

Maple Glen (PHI-3)
Wood, W. M. (A)

Marcus Hook (PHI-3)
Alexander, F. C., Jr. (SM)
Imboden, H. B. (SM)
Martin, P. T. (M)
Smith, O. J., III (M)

Mars (PIT-4)
Berninger, J. W. (A)

Mayfield (PHI-3)
Plus, L. (M)

McKeesport (PIT-4)
Andrews, F. J. (M)
Baker, J. D. (A)
Levine, M. (M)
Maser, F. A. (A)
Morabito, R. A. (M)
Sodano, R. D. (A)
Vogt, W. G. (A)
Wagner, F., Jr. (A)

McKees Rocks (PIT-4)
Vargo, M. S. (M)
Zellner, F. L., Jr. (A)

Meadowbrook (PHI-3)
Bingley, F. J. (F)
Dolberg, C. E. (SM)
Fink, D. G. (F)
Greenwood, R. W. (M)
Lukens, R., Jr. (SM)
Reynolds, J. F. (M)
Sheppard, C. B. (M)
Speed, D. K. (M)
Walker, H. (VA)

Mechanicsburg (PHI-L-3)
Hill, B. C., Jr. (SM)
Miller, H. E. (A)
Russell, J. D. (M)
Sechrist, W. S. (A)
Sellers, R. E. (A)
Sprinkle, R. E. (M)

Media (PHI-3)
Bargellini, P. L. (SM)
Conant, L. C., Jr. (M)
Gray, H. J., Jr. (M)
Haney, F. (M)
Miller, A. F. (M)
Rhea, H. E. (M)
Salati, O. M. (SM)
Schlipp, J. W. (M)
Woerner, L. G., Jr. (A)

Melrose Park (PHI-3)
Creamer, E. M., Jr. (M)
Jakacki, W. B. (M)

Mendenhall (PHI-3)
Stinger, H. J. (M)

Merion (PHI-3)
Adamson, R. G. (M)
Bonn, T. H. (SM)
Colehower, C. H., Jr. (M)
Emurian, A. D. (SM)
Okada, R. F. (M)
Shapp, M. J. (SM)

Meshoppen (PHI-3)
Price, C. F. (M)

Middletown (PHI-L-3)
Fostar, M. (A)
Gobel, L. J. (A)
Pettersen, E. S. (M)

Millersville (PHI-L-3)
Smith, E. M. (A)
Weaver, J. E. (A)

Mill Hall (WIL-4)
Schnering, C. J. (M)

Mohnton (PHI-L-3)
Fister, T. J. (A)

Monessen (PIT-4)
Ferencz, F. (A)
Pansino, S. R. (M)

Monongahela (PIT-4)
Rockwell, R. R. (A)

Monroeville (PIT-4)
Cilyo, F. F., Jr. (M)
Coleman, W. E. (M)
Decker, R. W. (M)
Hierholzer, F. J., Jr. (M)
Kardos, L. F. (M)
Kikta, E. J. (M)
Lyman, R. C. (M)
Murray, R., Jr. (A)
Robl, R. F., Jr. (A)
Utt, O. L. (M)
Wright, W. L. (A)

Mont Clare (PHI-3)
Kaufmann, H. W. (M)

Montoursville (WIL-4)
Dowden, W. M. (M)

Montrose (PHI-3)
Fiore, W. V. (M)

Moosic (PHI-3)
Kania, A. T. (M)

Morrisville (PHI-3)
Bootherstone, F. B. (A)
Riegel, R. B. (M)

Morton (PHI-3)
Gaschnig, G. R. (M)

Mount Carmel (WIL-4)
Schneider, C. P. (A)

Mount Holly Springs (PHI-L-3)
Samuelson, W. H. E. (M)

Mount Joy (PHI-L-3)
Dock, S. J., Jr. (A)

Murrysville (PIT-4)
Baker, W. H. (M)
Decker, R. O. (M)
Caywood, W. P., Jr. (SM)
Uphoff, R. L. (SM)

Myerstown (PHI-L-3)
Sando, G. G. (M)

Nanticoke (PHI-3)
Cancellari, N. J. (M)

Narberth (PHI-3)
Auerbach, I. L. (F)
Brustman, J. A. (SM)
Clapp, R. G. (SM)
Forstall, E. L. (SM)
Jeffries, S. A. (M)
Mangold, R. R. (A)
Tabor, L. P. (SM)
Williamson, J. F. (VA)

Nazareth (P-LV-3)
Kilpatrick, W. M. (M)

New Britian (PHI-3)
West, W. H. (M)

New Cumberland (PHI-L-3)
Brucklacher, J. E., Jr. (M)
Hanemann, H. A., Jr. (A)
Houck, G. R. (A)

Newfoundland (PHI-3)
Wohlfart, E. (A)

New Hope (PHI-3)
Ansley, A. C. (VA)
Chadwick, P. S. (A)
Goodwin, W. N., Jr. (F)
Karacsan, W. W. (M)
Stitz, K. W. (M)

New Kensington (PIT-4)
Hoch, F. R. (M)
Panian, F. C. (M)
Signorella, J. E. (A)
Zubek, J. (M)

New Ringgold (PHI-3)
Zimmerman, E. A. (A)

Newtown (PHI-3)
Beck, K. H., Jr. (M)
Cushman, R. W. (M)
Dawson, J. A., Jr. (M)
Ghebeles, G. C. (A)
Gould, D. F., II (M)
Lambert, C. R. (M)
Small, H. E. (M)
Yerkes, H. W. (A)

Newtown Square (PHI-3)
Bachofer, H. L. (A)
Fussell, R. L. (M)
Gariano, W. F. (M)
Gregory, T. R. (M)
Horwitz, J. D. (A)
Johnson, F. L. (M)
Livesay, R. (A)
Nonee, R. A. (M)
Schneider, S. (A)
Shawhan, E. N. (M)
Thomason, J. F. (M)
Tidd, T. J. (A)

Newville (PHI-L-3)
McElwain, J. L. (M)

Noble (PHI-3)
Hilliard, D. M. (M)

Norristown (PHI-3)
Anders, R. D. (M)
Anderson, D. C. (M)
Boscia, S. J. (M)
Eisenmann, J. F. (A)
Heltemes, R. B. (M)
Innes, F. T. (M)
Jacoby, M. (M)
Kilpatrick, D. G. (SM)
Kirkaldy, A. J., Jr. (A)
Lee, F. F. (SM)
Loeper, C. J. (M)
McCallister, J. P. (M)
Merritt, J. E. (A)
Middleton, R. J., Jr. (M)
Nurnberg, R. K. (A)
Paxson, R. F. (M)
Place, S. W. (M)
Reardon, P. A. (M)
Revenaugh, J. J. (M)
Roberts, F. R. (A)
Rogers, R. F. (A)
Sandoval, J. (A)
Smock, W. W. (M)
Stauffer, R. F. (M)
Sugalski, A. C. (A)
Thomas, J. K., II (M)
Webb, D. T. (SM)
Yeaton, R. B. (M)
Zern, R. T. (M)

North Braddock (PIT-4)
Walters, W. L. (M)

North East (ER-1)
Challstrom, K. I. (M)
Fisch, A. (M)

North Hills (PHI-3)
Moore, W., Jr. (M)
Stahl, R. W. (M)
Tidus, D. B. (M)

North Wales (PHI-3)
Barclay, F. T. (M)
Bergstrom, C. J. (A)
Burkart, D. P. (M)
Davis, H., III (M)
Guzewicz, J. F. (A)
Henderson, F. C. (M)
Levy, D. T. (M)
O'Keefe, W. J. (SM)
Small, T. W. (M)

Norwood (PHI-3)
Biscardi, J. J. (M)
Bretz, R. E. (M)

Oakford (PHI-3)
Hoffman, N. N. (M)

Oakmont (PIT-4)
Dimasi, L. A. (M)
Mattes, F. J. (M)
Muffly, G. (SM)

Oaks (PHI-3)
Carroll, C. F., Jr. (SM)

Oley (PHI-L-3)
Noll, E. M. (A)

Orefield (PHI-3)
Allerton, G. L. (SM)

Oreland (PHI-3)
Altemus, W. C. (M)
Boynton, H. W. (A)
Clark, E. G. (M)
Comeau, C. P. (A)
Garden, M. (M)
Halsted, C. P. (A)
Hargens, C. W., III (SM)
Jacobs, E. (A)
Keener, C. E. (SM)
Kelper, F. P., Jr. (M)
Lawrence, J. D., Jr. (M)
Lockhart, J. C. (M)
Mehr, E. J. (M)
Nelson, F. H. (M)
Preston, G. W. (SM)
Zebrowitz, S. (SM)
Zwart, C. (C)

Oxford (PHI-3)
Mallalieu, F. R. (SM)

Palmerton (PHI-3)
Kannapel, W. A. (A)
Swanson, H. E. (M)

Paoli (PHI-3)
Bradley, R. E. (M)
Caldwell, R. P. (A)
Carlson, P. N. (M)
Collier, D. M. (SM)
Dahlberg, R. S., Jr. (SM)
Eble, B. B. (M)
Engelman, J. H. (M)
Fasko, E. A. (M)
Faulis, D. R. (A)
Fissell, C., Jr. (A)
Gluck, S. E. (M)
Goodman, H. C. (M)
Gottschalk, J. M. (M)
Grayum, J. Z. (SM)
Greene, A. A. (A)
Hamill, R. V. (M)
Landrey, L. R. (SM)
Lawson, A. C. (M)
Lerpold, B. A. (A)
Lohse, E. (SM)
McIlwain, K. (F)
Menges, W. R. (M)
Nordling, K. I. (A)
Overmiller, C. M. (M)
Pugh, A. L., Jr. (SM)
Quiogue, V. J. (M)
Reese, H. E., Jr. (M)
Remily, W. M. (M)
Schneider, W. M., Jr. (M)
Schubert, E. J. (SM)
Starr, D. A., Jr. (M)
Taylor, H. W. (M)
Weisenberger, A. J. (M)

Paxinos (WIL-4)
Farr, K. E. (SM)

Perkasie (P-LV-3)
Soltau, R. H. (M)

Perkiomenville (PHI-3)
Okada, R. H. (A)

Philadelphia (PHI-3)
Aberth, O. (A)
Adams, D. A. (M)
Adamson, P. R. (M)
Adler, D. G. (M)
Affel, H. A., Jr. (SM)
Afker, M. J. (M)
Albright, R. B. (SM)
Alpert, D. (M)
Amatneek, K. V. (M)
Ames, M. E., Jr. (M)
Anderson, J. C. (M)
Andress, P. M. (M)
Antharvedi, A. (A)
Arakawa, W. J. (M)
Aseniero, W. L. (M)
Ashmead, D., III (M)
Azoff, I. (M)
Bachman, B. E. (M)
Bacon, J. R. (M)
Baconnet, J. (M)
Banks, J. (A)
Barth, R. A. (M)
Barton, R. (M)
Bash, J. F. (M)
Base, S. (A)
Batey, R. W. (A)
Baumann, J. A. (A)
Bazan, S. J. (A)
Beane, T. E. (M)
Beardwood, J. T., III (M)
Bechler, W. C., Jr. (VA)
Beckman, C. (M)
Beggs, G. E., Jr. (SM)
Bein, H. F. (M)
Beltramo, J. R. (A)
Benima, D. (A)
Benjamin, J. M., Jr. (SM)
Bennon, M. (A)
Benson, S. E. (M)
Berger, D. (M)
Berger, J. (M)
Berkowitz, R. S. (M)
Berman, C. D. (M)
Berry, R. L. (A)
Beter, R. H. (M)
Biberman, L. S. (M)
Bigelow, J. F. (SM)
Birx, D. L. (M)
Bixler, D. A. (M)
Blaustein, H. D. (M)
Block, I. E. (M)
Bloemker, L. J. (A)
Blynn, M. S. (M)
Boandl, J. S. (M)
Boghosian, W. H. (M)
Bogusz, J. F. (M)
Bohn, J. L. (SM)
Bonanni, O. A. (A)
Boreen, H. I. (M)
Bossi, E. W. (A)
Bowe, C. E., Jr. (M)
Brachman, R. J. (M)
Bradley, W. E. (F)
Bradshaw, J. L. (M)
Brainerd, J. G. (F)
Brandimarte, N. C. (M)
Breslow, A. J. (A)
Brett, G. F. (M)
Brisk, H. L. (A)
Brothers, J. T. (SM)
Brown, W. J. (M)
Bruchloe, H. O. (A)
Brunner, D. H. (M)
Bryan, J. S. (M)
Buggy, R. V. (SM)
Burger, A. F. (M)
Burgett, M. I., Jr. (SM)
Busby, J. A. (M)
Bycer, B. B. (SM)
Byers, A. C. (SM)
Cake, A. F. (A)
Caldwell, W. H. (SM)
Campbell, E. R., Jr. (A)
Carapellotti, L. T. (SM)
Carlson, E. G. (M)
Castillo, P. S., Jr. (A)
Cathers, H. W. (A)
Cavileer, F. E. (A)
Chamberlin, N. K. (M)
Chambers, C. (SM)
Chamow, M. F. (A)
Chance, B. (F)
Chang, J. J. (M)
Chapline, J. D., Jr. (M)
Chase, C. T. (SM)
Chatten, J. B. (M)
Cheney, E. A. (M)
Chesavage, A. J. (M)
Chong, C. F. (A)
Chressanthis, A. G. (M)
Chu, J. C. (M)
Cianela, D. J. (M)
Ciletti, V. J. (M)
Clark, F. R. (A)
Clark, L. P. (SM)
Closson, L. E. (SM)
Coburn, J. M. (M)
Cockrell, J. L. (SM)
Cohen, B. H. (M)
Cola, T. F. (M)
Cola, R. A. (A)
Cole, P. J. (A)
Coles, R. V. (SM)
Colocousis, J. (SM)
Conrad, M. (SM)
Copestakes, J. E. (A)
Cottingham, J. H. (M)
Cotton, R. V. (M)
Cramer, B. G. (M)
Crew, B. L. (M)
Cummings, E. J. (M)
Cummins, R. G. (M)
D'Amico, J. R. (M)
Daniels, J. H. (M)
Davis, R. P. (M)
De Coatsworth, C. G. (M)
Dectrow, T. X. (M)
De Florio, R. A. (M)
De Marr, J. D. (M)
Deysher, J. B. (A)
Diamond, R. L. (M)
Dibrell, J. W. (M)
Diem, G. W. (M)
Diem, S. H. (M)
Dienst, J. F. (M)
Dobren, S. (A)
Doherty, W. E., Jr. (M)
Domboski, R. F. (M)
Dorfman, J. C. (M)
Dorsay, T. A. (A)
Doto, N. J. (M)
Dove, J. B. (A)
Doviak, R. J. (M)
Dugan, N. G. (M)
Dunn, E. B. (M)
Earnshaw, D. P. (SM)
Edelman, R. D. (M)

Edelman, S. Z. (M)
Eichert, E. S. (SM)
Eisenberg, M. (M)
Eisenschmied, M. D. (M)
Elliott, L. D. (M)
Emerson, K. H. (SM)
Emery, E. J. (A)
Endres, R. O. (SM)
Epstein, H. (SM)
Estersohn, H. (A)
Ett, A. H. (SM)
Evalds, E. H. (A)
Evans, W. R., Jr. (A)
Even-Tov, O. (M)
Everett, F. C. (M)
Eynon, J. U. (M)
Fang, J. (A)
Fariello, N. A. (M)
Farmar, F. E. (M)
Faunce, N. P. (M)
Feller, M. S. (A)
Fenton, F. H., Jr. (M)
Fernbach, M. (M)
Fidler, R. D. (A)
Fierstein, J. H. (A)
Fink, L., III (M)
Fisher, E. J. (M)
Fisher, F. (M)
Fitch, J. A. (M)
Flood, F. T. (A)
Fogarty, J. D. (M)
Foley, G. M. (SM)
Foley, J. J. (M)
Follmer, W. C. (M)
Ford, H. P., Jr. (M)
Forster, W. H. (SM)
Fow, B. F. (M)
Fowler, C. J. (SM)
Francis, W. A. (M)
Frank, A. I. (M)
Frank, J. S. (M)
Freeman, S. (A)
Friedman, M. (A)
Friedman, M. (M)
Gaither, L. E. (SM)
Gelb, H. A. (A)
Gelder, J. G. (A)
Gelfand, R. (A)
Gelles, A. J. (A)
Gellhaus, K. M. (M)
Gerber, E. L. (M)
Geselowitz, D. B. (A)
Gilbert, W. E. (SM)
Gillies, J. H. (SM)
Gilman, H. D. (M)
Gilman, W. L. (M)
Giordano, M. J. (M)
Gittens, V. S. (A)
Glace, K. (M)
Glassman, I. (M)
Goldberg, M. L. (A)
Goldich, N. (A)
Goldis, B. A. (A)
Goldman, R. L. (M)
Goldstein, I. E. (SM)
Goldstein, P. (A)
Goodman, J. H. (M)
Goodman, R. M. (SM)
Goodwin, D. P. (A)
Gottlieb, M. (A)
Grande, F. M. (M)
Gravel, A. J. (A)
Greenfield, J. D. (M)
Greif, L. (M)
Grieco, L. (M)
Griffith, C. H. (A)
Groon, J. G. (A)
Gross, A. M. (A)
Gross, M. A. (M)
Grossman, S. (A)
Gurlis, R. S. (A)
Haas, N. V. (M)
Hadley, A. M. (SM)
Hafler, D. (A)
Haines, B. P. (SM)
Halprin, J. (A)
Hamilton, S. (SM)
Hardiman, E. R. (M)
Harding, L. P. (A)
Harris, H. H. (SM)
Hart, D. J. (SM)
Hartnett, J. D. (A)
Hatton, R. W. (M)
Hauer, C. A. (M)
Hawthorne, E. I. (SM)
Hazeltine, A. V. (M)
Hebert, E. J., Jr. (M)
Heck, J. C. (M)
Heckelman, T. J. (M)
Heiss, S. K. (A)
Hendrie, G. C. (M)
Hendrixson, L. H. (M)
Henninger, J. H. (M)
Herrmann, J. E. (M)
Herscher, M. B. (A)
Hershfield, L. L. (M)
Heskett, H. (M)
Hewitt, E. C. (M)
Hill, W. C. (A)
Hirsch, M. (A)
Hitt, J. J. (M)
Hock, R. E. (A)
Hoffman, E. (A)
Holdridge, G. R. (M)
Hollander, G. L. (SM)
Hollinger, R. A. (M)
Holm, R. M. (A)
Holtzman, I. D. (M)
Hopper, G. M. (M)
Horn, C. H. (M)
Horn, I. (M)
Horowitz, R. B. (A)
Howard, T. B. (M)
Howard, W. A. (SM)
Huckaby, J. R. (M)
Huie, D. L. (M)
Hunter, R. D. (M)
Hyams, I. (M)
Jackson, W. J. (SM)
Jacobowitz, H. (A)
Jacobson, L. J. (M)
Jednacz, J. E. (M)
Johnson, N. (SM)
Jones, A. G. (M)
Jones, J. T., Jr. (A)
Joseph, D. (M)
Joshi, A. K. (A)
Joyce, S. B. (M)
Jung, J. P. (M)
Jungman, N. H. I. (M)
Jurskis, A. (M)
Kaferle, J. G. (M)
Kall, A. R. (M)
Kalos, S. (A)
Kanal, L. N. (A)
Kansas, R. (SM)
Kaplan, R. M. (M)
Kappeler, W. H. (A)
Karmiol, E. D. (M)
Karr, C. H. (M)
Kashtan, S. (A)
Kass, S. (M)
Katz, A. S. (M)
Katz, S. (M)
Kauffmann, R. A. (M)
Kaufman, E. J. (A)
Keil, O. C., Jr. (M)
Kelly, P. J. (M)
Kennemer, J. R. (A)
Kenny, H. W. (A)
Keroes, H. I. (A)
Kimel, H. (M)
King, S. M. (A)
King, W. C. (SM)
Kirk, D. B. (M)
Kline, S. (M)
Knipe, W. T. (M)
Koblenz, A. M. (M)
Kocher, W. J. H. (M)
Koenigsberg, D. (A)
Kolodner, M. (M)
Korn, W. (M)
Korsen, M. (M)
Kosich, R. J. (M)
Kotliar, A. (M)
Kovach, J. F. (A)
Kranton, J. (M)
Kraus, C. R. (SM)
Kraus, F. A. (M)
Krendel, E. S. (SM)
Kritikos, H. N. (A)
Kropp, C. W. (M)
Ku, Y. H. (SM)
Kubanoff, J. H. (M)
Kugler, F. (M)
Kusner, D. B. (M)
Kuter, J. J. (M)
Kyne, T. (M)
Lancaster, W. W. (A)
Landauer, I. W. (M)
Lande, A. J. (A)
Lane, A. L. (M)
Langer, G. O. (M)
La Verghetta, F. E. (M)
Lawrence, D. H. (A)
Lazinski, R. H. (M)
Leader, R. (A)
Leibovitz, P. T. (M)
Leitch, J. G. (SM)
Lentz, W. K. (A)
Levene, M. (M)
Lewis, G. (M)
Lieb, A. B. (A)
Lindheim, F. H. (M)
Lindinger, J. L. (A)
Ling, D. A. (M)
Linsky, E. F. (M)
Lisanti, A. G. (A)
Liss, D. M. (M)
Livezey, F. M. (M)
Lloyd, R. B. (SM)
Lock, F. J., Jr. (M)
Locker, R. J. (M)
Loftus, E. V. (M)
Loftus, J. A. (M)
Loginow, S. (SM)
Losew, W. S. (A)
Lovejoy, E. W. (SM)
Luce, R. C. (A)
Lueders, L., Jr. (A)
Lukoff, H. (SM)
Lurin, E. S. (M)
Lynch, T. J. (A)
MacDonald, R. D. (A)
Macfadden, W. C. (M)
Machler, R. C. (SM)
Mackey, J. J. (A)
MacWilliams, J. E. (M)
Maddox, J. L., Jr. (M)
Magaslny, I. P. (M)
Maguire, H. T. (A)
Mah, L. (M)
Major, R. P. (M)
Malkin, T. A. (M)
Malta, S. V. (M)
Manser, J. E. (A)
Mapp, H. S. (A)
Markowitz, R. S. (A)
Marks, E. I. (M)
Marple, M. O. (A)
Marsele, I. (A)
Marshall, D. E., Jr. (A)
Marsten, J. (F)
Martin, J. L. (M)
Martin, M. A. (A)
Martire, J. A. (A)
Maser, B. (A)
Masurat, G. (M)
Matthews, E. I., Jr. (M)
Mauchly, J. W. (F)
Mauger, R. S. (A)
May, K. S. (M)
Mayer, H. C. (M)
McCarron, F. J. (A)
McCarthy, B. R. (M)
McCarthy, C. S., Jr. (M)
McCarty, F. H. (A)
McDade, J. J. (M)
McDowell, A. P., Jr. (M)
McEnroe, J. M., Jr. (A)
McGarrity, R. P. (M)
McKenna, J. E. (M)
McKnight, C. F. (A)
McLeod, W. K. (M)
McNally, F. C., Jr. (A)
Meehan, F. J. (A)
Meinken, K. C., Sr. (A)
Merklinger, J. J. (M)
Metcalf, G. F. (F)
Meyer, W. T. (M)
Mikolajczyk, W. J. (M)
Miller, B. L. (A)
Miller, L. K. (A)
Miller, W. G., Jr. (M)
Milowitz, P. (M)
Mina, V. A. (M)
Miyake, M. M. (M)
Mode, D. E. (SM)
Mooney, J., Jr. (M)
Moore, T. W. (M)
Moore, W. H. (M)
Moritz, K. C. (M)
Morris, L. C. (M)
Moskowitz, N. (M)
Mouradian, H. (VA)
Mozenter, M. J. (M)
Murphy, E. G. (M)
Murphy, J. S. (M)
Murray, R. E. (M)
Naiman, M. L. (SM)
Nambiar, K. K. (A)
Natkin, H. B. (M)
Neeland, F. (M)
Nelson, C. R. (SM)
Neuber, H. K. (M)
Neumann, L. R. (A)
Newman, E. L. (M)
Newmeyer, D. R. (M)
Nichol, A. V. (SM)
Nicholson, V. (A)
Nishimura, J. Y. (A)
Nolan, J. J. (A)
Noyer, R. O. (SM)
Nussbaum, M. (A)
Nye, D. D., Jr. (M)
O'Hara, J. J. (SM)
Olevsky, B. (A)
Ollis, J. H. (M)
O'Malley, M. (A)
Ostroff, A. (A)
Packer, B. S. (M)
Packer, W. H. (A)
Paffas, E. D. (A)
Pai, S. M. (M)
Parrott, N. E. (A)
Partin, M. E. (M)
Pasicznyk, I. (A)
Patterson, G. W. (SM)
Paz, H. J. (A)
Pearce, C. T. (SM)
Pearson, E. E. (M)
Perkins, C. C. (M)
Perkins, G. O. (M)
Peters, A. E. (M)
Peterson, E. F., Jr. (M)
Pierce, O. B. (A)
Piontkowski, J. S. (M)
Platt, B. E. (A)
Plizak, B. T. (M)
Podell, E. J. (M)
Polin, B. H. (M)
Porter, T. J. (M)
Porter, V. J. (M)
Pressman, A. (M)
Procopio, L. W., Jr. (M)
Pryor, R. L. (M)
Queen, G. N., Jr. (M)
Raburn, L. E. (SM)
Rachlin, M. (A)
Raffa, P. E. (M)
Rambo, L. W. (M)
Randall, N. C. (M)
Rapp, A. K. (M)
Ratner, A. (A)
Reveaz, G. (M)
Reyers, R. R. (M)
Richman, R. R. (A)
Richter, F. (M)
Rivera, N. (A)
Robinson, G. W. (A)
Rogers, D. A. (M)
Rogers, R. S. (M)
Rohr, J. G. (M)
Rolnick, M. A. (M)
Roman, A. F. (M)
Romanofsky, N. K. (M)
Roseman, H. M. (M)
Rosenstein, G. M. (A)
Rosenthal, D. (M)
Rosien, R. A. (M)
Roth, T. J. (A)
Rothwarf, F. (M)
Rovins, J. J. (M)
Ruben, H. (SM)
Rubenstein, H. (M)
Rude, R. T. (M)
Rudin, B. (M)
Rudnick, J. J. (A)
Rudofsky, S. (A)
Rudy, P. (M)
Rutledge, J. E., Jr. (M)
Safren, H. G. (M)
Salzar, D. E. (A)
Santamaria, S. (A)
Sarkisian, J. (A)
Schaefer, H. W. (A)
Schifreen, C. S. (A)
Schmechel, D. M. (M)
Schock, H. E., Jr. (A)
Scholes, W. R. (A)
Scholtes, P. W. (M)
Schrader, R. H. (A)
Schuder, J. C. (M)
Schumacher, F. A. (M)
Schwan, H. P. (SM)
Schwartz, I. (M)
Schwartzberg, H. L. (M)
Scott, E., Jr. (A)
Seawell, W. N. (M)
Segal, R. J. (M)
Seif, E. (M)
Sheffler, W. J. (M)
Shelton, R. M. (M)
Sherman, A. (A)
Sherr, S. I. (A)
Shienbloom, H. M. (A)
Showers, R. M. (SM)
Shulman, M. B. (A)
Sichel, A. T. (M)
Siegel, P. (M)
Sigler, S. H. (A)
Simendinger, R. A. (M)
Slomko, G. (A)
Sipler, H. (M)
Skavicus, A. J. (M)
Slawek, J. E. (M)
Smith, A. W. (A)
Smith, B. J. (A)
Smith, D. B. (F)
Smoliar, G. D. (A)
Songster, G. F. (M)
Soorenko, T. (M)
Sorius, A. (M)
Sos, J. (M)
Spadaro, F. G. (M)
Spady, R. J. (A)
Spandorfer, L. M. (M)
Spector, E. N. (A)
Spencer, R. W. (M)
Spielman, S. C. (SM)
Sprunk, W., Jr. (M)
Stambaugh, J. C. (M)
Standeven, J. D. (M)
Stangler, D. M. (A)
Stanton, L. (M)
Stanwood, R. H. (A)
Starks, W. H. (M)
Steagall, W. F. (M)
Steele, R. W. (M)
Steelman, A. T., Jr. (M)
Steigelmann, W. H., Jr. (M)
Stein, M. (A)
Stein, S. J. (SM)
Steinberg, M. (M)
Steinruck, C. F., Jr. (A)
Stern, F. (M)
Stern, H. I. (M)
Stern, J. M. (A)
Stevens, A. J. (A)
Stone, J. E. (M)
Stone, J. (A)
Stovall, J. R., Jr. (M)
Stranix, R. G. (M)
Stratton, C. H. (A)
Strauss, H. E. (M)
Stubbs, G. S. (M)
Stufflebeam, C. E. (A)
Sullivan, H. B. (A)
Sun, H. (A)
Swider, M. F. (M)
Szukalski, E. A. (M)
Talbot, G. S. (M)
Tarpley, R. E. (SM)
Tatarsky, B. (M)
Teacher, C. F. (A)
Ten-Cate, W. L. (A)
Throckmorton, C. L. (M)
Tobe, S. S. (SM)
Todd, C. R. (M)
Tom, J. (M)
Tomar, R. M. (A)
Tonooka, S. (M)
Torrey, R. D. (M)
Trachtenberg, B. M. (M)
Trachtman, J. (M)
Trocky, E. V. (A)
Turchi, D. J. (A)
Turczyn, A. (A)
Ungerleider, B. R. (A)
Urkowitz, H. (SM)
Ussler, W., Jr. (M)
Van Aller, W. H. (M)
Van Basselaere, L. J. (M)
Van Horn, J. C. (SM)
Varallo, F. A. (M)
Varricchio, A. L. (M)
Vasilevskis, H. S. (M)
Vetack, J. E. (A)
Wagner, M. (A)
Walsh, D. E. (M)
Walunas, J. S. (M)
Warner, E. H. (M)
Warren, S. R., Jr. (SM)
Warshaw, C. H. (M)
Watson, B. (A)
Weber, H. C. (A)
Weidknecht, C. J., Jr. (M)
Weilerstein, I. M. (M)
Weinberg, M. (M)
Weiner, J. R. (SM)
Weiner, M. (M)
Weinger, R. (A)
Weinstock, W. W. (SM)
Weiss, S. (A)
Welsh, P. J. (A)
West, W. P. (SM)
Whitby, L. S. (M)
White, F. J. (M)
White, J. P. (M)
Wightman, R. R. (M)
Willenborg, E. J. (A)
Williams, A. J., Jr. (F)
Williams, J. B. (SM)
Wilsker, O. (M)
Wilson, L. D. (SM)
Witkin, E. (SM)
Woessner, W. J., Jr. (M)
Wojciehowski, E. T. (M)
Wojcik, J. J. (SM)
Wolf, A. A. (M)
Wolfson, H. S. (M)
Wolfson, R. P. (M)
Wolin, L. (SM)
Woodcock, V. E. (M)
Woods, L. J. (SM)
Wos, J. (A)
Wyeth, F. H. (M)
Yacyk, J. (M)
Yamada, H. (A)
Young, R. T. (A)
Zappacosta, J. A. (M)
Zimmerman, B. L. (A)
Zimmerman, M. S. (SM)

Philipsburg (CP-4)
Crain, H. M. (SM)
Dickey, C. W. (A)

Phoenixville (PHI-3)
Starr, J. E. (M)

Pine Grove Mills (CP-4)
Miller, N. B. (M)
Pharo, L. C., Jr. (M)

Pineville (PHI-3)
Gallagher, V. C. (A)
Schreiner, W. A. (M)

Pitcairn (PIT-4)
Jones, C. I. (M)
Kaufman, W. M. (A)
Keener, E. L. (SM)
Kroko, L. J. (A)
McGinley, G. W. (M)
Ramey, R. A. (F)
Taylor, M. E. (M)

Pittock (PIT-4)
Shyhalla, N. (M)

Pittsburgh (PIT-4)
Allen, J. G. (SM)
Allen, S. D. (M)
Altmire, H. D. (A)
Anderson, A. E. (M)
Angello, S. J. (SM)
Aronson, M. H. (M)
Baierbach, R. I. (M)
Barron, F. E. (SM)
Baughman, G. W. (SM)
Bean, W. C. (A)
Benjamin, C. E. (M)
Bennett, A. I., Jr. (A)
Beth, E. W. (A)
Betzler, C. J. (M)
Bhavnani, K. H. (M)
Biel, D. T. (A)
Billetdeaux, A. C. (M)
Binstock, M. H. (M)
Blackmon, H. (SM)
Blair, H. A., Jr. (A)
Boardman, E. (A)
Booker, C. A., Jr. (M)
Bossart, P. N. (F)
Boyd, E. C., Jr. (M)
Boyer, J. L. (M)
Bright, H. S. (SM)
Brinda, J., Jr. (M)
Browder, F. E. (M)
Bush, N. E. (M)
Busse, C. C. (M)
Byerly, R. T. (M)
Callaghan, J. B. (M)
Calvert, J. F. (SM)
Caplan, H. M. (A)
Castner, R. J. (A)
Chandler, A. M. (A)
Chang, H. K. H. (M)
Chen, K. (A)
Chick, R. F. (A)
Chin, T. H. (A)
Coates, R. S. (A)
Colker, J. (M)
Coltman, J. W. (F)
Comstock, W. D. (M)
Conry, W. T. (M)
Coombs, S. H. (M)
Cunningham, R. C. (SM)
Davis, R. E. (SM)
Dean, W. C. (M)
Delgado, R. H. (M)
Diamond, H. (M)
Dickey, D. F. (M)
Dodd, A. E. (M)
Duckett, E. J. (SM)
Dugan, J. F. (M)
Eash, J. J. (M)
Elter, W. F. (A)
Engel, F. A., Jr. (M)
England, T. R. (M)
Eshleman, P. W. (M)
Evans, R. (A)
Fitzsimmons, D. P. (SM)
Flaherty, J. M. (M)
Florino, J. A. (M)
Ford, D. J. (A)
Forrester, A. T. (SM)
Franz, J. P., Jr. (M)
Friedman, A. B. (A)
Fryling, C. V. (M)
Gannon, G. F., Jr. (A)
Garrett, S. J. (M)
Gates, A. F. (A)
Germann, J. D. (A)
Gibson, F. C. (M)
Gilbert, C. W. (M)
Gill, H. A. (SM)
Gogniat, T. (M)
Goldstein, R. P. (A)
Graul, T. A. (M)
Greenwood, J. H. (SM)
Hager, R. E. (A)
Hamilton, W. H. (SM)
Hanna, C. R. (SM)
Hansen, J. R. (SM)
Hartley, R. R. (M)
Haun, R. D., Jr. (M)
Hayes, J. A. (A)
Henry, F. E. (M)
Herman, R. E., Jr. (M)
Hollandbeck, R. F. (M)
Holzman, G. R. (M)
Hoover, D. B. (A)
Hovey, B. K. (SM)
Huggler, L. R. (M)
Humes, R. M. (A)
Hutcheson, J. A. (F)
Jackson, A. H. (A)
Jacobs, J. E. (A)
Jarvis, P. H. (A)
Jergel, R. F. (A)
Jones, C. H. (SM)
Jones, D. H. (M)
Jonnath, A. J. (A)
Kalser, H. R. (SM)
Kannair, C. J., Jr. (A)
Keay, F. W. (M)
Kenney, T. C. (SM)
Ketterer, R. L. (M)
Kieshauer, F. W. (M)
King, N. P., Jr. (M)
Klingler, E. H. (M)
Klotzbaugh, G. A. (SM)
Knox, W. G. (A)
Konnerth, K. L., Jr. (M)
Krasik, S. (SM)
Lavi, A. (M)
Lawson, T. R., Jr. (M)
Leahy, E. F. (M)
Leeds, J. V., Jr. (M)
Leonard, F. J. (M)
Leone, H. A. (A)
Libenschek, R. S. (A)
Lipchak, J. B. (M)
Locante, J. (A)
Logsdon, G. R. (A)
Lunz, G. J. (M)
Luther, G. M. (A)
Madsen, C. J. (SM)

Magee, C. H. (A)
Malmberg, P. R. (M)
Margolis, S. G. (M)
Marquez, A. (M)
Marsh, J. M. (A)
Marshall, S. C. (M)
Martin, A. V. J. (SM)
Martin, W. A. (M)
Mathias, R. A. (SM)
McConaughy, D. L. (M)
McConnell, R. A. (SM)
McCreanor, R. A. (A)
McCreary, H. S., Jr. (A)
McIntosh, R. O. (SM)
McNamara, J. E. (A)
Menear, W. R. (M)
Menes, M. (M)
Miller, W. M. (VA)
Mitchell, J. B. (M)
Mocharko, G. L., Jr. (M)
Moore, G. E. (M)
Moses, A. J. (M)
Moss, A. I. (M)
Moulds, H. S. (A)
Nagel, G. W. (SM)
Noggle, L. H. (M)
O'Donnell, J. J. (M)
O'Donnell, T. J. (SM)
Ong, C. J. (M)
O'Shea, J. P. (A)
O'Shea, J. G. (M)
Pack, J. L. (M)
Painter, W. C. (M)
Pakala, W. E. (SM)
Pappas, P. E. (M)
Perkins, H. A., Jr. (M)
Peters, H. D. F. (M)
Peters, L. J. (SM)
Philips, J. (M)
Pickholtz, L. (M)
Pittman, P. F. (M)
Pless, R. L. (M)
Plutt, J. A., Jr. (M)
Porterfield, C. P. (M)
Potter, W. S. (A)
Powell, R. W. (M)
Pryor, E. R. (M)
Rau, F. J. (M)
Reihing, J. V., Jr. (A)
Reif, K. E. (M)
Reuther, C. R. (A)
Reynolds, M. T. (M)
Rhoads, D. O. (A)
Ridenour, H. E. (A)
Roberts, R. W. (M)
Ropar, J. M. (A)
Rude, P. A. (M)
Ruth, D. K. (A)
Sack, E. A., Jr. (M)
Saucedo, R. (M)
Schatz, E. R. (SM)
Schindler, D. G. (M)
Schneeberger, R. J. (SM)
Schneider, H. L. (SM)
Schultz, J. J. (M)
Schultz, M. A. (SM)
Seidel, R. A. (M)
Shafer, W. L. (A)
Shaw, J. B. (M)
Shaw, V. G. (SM)
Sheker, E. B. (M)
Sherman, A. G. (M)
Shoupp, W. E. (F)
Silverman, R. (A)
Sims, D. S. (SM)
Sines, W. U., Jr. (M)
Skinner, D. D. (A)
Slepian, J. (F)
Smith, L. E. (M)
Smith, R. E. (M)
Snefsky, E. A. (M)
Sparrow, R. F. (A)
Spingarn, K. (M)
Stapelfeldt, R. (M)
Stapp, I. P. (M)
Staubitz, E. J. (M)
Steinback, R. T. (M)
Stepka, A. J. (A)
Stott, W. R. (A)
Strasser, A. (M)
Stuart, H. D. (A)
Stuart, R. A. (A)
Suozzi, J. J. (A)
Sykes, R. T. (A)
Sze, T. W. (A)
Szilkai, G. C. (F)
Taylor, E. J. (M)
Taylor, W. (A)
Teare, B. R., Jr. (F)
Thompson, B. L. (M)
Thompson, F. T. (A)
Thompson, J. H. (SM)
Tindall, H. D. (M)
Tunell, R. H. (A)
Twaska, V. M. (A)
Uleman, T. (SM)
Unger, E. J. (M)
Vogeley, C. E., Jr. (SM)
Voshall, R. E. (M)
Wade, R. A. (M)
Wagner, R. J. (A)
Walchli, H. E. (SM)
Wei, Y.-M. (M)
Wexler, C. H. (M)
Wieczorkowski, E. A. (M)
Williams, E. M. (F)
Wilson, W. A. (M)
Wolfe, P. N. (M)
Wood, J. E. (M)
Woodford, J. B., Jr. (SM)
Woodman, R. F. (M)
Wyckoff, R. D. (F)
Yarussi, F. P. (A)
Young, F. J. (M)
Zionta, S. (A)

Pittston (PHI-3)
Loughney, T. M. (M)
Miller, A. N. (A)
Moceyunas, A. J. (M)

Plymouth Meeting (PHI-3)
Applegarth, A. R., Jr. (SM)
Best, D. T. (M)
Broomall, J. M. (SM)
Ginsberg, E. M. (M)
Krantz, F. H. (M)
Loev, D. (A)
Luscombe, C. F. (M)
Ryesky, A. (M)
Smith, R. C. (M)

Port Matilda (CP-4)
Seeley, R. M., Jr. (M)

Pottstown (PHI-3)
De Berardis, A. J. (M)
Mellon, R. E. P. (VA)
Oister, G. K. (A)
Ottolini, D. F. (A)

Prospect Park (PHI-3)
Babiak, J. (M)
Sagan, E. R. (A)

Quakertown (P-LV-3)
Anderson, A. E. (SM)
Bartholomew, R. G. (M)
Cole, W. P. (SM)
Hendricks, P. S. (VA)
Moose, L. F. (M)
Saloom, J. A. (M)

Reading (PHI-L-3)
Bang, R. L. (M)
Bennett, W. F. (A)
Close, J. N. (A)
Emery, L. D., Jr. (M)
Feicht, R. B. (M)
Hauck, H. S. (M)
Henrich, G. R. (A)
Hill, K. J. (M)
Holzinger, C. S. (M)
Lipscomb, R. F. (M)
Mill, A. F. (A)
Rose, F. L. (M)
Rothermel, R. S. (M)
Schilling, R. G. (A)
Scull, E. W. (A)
Shaffer, R. E. (A)

Reiffton (PHI-L-3)
Pomeroy, R. C. (SM)

Ridgway (EMP-4)
Cowles, R. J. (M)
Kirkpatrick, D. N. (SM)
Ross, V. C. (A)

Ridley Park (PHI-3)
Jamison, J. S. (M)
McWilliams, G. R. (A)
Parris, S. R. (M)
Weiss, H. R. (A)

Rockwood (PIT-4)
Henkels, H. W. (SM)

Ronks (PHI-L-3)
Perry, H. E. (M)

Rosemont (PHI-3)
Abernethy, H., III (M)

Roslyn (PHI-3)
Barnett, G. F. (M)
Beaver, J. A., Jr. (M)
Bigelow, H. L., Jr. (M)
Butt, S. P., Jr. (A)
Callahan, A. H. (M)
Douglass, F. W. (M)
Goff, K. W. (A)
Grove, L. R. (M)
Hochman, S. (M)
Sayer, T. C. (M)
Shirley, R. C. (M)
Silverman, J. B. (M)
Stahl, R. A. (M)
Yutz, R. W. (M)

Royersford (PHI-3)
Grime, R. (M)

Rydal (PHI-3)
Clarke, I. A. (M)
Deutsch, R. (SM)
Ferrill, T. M., Jr. (SM)
Herr, R. F. (SM)
Lagore, J. A. (SM)

St. Davids (PHI-3)
Gabriel, E. Z. (M)
Seely, E. E. (M)

St. Marys (EMP-4)
Bickmire, R. L. (SM)
Breindel, L. A. (A)
Butler, E. W. (SM)
Dressel, H. (A)
Fritz, C. F. (A)
Fritz, H. U. (M)
Garner, W. J. (A)
Hoffman, R. R. (SM)
Inge, E. F. (M)
Neff, A. K. (A)
Pierson, I. S. (M)
Snowdon, T. L. (SM)
Sorg, F. X. (M)
Speer, J. S., II (M)
Young, R. W. (M)

Salfordville (PHI-3)
Archer, G. R. (A)

Saxonburg (PIT-4)
Cooper, R. W. (A)
Stuebgen, W. F. (A)

Saylorsburg (PHI-3)
Young, C. R. (A)

Sayre (ELM-C-1)
Ball, M. (A)
Franklin, B. A. (A)

Scranton (PHI-3)
Brown, R. J. (A)
Cooke, K. R. (A)
Corwin, N. J. (M)
Drazdauskas, C. J. (M)
Kaplan, M. (SM)
Kelly, J. F. (A)
Marsinkavage, D. M. (A)
Miller, W. A. (A)
Oschmann, R. G. (M)
Quinn, J. M. (M)
Ringland, R. S. (SM)
Risse, J. A. (M)
Schiller, J. (M)
Smith, G. (SM)
Thomas, W. F. (M)
Witkowski, J. F. (SM)

Secane (PHI-3)
Kranzley, A. S. (M)

Sharon (PIT-4)
Bowers, P. R. (M)
Dalton, K. J. (M)
Zahniser, R. M. (A)

Sharon Hill (PHI-3)
Eckert, E. R. (M)
Rubinoff, M. (M)

Shenandoah (PHI-3)
Kulak, A. J. (M)

Shickshinny (PHI-3)
Shannon, W. M. (A)

Shippingport (PIT-4)
Schloemer, R. D. (A)

Smethport (EMP-4)
Francisco, S. G. (M)

Solebury (PHI-3)
Algeo, B. C., Jr. (SM)

Somerton (PHI-3)
Pharo, E. W., Jr. (M)

Souderton (PHI-3)
Lawson, T. C. (M)
Smith, H. B. (M)

Southampton (PHI-3)
Barsky, H. S. (SM)
Dempster, B. W. (A)
Grzywacz, W. (M)
Lex, R. G., Jr. (M)
O'Connor, W. B. (M)
Schroeder, A. C. (F)
Smith, F. E. (M)
Thompson, R. L. (A)

South Williamsport (WIL-4)
Feehrer, M. R. (A)

Spring City (PHI-3)
Clevenstine, W. M. (A)

Springdale (PIT-4)
Duris, M. W. (M)

Springfield (PHI-3)
Brinton, J. H., Jr. (M)
Carrick, G. R. (A)
Chalupa, J. F. (M)
Di Campli, B. A. (M)
Ebling, W. F., Jr. (M)
Hoepfner, K. B. (M)
King, G. W. K. (M)
Laiming, H. J. (SM)
Marcott, C. M. (M)
Metzger, A. C. (M)
Miller, M. N. (M)
Mitchell, W. J., Jr. (A)
O'Neill, J. F. (M)
Schwartz, R. F. (SM)
Snyder, C. M. (A)
Sylvester, R. A. (M)
Wagenseller, J. E. (A)
Weiss, E. (M)

Spring House (PHI-3)
Sims, J. C., Jr. (SM)

State College (CP-4)
Ammerman, C. R. (SM)
Ayres, D. T. (A)
Baker, W. L. (SM)
Barber, K. F. (A)
Bastuscheck, C. P. (SM)
Baxter, F. C., Jr. (M)
Binstock, L. (M)
Bringman, J. M. (M)
Brownfield, L. B. (M)
Callaghan, J. W. (M)
Campanella, A. J. (M)
Cannon, J. B., Jr. (M)
Carey, D. E. (M)
Chubb, W. R., Jr. (A)
Clark, D. G. (M)
Cramond, W. R. (M)
Crossley, G. L. (SM)
Dale, J. A. (A)
Dean, J. C. (M)
Doerr, C. W. (M)
Eck, R. C. (M)
Eliot, W. A. (SM)
Etzweiler, G. A. (A)
Files, W. D. (SM)
Finlon, F. P. (M)
Freed, P. J. (SM)
Geronimo, M. B. (A)
Greene, D. C. (M)
Hall, F. T., Jr. (M)
Harbolis, S. S., Jr. (A)
Harris, V. E. (M)
Hemman, R. J. E. (M)
Herlt, B. G., Jr. (M)
Herman, E. B. (SM)
Hofecker, W. J. (M)
Houser, W. G. (M)
Hunter, R. P. (SM)
John, F. T. (A)
Kenly, T. F. (M)
Key, C. L., Jr. (SM)
Key, J. T., Jr. (M)
Knausenberger, G. E. (M)
Kulp, K. H. (M)
Kush, L. J. (M)
Lawther, J. M. (A)
Leiss, W. J. (SM)
Lemley, L. W. (M)
Lopez, A. F. (SM)
Marcus, R. B. (M)
Maris, E. H., Jr. (M)
McGinley, J. H. (M)
McLucas, J. L. (SM)
Mentzer, J. R. (SM)
Minor, L. C. (A)
Musser, G. L. (SM)
Nearhoof, H. J. (SM)
Norris, R. S. (M)
Norviel, H. D. (SM)
Oblinger, J. T. (M)
O'Connor, H. C., Jr. (M)
Palmer, J. R. (SM)
Passow, R. L. (SM)
Rexroat, L. D. (M)
Rutelli, J. P. (SM)
Scheetz, H. A. (M)
Scheuer, H., Jr. (M)
Shaffer, J. D. (M)
Sharp, A. C. (SM)
Siewers, D. C. (M)
Skipper, R. E. (SM)
Skudrzyk, E. J. (M)
Smith, J. P. (M)
Spackman, R. M. (M)
Stavely, E. B. (M)
Stein, S. (M)
Thompson, F. C. (A)
Traugott, R. D. (M)
Walker, J. P., Jr. (M)
Waynick, A. H. (F)
Welch, C. L. (M)
Wolfe, R. E. (M)
Wurst, J. W. (M)

Stiles (P-LV-3)
Saganowich, J. T. (A)

Strafford (PHI-3)
Mathes, R. E. (F)
Upham, S. W. (M)

Sunbury (WIL-4)
Weber, J. O. (A)
Young, R. H. (M)

Swarthmore (PHI-3)
Barus, C. (SM)
Bowler, D. L. (M)
Burtis, S. F., Jr. (M)
Johnson, F. M. (M)
Malcomson, J. A. (A)
Roberts, G. A. (M)
Tompkins, H. E. (SM)

Sykesville (EMP-4)
Lesko, J. (M)

Tamaqua (PHI-3)
Apolenis, C. J. (M)

Tarentum (PIT-4)
Chantler, G. D. (A)

Telford (PHI-3)
Hinds, J. L., Jr. (M)
Price, H. K. (A)
Robinson, S. A. (SM)

Throop (PHI-3)
Goodman, J. (A)
Yatsko, F. P. (A)

Tobyhanna (PHI-3)
Fuqua, H. G. (SM)
Jarecki, S. J. (A)

Towanda (ELM-C-1)
Engisch, R. A. (A)

Trafford (PIT-4)
Breakey, G. A. (A)

Trevose (PHI-3)
Bess, T. J., Jr. (M)
Dolsen, J. A. (M)
Edwards, A. H. (A)
Fath, J. P. (A)
Gorny, D. S. (M)
Hanson, L. B. (A)

Tunkhannock (PHI-3)
Inman, A. D. (A)

Turtle Creek (PIT-4)
Christensen, B. (M)

Tyrone (PIT-4)
Gwin, J. D. (M)
Kearney, H. B., Jr. (M)

Union City (ER-1)
Gregor, J. E. (A)

University Park (CP-4)
Bowhill, S. A. (SM)
Ebaugh, P. (M)
Ross, W. J. (M)
Schmerling, E. R. (SM)
Sechrist, C. F., Jr. (M)
Smith, R. M. (M)
Walker, E. A. (M)

Upper Darby (PHI-3)
Anzalone, P. J. (M)
Bush, B. A., Jr. (A)
Charp, S. (SM)
Fitzpatrick, J. F. (M)
Garkav, E. (M)
Gerry, M. E. (SM)
Gumacos, C. (M)
McCoy, C. T. (SM)
McFall, T. J. (M)
Pope, R. A. (M)
Santaguida, C. (A)
Stirman, J. P. (A)
Weinberg, H. M. (A)

Valencia (PIT-4)
Findley, R. W. (M)

Verona (PIT-4)
Bartholomew, R. P. (M)
Hollobaugh, R. C. (M)
Viener, A. H. (M)

Villanova (PHI-3)
Dilks, U. C. S. (SM)
Klekotka, J. A. (M)
Lockwood, F. P., Jr. (A)
Sentner, P. J. (A)
Stinesman, J. W., Jr. (A)

Wallingford (PHI-3)
Howard, J. H. (SM)
Jayne, F. B. (A)
Robinson, I. E. (M)
Shallcross, D. H. (A)

Warminster (PHI-3)
Bicking, H. P. (M)

Warren (EMP-4)
Barre, W. E. (M)
Loranger, J. A. (SM)
Loucks, W. J. (A)
Myers, S. J. (A)
Schulz, R. A. (M)
Wanner, L. R. (M)

Warrington (PHI-3)
Clarance, A. L. (M)
McGlone, J. M. (M)

Washington (PIT-4)
Elder, R. C. (A)
Loffredi, A. J. (A)
Paul, D. R. (M)
Spriggs, L. A., Jr. (M)

Wayne (PHI-3)
Anderson, F. W. (SM)
Blakely, R. T. (SM)
Bowman, D. F. (SM)
Cecal, J. A. (A)
Collins, H. B., Jr. (SM)
Davis, H. U. (M)
De Wolf, J. B. (M)
Leisenring, J. G. (A)
Libby, E. C. (A)
Lolli, L. M. (A)
McFall, R. W. (SM)
McSorley, S. L. (A)
Medkeff, R. J. (M)
Nasoni, D. E. (A)
Niemann, E., Jr. (A)
Raphelson, M. (M)
Reagan, W. E. (M)
Stern, D. M. (A)
Wellard, C. L. (A)

Waynesboro (PHI-3)
Diller, D. S. (M)
Marlow, W. C., Jr. (VA)
Wassenberg, J. F. (M)

Waynesburg (PHI-3)
Jacobs, D. W. (M)

Weatherly (PHI-3)
Carlson, R. F. (SM)
Kiser, N. L. (SM)

Wellsboro (ELM-C-1)
Kilmer, F. G. (M)

Wesleyville (ER-1)
Brown, P. A. (M)
Larson, K. E. (M)

West Chester (PHI-3)
Bloch, M. W. (M)
Craig, R. C. (M)
Fuller, J. B., Jr. (M)
Green, R. E., Jr. (M)
Haner, L. P. (SM)
Hayes, H. J. (M)
Hickey, J. E., Jr. (M)
Kieselbach, R. (M)
Markarian, H. (M)
Tracy, R. A. (M)
Veldhuis, I. A. C. (SM)
Wentworth, H. B. (A)

West Middlesex (PIT-4)
Herr, C. E. (A)

West Pittston (PHI-3)
Bruno, A. R. (M)
Melvin, J. T. (A)
Ripple, J. W. (A)

Wilkes-Barre (PHI-3)
Graytock, R. A. (M)
Parise, J. D. (A)
Reid, J. F. (A)

Williamsport (WIL-4)
Amey, G. B. (A)
Anderson, L. F. (M)
Bresee, W. H. (M)
Conrad, R. E., Jr. (A)
Dawson, J. W. (F)
Deming, G. W. (M)
Gehrke, F. E. (SM)
Gregor, T. P. (A)
Harvey, N. L. (F)
Horrigan, J. B. (A)
McCarthy, F. J. (M)
Peterson, N. C. (M)
Petts, R. G. (M)
Pouy, R. H. (M)
Richart, D. H. (M)
Sibley, R. C. (M)
Simmons, W. J., Jr. (A)
Teno, E. (A)
Watson, W. H. (M)

Willow Grove (PHI-3)
Borman, S. H. (A)
Dry, D. N. (M)
Fisher, M. K. (M)
Florence, V. H. (M)
Franke, A. E. (M)
Fraser, R. S. (M)
Hirschman, H. (M)
Hockeimer, H. E. (M)
Khougaz, E. G. (A)
Kornfeld, M. (M)
Koop, W. S., Jr. (A)
Lewis, J. R. (M)
Mason, E. C. (A)

Nordahl, J. G. (M)
Saltzman, A. R. (A)
Sikina, T. V. (M)
Speights, M. T. (M)
Thomson, D. N. (M)
Tillman, R. M. (M)
Zohn, R. L. (M)

Woodlyn (PHI-3)
Kashmar, E. J. (M)
Russo, L. J. (M)

Wyncote (PHI-3)
Alexy, M. R. (SM)
Bernbaum, B. (M)
Cooper, D. T. (VA)
Craig, P. M. (F)
Dorris, R. C. (M)
Fox, B. (M)
Gonzales-Correa, E. (M)
Hardy, N. (M)
Kinnier, D. (M)
Kusma, D. (SM)
Lilly, C. H. (A)
Sher, N. (M)
Smith, R. V. (SM)

Wyndmoor (PHI-3)
Altomare, J. P. M. (M)
Lieberman, F. (M)

Wynnewood (PHI-3)
Appel, W. N. (A)
Berg, N. E. (M)
Blum, C. M. (A)
Dohan, W. R. (M)
Fisher, J. F. (SM)
Fulton, L. H. (A)
Lees, J. W. (SM)
Meyerhoff, A. J. (M)

Wyoming (PHI-3)
Casterlin, A. N. (A)

Wyomissing (PHI-L-3)
Davis, W. J. (M)
Gehris, J. P. (M)
Huyett, W. I. (M)
McLaughlin, J. F. (A)

Yardley (PHI-3)
Emslie, N. M. (A)
MacDonald, H. E. (M)
Schwartz, N. J. (M)

Yeadon (PHI-3)
Dillon, T. P. (A)
Haber, F. (M)
McBlain, W. L. (M)
Merrill, J. H. (M)
Molleri, J. T. (A)
Myers, E. F. (A)
Ransier, R. (M)

York (PHI-L-3)
Beck, M. R. (M)
Boyer, R. M. (A)
Boyer, W. H. (A)
Chronister, W. M. (M)
Dangl, J. R. (M)
De Frees, H. F. (M)
De Voll, R. L. (SM)
Erdley, R. F. (M)
Feder, J. H., Jr. (A)
Frost, E. L. (M)
Goodling, G. G., Jr. (M)
Haas, W. I. (M)
Kiger, L. L. (A)
Kudlich, K. H. (M)
Lease, D. A. (A)
Lowe, F. B. (A)
Pueschner, H. (M)
Schutt, R. O., Jr. (M)
Sims, W. H., Jr. (M)
Staub, J. R. (A)
Sterner, F. L. (M)
Tinkham, R. W. (A)
Todd, R. H. (M)
Walker, H. (SM)
Wanbaugh, W. C. (M)
Weiner, E. G. (A)
Wildermuth, J. R. (M)

Youngwood (PIT-4)
Nowalk, T. P. (M)
Pridmore, T. C. (SM)
Stein, F. S. (M)
Steimak, J. P. (SM)

RHODE ISLAND

Ashaway (BOS-1)
Young, R. W. (M)

Barrington (BOS-1)
Carmody, T. P. (M)
Prior, T. K. (A)

Bristol (BOS-1)
Tingley, F. M. (M)

Central Falls (BOS-1)
Grzesik, J. (A)
Onoyan, G. G. (A)

Cranston (BOS-1)
Abbenante, N. (M)
Cardillo, A. (M)
Monopoli, R. V. (A)
Salk, D. (A)
Soscia, B. L. (A)

Cumberland (BOS-1)
Bailey, L. E. (M)

East Greenwich (BOS-1)
Bingham, R. C. (A)
Gillin, G. F. (A)
Kimble, C. B. (M)
Leopold, J. M. (A)
Tyler, E. M. (M)
Wong, G. J. (M)

East Providence (BOS-1)
Bishop, B. F. (M)

Hoxsie (BOS-1)
Kunz, G. A. (M)

Kingston (BOS-1)
Bliamptis, E. E. (M)
Haas, R. S. (M)
Prince, M. J. (M)

Manville (BOS-1)
Lavallee, M. L. (A)

Middletown (BOS-1)
Higgins, J. T. (A)
Wilson, R. E., Jr. (M)

Newport (BOS-1)
Alexander, C. S., Jr. (A)
Baer, E. W., III (M)
Barry, D. T. (A)
Bowerman, R. H. (M)
Mathison, W. W. (M)
Murphy, E. J. (M)
McNelly, A. D. (A)
Ripple, E. G. (M)
Sollozy, C. S. (M)
Vincent, G. D. (A)
Williams, R. E. (M)
Zisk, S. H. (A)

North Kingstown (BOS-1)
Smith, P. W. (A)

Pawtucket (BOS-1)
Beckett, H. F. (M)
Farrell, C. L., Jr. (A)
Nichols, A. J. (A)

Peace Dale (BOS-1)
Birch, W. B. (A)

Point Judith (BOS-1)
Merriam, R. W. (M)

Portsmouth (BOS-1)
Kasouf, G. (A)

Providence (BOS-1)
Anderson, G. P. (M)
Angulo, C. M. (SM)
Barlow, H. B., Jr. (M)
Bliss, Z. R. (A)
Coppell, F. K. (A)
Dandreta, W. (VA)
Davies, K. (M)
Farnsworth, H. E. (SM)
Farrell, F. X. (M)
Fine, S. (M)
Flad, F. R. (M)
Halton, E. B. (M)
Higgins, L. S. (A)
De Klerk, J. (SM)
Kodis, R. D. (SM)
Kornhauser, E. T. (SM)
Markey, J. T. (A)
Murtaugh, W. A. (M)
Nordquist, P. J. (M)
Rappa, J. (A)
Rizzi, P. A. (M)
Testa, E. (M)
Truell, R. (SM)
Verrecchia, T. A. (M)

Quonset Point (BOS-1)
Huff, M. S. (M)
Spinner, C. R. (A)

Riverside (BOS-1)
Bushnell, R. R. (A)

Rumford (BOS-1)
Chick, B. B. (M)

Tiverton (BOS-1)
Lizotte, O. A. (M)

Wakefield (BOS-1)
Mowbray, W. H. (A)

Warren (BOS-1)
Bowen, H. C. (M)

Warwick (BOS-1)
Klemer, B. H. (M)
Thoresen, J. C. (A)

West Barrington (BOS-1)
Coppolino, L. S. (M)
Prior, T. C. J. (M)

Westerly (BOS-1)
Finocchiaro, E. C. (M)
Sardelli, H. A. (A)

West Warwick (BOS-1)
Hynek, D. P. (M)

SOUTH CAROLINA

Aiken (ATL-C-3)
Barnes, B. B. (M)
Meiselbach, A. W. (A)
Mix, P. E. (M)
Newberry, V. A. (M)
Ramsey, R. W., Jr. (M)
Ross, J. D. (A)
Studley, R. V. (M)
Yingling, G. B. (M)

Anderson (ATL-3)
Glaser, H. I. (M)
Hawthorne, D. (A)

Cayce (ATL-C-3)
Hafely, C. H. (A)

Charleston (ATL-C-3)
Alderman, E. L. (M)
Bailey, J. H. (M)
Ballard, R. C. (M)
Birchfield, W. P. (A)
Bull, W. I. (SM)
Cook, J. E. (M)
Cormack, J. G. (M)
Costello, J. E., Jr. (A)
Couture, C., Jr. (M)
Dawson, O. D. (A)
Goldberg, H. S. (M)
Gremer, C. E. (M)
Hamilton, W. T. (M)
Hancock, G. H. (A)
Hart, R. N., III (M)
Herring, O. L., Jr. (M)
Jefferies, D. W. (M)
Risher, R. G. (M)
Sanderson, R. F. (M)
Sarco, J. (A)
Schachte, W. L. (SM)
Schleppegrell, J. R. (A)
Smith, F. A. (M)

Charleston Heights (ATL-C-3)
Flynn, L. A. (A)
Hare, M. D. (M)
Peterson, F. H. (M)
Shimandle, J. G. (M)

Chester (ATL-3)
Craig, M. J. (M)

Clemson (ATL-3)
Adams, L. C. (A)
Haischer, D. H. (A)
Thurston, J. N. (SM)

Columbia (ATL-C-3)
Bowers, C. W. (M)
Fellers, R. G. (SM)
Ferris, W. R. (F)
Foster, L. W. (SM)
Hanan, J. E. (M)
Lambert, R. D., Jr. (SM)
Lowman, B. L. (M)
Moseley, S. T. (SM)
Parsons, J. H., Jr. (A)
Reese, M. T. (M)
Roberts, W. H. (M)
Romanyszyn, M. T. (A)
Scott, A. L. (A)
Smith, E. H., Jr. (M)
Snyder, R. J. (A)
Taylor, J. (SM)
Warr, G. H. (M)

Florence (ATL-C-3)
Beamer, G. T. (A)
Herring, M. J. (A)
Moore, B. E. (M)
Sellars, E. A. (A)
Townsend, A. P. (A)

Folly Beach (ATL-C-3)
Howell, J. E. (M)

Greenville (ATL-3)
Garrison, W. E. (M)
Greer, P. A. (M)
James, J. E. (M)
Pace, M. W. (A)
Poulsen, N. R. (M)
Wearn, W. C. (A)
White, J. H. (M)

Greenwood (ATL-3)
McCombs, J. W. (M)

Irmo (ATL-C-3)
Flood, F. R. (M)
Goodson, B. M. (A)

Isle of Palms (ATL-C-3)
Wilkins, J. R. (A)

Lancaster (ATL-3)
Elliott, R. J. (M)

Moncks Corner (ATL-C-3)
Volf, L. F. (A)

Mount Pleasant (ATL-C-3)
Able, H. L., Jr. (M)
Gay, R. E. (M)
Porcher, F. P. (M)
Schneider, A. P. (M)

North Augusta (ATL-C-3)
Felder, A. A. (M)
Gill, J. P., Jr. (M)

North Charleston (ATL-C-3)
Gatch, C. E. (A)
Hunter, H. L. (M)
Jonas, A. (M)
Martin, J. A. (A)
Owens, S. H. (M)
Pelley, A. D. (M)
Rogers, C. L. (M)
Thomason, J. G. (M)

Orangeburg (ATL-C-3)
O'Cain, W. L. (A)

Pendleton (ATL-3)
Pippin, R. F., Jr. (M)

Rock Hill (ATL-3)
Collins, J. O. (M)
Henson, J. A. (A)

Shaw AFB (ATL-C-3)
Benedict, D. F. (M)
Chandler, R. M. (M)
Peterson, T. W. (A)

SOUTH DAKOTA

Aberdeen (TC-5)
Phillips, B. W. (M)
Saunders, R. G. (M)

Arlington (TC-5)
Dill, E. C. (M)

Brookings (TC-5)
Cheadle, J. N. (SM)

Canning (TC-5)
Graf, E. A. (M)

College Station (TC-5)
Esaler, W. O. (M)

Ellsworth AFB (TC-5)
Bell, W. D. (M)
Burke, J. F. (M)
Sneddon, J. H. (M)

Flandreau (TC-5)
Marble, J. E. (M)

Pierpont (TC-5)
Nygaard, G. M. (M)

Pierre (TC-5)
Jones, M. G. (A)

Rapid City (TC-5)
Mayer, F. N. (A)
Nelson, E. A. (M)

Sioux Falls (TC-5)
Bunday, G. F. (A)
Froke, L. C. (A)
McKenna, W. E. (M)
Nelson, V. R. (A)
Pierce, M. E. (M)
Sikorski, J. W. (A)
Warren, L. C. (A)

Springfield (TC-5)
Bedwell, T. H. (M)

Tyndall (TC-5)
Kostal, L. R. (M)

Vermillion (TC-5)
Graf, S. J. (M)

TENNESSEE

Alcoa (ATL-3)
Jenkins, P. M. (A)
Warren, M., Jr. (M)

Altamont (HUN-3)
Morgan, C. C., Jr. (M)

Bristol (ATL-3)
Bradfute, G. A., Jr. (A)
Branch, W. D. (M)
Duty, D. M. (M)
Franevsky, M. (M)
King, L. A. (SM)
Schell, J. H. (M)
Shackelford, H. L. (M)
Smith, B., Jr. (SM)
Woodward, R. M. (M)

Chattanooga (ATL-3)
Barnes, B. B. (A)
Bohr, E. T. (M)
Briscoe, H. R., Jr. (A)
Crozier, H. W. (M)
Hochdorf, M. (M)
Hoffstetter, G. E. (M)
King, T. R. (A)
Meagher, A. W. (A)
Smith, R. T. (A)
Terrell, J. M., Jr. (M)
Young, B. A. (A)

Clarksville (HUN-N-3)
Wilson, C. L. (M)

Cordova (HUN-M-3)
Downs, H. I. (M)

Dayton (ATL-3)
Warner, C. J. (A)

Donelson (HUN-N-3)
Burton, R. B. (A)
Green, N. (M)
Pearsall, S. H. (M)

Erwin (ATL-3)
Reeves, H. L., Jr. (A)

Fayetteville (HUN-3)
Thompson, A. W. (M)

Fountain City (ATL-3)
Oakes, L. C. (A)

Franklin (HUN-N-3)
Montgomery, W. C. (M)
Ragsdale, S. P. (A)

Greeneville (ATL-3)
Brown, J. H. (A)
Furman, O. G. (M)
Jimenez, G. L. (M)

Kingsport (ATL-3)
Devaney, R. G. (M)
Henry, J. W. (SM)
Phillips, T. (M)
Rigg, R. W. (M)

Kingston (ATL-3)
Hanauer, S. H. (M)

Knoxville (ATL-3)
Affel, R. G. (M)
Bradshaw, R. L. (M)
Devine, J. M. (A)
Eckel, J. R., Jr. (A)
Evans, R. C. (A)
Horton, J. R. (M)
Peifer, W. A. (A)
Pierce, J. F. (SM)
Schede, R. W. (M)
Snyder, J. F. (A)
Stanbery, J. F. (SM)
Tillman, J. D., Jr. (M)

Lake City (ATL-3)
Byerly, J. W. (A)

Lawrenceburg (HUN-3)
Beckham, R. H. (M)

Manchester (HUN-3)
Chapek, H. T. (M)
Eddings, R. A. (M)
Kingery, M. K. (M)
McAdams, E. E., Jr. (A)

Maryville (ATL-3)
Detweiler, D. C. (A)
McClelland, F. M. (M)

Memphis (HUN-M-3)
Babb, E. L. (A)
Boyd, I. H. (M)
Branyan, C. A. (A)
Brasch, W. E. (A)
Browning, J. W. (M)
Busler, L. F., Jr. (A)
Christian, O. R. (M)
Ecoff, F. A., Jr. (A)
Fitzgerald, G. M., Jr. (A)
Greene, M. A. (A)
Haas, I. J. (M)
Harbison, R. T. (A)
Harris, W. L., Jr. (M)
Holbrook, T. C., Jr. (A)
Horton, H. C. (M)
King, R. E. (A)
Logan, E. W., Jr. (A)
Marsh, W. (M)
McLin, J. T. (A)
Stewart, E. B. (A)
Viser, J. H., Jr. (A)
Walker, J. A. (M)

Millington (HUN-M-3)
McKnight, D. R. (A)
Shoemaker, F. J. (M)

Nashville (HUN-N-3)
Arnold, T. G., Jr. (M)
Binns, F. D. (M)
Branch, B. S. (M)
Bright, F. W. (M)
Burch, C. E. (A)
Campbell, J. S. (M)
Daddario, A. S. (M)
DeWitt, J. H., Jr. (F)
Dicker, P. E. (M)
Dorris, C. G. (M)
Duke, C. R. (M)
Edling, E. A. (A)
Ewing, A., Jr. (M)
Fowler, W. L. (M)
Gentry, R. O. (A)
Genung, N. W. (M)
Greenhouse, H. M. (M)
Hobbs, R. V. (M)
Holladay, A. M. (M)
Hucaby, R. L. (M)
Irby, H. C. (M)
Johnson, L. E., Jr. (M)
Keene, W. E. (M)
Kincaid, W. B., Jr. (M)
King, J. L. (A)
Madden, K. W. (M)
Montgomery, L. H., Jr. (SM)
Rawls, L. E. (M)
Reynolds, G. A. (M)
Schumann, F. (SM)
Shelton, A. C. (SM)
Shultz, O. L. (M)
Stifler, W. W., Jr. (SM)
Sundeen, O. H. (M)
Sutton, A. T. (M)
Thompson, B. G. (A)
Tink, E. M. (M)
Zeigler, R. H. (M)

Oak Ridge (ATL-3)
Anderson, J. L. (A)
Banta, H. E. (SM)
Fairstein, E. (SM)
Fort, W. G. S. (M)
Green, F. P. (A)
Groothuis, S. E. (A)
Henry, K. M., Jr. (A)
Hirsch, C. B., Jr. (M)
Holt, G. A. (M)
Judiah, J. P. (M)
Knowles, D. J. (SM)
Manning, F. W. (M)
Marks, J. E. (M)
Miller, J. W. (M)
Pigg, J. C. (M)
Porter, F. M. (M)
Redford, J. L. (A)
Ritter, R. C. (A)
Shipley, E. D. (M)
Southern, A. L. (M)
Stone, R. S. (A)
Van Sickle, G., Jr. (A)
Worsham, R. E. (A)
Zachry, D. S., Jr. (M)
Ziegler, N. F. (A)

Powell (ATL-3)
Allen, J. W., Jr. (M)

Sparta (ATL-3)
Haston, C. W. (M)

Tullahoma (HUN-3)
Cortner, A. H. (M)
Davis, B. M. (M)
Giltinan, T. L. (A)
Gray, W. V. (M)
Henderson, R. P. (M)
Holmes, W. R. (M)
Johnson, M. D. (M)
Kaisner, R. W. (SM)
Pope, R. H. (M)

Union City (HUN-M-3)
Smith, W. D. (A)

TEXAS

Abilene (FW-6)
Alford, A. R. (A)
Bottom, V. E. (M)
Henley, R. D. (A)
Walton, W. T. (M)

Amarillo (LUB-6)
Boatwright, F. V. (M)
Bowden, A. J. (A)
Dearness, J. L. (A)
Ditto, J. C. (M)
Farmer, P. E. (M)
Greene, C. E. (M)
Harris, H. W. (M)
Krasin, E. (M)

Martin, J. L. (M)
Palsey, E. W. (A)
Torrey, W. H. (A)
Williams, A. M. (M)

Angleton (HOU-6)
Kothman, E. B. (A)

Arlington (FW-6)
Askew, W. J., Jr. (M)
Baker, M. F. (M)
Bentley, R. L., Jr. (M)
Briesenick, C. R. (A)
Bushart, G. J., Jr. (M)
Calvin, C. C., Jr. (A)
Cashat, S. D. (M)
Clanton, J. D., Jr. (A)
Drennan, J. B. (A)
Dunaway, R. M. (M)
Fischer, J. N. (M)
Forester, J. R. (A)
Hegi, J. G. (M)
Hodge, R. B., Jr. (M)
Hoelke, W. D. (M)
Howard, J. E. (M)
Hutcheson, G. C. (SM)
Jordan, C. F. (M)
Lanier, R. E. (M)
Linehan, R. J. (M)
Lowry, L. W. (M)
Lundberg, C. F. (M)
Martin, R. E. (M)
Raymond, W. D. (M)
Muery, R. W. (M)
Prior, R. R. (M)
Reynolds, G. N. (M)
Sandlin, G. L. (M)
Terbush, H. W. (SM)
Thayer, E. A. (M)
Zombolas, G. P. (A)

Austin (SA-6)
Adams, R. M. (M)
Anderson, C. D. (A)
Armstrong, J. E. (M)
Aronson, M. J. (A)
Baltzer, O. J. (SM)
Barclay, J. N. (SM)
Bell, R. L. (M)
Block, E. H. (M)
Bostick, F. X. (M)
Britt, C. O. (M)
Broman, W. N. (A)
Clardy, D. E. (M)
Darmento, J. (M)
Davis, A. (SM)
Davis, D. K. (M)
Deam, A. P. (M)
Dolan, B. A. (A)
Duesterhoeft, W. C., Jr. (SM)
Dyer, J. A. (M)
Garner, W., Jr. (A)
Hackett, R. E. (M)
Hartwig, W. H. (SM)
Hixson, E. L. (SM)
Hopkins, G. H., Jr. (M)
Huggins, L. L. (M)
Jackson, A. E. (A)
Kreuz, L. B. (SM)
La Coste, L. J. B. (A)
Lagrone, A. H. (SM)
Lane, R. N. (SM)
Lauderdale, D. M. (M)
Law, P. F. (M)
Martin, P. E. (M)
McKinney, C. M. (SM)
McQuown, A. N., Jr. (M)
Morrow, R. E. (M)
Opiela, A. D., Jr. (A)
Owen, T. E. (M)
Reinhard, E. A. (M)
Ripperger, E. A. (A)
Rummel, E. C. (M)
Saadeh, D. (M)
Simpson, J. D. (M)
Smith, H. W. (SM)
Smith, S. E. (M)
Stocks, D. R., Jr. (A)
Stone, C. S. (M)
Straiton, A. W. (F)
Thorn, D. C. (M)
Tolbert, C. W. (SM)
Wallace, R. H. (M)
Wallis, W. R. (A)
White, G. E. (SM)
Wright, J. R. (M)
Wukasch, E. O. (M)
Yarbrough, K. A. (A)

Ballinger (FW-6)
Kelley, W. C. (M)

Bastrop (SA-6)
Douglas, J. H. (A)

Baytown (HOU-6)
Jordan, R. W. (A)
Suttle, A. D., Jr. (SM)

Beaumont (B-PA-6)
Andrews, F. E. (A)
Ballard, B. J. (A)
Bordeman, M. H. (A)
Burgess, C. H. (M)
Bush, C. R. (M)
Cherry, L. B. (SM)
Coburn, E. D. (M)
Crum, F. M. (SM)
Cunningham, R. E. (M)
Davis, A. Q., Jr. (M)
Davis, V. E. (A)
Eckles, W. W., Jr. (M)
Ferguson, J. D. (A)
Hughes, B. F. (M)
Laughlin, C. E. (M)
Lawrence, T. B. (M)
Montague, L. E. (A)
Morgan, J. G. (M)
Musick, A. L., Jr. (M)
Normand, A. J. (A)
Ott, L. G. (A)
Pearson, E. A. (A)
Petkovsek, J., Jr. (SM)
Powell, J. W. (A)
Shane, Z. G. (A)
Smith, H. K. (A)
Stockard, L. C. (M)
Straughn, W. L., Sr. (M)
Walker, C. B. (A)
Whitmeyer, L. J., Jr. (A)
Wilder, E. H. (M)

Beeville (SA-6)
Godfrey, B. L., Jr. (A)

Bellaire (HOU-6)
Arbogast, J. L. (A)
Badger, A. S. (SM)
Ball, D. F. (SM)
Barnette, L. A. M. (SM)
Borden, R. R. (A)
Bowers, W. E. (A)
Brook, A. H. (M)
Cowles, L. G. (SM)
Crook, T. N. (M)
Cunningham, A. B. (M)
England, L. T. (A)
Fleming, L. (SM)
Gilmore, R. P. (M)
Granberry, H. W. (M)
Herzog, G. (F)
Hicks, F. M. (A)
Hoover, M. C. (A)
Lee, B. D. (M)
Loofbourrow, R. J. (SM)
Mann, R. W. (SM)
Mazzagatti, R. P. (A)
Nance, B. J. (M)
Owen, W. W. (M)
Peetz, G. E., Jr. (M)
Russum, P. E. (M)
Schafer, E. L. (A)
Stafford, J. A. (M)
Stelzer, R. B. (SM)
Tickell, E. B. (M)
Waldie, A. D. (M)
Wheeler, H. T. (M)

Benbrook (FW-6)
Hall, T. B., Jr. (M)
Long, L. M. (M)
Looney, G. R. (M)
Maes, W. J. (M)
Mitchell, D. B. (M)
Shafer, L. (M)

Big Lake (SA-6)
Segars, L. K. (M)

Blooming Grove (DAL-6)
Crocker, J. A. (M)

Borger (LUB-6)
McGrath, H. E. (A)

Breckenridge (FW-6)
McBeath, H. M., Jr. (A)

Brownfield (LUB-6)
Spear, R. B. (M)

Brownsville (SA-6)
Brand, J. J. (M)
Maring, K. T. (M)
Martin, G., Jr. (A)

Bryan (HOU-6)
Druce, A. J. (M)
Fridel, G. E. (M)
Light, J. E., Jr. (M)
Sosolik, F. J. (A)
Trevillian, R. A. (A)

Canyon (LUB-6)
Thompson, C. E. (M)

Castroville (SA-6)
Burges, E. G. (M)

Center (B-PA-6)
Riley, H. E. (A)

China (B-PA-6)
Seaberg, I. (A)

Cibolo (SA-6)
Seibel, H. (M)

Cleburne (FW-6)
Gardner, A. H. (SM)
Graham, H. L. (A)
Ryter, R. L. (SM)

College Station (HOU-6)
Dillingham, H. C. (SM)
Hallmark, G. D. (M)
Jonas, L. K. (M)
Kilmer, R. E. (M)
Navarro, S. O. (M)
Osborn, W. F. (M)
Roots, E. N., Jr. (M)

Commerce (DAL-6)
Sparkman, W. A., Jr. (M)

Corpus Christi (SA-6)
Dunn, E. C. (A)
Grizzel, R. W., Jr. (M)
Haskell, H. B. (M)
Lockhart, H. B. (A)
McHugh, E. L. (M)
Moss, K. S., Jr. (M)
Reid, J. F. (M)
Roberts, J. D. (A)
Segrest, B. C. (M)
Taylor, P. (M)
Zazvorka, J., Jr. (SM)

Corsicana (DAL-6)
Jackson, M. L. (M)

Cuero (SA-6)
Murray, J. W. (M)

Dallas (DAL-6)
Adcock, W. A. (SM)
Albano, J. (SM)
Alessi, V. J. (M)
Alley, P. D. (M)
Allison, G. D. (M)
Anderson, J. (SM)
Ankele, E. T., Jr. (M)
Ariail, H. E., Jr. (M)
Armstrong, F. L. (M)
Arnold, D. C. (SM)
Ashley, C. E. (M)
Aymond, E. F., Jr. (A)
Bailey, R. W. (M)
Bailey, W. R. (M)
Baker, H. C. (M)
Bandy, G. C. (A)
Barnett, M. L. (M)
Barr, W. W. (A)
Bebak, V. F. (A)
Bechtel, B. (A)
Beckhoff, G. (A)
Becklund, O. A. (SM)
Bentley, E. M. (A)
Biard, J. R. (M)
Bickel, R. L. (M)
Bigger, W. H. (SM)
Blackshear, J. W. (A)
Bonin, E. L. (M)
Bowling, W. P. (M)
Bowman, W. W. (M)
Brachman, M. K. (SM)
Branham, D. W. (M)
Branson, E. C. (M)
Branum, M. C. (A)
Brawner, C. A., Jr. (SM)
Brister, B. (A)
Brock, F. A. (M)
Broodo, A. (M)
Brower, W. C. (M)
Brown, K. C. (M)
Brown, L. E. (M)
Brown, M. H. (SM)
Brown, R. A. (A)
Brown, R. L., Jr. (SM)
Bruland, R. V. (M)
Buchanan, D. L. (M)
Buchmeyer, H. W. (SM)
Buckner, R. P. (M)
Bullock, M. W. (SM)
Bunday, D. L. (SM)
Burdine, B. R. (M)
Burg, K. E. (M)
Bygard, R. S. (M)
Call, P. D. (M)
Campbell, J. R. (M)
Carlton, L. A., Jr. (M)
Carpenter, J. R. (A)
Carr, W. B. (A)
Carroll, J. M. (M)
Carter, C. J. (M)
Carter, N. B. (A)
Carter, T. F. (M)
Cash, F. L. (SM)
Chandler, J., Jr. (M)
Chandler, N. M. (M)
Chapin, R. C. (M)
Chapman, A. B. (M)
Chenault, H. P. (A)
Childress, C. B. (M)
Clark, W. E. (M)
Coats, R. P. (A)
Collins, F. (SM)
Congdon, R. L. (SM)
Cooke, H. F. (M)
Cooper, J. W. (SM)
Corbin, C. D. (M)
Cornelison, B. (SM)
Coulon, N., Jr. (M)
Coursey, J. R. (M)
Crandell, C. F. (M)
Cullum, A. E., Jr. (F)
Daniell, C. M. (SM)
Davis, C. F., Jr. (M)
Davis, D. A. (M)
Day, W. J. (M)
Deaderick, G. E. (M)
Dean, J. T. (M)
Dew, W. M., Jr. (M)
De Weese, C. R. (M)
Dimick, C. V. (M)
Dodd, C. L. (SM)
Doherty, J. E. (M)
Dowell, K. P. (M)
Downes, C. L. (A)
Dubose, G. P. (M)
Dunlap, R. H. (M)
Dyer, F. C. (M)
Earhart, C. E. (SM)
Ebensberger, A. C. (SM)
Edwards, T. S. (M)
Eikenburg, R. B. (M)
Elkins, C. C., Jr. (M)
Elmore, C. M., Jr. (M)
Erringer, O. W., Jr. (M)
Evans, A. D. (SM)
Farmer, C. R., Jr. (A)
Farrell, T. A., Jr. (M)
Fenner, R. G. (M)
Fewer, D. R. (M)
Finley, C. G. (M)
Fischer, D. G. (M)
Fisher, L. M. (A)
Fisk, W. J. (M)
Flath, E. H., Jr. (M)
Flynn, J. G., Jr. (SM)
Flynn, J. G., III (A)
Fontenote, W. J. (M)
Forsyth, P. G. (SM)
Fox, C. H. (M)
Frauman, C. I. (M)
Geis, A. J. (M)
Geisel, F. J. (SM)
Geissinger, E. L. (A)
George, R. A. (M)
Germain, J. N. (M)
Gerrard, J. A. F. (SM)
Gilbreath, B. F. (M)
Gilder, E. E. (A)
Gill, R. M. (M)
Gluck, L. D. (A)
Godbey, J. K. (SM)
Goldstein, M. (M)
Gragert, W. J. (M)
Granberry, D. S. (SM)
Graves, W. W. (M)
Green, G. F., Jr. (M)
Green, J. A. (SM)
Greenberg, L. H. (M)
Griffin, E. H. (M)
Griffin, R. C. (M)
Gudzin, M. G. (M)
Haahn, F. J. (SM)
Haefele, D. M. (M)
Haggerty, P. E. (F)
Hall, D. B. (A)
Hall, J. R. (SM)
Halliford, B. R. (M)
Harmon, F. I. (M)
Harris, D. P. (M)
Harrison, F. (SM)
Hasty, J. D. E. (SM)
Hatcher, J. L. (A)
Head, C. D., III (M)
Headington, N. L. (M)
Hedeman, W. R., Jr. (SM)
Heizer, K. W. (M)
Henrici, C. R. (SM)
Hensley, M. C. (A)
Herndon, R. A. (M)
Hewlett, T. N. (M)
Higginbotham, H. L. (M)
Himel, C. B. (M)
Hisamoto, R. M. (M)
Holmquest, C. A. (M)
Holt, L. D. (M)
Hood, B. J. (A)
Hooker, B. C. (A)
Horak, F. A. (SM)
Horne, K. M., Jr. (A)
Howard, G. M. (SM)
Howes, R. B., Jr. (M)
Hull, J. E. (M)
Humke, F. O., Jr. (M)
Humphrey, B. E. (M)
Hunt, J. T. (A)
Hutchinson, N. D. (M)
Hutson, R. N. (M)
Hytin, T. M. (A)
Ince, N. S. (A)
Ingram, J. H. (M)
Irwin, C. B., Jr. (M)
Jackson, R. W. (SM)
Jenkins, E. A. (M)
Jernigan, E. L. (A)
Joel, H. C. (M)
Johns, J. H. (M)
Johnson, D. L. (M)
Johnson, G. D. (M)
Johnston, J. (A)
Jones, R. W. (M)
Jones, T. L. (SM)
Joyce, W. F. (SM)
Jurek, W. M. (SM)
Kamena, J. G. (M)
Kantenberger, R. F., (A)
Kay, L. (A)
Kearby, L. I. (M)
Kearley, R. I., Jr. (M)
Kearse, G. P. (SM)
Keener, R. F. (M)
Keiser, L. E. (M)
Kelly, C. P. (M)
Kelly, J. J. (A)
Kelsay, W. D. (M)
Kennedy, F. H., Jr. (SM)
Kettler, C. L. (M)
Kettler, E. W., Jr. (M)
Keyser, A. R., Jr. (M)
Kitchens, L. G. (M)
Knight, J. H. (A)
Koeijmans, G. D. (A)
Kost, C. R. (M)
Kuehne, W. (SM)
Kunde, W. W., Jr. (M)
Lambert, C. C. (M)
Laue, L. C. (A)
Lawrence, L. J. (A)
Ledford, R. E., Jr. (A)
Lee, C-C. (M)
Leedom, J. N. (M)
Leinfelder, E. J. (A)
Lemson, J. (M)
Lewis, M. T. (M)
Lincoln, C. F., Jr. (A)
Lineback, J. T. (A)
Linker, C. L. (M)
Lipscomb, E. W. (SM)
List, B. H. (M)
Little, W. A. (M)
Londenberg, E. F., Jr. (A)
Loper, G. B. (M)
Lopooser, T. L. (SM)
Lorae, J. (SM)
Lowe, H. N. (A)
Lowry, J. H., Jr. (SM)
Lucas, C. H. (M)
Lupfer, W. C. (A)
Lynne, S. (M)
MacDonald, J. R. (SM)
Mace, J. W. (M)
Mann, R. M. (M)
Martin, D. O. (SM)
Martin, E. M., Jr. (A)
Martin-Vegue, C. A. (M)
Mason, A. E., Jr. (A)
Mathis, J. B. (SM)
Mathis, J. D. (SM)
Matzen, W. T. (M)
Maxwell, J. W. (A)
Maxwell, K. D. (M)
McAnally, D. G. (M)
McCasland, R. S. (M)
McClellan, J. C., Jr. (A)
McClure, R. M. (M)
McConnell, D. K. (M)
McCord, A. R. (M)
McDermott, E. (M)
McDonald, E. D., Jr. (A)
McDonald, J. E. (A)
McDonald, M. (A)
McKinney, R. C. (M)
McMillin, J. M., Jr. (A)
McMullin, T. J. (M)
McMurray, R. F. (M)
McNeely, J. S. (SM)
Meiners, D. E. (M)
Meinholdt, D. W. (A)
Melancon, N. J. (A)
Meredith, M. K. (M)
Metcalf, D. (SM)
Michaelis, L. P. (M)
Middleton, M., Jr. (M)
Miller, C. E. (M)
Miller, N. D. (SM)
Mills, R. L. (M)
Minton, J. A., Jr. (A)
Mitchell, H. L. (M)
Mitchell, W. R. (M)
Moffitt, J. F. (M)
Mollenhauer, H. H. (A)
Monroe, T. C., Jr. (M)
Moore, J. E., Jr. (M)
Moore, J. G. (A)
Morton, H. W. (M)
Moseley, J. S., Jr. (A)
Moseley, T. B. (SM)
Moss, H. (SM)
Moxley, W. C., Jr. (A)
Mut, S. C. (M)
Naab, P. J. (A)
Nastasiak, J. J. (M)
Neltzel, E. B. (M)
Nelson, G. G. (A)
Newell, B. J. (A)
Nichols, R. A. (A)
Nilson, O. J. (A)
Nipper, J. T. (M)
Norvell, E. W. (A)
Norvell, K. A. (M)
Ocnaschek, F. J. (SM)
Ohlen, G. M. (A)
Olson, R. W. (SM)
Oster, R. E. (M)
Owen, J. C. (M)
Owens, H. L. (SM)
Packard, D. (A)
Palmer, W. D. (M)
Papoulias, V. P. (M)
Paslay, L. C. (M)
Patrick, L. B. (M)
Pelt, T. E. (M)
Penisten, G. E. (M)
Penn, W. D. (SM)
Peterson, D. A. (SM)
Phillips, J. L., Jr. (M)
Pittman, P. D., Jr. (M)
Pray, G. E. (SM)
Prickett, T., Jr. (SM)
Pritchard, R. L. (SM)
Pruvenok, A. J., Jr. (M)
Puckett, R. D. (A)
Puett, J. W. F. (M)
Quimby, K. S., Jr. (A)
Radcliffe, J. C. (SM)
Reed, B. S. (M)
Reese, J. R. (M)
Reese, J. R. (M)
Renegar, D. D. (M)
Renner, D. S. (M)
Retzlaff, D. (M)
Rice, J. A. (M)
Riley, J. H. (A)
Riser, H. N. (M)
Roberts, E. L. (M)
Roberts, J. O. (A)
Robinson, G. C. (M)
Robinson, R. C. (M)
Rogers, H. H., Jr. (M)
Rogers, T. E. (M)
Romans, W. E. (M)
Rosentreter, E. W. (SM)
Rountree, J. G. (SM)
Runyan, W. R. (M)
Rutherford, C. R. (M)
Samuelson, D. S. (M)
Sarrafian, G. P. (A)
Sartor, J. O., Jr. (M)
Scammel, B. C. (M)
Scanlon, P. J. (M)
Schafer, N. B. (A)
Schultz, R. H. (A)
Schwalm, C. M. (A)
Seay, C. F., Jr. (SM)
Sebesta, J. R. (M)
Severin, J. A. (M)
Sharpe, T. W. (M)
Shepherd, M., Jr. (SM)
Sherman, M. R. (M)
Shook, E. M. (M)
Shuffler, R. M. (SM)
Simmons, A. C., Jr. (M)
Simonds, F. W. (M)
Sloan, B. D. (A)
Smallwood, J. L. (M)
Smith, C. E. (A)
Smith, D. L. (M)
Smith, F. G. (A)
Smith, F. G., Jr. (SM)
Smith, G. A., Jr. (M)
Smith, H. J. (SM)
Smith, J. E. (A)
Smith, J. H. (M)
Smith, T. D. (M)
Smoot, R. L., Jr. (A)
Snipes, R. W. (A)
Songaylio, A., Jr. (M)
Sorkin, S. A. (M)
Spaulding, G. B. (M)
Spencer, L. P. (A)
Spieker, L. J. (M)
Sullivan, O. J. (A)
Stanford, J. A. (M)
Sterner, E. L. (A)
Stewart, R. F. (M)
Stewart, W. E. (M)
Stinson, L. W. (A)
Storey, B. (M)
Stover, J. S. (M)
Strom, L. D. (M)
Stroup, R. M., Jr. (M)
Sullivan, W. A., Jr. (M)
Sullivent, E. E., Jr. (M)
Summers, G. C. (M)
Tatum, F. W. (SM)
Taylor, J. H. (M)
Teal, G. K. (F)
Teasdale, A. R., Jr. (SM)
Teddlie, E. A. (A)
Thomas, O. E. (M)
Thomas, T. C. (M)
Thompson, J. H., Jr. (SM)
Thompson, W. L. (M)
Thomson, J. R. (M)
Thornhill, J. W. (SM)
Tittle, C. W. (SM)
Trantham, W. E. (M)
Trent, R. L. (SM)
Trewitt, M. B. (M)
Tucker, C. W. (M)
Tucker, D. J. (SM)
Tullius, R. F. (M)
Urschel, A. K. (A)
Vanderpool, C. L. (A)
Varga, J. E. (A)

Vilbig, J. L., Jr. (SM)
Wadel, L. B. (SM)
Walte, H. M. (A)
Walker, M. C. (M)
Wallace, P. P. (M)
Wallace, R. M. (M)
Wallis, T. F., Jr. (A)
Walters, C. C. (M)
Wanja, L. F. (M)
Waters, W. F. (M)
Watkins, V. D. (M)
Watson, C. D., Jr. (A)
Watson, J. M. (A)
Waugh, J. H., Jr. (M)
Weaver, T. H. (M)
Webster, R. R. (SM)
Wedel, E. L. (A)
Weedfall, W. W. (A)
Weeks, R. M. (M)
Weinhouse, N. P. (A)
Weinreich, G. F., Jr. (A)
Welch, A. B. (M)
Welch, O. R. (A)
Weldon, J. F. (M)
Weldon, J. M. (M)
Weldon, J. O. (F)
Wenger, W. D. (SM)
West, H. B., Jr. (M)
Wetterau, L. C., Jr. (M)
White, C. A., Jr. (M)
White, G. W., Jr. (M)
Whitson, D. R. (M)
Wilhelm, E. S. (SM)
Wilkinson, J. D. (M)
Willard, R. S., Jr. (M)
Williams, C. S. (SM)
Willis, G. D. (M)
Wiman, L. (M)
Wissemann, H. J. (SM)
Witty, W. M. (SM)
Wolk, I. F. (A)
Wood, H. A. (M)
Woods, R. B. (SM)
Woolfolk, R. L. (M)
Wright, T. A. (M)
Wyatt, A. E. (M)
Yancey, J. D., Jr. (A)
Yeagley, F. W. (SM)
Zemanek, J., Jr. (M)
Ziemer, D. R. (M)
Zimmerman, M. (M)
Zuefeldt, R. D. (M)

De Kalb (SHR-6)
Harkey, T. J. (A)

Del Rio (SA-6)
O'Brien, B. B. (M)

Denison (DAL-6)
Knight, J. D. (A)
Patti, V. C. (A)

Dickinson (HOU-6)
Thomason, E. M. (A)

El Campo (HOU-6)
Copeland, T. J. (M)

El Paso (EP-6)
Alexander, W. R. (A)
Anders, J. V. (A)
Anderson, K. E. (A)
Aurin, R. N. (M)
Badt, M. B., Jr. (M)
Baird, J. K. (M)
Barnes, T. G. (SM)
Barto, R. C. (M)
Bayer, J. A. (A)
Beymer, E. H. (M)
Bigelow, G. F. (M)
Brereton, T. B. (A)
Brown, C. W., Jr. (A)
Brown, J. S. (M)
Cadman, A. O. (M)
Clark, H. D. (M)
Clatfelter, A. C. (SM)
Clelland, L. M. (M)
Crosson, J. W. (M)
De Busk, W. H. (A)
Dryden, E. R., Jr. (A)
Dukes, J. D. (A)
Evans, L. L. (SM)
Fairweather, D. R. (M)
Fischer, D. W., Jr. (A)
Fowler, A. F. (A)
Fowler, J. D. (A)
French, C. E. (M)
French, R. L. (M)
Fulkerson, T. E. (M)
Galentin, L. J. (M)
Gavaldon, A. L. (A)
Giorgi, D. A. (A)
Gourley, R. T. (A)
Hardison, J. M. (M)
Harrison, C. E. (M)
Holcombe, W. H., Jr. (M)
Hurd, C. D. (M)
Ingerson, W. E. (M)
Jones, R. T. (A)
Jones, T. R., Jr. (M)
Keith, R. E. (M)
Kevorkian, G. (M)
Kitchen, F. J. (M)
Kotovsky, S. K. (M)
Krivanich, M. A. (M)
Kuberski, O. C. (M)
La Fon, H. A., II (A)
Lane, L. O., Jr. (M)
Lehman, L. E. (M)
Lentz, W. H. (M)
Licon, O. G. (A)
Lubke, G. W. (A)
Lutener, O. C. (M)
Mager, R. F. (M)
Mangiapane, R. (M)
Marcum, W. F. (M)
Margulies, I. (M)
Marshall, S. V. (M)
Maury, J. H. (M)
McCollum, A. J. (A)
McCreary, J. T. (A)
McGill, W. T. (M)
McGraw, J. E. (SM)
McKennon, L. W. (A)
Miller, W. E., Jr. (SM)
Mitchell, R. D. (A)
Morgan, W. R. (A)
Nicolau, N. G. (M)
Nielsen, L. M. (M)
Osborn, H. H. (A)
Provenzano, J. M. (A)
Quotidomine, F. (A)
Reeves, T. M. (M)
Rojas, A. M., (M)
Rusche, C. L. H. (A)
Santa Ana, L. T. (A)
Sarge, A. E. (A)
Saxe, H. A. (A)
Shiplett, K. E. (M)
Smarr, G. D. (A)
Smith, K. W. (M)
Stewart, J. C. (M)
Stuart, J. F. (SM)
Sullivan, J. D. (M)
Talbott, E. P. (SM)
Tisdale, W. G. (A)
Toland, W. A. (M)
Walker, P. G., III (M)
Waller, B. F. (SM)
Walton, K. J. (SM)
Wasser, N. (M)
Watkins, R. I. (M)
White, W. L. (A)
Wilder, G. E. (M)

Floydada (LUB-6)
Storch, H. R. (A)

Fort Bliss (EP-6)
Dillon, J. R. (SM)
Nercessian, Y. T. (M)
Vaughn, J. E. (M)
Williams, L. H. (A)

Fort Davis (EP-6)
Thompson, A. R. (M)

Fort Hood (FW-6)
Simonds, F. M., Jr. (A)
Wood, P. W. (M)

Fort Worth (FW-6)
Abshier, D. G. (M)
Absolom, K. H. (A)
Allen, C. A., Jr. (M)
Anderson, R. D. (M)
Athans, M. (A)
Athans, M. (A)
Baker, R. O. (M)
Barney, J. M. (SM)
Barr, E. W. (A)
Baswell, A. C., Jr. (M)
Bateman, J. W. (M)
Baxley, W. E. (A)
Bean, R. C. (M)
Beckman, W. R. (M)
Blum, S. (SM)
Bohannan, B. J. (M)
Bordelon, C. J. (A)
Bosquez, R. D., Jr. (M)
Bourland, H. M. (M)
Brock, W. P. (M)
Bronson, R. D. (M)
Brooker, E. G., Jr. (M)
Brooks, J. L. (M)
Brothers, J. E. (A)
Brown, M. A. (M)
Brint, M. F. (M)
Bryan, K. W. (M)
Bunch, B. D. (A)
Burkhalter, W. R. M. (M)
Cantrell, W. E. (M)
Carmouche, C. L. (M)
Carr, P. G. (M)
Chandler, S. B. (A)
Charvoz, P. L. (M)
Christian, H. C. (M)
Clark, J. E., Jr. (M)
Clark, L. T. (A)
Clements, C. W. (SM)
Clutterham, D. R. (M)
Coffman, R. R. (M)
Collup, D. E. (SM)
Cook, A. B. (M)
Cotnam, J. L. (M)
Cox, E. K. (M)
Crittenden, L., Jr. (M)
Crotty, J. V. (SM)
Crumb, S. F. (SM)
Cyr, R. P. (M)
Daggett, D. H. (M)
Danner, O. G. (M)
Darwin, A. J. (M)
Davis, H. W. (M)
Deakins, G. E. (SM)
Deering, C. S. (M)
Delaney, J. S. (M)
Dilworth, G. H. (A)
Dinsmore, J. T. (A)
Dodd, J. M. (M)
Egan, D. G. (SM)
Elliott, J. E. (M)
Ellis, H. G. (M)
Errante, J. J. (M)
Esquible, G. B. (A)
Evans, W. L. (M)
Falk, B. (A)
Felice, J. J. (A)
Fetterolf, W. F. (A)
Fink, W. L. (M)
Fisher, M. C. (A)
Fleming, D. R. (M)
Fletcher, C. H. (M)
Fowler, J. (M)
Frazier, J. B. (A)
Funderburk, H. E. (SM)
Gandy, W. W. (SM)
Gaston, C. W. (M)
Gerlach, P. D. (M)
Gilmartin, T. (SM)
Godbey, W. C. (A)
Gooldy, E. H., Jr. (A)
Gordon, M. J. (M)
Green, G. M. (M)
Green, P. C. (SM)
Greenlee, D. R. (M)
Hair, U. R. (A)
Hann, G. W. (M)
Hardin, B. A. (M)
Harman, D. G. (SM)
Hartel, B. (M)
Hawkins, W. K. (A)
Hawthorne, M. M. (M)
Hay, G. W. (SM)
Hearne, S. M. (M)
Hebert, J. O., Jr. (M)
Heizer, L. E. (A)
Hermann, F. C. (A)
Hickman, D. A. (M)
Hicks, R. D. (M)
Hill, D. L. (A)
Hines, R. L. (A)
Hites, W. H. (M)
Hix, E. W. (M)
Hogue, W. T. (M)
Holt, J. M. (M)
Horn, C. E. (A)
Hurst, E. (A)
Jackson, G. L. (A)
James, B. O. (A)
Jiles, C. W. (M)
Jones, D. M. (M)
Jones, L. R. (A)
Jordan, W. E., Jr. (M)
Kaspar, E. J. (M)
Kelly, B. A. (M)
Kent, A. H., Jr. (A)
Keplinger, M. (M)
Keppler, C., III (M)
Kidd, L. H. (SM)
King, J. J. (A)
Kinyon, W. E. (M)
Knight, D. G. (M)
Kosti, J. I. (SM)
Kroh, H. C. (A)
Lairmore, W. J. (M)
Langston, J. W. (M)
Lanier, J. (M)
Lattier, E. E., Jr. (M)
Lorenz, W. F. (A)
Lowrie, G. M. (A)
Lyles, J. F. (M)
Macune, C. W. (M)
Mallory, V. L. (SM)
Martin, W. E. (M)
Mayfield, S. A. (M)
McClanahan, J. M. (M)
McDuff, B. G. (A)
McKenzie, J. R., Jr. (M)
McWhorter, L. C. (M)
Meeker, J. I. (M)
Mehrwin, R. L. (A)
Meredith, K. M., Jr. (M)
Miglicco, P. S. (M)
Moore, N. E. (M)
Moore, W. F. (A)
Morgan, R. L. (M)
Morgan-Voyce, A. M. (SM)
Morton, L. W. (M)
Murdock, J. B., Jr. (M)
Musil, V. P. (M)
Neher, H. T. (SM)
Neshyba, S. J. (M)
Neudorfer, W. L. (M)
Norman, T. J., Jr. (M)
Norton, C. M. (M)
Nunley, L. J. (M)
Pace, R. L. (M)
Palmer, J. E. (VA)
Perry, E. R. (M)
Peterson, W. E. (M)
Pickens, F. T., III (M)
Polimerou, L. G. (A)
Porter, F. K. (M)
Posey, K. C. (M)
Quirino, F. (SM)
Rankin, L. T. (A)
Ray, R. E. (M)
Ray, W. B., Jr. (M)
Redman, P. J. (A)
Riggs, H. K. (M)
Roberts, P. L. (A)
Robertson, D. R. (M)
Robertson, G. H. (M)
Robertson, R. E. (SM)
Robinson, D. A. (M)
Robinson, T. P. (A)
Roderick, R. (SM)
Ross, C. C. (VA)
Roy, F. J. (M)
Rushing, G. F. (M)
Salis, A. E. (SM)
Schwandt, W. (A)
Shepherd, M. F. (M)
Shipman, H. F. (A)
Shoptaugh, J. R., Jr. (A)
Simmons, D. J. (M)
Sissom, A. W. (SM)
Sivernell, R. B. (A)
Slack, J. R. (M)
Slagle, G. M., Jr. (A)
Smith, L. B. (M)
Smith, R. O. (A)
Snead, J. L., Jr. (M)
Snethen, J. A. (A)
Soniat, E. (A)
Spears, M. F. (M)
Spradlin, J. D. (M)
Stanford, E. G. (M)
Stewart, G. W. (M)
Stinson, R. C., Sr. (SM)
Stoker, C. J. (M)
Strack, L. W., Jr. (M)
Straiton, J. W. (SM)
Stribling, J. L., Jr. (M)
Sumner, G. C. (SM)
Tedeschi, A. (A)
Theriot, L. J. (SM)
Thomasson, W. D. (M)
Thopson, A. C. (A)
Tighe, M. J. (A)
Tinkler, D. M. (M)
Travis, C. M. (SM)
Trimm, J. H. (M)
Tucker, B. J. (M)
Vancil, B. I. (M)
Van Hoozer, C. H. (M)
Volder, J. E. (A)
Wallis, C. L. (A)
Ward, E. B. (M)
Watkins, O. E. (M)
Webb, V. C. (M)
Weeks, W. A., Jr. (M)
Weidler, C. R. (M)
Wentworth, G. E. (M)
Whipple, A. J. (M)
Williams, C. E. (A)
Wolanksi, H. S. (A)
Wood, G. K. (A)
Worley, E. B., Jr. (M)
Young, F. W. (M)

Freeport (HOU-6)
Goker, S. G. (M)

Friendswood (HOU-6)
Havard, W. L. (A)

Galveston (HOU-6)
Allen, L. G. (A)
Lee, J. L. (M)

Garland (DAL-6)
Andreassen, H. N. (M)
Bondy, M. A. (M)
Buie, J. G. (A)
Cawood, J. L. (A)
Davis, P. D., Jr. (SM)
Fuller, W. D. (SM)
Furnell, W. W., Jr. (SM)
Granger, F. P., Jr. (M)
Griffith, B. W., Jr. (SM)
Harton, P. L. (M)
Kattawar, A. (M)
Keeth, J. K. (M)
Lynn, J. C. (M)
Marcucci, R. L. (M)
McCrum, K. W. (M)
McMurtrey, A. W., Jr. (SM)
Mitchell, W. D. (SM)
Nieswiadomy, B. L. (M)
Parish, H. G. (M)
Parrish, O. C. (M)
Pennington, M. S. (A)
Peterson, W. T. (A)
Saudefer, S. R. (A)
Sanford, A. L. (A)
Sneed, J. D. (M)
Spilman, J. C. (M)
Stanton, A. N. (SM)
Tackett, H. A. (SM)
Taylor, D. R. (M)
Tipton, C. D. (SM)
Underbrink, G. P. (M)
Whiteside, D. L. (M)
Williams, B. M. (SM)
Williams, C. E. (M)
Yeager, D. L. (A)
Younkin, J. R. (M)

Gatesville (FW-6)
Davison, E. F. (M)

Genoa (HOU-6)
Johnson, O. F. (M)

Georgetown (FW-7)
Brown, B. M. (M)

Grand Prairie (DAL-6)
Anderson, R. P. (M)
Blanning, R. B. (M)
Buehrle, C. D. (M)
Chadbourne, J. D. (M)
Davis, J. T., Jr. (M)
Fabijan, F. M. (A)
Howell, J. S., Jr. (A)
Morris, B. V. (M)
Rapp, R. L. (M)
Romary, D. L. (M)
Shuler, J. L. (M)
Tharp, C. U. (A)
Urquhart, T. L., Jr (M)
Wells, E. R. (M)
Young, D. C. (M)

Grapevine (FW-6)
Donovan, J. J. (M)

Greenville (DAL-6)
Cain, R. E. (M)

Harlingen (SA-6)
Glowa, D. S. (M)

Harlingen AFB (B-PA-6)
Gandler, B. R. (M)

Hempstead (HOU-6)
Sherron, R. J., Jr. (M)

Henderson (SHR-6)
Daniels, T. E. (SM)

Hitchcock (HOU-6)
Hullett, V. T. (A)

Houston (HOU-6)
Ahrens, G. W. (M)
Albertson, J. N. (A)
Anderson, W. L. (SM)
Anthony, J. P. (SM)
Arnett, R. A. (SM)
Arthur, M. A. (SM)
Asbury, R. T. (M)
Atkinson, C., Jr. (M)
Attali, G. (M)
Austin, F. M. (SM)
Baker, L. E. (A)
Baker, R. L. (A)
Ball, J. D. (M)
Bee, R. E. (A)
Beeman, K. R. (M)
Belk, J. H. (A)
Bender, J. C. (SM)
Benner, R. G. (A)
Bennett, G. T. (SM)
Beyer, A. R. (A)
Beyer, F. (A)
Beyer, J. A. (A)
Blanchard, A. (SM)
Bobbitt, J. T. (M)
Bodden, A. L., Jr. (A)
Bogs, C. W. (A)
Booker, J. L. (A)
Bost, M. E. (A)
Bowen, B. R. (A)
Bravenec, F. R. (M)
Brougher, R. M. (M)
Brown, C. R. (A)
Browne, N. R. (M)
Buck, H. M. (SM)
Buckner, G. O., Jr. (SM)
Bucy, J. F., Jr. (M)
Buechner, R. H. (SM)
Bulhon, J. J. M. (M)
Burrows, R. C., Jr. (A)
Busacker, J. W. (A)
Bush, R. S. (SM)
Butemeyer, D. K. (M)
Byers, E. G. (SM)
Cammack, A. R. (A)
Campbell, J. R. (M)
Canup, R. E. (SM)
Capers, J. L. (A)
Caplan, R. S. (SM)
Carter, J. H. (A)
Carter, W. H., Jr. (SM)
Chapman, C. W. (M)
Childers, H. E. (SM)
Chinski, G. R. (SM)
Chun, M. E. (SM)
Chung, W. J. Y. (M)
Cisneros, I. (M)
Clerc, M. C. (M)
Colbern, F. W. (A)
Cook, G. R. (SM)
Cormier, R. E. (M)
Cornett, J. R. (M)
Coulter, T. W. (M)
Crews, I. B. (M)
Crossland, O. C. (A)
Cummings, L. C., Jr. (M)
Curry, C. P. (A)
Curry, W. L. (M)
Daly, W. E. (M)
Davison, B. D. (A)
Dewan, J. T. (M)
Dixon, T. K., Jr. (M)
Dosher, R. T., Jr. (SM)
Douglas, J. E. (A)
Drennan, H. J. (M)
Drisdale, T. B. (A)
Dupree, E. M. (SM)
Du Rapau, J. J. (A)
Eads, R., Jr. (A)
Easterling, M. F. (M)
Eaton, F. M. (M)
Edwards, W. H. (A)
Ekeroot, S. J. (A)
Emerson, S. F. (A)
Erath, L. W. (M)
Feagin, F. J. (SM)
Flatow, T. (SM)
Fossler, K. L. (M)
Francis, C. A. (M)
Franklin, P. E. (M)
Frazier, L. J. (A)
Frobese, C. W. (M)
Frosch, A. (M)
Gardner, D. H. (VA)
Gass, F. G. (A)
Geddes, L. A. (SM)
Gerry, P. W. (A)
Gillespie, T. F. (A)
Girala, A. S. (M)
Godfrey, R. M. (M)
Gohmert, T. P. (A)
Gollwitzer, L. H. (A)
Graham, M. (SM)
Green, J. W. (M)
Green, L. M. (A)
Greenwood, H. M. (M)
Greer, W. J. (SM)
Gundlach, E. E. (M)
Hagen, H. B. (M)
Hager, C. K. (M)
Halbert, J. L. (M)
Hale, E. M. (SM)
Hallenburg, J. K. (SM)
Hanlon, E. G. (A)
Hanus, F. J. (A)
Harbaugh, J. R. (M)
Hargett, J. T. (M)
Harris, D. E. (A)
Hauschild, R. L. (M)
Hawkins, D. W. (M)
Hefer, F. W. (M)
Hegar, D. T. (M)
Heins, A. E. (M)
Heintz, K. O. (SM)
Helken, E. W. (M)
Herrod, R. A., Jr. (M)
Hickman, D. M. (M)
Hill, H. B. (A)
Hilton, R. C. (M)
Hinds, M. H. (A)
Hiner, T. L. (A)
Holloway, M. R. (A)
Hougen, H. C. (M)
Hubbard, C. L. (M)
Hudgins, W. T., Jr. (M)
Huffman, C. H. (M)
Huhndorff, E. P. (M)
Hunt, C. J. (A)
Hurlbert, L. L. (M)
Huston, O. H. (M)
Inkman, W. M. (A)
Jameson, J. P. (M)
Johnstone, C. W. (SM)
Jones, H. J. (SM)
Kannensteine, F. M. (M)
Kaufman, S. (SM)
Keating, L. M. (A)
Keeling, R. W. (M)
Keep, H. A. (A)
Kelly, R. W. (M)
King, G. L. (A)
Klicpera, M. F. (A)
Koberling, A. (A)
Kokesh, F. P. (M)
Kolb, R. H. (M)
Kriegel, H. C. (SM)
Lamb, J. E. (M)
Liben, W. (SM)
Limb, L. K. (M)
Locke, R. V., Jr. (A)
Lockwood, R. M. (A)
Lord, A. H. (A)
Lorenz, L. H. (A)
Loveland, H. D. (A)
MacDonald, C. O. (A)
Madeley, P. E. (M)
Maness, J. H. (M)
Marquess, R. L. (A)
Marsh, G. E. (M)
Martin, S. A., Jr. (M)
Masterson, H. T. (M)

Matteson, L. W., Jr. (A)
Matthews, C. R. (A)
Maul, L. L. (M)
McArthur, H. K. (M)
McCabe, L. L. (SM)
McConnell, H. E. (VA)
McKay, G. C., Jr. (M)
McLendon, C. R. (M)
McLin, W. R. (A)
McManis, L. B. (SM)
McNatt, W. E. (M)
Melton, D. P. (M)
Menger, W. M. (M)
Millar, H. D. (M)
Millie, E. G. (M)
Milton, D. F. (A)
Minton, W. C. (A)
Mitchell, J. L. (A)
Mitchell, J. L. (M)
Monkhouse, J. R. (M)
Moore, A. M. (M)
Moore, R. D., Jr. (A)
Mullan, L. A. (M)
Murphy, T. R. (A)
Nall, A. E., Jr. (M)
Nelsen, H. H. (M)
Neuenschwander, E. F. (M)
O'Brien, D. D. (A)
Ording, J. R. (A)
Otis, D. C. (M)
Packard, J. C. (M)
Palmer, C. C. (M)
Palmer, O. M., Jr. (M)
Parker, R. H. (M)
Parsons, R. W. (A)
Patterson, H. B., Jr. (M)
Pearson, J. B. (M)
Pecot, V. D. (A)
Phillips, F. S. (M)
Pierson, A. L., III (M)
Pittman, R. R. (M)
Plumb, P. E. (A)
Rank, W. B. (M)
Ransome, R. L. (M)
Reynolds, R. C. (A)
Rhoads, W. C. (A)
Rhodes, H. A. (M)
Rhodes, M. (A)
Rice, L. S. (A)
Richardson, J. G. (A)
Robinson, J. C. (A)
Roby, J. W., Jr. (M)
Rodd, F. R. (M)
Rust, W. M., Jr. (F)
Salter, R. E. (M)
Santee, B. D. (M)
Sasseen, J. H. (SM)
Savage, K. D. (A)
Saxer, N. K. (M)
Sawyer, W. G. (M)
Schmidt, F. P. (A)
Schmidt, H. (A)
Schmuck, R. H. (M)
Schneider, W. P. (M)
Schoellkopf, A. J., Jr. (M)
Schutz, T. C. (M)
Scott, R. W. (A)
Scroggins, E. B. (M)
Sears, H. A. (M)
Seixas, A. D. (A)
Sembera, F. J. (M)
Sharpe, M. O. (SM)
Shawver, E. F. (M)
Silvus, H. S., Jr. (M)
Sims, J. P. (A)
Skellie, A. C. (M)
Smith, F. C., Jr. (M)
Smith, O. R. (SM)
Spann, M. M. (M)
Sparks, D. J. (A)
Spence, D. W. (SM)
Stanley, R. S. (M)
Steward, W. B. (SM)
Stickley, D. F. (A)
Stone, O. L. (M)
Stotler, D. E. (A)
Stroman, L. J. (M)
Sundt, P. C. (M)
Swearingen, J. L. (A)
Tadlock, F. A. (A)
Tanguy, D. R. (M)
Tasini, B. (M)
Taylor, A. D. (A)
Teal, E. E. (M)
Thomas, C. W., Jr. (A)
Thompson, R. R. (SM)
Thomson, W. E. (A)
Thornton, L. C. (A)
Trimmier, W. W. (M)
Trull, D. L. (M)
Tullos, F. N. (M)
Turner, C. G. (SM)
Ulmer, J. G. (A)
Unger, J. H. (M)
Van Wambeck, S. H. (SM)
Vincent, L. P., Jr. (M)
Vogel, C. B. (M)
Walker, H. O., Jr. (A)
Walters, W. T. (M)
Washburn W. M. (A)
Waters, J. S. (M)
Watson, A. L. (M)
Watson, J. K. (M)
Watson, J. S. (A)
Watt, J. S. (SM)
Weidner, C. P. (A)
Welz, W. C. (M)
Wenzel, G. E. (A)
Whitaker, T. N. (SM)
Wickham, W. S. (A)
Widerstrom, F. W. (A)
Wilkinson, S. L. (M)
Williams, A. P. (M)
Williamson, W. W. (A)
Wilson, G. D. (M)
Wischmeyer, C. R. (SM)
Witt, W. W. (M)
Woehst, K. H. (A)
Wofford, J. H. (M)
Wofford, W. D., Jr. (A)
Wright, F. E. (A)
Wright, J. L. (A)
Wrye, W. C., Jr. (M)
Yelser, J. O. (A)
Zapalac, R. (A)
Zill, F. W. (M)

Hurst(FW-6)
Boyles, A. E. (M)

Irving (DAL-6)
Atchley, B. K. (M)
Baker, T. J. (M)
Breithaupt, J. J. (M)
Buzbee, J. M. (M)
Carter, R. C. (M)
Cleveland, A. R. (M)
Curtis, G. D. (M)
Dillon, P. (M)
Fain, W. W. (M)
Flowers, B. R. (M)
Hampton, J. W. (SM)
Harris, H. F. (M)
Haskins, D. E. (M)
Heithecker, L. F. (M)
Holly, L. C. (M)
Kramer, C. V. (SM)
Le Gette, J. L. (M)
Leming, T. L. (M)
Logan, J. J. (SM)
MacDonald, F. H. (A)
Mayberry, K. L. (M)
Merington, R. N. (A)
Nelson, S. R. (A)
Nichols, L. A. (A)
Penn, T. C. (SM)
Petrasek, A. C. (SM)
Raits, E. J. (M)
Roberts, B. W. (A)
Seals, R. B. (M)
Sheppard, D. E. (A)
Skelton, C. W. (SM)
Smith, C. H. (M)
Stone, R. M. (SM)
Swafford, T. W., Jr. (M)
Thomas, C. R. (M)

Kelly AFB (SA-6)
Hirsch, C. O. (A)
Pol, W. F. (M)
Robertson, J. T. (M)
Wilson, W. B. (A)

Kerrville (SA-6)
Mason, A. F., Jr. (M)

Kingsville (SA-6)
Guinn, J. R., Jr. (M)
Kettlewell, J. (M)
Korges, E. (M)
Manke, J. A. (M)
Patton, A. D. (M)
Rawls, H. F. (A)

Lake Jackson (HOU-6)
Bills, E. S. (M)
Brown, H. K. (M)
Williams, W. E. (A)

La Marque (HOU-6)
Burton, J. R. (M)
Meyer, J. L. (M)

Lamesa (LUB-6)
Gray, T., Jr. (A)
Leiter, W. R. (A)
Massengale, D. W. (M)

Laredo AFB (SA-6)
Kreger, K. W. (M)
Thomas, G. W. (A)

Laughlin AFB (SA-6)
Brueckner, G. A. (M)

League City (HOU-6)
Monteith, R. B. (A)

Lewisville (FW-6)
Reed, J. E. (M)

Longview (SHR-6)
Bean, R. N. (M)

Lott (DAL-6)
Anderson, A. A. (M)

Lubbock (LUB-6)
Bland, E. W. (A)
Bryant, R. S. (A)
Charlesworth, L. M., (A)
Craig, J. P. (A)
Criswell, J. J. (M)
Donaldson, C. A. (M)
Duff, T. O. (A)
Easter, B. H. (A)
Edwards, D. J. (A)
Fagan, J. R. (M)
Grigsby, L. L. (M)
Houston, C. E. (SM)
Joiner, J. B. (M)
Jones, L. B., Jr. (A)
Key, B. P. (M)
Kilcrease, E. F. (M)
Lankford, I. C., Jr. (A)
Lebanoff, L. (A)
Lee, R. F. (SM)
Paul, C. A. (A)
Pease, L. A. (A)
Smith, G. H. (A)

Lufkin (B-PA-6)
Hill, F. C. (M)
Saxon, M. (SM)

Marble Falls (FW-6)
McDonald, C. J. (M)

McLean (LUB-6)
Patterson, J. M. (M)

Mesquite (DAL-6)
Blocker, R. E. (A)

Midland (LUB-6)
Coleman, M. V., Jr. (M)
Dahlstrom, D. D. (M)
Floyd, C. W., Jr. (M)
Jenkins, E. W., Jr. (M)
King, V. G. (M)
Lavergne, A. J., Jr. (M)
Lowery, R. O. (M)
Murphy, M. L. (A)
Vanderstaay, T. F., Jr. (A)
Yates, T. (A)

Mineral Wells (FW-6)
Bryan, R. G. (M)
Dunlavy, J. H., Jr. (A)
Mitchell, D. H. (SM)
Weiss, D. H. (M)

Odessa (LUB-6)
Blake, R. C. (A)
McCartney, J. D. (A)
Schock, W. R. (A)

Orange (B-PA-6)
Coale, C. R., Jr. (M)
Jones, R. L. (M)

Overton (SHR-6)
Sutton, J. P. (M)

Pasadena (HOU-6)
Burton, R. H., Sr. (M)
Clarke, C. V., Jr. (M)
Gulihur, D. L. (M)
Joss, J. W. (A)

Port Arthur (B-PA-6)
Anderson, O. J., Jr. (M)
Beauchamp, G. D. (A)
Hamilton, C. J., Jr. (M)
Hurst, E. H. (M)
Kelly, W. T. (M)
Krute, E. H. (A)
Leins, F. R. (M)
Stevens, B. A. (M)

Port Neches (B-PA)
Miller, R. D. (A)

Prairie View (HOU-6)
Kelly, G. E., Jr. (M)

Richardson (DAL-6)
Adams, J. E. (M)
Bark, D. A. (M)
Beal, G. E., Jr. (A)
Biggs, J. A. (SM)
Braginton, P. R. (SM)
Braun, C. (A)
Brooks, F. E., Jr. (F)
Brown, J. M. (M)
Church, G. C. (M)
Collins, M. F. (SM)
Cook, L. (M)
Davidson, K. W. (M)
Donnell, W. F. (A)
Eddleston, J. H. (M)
Foos, R. (A)
Gage, R. G. (M)
Godbey, J. J. (M)
Hertel, P., Jr. (A)
Hill, J. D., III (M)
Hughes, L. E. (A)
Jones, J. W. (A)
Lee, R. E. (M)
Love, K. A. (A)
Luecke, G. N. (M)
Luthans, R. L. (A)
Mason, J. S. (M)
Mitchell, A. T. (A)
Murdock, B. J. (SM)
Nickel, W. L. (M)
Obenhaus, R. E. (M)
Pippenger, D. E. (A)
Prier, H. W. (A)
Randolph, C. E. (M)
Reece, J. O. (M)
Sawyer, F. L. (M)
Spieker, M. (M)
Stambaugh, E. D. (A)
Stillwell, H. F. (SM)
Veerman, W. H. (M)
Wendlandt, C. W. (M)
Wolff, E. A., Jr. (A)
Yaple, T. L. (M)

Randolph AFB (SA-6)
Erdman, A. L. (A)

Reese AFB (LUB-6)
Fitts, R. E. (M)

Saginaw (FW-6)
Knote, W. E. (A)

San Antonio (SA-6)
Adams, R. M. (A)
Anderson, W. L. (M)
Arnold, H. N. (A)
Arnold, J. B. (SM)
Beckwith, J. E. (M)
Behrendt, H. B. (M)
Bergquist, A. O. (A)
Berns, P. I. (A)
Blake, G. A. (SM)
Braun, W. (M)
Brogan, F. A. (SM)
Buchanan, H. (M)
Burkholder, C. C. (M)
Cadena, D. G. (M)
Carmack, W. J. (A)
Case, B. (A)
Chamberlain, P. E. (M)
Clee, L. W. (A)
Coker, Q. W. (M)
Cunningham, J. B. (A)
Crockett, A. E. (M)
Daniels, D. G. (A)
Donaldson, W. L. (SM)
Dove, R. L. (A)
Duepner, F. (M)
Edmonson, J. W. E. (M)
Egerton, W. G. (SM)
Egger, S. L. (M)
Ford, M. J. (A)
Fountain, L. S. (M)
Franks, E. A. (A)
Fretz, O. G. (SM)
Gallagher, J. D. (M)
Gosch, V. E. (A)
Gower, S. G. (A)
Graf, C. R. (M)
Grier, D. R. (M)
Gunkel, W. A. (M)
Hallam, J. T. (M)
Hamm, W. J. (SM)
Hasbrook, A. F. (SM)
Holbert, G. R. (M)
Hornbrook, F. W. (M)
Ing, G. W. (SM)
Jeffers, C. L. (SM)
Jones, R. L., Jr. (A)
Jones, W. T. (M)
Keever, D. B. (M)
Kelly, R. W. (M)
King, J. D. (M)
Kuehn, R. J. (M)
Lamb, H. O. (M)
Laster, C. C., Jr. (M)
Liberto, E. A. (A)
Lincoln, J. P. (M)
Lusk, E. C. (A)
Matthews, K. B. (M)
Mayne, W. H. (SM)
Meiners, W. H. (A)
Miller, W. J. (A)
Minton, J. P. (F)
Morris, C. R. (M)
Morrison, G., Jr. (A)
Ohman, J. (SM)
Paris, H. B., Jr. (M)
Parr, J. O., Jr. (SM)
Pomy, H. J. (M)
Pool, E. B. (M)
Porter, J. B. (M)
Prucha, M. J. (M)
Rhodes, M. H. (A)
Rivers, M. D. (A)
Rives, J. B. (SM)
Roher, N. J. (A)
Sears, D. (M)
Semmes, D. R. (A)
Shappet, J. J. (A)
Siegel, H. A. (A)
Sikes, R. E. (SM)
Simpson, S. H., Jr. (SM)
Smith, R. J., Jr. (M)
Stokes, P. B. (M)
Sullivan, M. C. (M)
Tarrodaychik, P. (SM)
Tedford, W. E. (M)
Tollerson, J. C. (M)
Travers, D. N. (M)
Turner, H. C. (A)
Wangler, R. B. (M)
Watson, J. T. (A)
Watson, R. J. (M)
Wilkes, C. P. (M)
Williams, L. E. (M)
Wines, C. B., Jr. (A)
Zimmerman, L. O. (M)
Zumwalt, B. C. (M)

Seguin (SA-6)
Zuehl, W. R. (A)

Snyder (LUB-6)
Hopper, W. L. (M)

Sour Lake (HOU-6)
Cross, O. (A)

South Houston (HOU-6)
Lathrop, W. A. (A)

Sunray (LUB-6)
Perkins, C. S. (M)

Temple (FW-6)
Martin, B. A. (M)

Texarkana (SHR-6)
Dickinson, M. A. (A)

Texas City (HOU-6)
Combs, J. F. (A)

Tyler (DAL-6)
Grice, C. F. (M)
Hays, J. W. (A)
Thompson, O. E. (M)

Victoria (SA-6)
Feucht, R. W. (M)
Scroggins, C. M. (M)

Waco (DAL-6)
Fulwiler, R. J. (A)
Schwetman, H. D. (SM)

Waxahachie (DAL-6)
Pitts, W. C., Jr. (M)

West Columbia (HOU-6)
Blair, R. S. (M)
Brandt, L. C. (M)

Wichita Falls (FW-6)
Dickensheets, L. (A)
Whitener, A. S. (M)
Wiley, H. T. (M)

UTAH

Bountiful (SLC-7)
Anderton, C. W. (M)
Barneck, C. A. (A)
Folsom, J. B. (M)
Hansen, C. F. (M)
Hing, K. M. L. (A)
Patterson, C. L., III (M)
Richardson, F. L. (M)
Schussele, J. H. (M)
Washburne, J. W. (A)
Wilson, D. E. (M)

Clearfield (SLC-7)
Billings, R. G. (M)
Kartchner, K. A. (M)

Deweyville (SLC-7)
Blackham, D. K. (M)

Dugway Proving Ground (SLC-7)
Sirtak, R. V. (M)

Hill AFB (SLC-7)
Scott, S. D. (A)

Hyde Park (SLC-7)
Hancey, H. L. (M)

Kaysville (SLC-7)
Kishimoto, T. H. (M)

Kearns (SLC-7)
Adair, J. M. (M)

Layton (SLC-7)
Loomis, F. E. (A)

Lehi (SLC-7)
Wing, G. J. (M)

Logan (SLC-7)
Clark, C (SM)
Cole, L. S. (SM)
Gardner, T. W. (A)
Jensen, S. D. (M)
Jones, W. L. (SM)

Magna (SLC-7)
Sedlor, R. J. (M)

Midvale (SLC-7)
Tame, E. F. (M)

Moab (SLC-7)
Widows, C. H. (A)

Murray (SLC-7)
Reid, D. W. (M)
Rinn, B. R. (A)

Ogden (SLC-7)
Lee, G. F. (M)
Lone, R. S. (M)
Urgie, H. G. (A)
Wardleigh, G. R. (M)
Woods, F. W. (A)

Provo (SLC-7)
Bartholomew, D. (M)
Hurlbut, P. R. (M)
Monson, D. J. (M)

Roy (SLC-7)
Arrington, A. C. (M)

St. George (SLC-7)
Squire, R. W. (A)

Salt Lake City (SLC-7)
Adams, B. L. (M)
Ahearn, J. M. (M)
Allen, J. K. (M)
Anderson, J. E. (A)
Ballard, F. (A)
Bowen, M. J. (M)
Bray, G. L. (M)
Brown, B. O. (M)
Carman, F. C. (M)
Christiansen, R. J. (M)
Clayton, V. E. (SM)
Cochran, G. R. (M)
Conway, J. F., Jr. (A)
Cozzens, W. D. (M)
Crawford, G. W. (M)
Davidson, R. A. (M)
Davis, T. D. (M)
Diehl, C. E. (M)
Dixon, D. R. (M)
Feintuch, H. (M)
Fermelia, L. R. (M)
Gates, F. Y. (M)
Gehmlich, D. K. (M)
Glantz, R. H. (A)
Gray, C. S. (SM)
Green, D. J. (M)
Gunderson, A. L. (M)
Haegele, R. W. (SM)
Hall, J. E. (A)
Hammond, S. B. (SM)
Harper, R. B. (M)
Haycock, O. C. (SM)
Higgins, R. N. (M)
Hoggan, M. J. (A)
Hooper, J. S. (M)
Hubbard, J. J. (A)
Hunt, M. J. (A)
Judkins, C. D. (M)
Laird, R. R. (M)
Lambert, T. M. (M)
Larsen, R. R. (A)
Longson, F. W. (M)
McLaughlin, J. W. (M)
Meyer, H. E., Jr. (M)
Moser, M. B. (A)
Murphy, L. C. (M)
Nicholes, G. H. (M)
Nielsen, R. D. (A)
Noffsinger, D. T. (A)
Piele, G. H. (M)
Pound, E. F. (A)
Powers, J. T. (M)
Rathke, J. E. (A)
Redd, H. J. (M)
Robinson, W. H. (A)
Shaffer, M. R., Jr. (M
Tew, D. E. (A)
Thorpe, J. N. (M)
Trinnaman, R. R. (A)
Vodak, A. W. (M)
Wagner, L. W. (M)
Warner, B. D. (M)
Warner, H. R. (A)
Weimer, J. W. (A)
Wells, K. R. (M)
Wright, J. W. (F)

Sandy (SLC-7)
Atwood, K. W. (M)
Johnson, D. Q. (M)
Nelson, K. F. (M)
Skinner, R. L. (M)

Spanish Fork (SLC-7)
Hone, S. J. (M)

VERMONT

Bennington (BOS-1)
Lillie, D. F., Jr. (A)
Osgood, D. W. (M)

Burlington (B-NV-1)
Bender, D. R. (M)
Best, W. D. (M)
Borah, D. F., III (A)
Eckels, A. R. (SM)
Frisby, W. L. (M)
Irwin, R. W., Jr. (A)
Kilcrease, D. L. (A)
Landry, A. E. (M)
Leonard, C. E. (M)
Martin, S. T. (SM)
Sisco, B. A. (A)
Tierney, J. W. (M)

Chester (BOS-1)
Rowe, A. H. (A)

Essex Junction (B-NV-1)
Browne, R. W. (A)
La Porte, G. L. (M)
Marcotte, R. A. (M)

Jamaica (BOS-1)
Heffion, A. (A)

Montpelier (B-NV-1)
Davis, L. C. (A)

Northfield (B-NV-1)
Marsh, R. F. (M)
Seal, P. M. (SM)

Rutland (BOS-1)
Church, H. V. (M)
Lyman, R. P. (SM)
O'Brien, J. A. (M)

St. Albans (B-NV-1)
Wright, H. E. (M)

Shelburne (B-NV-1)
Bundy, L. M. (M)
Snowman, L. R. (M)

South Burlington (B-NV-1)
Dudevoir, W. G. (M)
Horvath, C. (M)
Jones, C. R. (A)
Kotlewski, J. P. (M)
Wheatley, D. M. (M)

South Woodstock (BOS-1)
Garceau, L. (M)

Springfield (BOS-1)
Bloomfield, B. (M)
Carpenter, D. J. (M)
Churchill, D. W. (A)
Lohan, F. J. (M)
Miller, H. E. (M)

Waterbury (B-NV-1)
Chase, W. C. (M)

West Brattleboro (BOS-1)
Martin, D. (SM)
Weatherhead, W. R. (M)

Weston (BOS-1)
Boothby, L. W. (M)

VIRGINIA

Alexandria (W-DC-3)
Abel, R. L. (M)
Anderson, L. M. (A)
Andrus, A. M. (M)
Arrington, J. L., II (SM)
Ashenden, G. K., Jr. (M)
Ashley, D. S. (M)
Balwanz, W. W. (SM)
Bauer, R. E. (M)
Bawer, R. (A)
Besancon, M. (SM)
Blau, W. (A)
Bowman, W. B. (A)
Bradley, E. H. (SM)
Briskman, R. D. (A)
Brooks, F. C. (M)
Bugg, J. E. (SM)
Burris, H. A. (M)
Callahan, A. L. (M)
Carroll, L. O. (A)
Carterette, A. A., Jr. (M)
Christman, T. J. (M)
Cole, R. I. (F)
Collins, W. H. (M)
Colton, R. B. (F)
Courtney, R. H., Jr. (M)
Coven, A. W. (SM)
Craigue, A. (A)
D'Antonio, R. G. (M)
Darcey, R. J. (M)
Dausend, J. P. (M)
Dittberner, D. L. (M)
Evans, J. P. (M)
Everhard, F. U., Jr. (A)
Favret, A. G. (SM)
Fleming, J. H. (M)
Fraedrich, D. K. (M)
Fry, L. T. (A)
Fullerton, G. R. (M)
Gabrielson, H. C. (M)
Garafola, J. R. (A)
Garrigus, N. F. (M)
Gills, L. L. C. (M)
Goeser, J. N. (A)
Gonzalez, W. (A)
Goutos, A. (M)
Graves, C. J. (M)
Greear, D. W. (M)
Hagaman, B. G. (SM)
Hall, C. C. (M)
Harper, H. (M)
Harris, J. E., Jr. (M)
Heister, C. F. (SM)
Hendershot, L. R. (A)
Hicks, W. S. (A)
Hill, M. E. (A)
Hopkins, A. F., Jr. (SM)
Kelleher, K. S. (SM)
Kiebach, C. D. (A)
King, W. M. (M)
Kings, L. (M)
Klenk, J. L. (M)
Knoer, H. (A)
Knopf, A. J. (A)
Knowles, R. G. (A)
Konkel, A. J., Jr. (M)
Kosak, A. S. (A)
Kubilius, A. A. (M)
Littlejohn, H. S. (M)
Littlepage, C. M. (A)
Livingstone, R. H. (M)
Long, A. (A)
Longfellow, B. S. (M)
Lorenz, R. J. (M)
Love, F. B. (M)
Mallinson, F. C. (SM)
Malone, D. M. (M)
Mann, J. P. (A)
Marsolan, V. C. (SM)
Martin, R. W. (M)
McCall, C. P. (M)
McElroy, E. J. (M)
McEwan, A. J. (A)
McGinnis, L. F., Jr. (A)
McNulty, J. L. (A)
Melville, J. E. (A)
Messer, A. M. (M)
Miller, A. T. (A)
Miller, J. W. (M)
Mittelman, L., Jr. (A)
Montague, H., III (A)
Moore, H. S. (A)
Moore, R. T. (SM)
Morrow, C. M. (M)
Mullin, J. H. (A)
Murrell, R. G. (M)
Myers, J. C. (SM)
Myers, O. H. (A)
Nabell, E. G. (A)
Noble, H. L. (A)
Park, K. L. (A)
Parker, C. V. (SM)
Passman, A. J., Jr. (M)
Paterson, R. C. (A)
Peake, H. J. (SM)
Peavey, B. (M)
Percy, R. W. (M)
Pichetto, P. B. (M)
Post, M. D. (SM)
Price, H. W., Jr. (M)
Pritting, J. W. (A)
Raudenbush, J. E. (M)
Rayborn, H. C. (M)
Raybuck, C. B. (SM)
Rector, C. (M)
Reid, J. G., Jr. (SM)
Reiser, D. (M)
Rochelle, R. W. (A)
Romer, W. J. (M)
Royce, R. K. (M)
Salmond, D. S. (SM)
Sargent, R. S. (SM)
Schneider, R. J. (M)
Schumann, A. W. (M)
Seddon, J. C. (F)
Shellenbarger, J. (M)
Shepard, D. H. (SM)
Skewis, W. H. (A)
Smith, C. (A)
Smith, T. J. (A)
Spencer, C. L. (M)
Stewart, C., Jr. (SM)
Strother, J. F. (M)
Stuckert, E. M. (SM)
Tsaka, T. (M)
Taylor, W. B. (M)
Thompson, L., Jr. (SM)
Tidball, F. E. (SM)
Tucker, J. W. (M)
Tucker, W. K., Jr. (A)
Underwood, R. W. (A)
Varela, A. A. (SM)
Von Alven, W. H. (M)
Von Dohlen, H. W. (M)
Weihe, W. K. (SM)
Weinstein, A. (M)
West, J. S. (M)
White, D. R. J. (SM)
Wiewara, E. J. (M)
Williamson, H. G. (M)
Wise, J. P. (M)
Wunderley, R. H. (M)
Young, M. P. (SM)

Annandale (W-DC-3)
Beecher, G. L. (A)
Black, L. (M)
Cervenka, F. J. (SM)
Combes, E. T. (M)
Dixon, J. T. (SM)
Evans, A. L. (A)
Garlan, H. (M)
Germain, E. G., Jr. (A)
Johnson, F. (SM)
Olds, M. L. (M)
Richman, H. R. (M)
Teachman, A. E. (SM)

Arlington (W-DC-3)
Albee, C. (M)
Altman, S. S. (M)
Amster, G. S. (A)
Atkinson, E. E. (M)
Baker, H. L. (A)
Banks, C. R. (SM)
Bankson, H. D. (M)
Barbeau, A. R. (M)
Barr, L. V. (M)
Batch, W. J. (M)
Batista, W. C. (A)
Becker, D. E. (M)
Beecher, W. C. (M)
Beneke, J. (A)
Bennett, R. (F)
Berghoefer, F. G. (M)
Bernstein, H. E. (SM)
Beyer, C. M. (SM)
Blaustein, P. H. (A)
Bodenhamer, R. B. (M)
Boggs, G. E. (M)
Boros, G. (A)
Bradley, M. R. (M)
Braverman, N. (SM)
Brennan, L. E. (M)
Bridges, J. M. (SM)
Brown, R. F., Jr. (M)
Brunk, H. L., Jr. (M)
Buchanan, O. R. (A)
Burleson, M. M. (A)
Burris-Meyer, H. (SM)
Busch, C. R. (M)
Butts, R. S. (M)
Cahan, P. J. (M)
Calohan, W. C. (M)
Campbell, J. S. (A)
Campbell, W. H. (SM)
Castle, R. A. (M)
Chapman, A. K. (M)
Charmatz, A. W. (A)
Chasnov, B. (SM)
Child, A. A. (A)
Clark, G. E., Jr. (A)
Clark, R. L. (F)
Cobb, C. A. (M)
Cobb, M. W. (A)
Cochran, J. L. (M)
Coe, G. J. (A)
Cohen, J. (SM)
Connaway, J. E. (A)
Cook, D. C. (A)
Cook, E. F. (SM)
Coppola, G. J. (A)
Coyle, R. J. (A)
Craver, J. N. (M)
Culp, J. C. (M)
Cuthbertson, R. D. (M)
Darling, R. S. (A)
Davidson, W. P. (M)
Davis, C. H. (A)
Davis, T. R. (A)
De Hart, R. N. (M)
Dennison, B. H., Jr. (SM)
Dettra, J. E., Jr. (A)
De Vore, C. (SM)
Dickson, E. L. (A)
Dixon, G. C. (SM)
Dodge, J. E. (A)
Dutton, W. P. (M)
Enos, R. M. (M)
Eskinzes, J. G. (A)
Etter, W. A. (M)
Fagan, B. B. (M)
Fiedelman, C. (SM)
Freeman, J. T. (M)
Garrett, L. F. (A)
Gauss, H. (M)
Gibson, G. B. (SM)
Giles, R. C. (M)
Gillenwater, T. M. (M)
Girard, E. J. (SM)
Gleason, D. H. (A)
Greenstein, B. (M)
Gregory, C. A. (SM)
Gridley, C. J. (M)
Griffin, L. L. (M)
Groves, W. E. (SM)
Gumina, L. V. (A)
Hackman, M. J. (A)
Hall, O. E. (A)
Harding, G. C. (M)
Harkins, P. B. (SM)
Hays, J. I. (A)
Hedrick, C. E. (M)
Hens, R. J. (A)
Hershberger, W. O., Jr. (M)
Hice, L. C. (A)
Hilgedick, W. C. (SM)
Hutton, D. B. (A)
Hocking, L. J. (A)
Israel, F. (M)
Jackson, D. A. (A)
Jaynes, F. H. (A)
Johannessohn, N. A. (M)
Jones, E. L. (M)
Jones, G. H., Jr. (A)
Kahwajy, F. T., Jr. (M)
Kefalas, G. P. (M)
King, L. H. (M)
Kinyon, R. T. (A)
Kline, D. C. (M)
Koditek, G. W. (A)
Krcek, J. A. (SM)
La Fevre, L. M. (M)
Lancioni, P. (M)
Lawson, A. A. (SM)
Lay, L. L. (M)
Lee, J. M. (SM)
Levin, A. (A)
Loda, C. J. (SM)
Logan, B. A., Jr. (M)
Louer, P. E. (M)
Lynch, J. A. M. (SM)
Martin, E. T. (SM)
Martin, D. K. (SM)
Martin, O. L. (M)
Martin, R. D. (SM)
Maryeski, W. P. (M)
Mash, J. T., Jr. (A)
Masison, C. J., Jr. (A)
Mason, R. P. (A)
Mayer, D. S. (M)
McCachren, W. S. (SM)
McClurg, G. H. (SM)
McConnell, I. R. (M)
McDowell, D. E. (A)
McKnight, C. J. (M)
McLain, T. E. (M)
McLeod, J. S. (M)
Meader, G. S., Jr. (A)
Mendus, W. M. (A)
Messick, V. D. (A)
Metzger, W. (A)
Miller, E. R. (A)
Miller, J. L. (M)
Miller, J. L., Jr. (M)
Millies, F. G. (M)
Moffet, J. A. (M)
Montgomery, J. N., III (M)
Morrisey, J. A. (A)
Morscher, L. N., Jr. (SM)
Myers, W. D. (A)
Nash, P. E. (SM)
Noble, J. S. (A)
Nyhen, E. M. (M)
Pallange, E. P. (A)
Parris, D. S. (A)
Penniman, I. B. (M)
Perrott, T. A. (M)
Peyton, P. B., Jr. (A)
Poling, A. C. (M)
Pressnall, J. R. (A)
Price, M. A. (SM)
Puro, W. O. (SM)
Quin, K. H. (A)
Quinn, R. B. (M)
Rice, J. E. (SM)
Richers, E. E. (M)
Rigdon, C. A. (M)
Rittenhouse, P. T. (A)
Rock, P. (A)
Roder, C. C. (VA)
Rosenthal, S. (A)
Rourke, C. R. (M)
Sargent, C. J. (M)
Schaaf, R. H. (M)
Schmid, O., Jr. (A)
Scholetzky, J., Jr. (A)
Scholl, G. S. (A)
Scull, R. C. (A)
Seifert, F. F. (M)
Selby, H. A. (A)
Sergeant, R. C. (SM)
Shannon, J. R. (A)
Shelton, J. P., Jr. (M)
Sherer, L. M. (SM)
Sherwood, R. M. (SM)
Smith, E. L., Jr. (M)
Smith, R. O. (SM)
Spies, M. C. (M)
Stec, C. L. (SM)
Stephan, H. W. (VA)
Stewart, J. M. (SM)
Strothers, H. (M)
Suminski, H. (A)
Sutton, B. L. (M)
Swallow, C. E. (A)
Swanson, M. W. (SM)
Tate, J. P., Jr. (A)
Taylor, P. G. (M)
Teare, E. H., Jr. (M)
Teschner, D. (M)
Thames, W. M. (SM)
Thomasson, H. B. (M)
Trotter, B. E. (SM)
Van Arsdol, F. L. (M)
Vance, R. T. (M)
Van Valkenburgh, R. A. (M)
Veatch, J. P. (SM)
Vosnen, B. (SM)
Ward, A. A. (M)
Wardrip, S. C. (M)
Ware, M. (M)
Weihe, V. I. (F)
Weiss, R. A. (SM)
White, C. E. (SM)
Whitney, R. J. (A)
Wiener, G. (A)
Wilbur, J. W. (M)
Willard, J. M. (M)
Williams, R. T. (M)
Wilson, J. B. (A)
Wilson, L. M. (A)
Witting, E. G. (SM)
Yeager, A. G. (M)
Yoon, P. (M)

Atlee (VA-3)
Ferri, J. A. (A)

Bayside (VA-3)
Bailey, A. B. (M)
Enright, R. E. (M)
Estabrook, R. K. (A)
Peffer, J. C. (SM)

Bedford (VA-3)
Shawl, W. C. (M)

Bena (VA-3)
Hogge, E. C. (A)

Blacksburg (VA-3)
Baker, V. H. (M)
Ebert, H. K. (M)
Holt, C. A. (M)
Kuun, A. (A)
Lee, C. (SM)
Miller, R. H. (M)
Wright, R. R. (SM)

Bon Air (VA-3)
Gouldman, H. O., Jr. (A)

Bristol (VA-3)
Chambers, W. M. (A)

Cape Charles (VA-3)
Brehm, C. M. (M)
Lovelace, D. G. (M)

Charlottesville (VA-3)
Albee, R. B. (M)
Anderson, R. V. (M)
Ankney, S. M. (M)
Ballard, L. L. (A)
Brown, B. T., Jr. (M)
Burford, A. J. (M)
Butler, A. A., Jr. (M)
Carpentier, R. A. (M)
Clevenger, J. E. (M)
Colby, E. G. (M)
Fleming, R. F., Jr. (A)
Fuller, H. P., Jr. (M)
Grymes, J. R., Jr. (M)
Harris, O. R. (SM)
Harvey, G. L. (SM)
Hermansdorfer, J. E. (M)
Humphris, R. R. (M)
Lang, E. E., Jr. (M)
Lee, K. O. (M)
Moss, F. E. (M)
Purnell, L. S. (SM)
Quarles, L. R. (F)
Ramey, R. L. (A)
Redfield, D. D. (A)
Roberts, J. M. (SM)
Roberts, W. W. (A)
Rockett, F. H., Jr. (SM)
Siegel, C. M. (M)
Smith, A. G. (M)
Snead, C. R. (M)
Stavitski, L. X. (M)
Teague, D. L. (M)
Tolsch, I. H. (SM)
Towler, W. R. (M)
Updike, O. L., Jr. (M)
Van Sickler, E. P. (A)
Walker, W. P. (M)
Ward, J. W. (SM)
Welch, A. A. (M)
Wright, P. W. (A)

Chincoteague (VA-3)
Brackeen, T. W. (M)
Selby, S. L. (A)

Clifton (W-DC-3)
Bowie, D. M. (M)
Clark, V. C. (A)
Duncan, R. L. (SM)

Colonial Beach (VA-3)
Brooks, F. E. (M)

Corbin (VA-3)
Frost, R. D. (M)

Cradock (VA-3)
Shepherd, J. F. (M)

Dahlgren (VA-3)
Gros, J. R. (M)
Maxwell, M. S. (M)
Middlebrook, A. G. (M)
Potter, R. R. (M)
Ryland, R. T., Jr. (M)
Sawyer, R. S. (M)
Shultz, L. R. (A)
Tharp, T. H. (M)

Danville (VA-3)
Lea, H. D. (M)
Motley, L. C. (M)
Saunders, E. N. (A)

Denbigh (VA-3)
Morton, R. W. (M)
Stubblefield, R. L. (A)

Dunn Loring (W-DC-3)
Griffin, P. W. (M)

Ellerson (VA-3)
Spratley, J. B. (M)

Fairfax (W-DC-3)
Aasen, C. L. (A)
Ambrose, T. J. (M)
Andrews, M. B. (M)
Bergen, S. (SM)
Bradford, H. K. (M)
Campbell, D. O. (M)
Cave, E. L. (M)
Christie, C. B. (M)
Derey, C. H. (M)
Dresser, P. L. (M)
Edwards, B. E. (M)
Emery, R. H. (M)
Finneran, R. J. (A)
Gartzke, F. J. (M)
Grumich, J. (SM)
Holland, F. S. (A)
Hyams, H. C. (SM)
Kochendarfer, D. C. (A)
Lee, F. N. (A)
Lenert, R. W. (M)
Levine, S. (M)
McGinnis, C. E. (M)
Pettingill, S. A. (M)
Pratt, D. E. (M)
Purple, W. C., Jr. (M)
Scott, W. G. (M)
Sears, J. F. (SM)
Sharp, D. W. (A)
Silberg, P. A. (SM)
Srygley, O. C. (SM)
Thornwall, J. C. (A)
Volk, C. M. (A)
Ward, H. T., Jr. (M)
Wetzel, L. D. (A)
White, G. T. (M)
Williams, R. E. (SM)

Falls Church (W-DC-3)
Alexander, H. R. (M)
Allen, D. A. (A)
Allen, E. W., Jr. (F)
Aller, J. C. (A)
Anderson, R. J. (A)
Anderson, W. L. (M)
Andrew, R. T. (M)
Ankers, R. E., Jr. (M)
Atwell, R. G. (M)
Ballard, A. H. (SM)
Barkman, R. N. (A)
Barnett, J. S. (M)
Barnes, H. R. (M)
Bartlett, G. W. (M)
Bartlett, O. H., Jr. (M)
Bateman, R. (M)
Baylor, W. R. (A)
Beals, E. H. (M)
Behme, A. E. (M)
Behrens, F. A. (M)
Bergman, C. E. (A)
Bernhard, C. J. (A)
Billheimer, C. R. (M)
Bohl, L. H., Jr. (M)
Boland, C. E. (A)
Boland, J. N. (M)
Bouchey, S. H. (M)
Bouvy, J. W. (M)
Brady, R. F. (SM)
Brantly, R. S., Jr. (M)
Breeden, F. C. (M)
Breen, M. T. (A)
Broden, B. W. (M)
Brown, H. B. (M)
Brown, L. (A)
Bull, J. T. (M)
Burch, R. R. (M)
Campbell, S. V. (M)
Carr, J. W. (M)
Carr, S. O. (M)
Carter, C. S., Jr. (A)
Carter, D. W. (A)
Casey, G. J. (M)
Casteel, M. R. (M)
Chadwick, G. G. (M)
Clark, J. L. (SM)
Cleckner, D. C. (SM)
Colby, P. R. (SM)
Combs, D. D. (A)
Connelly, E. M. (A)
Courtis, R. P. (VA)
Cove, M. (M)
Craven, E. S. (M)
Crenshaw, A. N., Jr. (M)

Crowley, J. J. (SM)
Croy, J. R. (M)
Curtis, C. V. (M)
Davie, M. C. (SM)
Davis, C. B. (SM)
Davis, E. D. (A)
Davis, F. E. (A)
Davis, J. N. (M)
Day, W. R. (M)
Defenbach, R. W. (M)
Dent, J. R. (M)
Dickinson, W. T. (M)
Diehl, E. J. (SM)
Disenhaus, N. (SM)
Driese, E. C. (M)
Dula, A. M. (A)
Ellis, R. E. (SM)
Erdle, F. E. (A)
Ernst, A. A. (M)
Faiman, R. N. (SM)
Fama, C. S. (M)
Farago, J., Jr. (A)
Field, F. M. (A)
Feild, S. C., Jr. (M)
Feineman, G. (M)
Fivel, M. J. (M)
Frederick, E. W. (M)
Friedlander, A. T. (M)
Fuhr, W. H. (A)
Fullilove, M. N. (M)
Gallo, W. A., Jr. (A)
Garrett, W. O. (SM)
Germon, C. L. (M)
Gieseler, L. P. (A)
Glass, B. W., Jr. (M)
Godsey, W. J. (M)
Gordon, H. L. (A)
Guhne, R. D. (M)
Hall, R. W. (A)
Harmon, W. R., Jr. (M)
Hart, J. E. (M)
Haskins, R. L. (SM)
Hastert, D. D. (M)
Hausch, A. P. (A)
Hawkins, H. D. (M)
Henry, R. L., Jr. (M)
Hensell, R. L. (M)
Hewitt, G. J. (M)
Hinman, W. S., Jr. (F)
Hixson, J. D. (M)
Hoffmann, G. E. (M)
Hohos, J. A. (A)
Holmes, H. B., III (M)
Hoopes, R. D. (A)
Horne, C. P. (M)
Houseman, E. O., Jr. (M)
Irby, R. F. (A)
Jahoda, J. R. (SM)
Jahr, E. F. (M)
James, F. B. (M)
James, W. G. (SM)
Johnson, J. G. (SM)
Johnson, L. M. (M)
Johnson, W. R. (M)
Johnston, E. L. (M)
Johnston, W. H. (M)
Jones, S. R. (M)
Katz, E. H. (A)
Keating, T. J. (M)
Kern, T. W. (M)
Knight, C. R. (SM)
Knutson, H. C. (M)
Kovski, J. J. (SM)
Kresge, P. A. (M)
Lamb, C. E. (M)
Layfield, L. C. (M)
Lepkowski, M. J. (A)
Lerner, L. (M)
Levisay, D. H. (M)
Little, S. (M)
Livingston, J. L. (M)
Marcey, J. M., Jr. (M)
Marihugh, W. (M)
Masterson, J. T. (A)
Maton, G. L. (M)
May, C. D., Jr. (M)
McBride, G. H. (M)
McDermott, E. P. (A)
McDonnell, J. E. (M)
McDowell, R. B. (SM)
McGill, J. A., Jr. (A)
McKenney, M. S. (M)
McLean, J. W. (SM)
McMahon, J. H. (M)
McMurtray, H. W. (A)
McNemar, C. W. (A)
Mead, O. J., Jr. (SM)
Meenahan, W. J. (M)
Meloy, T. (SM)
Merchant, R. S. (M)
Miller, R. E. (M)
Montague, N. C. (A)
Neal, R. B. (A)
Nellson, C. C. (M)
Nickell, R. S. (M)
Obenchain, I. R., Jr. (SM)
Ocel, R. P. (M)
O'Hea, J. T. (M)
Pachuta, J. R. (M)
Parker, C. F., Jr. (SM)
Paterson, H. R. M. (A)
Plank, P. E. (A)
Poynter, L. H., Jr. (A)
Prine, D. W. S. (A)
Proferes, N. J. (A)
Randall, H. (SM)
Renton, R. J. (M)
Ricciardelli, A. M. (SM)
Roche, A. O., III (M)
Rogers, C. J. (A)
Rogers, G. J. (A)
Rogers, W. H., Jr. (A)
Rowland, E. T. (M)
Rumble, A. R. (SM)
Runyan, R. E. (M)
Saunders, C. H., Jr. (A)
Savarese, R. T. (A)
Scott, R. M. (M)
Scott, S. R. (SM)
Seccombe, W. T. (SM)
Sherman, W. R. (SM)
Shinn, L. A. (M)
Simerly, F. E. (M)
Sjoholm, E. M. (A)
Skrivseth, A. G. (SM)
Smith, B. D., Jr. (M)
Smith, P. F. (M)
Smith, T. H. (A)
Smith, W. M. (SM)
Soboi, E. J. (A)
Sotak, J. W. (A)
Stansell, T. A., Jr. (M)
Stevens, R. L. (A)
Stiles, R. G. (SM)
Stotler, H. J. (M)
Svedlow, J. D. (M)
Swanson, R. W. (A)
Taylor, P. E. (M)
Thompson, H. H. (A)
Thrasher, P. M., Jr. (M)
Tucker, G. L. (M)
Turf, L. (A)
Turner, J. S. (SM)
Vandivere, E. F., Jr. (A)
Van Lunen, R. D. (M)
Vernon, A. W. (A)
Vignali, J. A. (A)
Wahle, J. J. (M)
Walk, F. T. (M)
Walsh, J. P. (A)
Wanselow, R. D. (M)
Weid, A. C. (M)
Whiting, W. K. (M)
Wickenkamp, F. W. (M)
Wilcox, H. E. (M)
Williams, J. H., Jr. (A)
Winick, A. B. (M)
Wooten, A. D. (A)
Yee, D. K. (M)
Young, A. H. (A)

Fort Belvoir (W-DC-3)
Lindgren, T. D. (M)
Willard, H. R. (M)

Fort Myer (W-DC-3)
Hollander, H. C. (M)

Hampton (VA-3)
Babcock, R. A., III (M)
Boyer, W. J. (M)
Bradbury, J. T. (M)
Burton, W. G., Jr. (M)
Dial, E. W. (M)
Duncan, L. E. (M)
Ferguson, T. K. (M)
Franklin, L. F. (M)
Hastings, C. E. (SM)
Holup, A. C. (M)
King, W. C., Jr. (A)
Lee, C. Q. (A)
Russell, J. A., Jr. (M)
Sams, T. G. (M)
Satterfield, J. M. (M)
Vavra, P. H. (M)
Wells, W. B. (M)
Youngbluth, O., Jr. (M)

Harrisonburg (VA-3)
Braun, W. L. (SM)
Foley, J. M. (M)
Jackson, R. C. (M)
Jones, T. B., Jr. (M)

Herndon (W-DC-3)
Groff, E. M. (A)
Martin, W. L. (A)

Highland Springs (VA-3)
Martin, E. L. (A)

Hillsboro (W-DC-3)
Dove, P. S. (M)

Kenbridge (VA-3)
Edmonds, A. H., Jr. (A)

King George (VA-3)
Payne, J. N. (M)

Langley AFB (VA-3)
Andrae, P. H., II (M)
Burrill, G. P. (M)
Dean, R. J. (A)
Fernandez, M. (SM)
Harvey, C. C. (M)
Klucarich, S. (A)
Lee, T. C. (M)
Sprinkle, J. F. (A)
Taylor, M. L. (M)
Weber, L. C. (M)
Wood, H. L. (M)

Leesburg (W-DC-3)
Alberts, W. S. (SM)
Carr, L. H. (M)
Martin, W. H. (M)
Sturgill, L. G. (M)
Whitmore, W. C., Jr. (A)

Lexington (VA-3)
Kwei, M. W. (M)

London Bridge (VA-3)
Dawson, T. F. (M)
Soper, R. T. (A)

Lorton (W-DC-3)
Korb, A. (SM)

Lynchburg (VA-3)
Ardys, J. (M)
Ball, R. M. (M)
Breazeale, W. M. (SM)
Cardwell, B. B., Jr. (M)
Karcher, R. W. (M)
Lezan, G. R. E. (M)
Orth, J. T. (M)
Pickett, R. T., III (A)
Weil, G. M. (M)
Wilson, K. R. (SM)

Lynnhaven (VA-3)
Stoddert, T. M. (M)
Whitley, J. E. (A)

Manassas (W-DC-3)
Becker, W. J. (A)
Capek, S. J. (M)
Dillon, D. C. (M)
Goatley, C. (A)
Simms, R. J. (M)

Manteo (VA-3)
Shannon, B. F. (M)

McLean (W-DC-3)
Brown, D. H. (M)
Creutz, J. (M)
Dee, H. E. (A)
Dyke, E. (SM)
Gumb, D. F. (A)
Heckel, R. D. (M)
Seewald, E. C. (M)
Shoemaker, R. F. (A)
Smith, A. E. (SM)
Smith, J. M. (M)
Stokes, H. S. (SM)
Stonestfer, R. A. (A)
Sunde, D. H. (A)
Swafford, J. H. (A)

Mount Vernon (W-DC-3)
Phillips, M. L. (SM)

Naval Mine Depot (VA-3)
Gustafson, A. J., Jr. (A)

Newport News (VA-3)
Bjerke, J. O. (M)

Norfolk (VA-3)
Alderman, J. M. (M)
Anda, R. O. (A)
Bacon, F. W., Jr. (M)
Blagg, R. L. (M)
Carruth, D. C. (M)
Clemente, J. R. (A)
Coffland, A. E. (A)
Conable, J. H. (M)
Cornez, A. L. (A)
Councill, J. W. (M)
Cowie, D. G. (M)
Crowley, H. R. (M)
Davis, E. E. (M)
Doby, W. C. (M)
Dryer, H. M. (A)
Eklund, D. A. (M)
Eller, J. E., Jr. (SM)
Estes, D. R., Jr. (M)
Fabianic, W. S. (M)
Finley, A. G. (M)
Fossum, T. T. (M)
Gladding, E. B. (M)
Graham, D. A. (M)
Harrell, E. E. (A)
Hurley, J. H., Jr. (A)
Hutt, C. E. (A)
Jennings, J. L. (A)
Kaserman, F. S. (M)
Keast, P. M. (M)
King, S. O. (A)
Koontz, C. E. (M)
Lawless, J. H. (M)
Lindell, R. L. (M)
Linder, I. W. (M)
Louderback, H. W., Jr. (M)
Mann, D. O. (SM)
Martin, W. P. (M)
Medley, R. C. (A)
Noble, L. V. (M)
Orr, J. F. (M)
Pellock, L. E. (M)
Pyle, H. D. (M)
Roman, R. (A)
Ryscuck, J. (M)
Savedge, G. D., Jr. (A)
Sheets, H. O. (M)
Slaughter, W. R. (A)
Smith, A. J. (A)
Sutherland, C. E. (SM)
Talmage, G. E. (A)
Thompson, L. H. (A)
Thumm, H. L., Jr. (A)
Trahadias, P. N. (A)
Tucker, E. A. (SM)
Vallandigham, W. W. (M)
Varn, S. P., Jr. (A)
Wagner, W. Q. (A)
Ward, B. L., Jr. (A)
Wilder, D. B., Jr. (M)
Williams, B. D., Jr. (M)
Williamson, K. A. (A)
Wiseman, R. C. (A)

North Arlington (W-DC-3)
Alex, D. G. (M)

North Springfield (W-DC-3)
Hill, R. B. (A)
Stell, J. P. (A)

Oakton (W-DC-3)
Wood, W. H. (M)

Orange (VA-3)
Boisseux, E. V., Jr. (M)

Petersburg (VA-3)
Forney, F. E. (A)
Hall, R. P. (M)
Kluge, C. V. (A)

Phoebus (VA-3)
Cooper, W. N. (A)

Poquoson (VA-3)
Burlock, J. (M)

Portsmouth (VA-3)
Bell, J. S., Jr. (SM)
Busby, E. S., Jr. (M)
Butler, W. J. (M)
Corkran, R. L., Jr. (M)
Cox, J. C. (M)
Hobbs, L. A. (A)
Hoffman, G. R. (M)
Howell, J. E., Jr. (M)
Miller, C. L. (A)
Sperry, G. T. (SM)
Titterington, R. J. (A)
Williamson, D. E. (M)

Purcellville (W-DC-3)
Simpson, T. L. (M)

Quantico (W-DC-3)
Webster, M. B. (M)
Williams, M. M. (M)

Quinton (VA-3)
Black, J. H. (A)

Richmond (VA-3)
Bailey, R. C. (SM)
Batte, R. B. (M)
Conte, T. M. (SM)
Dickinson, J. O. (M)
Eubank, R. N. (SM)
Fortna, J. D. E. (M)
Galeski, J. S., Jr. (A)
Golding, R. M. (A)
Gregory, C. A., Jr. (M)
Hobbs, W. E. (M)
Jewell, H. H., Jr. (M)
Kyle, J. W. (M)
Lee, W. M. (M)
Pettus, W. W., IV (M)
Richter, A. R. (M)
Thorpe, R. A. (M)
Toms, E. C. (M)
Vellines, W. E., Jr. (M)
Wilson, R. C., Jr. (M)
Wolfe, I. P. (A)
Woods, D. C. (M)
Wrisley, J. C. (A)
Williams, E. A. (M)

Roanoke (VA-3)
Bailey, F. M. (SM)
Branscom, G. A. (M)
Briggs, J. P. (A)
Guill, G. M., Jr. (A)
Newman, J. E. (A)

Salem (VA-3)
Hill, J. T. (A)
Wheeler, L. P. (F)

Sandston (VA-3)
Rowand, G. E. (A)

South Arlington (W-DC-3)
Thompson, F. J. (M)

South Norfolk (VA-3)
Phipps, W. O., Jr. (A)
Yates, Z. (A)

Springfield (W-DC-3)
Alderson, W. S. (SM)
Baird, L. I. (M)
Bargh, P. F. (M)
Barreto, J. M. (SM)
Bergquist, P. (M)
Blakley, D. H. (M)
Botten, D. L. (A)
Burkhardt, R. H. (M)
Chatfield, G. F. (A)
Coffee, J. M. (M)
Coulter, D. C. (M)
Devereaux, W. J. (M)
Gale, M. (M)
Giesecke, H. (A)
Graim, R. J. (A)
Hamilton, E. E. (M)
Harrison, A. E. (SM)
Johnson, W. C. (M)
Johnston, E. C. (A)
Jones, R. C. (SM)
Keigher, J. P. (M)
Kennedy, W. J. (M)
Keys, C. A. (A)
Klotz, J. W. (M)
Loynd, H. T., Jr. (M)
McAndrews, F. C. (SM)
McCown, J. R. (M)
Parker, C. R. (A)
Peake, F. E., Jr. (M)
Probert, L. J. (A)
Ragsdale, R. G., Jr. (A)
Ramsdale, T. T., Jr. (M)
Rose, J. (M)
Smith, A. W. (M)
Smith, S. T. (SM)
Stansberry, C. L. (A)
Stelter, L. R. (M)
Tucker, W. J., Jr. (M)
Wigington, R. L. (M)
Winter, R. E. (M)
Wright, C. S. (SM)

Sterling (W-DC-3)
Burlingame, C. W. (A)
Richardson, R. M. (A)

Suffolk (VA-3)
Bangley, J. H., Jr. (A)

Triangle (W-DC-3)
McGowan, J. F., Jr. (M)

Vienna (W-DC-3)
Aceto, L. J. (A)
Cooke, N. M. (SM)
Dupree, W. F. (A)
Fairchild, I. J., Jr. (M)
Falcone, J. (M)
Gibbs, D. R. (M)
Gray, W. A. (SM)
Hall, J. N. (SM)
Kaneski, V. J. (M)
Kemp, J. C., Jr. (A)
Mauldin, H. W., Jr. (M)
Meisinger, H. P. (SM)
Minor, R. E. (A)
O'Connor, M. A., Jr. (M)
Poulter, H. M. (M)
Ritt, P. E. (M)
Shumaker, J. L. (SM)
Smith, W. H. (A)
Toler, B. L. (A)
Turnage, H. C. (M)
Webb, P. L. (A)
Wimmer, P. L. (M)

Virginia Beach (VA-3)
Carnes, F. W. (M)
Du Val, C. N. (A)
Fadeley, J. H. (A)
Humphries, J. H. (A)
Toler, E. L., Jr. (A)

Warrenton (W-DC-3)
Gundy, G. L. (A)
Johnson, A. W. (A)
Kowalewski, H. S. (A)
Packert, D. E. (A)
Woodside, C. S. (SM)

Warwick (VA-3)
Andrews, R. E. (M)
Comstock, A. L. (M)
Fuhrmeister, P. F. (M)
Harkavy, V. M. (SM)
McFall, C. H., Jr. (M)
Premo, D. A. (M)
Sivertson, W. E., Jr. (M)
Webb, D. D., Jr. (M)

Waynesboro (VA-3)
Butler, J. W. (A)
Cockrell, W. D. (SM)
Cooper, B. (M)
Curtis, D. D. (A)
Duncan, W. L. (A)
Hansen, W. O. (M)
Harris, J. E. (A)
Klann, P. A. (A)
Landes, H. S. (M)
Palmer, H. L. (M)
Swann, C. H. (M)
Thuresson, R. G. (A)
Torrance, J. W. (M)
Wilson, T. M. (M)
Zaluski, J. P. (M)

Williamsburg (VA-3)
Dutton, A. A. (A)
Seyffer, H. C. (A)
Smith, R. E. (M)

Winchester (VA-3)
Baughman, D. L. (M)
Haines, J. A., Jr. (A)

Woodbridge (W-DC-3)
De Rosa, G. D. (A)
Heasly, C. C., Jr. (M)
Kiblinger, W. H. (M)
Snelling, H. F. (M)

Yorktown (VA-3)
Duran, A. E. (M)

WASHINGTON

Aberdeen (SEA-7)
Walker, J. (A)

Auburn (SEA-7)
Hall, J. W. (A)
Huber, W. (SM)
Lidovitch, S. B. (M)

Bellevue (SEA-7)
Ausec, R. C. (A)
Banks, R. B. (M)
Birch, J. S. (M)
Black, J. C. (M)
Boys, J. A. (SM)
Bush, B. E., Jr. (A)
Chewing, W. H. (A)
Ciccanti, A. D. (M)
Cockrill, M. S. (M)
Crane, W. K. (SM)
Downing, G. (M)
Fairfield, H. R. (A)
Ferguson, R. C. (A)
Fonda, K. A. (M)
Gellert, M. E. (M)
Gibson, G. A. (M)
Gill, C. C. (A)
Goddess, E. D. (SM)
Hamilton, W. R. (M)
Harma, R. G. (M)
Herr, M. D. (M)
Hickey, J. R. (A)
Jones, L. E. (SM)
Kearl, J. A. (A)
Kendall, E. L. (M)
Lane, R. G. (M)
Lerchenmueller, W. (A)
Lindsley, J. C. (M)
Majeau, H. L. (A)
McCarthy, D. W. (A)
Miller, J. J., Jr. (M)
Montgomery, R. A. (M)
Moose, W. A. (A)
Olson, J. H. (M)
Palmer, V. L. (M)
Pigott, W. H. (M)
Reinke, E. E. (M)
Robinson, R. B. (M)
Short, L. E. (M)
Smith, C. R. (SM)
Sullivan, J. K. (M)
Thompson, A. G. (M)
Turko, D. A. (M)
Westburg, V. B. (M)
Wilson, P. F. (A)
Wright, W. E. (M)

Bellingham (SEA-7)
Harper, E. E. (M)
Price, J. W. (M)

Blaine AFB (SEA-7)
Robbins, R. A. (M)

Bothell (SEA-7)
St. John, I. S. (M)
Vermillion, E. E. (M)

Bremerton (SEA-7)
Ball, R. H. (A)
Bean, D. A. (M)
Carlsten, E. E. (M)
Gruwell, F. N. (M)
Heimark, H. A. (A)
Levin, R. J. (A)
Linkletter, R. L. (M)
Lyngstad, E. O. (M)
Mason, J. E. (M)
Milden, C. W. (A)
Nagle, J. I. (M)
Pitts, H. L. (SM)
Thorne, C. M. (M)
Tufts, W. F. (M)

Centralia (SEA-7)
Lippincott, E. W. (M)

College Place (SEA-R-7)
Brown, R. H. (M)

Dash Point (SEA-7)
Boze, J. L. (A)

Deer Harbor (SEA-7)
Tippery, M. W. (M)

Des Moines (SEA-7)
Berntsen, D. G. (A)
Perkins, L. C. (M)

Edmonds (SEA-7)
Grinnell, C. W. (M)
Jones, W. L. (M)

Enumclaw (SEA-7)
Stedman, C. K. (SM)

Everett (SEA-7)
Haugen, E. L. (M)
Powers, C. R. (M)

Fairchild AFB (SEA-R-7)
Clinkinbeard, W. S. (A)

Federal Way (SEA-7)
Hartwell, S. A. (M)

Fort Lewis (SEA-7)
Bogush, A. J., Jr. (A)

Friday Harbor (SEA-7)
Taylor, C. C. (M)

Gig Harbor (SEA-7)
Berkheimer, R. H. (M)
Bice, M. H. (M)

Hadlock (SEA-7)
Paston, R. G. (M)

Hoquiam (SEA-7)
Smading, R. E. (A)

Kennewick (SEA-R-7)
Cannon, T. W. (M)
Hinshaw, R. M. (A)
Rastovich, M. (A)
Ratcliffe, C. A. (M)
Schilling, R. D. (M)
Smith, M. L. (M)
Taylor, G. R. (A)

Kent (SEA-7)
Ashland, R. F. (M)
Heine, W. (M)
Kirkpatrick, R. L. (M)
Miller, G. E. (M)
Nunner, R. J. (M)
Swain, C. W. (M)
Tyras, G. (M)
Yanko, R. J. (A)

Keyport (SEA-7)
Anderson, R. J. (M)

Kirkland (SEA-7)
Bohn, A. L. (M)
Clapp, M. F. (A)
Paschal, S. L. (M)
Sheldon, J. K. (A)
Smith, M. R. (M)
Whipple, M. M. (A)

Lakeside (SEA-7)
Hatch, J. A. (A)

Longview (POR-7)
Collins, E. H. (M)

McChord AFB (SEA-7)
Hill, A. P. (M)

Medina (SEA-7)
Hunt, D. E. (M)

Mercer Island (SEA-7)
Caldwell, R. R. (M)
Fitch, J. L. (A)
Foster, J. H. (A)
Franzel, R. F. (M)
Harris, R. E. (A)
Johansen, K. D. (M)
Kiebutz, R. B. (M)
May, E. L. (M)
Maynard, J. E. (SM)
Porad, B. L. (M)
Pyle, H. S. (SM)
Rosenberry, W. J. (M)
Winder, D. E. (M)

Mineral (SEA-7)
Rowe, V. G. (M)

Moses Lake (SEA-7)
Kowalchik, J. J. (A)
Rivera, E. R. (A)

Mountlake Terrace (SEA-7)
Gallwey, K. L. (M)
Quirk, W. J. (A)

Oak Harbor (SEA-7)
Baker, N. C. (M)

Olympia (SEA-7)
Christensen, A. B. (VA)
Guiberson, M. D. (M)

Onalaska (SEA-7)
Thomas, E. J. (M)

Pasco (SEA-7)
Crumb, D. F. (M)
Driver, G. E. (M)
Gillette, R. D. (M)

Port Angeles (SEA-7)
Keller, N. E. (A)
Niemi, R. I. (A)
Oakes, G. K. (A)
Roberts, V. (A)

Port Blakely (SEA-7)
McCarty, E. W. (M)

Port Townsend (SEA-7)
Grant, J. T. (M)

Pullman (SEA-R-7)
Betts, A. L. (SM)
Craine, L. B. (M)
Dayot, V. D. (M)
Harbour, R. D. (M)
Hower, G. L. (M)

Ravensdale (SEA-7)
Cockrill, W. C. (A)

Renton (SEA-7)
Elfers, P. L. (M)
Hood, L. I. (A)
Hulse, B. T., Jr. (M)
Nelson, J. K. (M)
Wells, R. M. (M)

Richland (SEA-R-7)
Althoff, P. C. (M)
Barcroft, J. R. (M)
Brebrick, R. J. (M)
Brown, D. P. (M)
Cartmell, T. R. (M)
Clark, R. G. (M)
Cone, R. R. (M)
Connally, R. E. (M)
Crosetti, P. A. (M)
Forsberg, J. L. (A)
Frederick, C. L. (M)
Glass, C. E. (A)
Harvey, R. A. (M)
Iverson, N. A. (M)
Klingler, G. R. (M)
Libby, H. L. (M)
McClung, W. E. (A)
Pleasance, C. L. (M)
Rising, F. L. (M)
Simsen, C. A. (M)
Spear, W. G. (M)
Waldkoetter, G. L. (A)
Wood, E. C. (M)
Wood, M. R., Jr. (M)
Zeitler, G. A. (M)

Seattle (SEA-7)
Aburano, P. F. (M)
Andermann, A. (M)
Appleford, L. R. (M)
Arlowe, H. H. (SM)
Armstrong, C. W. (M)
Aspholm, L. R. (M)
Bach, R. O. (SM)
Baker, J. C. (A)
Barger, S. D. (A)
Bark, R. S. (M)
Baumgartner, D. L. (M
Beals, E. L. (A)
Beauchamp, F. A. (A)
Behrens, R. G. (M)
Beich, F. R. (M)
Belenski, J. D. (M)
Bergseth, F. R. (M)
Berzin, J. G. (M)
Biggs, J. D., Jr. (SM)
Billingsley, J. D. (M)
Bird, F. W. (A)
Bishop, D. J. (M)
Bjorkman, F. D. (M)
Bjorkstam, J. L. (A)
Blanchard, D. I. (A)
Bland, J. G. (A)
Bloomfield, J. A. (M)
Boileau, O. C., Jr. (M)
Bradburn, W. C. (M)
Brock, R. L. (M)
Brudwig, A. H. (M)
Brune, F. A. (M)
Bull, W. A. (SM)
Bushman, F. W. (M)
Bystrom, A., Jr. (A)
Carlyle, J. W. (M)
Carman, D. M. (M)
Cary, J. W., III (A)
Cavanaugh, J. T. (A)
Chaba, P. (M)
Chamberlin, W. C. (M)
Chamberlin, W. C. (M)
Chase, R. F. (M)
Clark, L. G. (A)
Clark, R. N. (M)
Colmar, P. V. (SM)
Consego, B. J. (M)
Cooley, W. W. (A)
Corpus, A. R. (M)
Coughlan, G. B. (A)
Coyne, K. M. (A)
Craig, D. I. (A)
Currie, W. E. (M)
Curtis, W. L. (M)
Dalby, T. G. (M)
Davies, W. R. (A)
Decker, D. A. (M)
Dempsey, J. P. (M)
Dennis, D. L. (A)
Dorband, A. E. (M)
Dorwart, R. J. (M)
Duncan, J. A. (M)
Duryee, P. A. (A)
Duvall, L. L. (M)
Early, E. W. (M)
Eastman, A. V. (F)
Ebken, A. F., Jr. (M)
Eckton, W. H., Jr. (M)
Eisenbach, M. E. (A)
Ellerbeck, K. H. (M)
Embree, R. R. (A)
Engstrom, D. E. (A)
Erwin, E. V. (M)
Erwin, R. L. (M)
Erwood, R. G. (M)
Esson, R. C. (A)
Evenson, H. J. (M)
Fancher, V. M. (M)
Fantin, P. J. (M)
Fargo, R. J. (M)
Farris, W. E. (M)
Feldstein, S. (A)
Ferguson, R. E. (M)
Fisher, R. C. (SM)
Flagler, R. H. (M)
Flint, D. C. (M)
Fluke, J. M. (M)
Follis, G. R. (A)
Foss, R. N. (M)
Foster, N. H. (SM)
Friedland, R. J. (M)
Froeschle, E. J., Jr. (M)
Galloway, W. C. (SM)
Gee, H. P. S. (M)
Gelbach, H. R. (M)
Gilbert, D. M. (A)
Gilbertson, S. R. (M)
Glaser, R. A. (M)
Goldberg, P. A. (M)
Goldhaber, J. C. (M)
Gray, C. T. (M)
Graybeal, J. (A)
Green, E. H. (A)
Gunby, G. C. (M)
Guy, A. W. (M)
Halstead, F. H., Jr. (M)
Hammer, E. D. (M)
Hannon, D. L. (M)
Hansen, W. P., Jr. (A)
Harrison, A. E. (F)
Harrold, W. T. (SM)
Hasserdjian, G. K. (M)
Hatfield, J. B. (M)
Havens, J. D. (A)
Hayashi, M. (A)
Healy, T. J. (M)
Hedberg, R. W. (M)
Heindsmann, T. E. (SM)
Heinzinger, J. P. (A)
Held, G. (A)
Herbert, E. C. (M)
Hermanson, K. P. (A)
Hill, W. R., Jr. (SM)
Hoard, G. L. (SM)
Hoard, R. F. (M)
Hobbs, G. H. (M)
Hoglund, R. H. (SM)
Hokenson, H. S. (M)
Holman, F. S. (A)
Horn, H. T. (M)
Hove, R. G. (M)
Hughes, V. C. (M)
Huie, W. (M)
Ikstrums, I. (M)
Illman, R. W. (M)
Ingman, J. F. (M)
Janes, H. P., Jr. (M)
Johnson, J. F. (SM)
Johnson, K. L. (M)
Johnson, W. A. (A)
Jones, B. J. (A)
Jones, E. A. (A)
Judson, H. H., Jr. (M)
Kalviste, A. (A)
Kaminoff, M. (M)
Katayama, T. T. (A)
Kellar, J. B. (A)
Kilbrith, D. W. (A)
Kimbark, E. W. (M)
Kindall, E. W. (A)
Kiskaddon, W. V. (M)
Kohl, P. H. (A)
Kostrey, M. J. (A)
Kuzeja, C. (M)
Larson, L. A. (A)
Leader, R. E. (A)
Ledray, W. (M)
Lehtone, L. L. (A)
Lennstrom, C. O. (A)
Leonard, P. W. (A)
Leonard, W. E. (M)
Lewis, L. J. (SM)
Libby, T. M. (F)
Lillie, W. A. (A)
Lind, P. C. (A)
Linder, W. J. (M)
Litot, P. A. (A)
Louie, C. H. (A)
Lucey, W. E. (M)
Lundberg, R. M. (A)
Maxwell, R. L. (M)
McGuire, C. B. (A)
McIvor, B. H. (M)
McIlroy, F. W. (A)
McKay, W. M. (M)
McKenna, B. D. (A)
McPherson, E. L. (M)
McPherson, J. J. (M)
McRae, J. C. (M)
Mears, R. J. (M)
Meerdink, K. J. (M)
Metter, R. E. (M)
Michelsen, P. W. (A)
Miller, C. E. (A)
Miller, D. J. (A)
Mitchell, G. W. (A)
Morris, C. R. (M)
Moses, H. L. (A)
Mossman, F. B. (SM)
Murray, J. M. (A)
Murray, W. A. (A)
Nation, A. W. C. (A)
Neal, E. T. (A)
Neal, T. (M)
Nelson, C. B. (M)
Nelson, N. P. (M)
Nelson, R. H. (M)
Newman, S. M. (M)
Nichols, W. R. (SM)
Nolan, J. L. (M)
Noland, L. J. (M)
Numrich, H. J. (A)
Nutting, D. C. (M)
Ogasawara, T. B. (M)
Olson, B. V. (M)
Olson, D. L. (A)
Olson, D. S. (A)
Olson, N. K. (M)
Omoth, M. J. (M)
Ostrom, C. W. (M)
Paisley, M. R. (M)
Parks, H. F. (SM)
Parr, E. D. (A)
Parris, J. A. (M)
Parrott, J. E. (M)
Pascual, R. W. (A)
Paterson, J. M. (M)
Payne, R. S. (A)
Pearson, R. E. (A)
Pedersen, R. E. (M)
Peedo, E. (M)
Perry, F. E. (M)
Perry, R. E. (M)
Peterson, L. A. (A)
Petrich, R. O. (M)
Peyton, E. E. (M)
Pierce, W. E. (SM)
Piltz, F. (A)
Polcuch, A. F. G. (M)
Poppe, R. F., Jr. (M)
Porter, B. C. (A)
Post, M. O. (A)
Powell, J. W. (M)
Powell, J. R. (A)
Pratt, L. M. (M)
Pyper, T. L. (A)
Quantz, R. G. (A)
Randall, H. L. (M)
Renfro, H. E. (VA)
Reynolds, D. K. (SM)
Ritchey, O. W. (M)
Robbins, F. D. (A)
Roberts, B. J. (M)
Rogers, W. E. (SM)
Ruck, G. T. (A)
Salzer, J. E. (A)
Sander, C. M. R. (A)
Sauber, P. T. (A)
Schaper, E. (M)
Schmidt, C. (A)
Scidmore, D. L. (M)
Scott, C. V. (A)
Scott, R. P. (M)
Scovill, J. M. (M)
Sharp, B. M. (M)
Sheppard, J. J., Jr. (M)
Shipek, R. H. (M)
Shirrod, R. L. (A)
Shook, W. A. (A)
Siddons, W. J. (M)
Sigelmann, R. A. (A)
Simons, R. J. (M)
Sippach, H. G. (M)
Siverts, R. D. (A)
Skahill, B. J., Jr. (A)
Small, R. E. (A)
Smith, A. E. (M)
Smith, K. C. (M)
Smith, L. J. (M)
Snyder, P. O. (A)
Sowa, C. P. (M)
Stampalia, I. J., Jr. (M)
Stapleton, E. R. (M)
Stefanowicz, M. R. (A)
Strauss, B. (M)
Strohecker, J. P. (M)
Sutherland, L. C. (M)
Swarm, H. M. (SM)
Swisher, B. F. (A)
Talcott, M. S. (M)
Tate, J. A. (SM)
Ten Zeldam, H. J. (A)
Thomas, T. M. (M)
Thomasson, L. T. (M)
Thompson, K. J. (M)
Tighe, R. F. (A)
Todaro, C. N. (M)
Todd, H. C. (A)
Tolmie, J. R. (F)
Traub, L. A. (M)
Turner, R. L., Jr. (A)
Vassilakos, D. A. (M)
Voss, J. M. (A)
Wagner, W. J. (SM)
Walker, R. T. (M)
Wall, R. E., Jr. (M)
Wallace, J. E. (M)
Warshawsky, J. (A)
Weiland, W. A. (M)
Weinstein, G. (M)
Williams, C. E. (F)
Williams, G. H. (A)
Williams, H. A. (M)
Williams, T. G. (M)
Willson, A. R. (SM)
Winward, K. B. (A)
Wisner, R. M. (SM)
Wood, F. P. (M)
Wood, S. P. (M)
Woodbury, J. W. (M)
Woodhouse, G. H. (A)
Wright, C. P. (M)
Wright, J. M. (M)
Yamauchi, T. T. (M)
Yoshinaka, K. (M)

Snohomish (SEA-7)
Sterley, R. R. (M)

Spokane (SEA-R-7)
Brookman, C. F., Jr. (A)
Burnette, W. D. C. (A)
Caruana, P. A. (A)
Coates, F. M. (M)
Gorman, D. P. (M)
Green, D. I. (M)
Green, W. L. (M)
Handy, K. D. (M)
Hunsuck, J. D. (M)
Klise, K. W. (M)
Mac Lean, T. W. (M)
Mead, H. W. (M)
Ruskin, D. A. (M)
Storms, H. H. (VA)
Stover, R. F. (M)
Switzer, W. H. (A)
Trebby, F. J. (M)
Van Gelder, R. B. (M)
Visser, A., Jr. (A)

Steilacoom (SEA-7)
Self, G. L. (M)
Witherspoon, J. T. (M)

Sumner (SEA-7)
Breakey, E. P. (M)

Tacoma (SEA-7)
Backman, J. A. (A)
Johnson, B. F. (M)
Mann, J. W. (A)
McClamrock, J. M. (M)
McDonough, D. M. (SM)
Morrill, D. W. (A)
Perkins, M. G. (M)
Simmons, A. T. (M)

Tumwater (SEA-7)
Nielsen, R. G. (M)

Vancouver (POR-7)
Bauer, W. D. (A)
Curtis, A. F. (M)
Murdock, M. J. (M)
Roesler, R. W. (M)
Wohlgemuth, D. G. (A)

Vashon (SEA-7)
Williams, K., Jr. (M)

Vashon Island (SEA-7)
Caproni, G. A. (A)

Walla Walla (SEA-R-7)
Parmelee, W. G. (M)
Wilken, B. W. (A)

Wenatchee (SEA-7)
Wallace, J. (SM)

Whidbey Island (SEA-7)
Crandall, W. R. (M)
Loeffler, T. F. (M)

Winslow (SEA-7)
Waterman, H. B. (M)

Yakima (SEA-7)
Forgey, J. A. (A)
Manetsch, T. J. (A)
Munger, R. E. (A)
Root, M. W. (M)
Watkinson, J. B. (M)

Zenith (SEA-7)
Friddell, H. G. (M)

WEST VIRGINIA

Beckley (PIT-4)
Tolos, G. (M)

Bluefield (PIT-4)
Hammer, A. C. (A)

Charleston (PIT-4)
Booth, D. L. (M)
Brick, G. R. (A)
Brown, T. M. (A)
Dixon, W. E. (SM)
Drury, G. R. (A)
Helgeson, G. T. (A)
Johnson, E. M. (SM)
Kish, F. (A)
Wolford, J. E. (A)
York, D. E. (A)

Charles Town (W-DC-3)
Stone, S. H., Jr. (A)

Clarksburg (PIT-4)
Hough, R. D. (M)

Core (PIT-4)
Tennant, H. R. (M)

Cowen (PIT-4)
Frame, R. H. (A)

Dunbar (PIT-4)
Mitchell, S. E. (A)

Glen Dale (PIT-4)
Showalter, G. L. (M)

Green Bank (PIT-4)
Findlay, J. W. (SM)

Huntington (PIT-4)
Bromley, R. A. (A)
Clay, J. P. (M)
Hawes, J. G. (M)
Kilpatrick, L. E. (SM)
Marshall, D. F. (A)
Miller, R. M. (A)
Roberts, V. B. (A)
Tanner, J. E. (M)

Martinsburg (W-DC-3)
Boland, E. J. (SM)
Reynolds, T. G., Jr. (A)

Middlebourne (PIT-4)
Nichols, G. C. (A)

Morgantown (PIT-4)
Barbe, E. C. (M)
Colwell, R. C. (SM)
Jones, E. C., Jr. (A)
Seibert, C. B. (M)
Smith, N. S., Jr. (M)
Williams, S. D. (A)

Moundsville (PIT-4)
Apostolakis, G. C. (M)
Jones, J. W. (M)
Rulong, C. P. (M)

New Martinsville (PIT-4)
Shepherd, W. P. (M)

Nitro (PIT-4)
Rogers, L. J. (M)

Oak Hill (PIT-4)
Thomas, R. R., Jr. (M)

Ona (PIT-4)
Pitts, M. J. (A)

Parkersburg (PIT-4)
Mergy, A. E. (A)
Spence, R. C. (A)

Pullman (PIT-4)
Nay, J. N. (M)

Ravenswood (PIT-4)
Ellison, B. P. (M)

St. Albans (PIT-4)
Counts, D. C. (A)

Fertig, R. B. (M)
Jones, W. E. (M)

St. George (PIT-4)
Goff, J. D. (M)

South Charleston (PIT-4)
Johnson, H. L. (A)
Thompson, W. R. (M)

Weirton (PIT-4)
Mellis, J. G. (A)

Weston (PIT-4)
Clark, R. G (A)

Wheeling (PIT-4)
Ackermann, M. E. (A)
Levenson, D. W. (M)
Rollins, E. A. (A)
Snead, W. K. (A)
Winslow, R. B. (A)

White Sulphur Springs (PIT-4)
Ballard, R. L. (A)

WISCONSIN

Antigo (TC-5)
Parfitt, R. J. (M)

Appleton (MIL-5)
Schmidt, R. F. (A)

Boscobel (MIL-5)
Boebel, L. A. (A)

Brookfield (MIL-5)
Bischoff, A. F. H. (SM)
Brandt, H. F. (A)
Eisele, E. J. (A)
Kaedorf, G. R. (M)
Lindemann, A. W. (M)
Luna, A. H. (M)
Morin, D. C., Jr. (M)
Ribbens, W. F. (M)
Woods, K. C. (A)

Burlington (MIL-5)
Holmbeck, J. D. (A)

Butler (MIL-5)
Budy, J. J. (A)
Hernday, R. H. (M)
Kaetel, H. C. (M)
Kuckuck, C. L. (A)

Canton (TC-5)
Kendzior, G. A. (A)

Cudahy (MIL-5)
Clinkenbeard, C. R. (A)
Patrick, P. J. (A)

Delafield (MIL-5)
Leary, R. W. (M)

Eau Claire (TC-5)
Jorgenson, T. O. (M)

Elkhorn (MIL-5)
Cape, H. J. (A)

Elm Grove (MIL-5)
Bailey, T. J. (A)
Evans, J. A. (M)

Fond du Lac (MIL-5)
Jensen, K. S. (SM)
Miller, D. H. (M)

Fort Atkinson (MIL-5)
Anthes, J. (A)

Fox Point (MIL-5)
Howard, J. R. (M)

Grafton (MIL-5)
Konig, V. A. Y. (A)
Rubenstein, H. W. (M)

Greendale (MIL-5)
Gillett, R. L., Jr. (M)
Tait, R. B. (M)

Hales Corners (MIL-5)
Des Lauriers, E. D. (A)
Jacobs, J. E. (M)
Stone, D. W. (M)

Hartland (MIL-5)
Harry, W. R. (VA)
Kailing, A. F. (M)
Keast, D. E. (A)

Janesville (MIL-5)
Brandt, R. W. (SM)
Burner, L. C. (A)
Gates, C. E. (M)
Glander, H. H. (M)
Pollard, W. J. (M)
Weckwerth, H. A. (M)
Williams, C. R. (M)
Ziehlke, R. J. (A)

Kenosha (CHI-5)
Bart, S. (M)
Heide, S. M. (A)
Krause, R. E. (M)
Neumann, H. J. (M)
Osterlund, S. G. S. (M)
Reich, E. A. (M)
Thiel, W. (A)

King (TC-5)
Danielsen, A. C. (M)

La Crosse (TC-5)
Leeman, A. (M)

Lake Nebagamon (TC-5)
Caspers, G. E., Jr. (M)

Madison (MIL-5)
Asmuth, J. L. (M)
Becker, C. H. (M)
Bergman, R. E. (A)
Davidson, C. H. (M)
Emerson, R. E. (M)
Falk, W. R. (M)
Gilson, W. E. (SM)
Greer, W. M. (A)
Greiner, R. A. (M)
Gritzmacher, D. E. (M)
Groenier, R. S. (M)
Hahn, N. G. (M)
Harlu, W. R. (M)
Haxby, R. O. (SM)
Hill, R. F. (M)
Ishii, K. (M)
Kelley, W. V. (VA)
Koehler, G. (F)
Lind, E. R. (M)
Mack, H. A. (A)
McGilvra, G. E. (M)
Noble, D. S. (A)
Ottum, R. W. (A)
Parent, R. J. (M)
Peterson, H. A. (SM)
Reitan, D. K. (SM)
Rekoff, M. G., Jr. (A)
Retherford, R. C. (M)
Rideout, V. C. (SM)
Rusch, P. H. (M)
Sabroff, R. R. (M)
Sadler, L. S. (M)
Scheibe, E. H. (SM)
Scidmore, A. K. (M)
Scott, T. M. (A)
Skiles, J. J. (M)
Stephan, R. R. (A)
Uhrig, A. F. (A)
Van Bladel, J. G. (SM)
Vanko, J. A. (A)
Wable, G. E. (A)
Wickhem, R. J. (A)
Young, C. E. (A)

Manitowoc (MIL-5)
Heinzen, R. A. (M)

Mauston (MIL-5)
Onsager, R. W. (M)

McFarland (MIL-5)
Pierce, R. L. (M)

Menasha (MIL-5)
Angermeyer, W. A. (A)

Menomonee Falls (MIL-5)
Van Alstyne, A. (M)
Gudenschwager, P. F. (M)
Luecke, M. W. (A)
Ruff, H. M. (A)

Merrill (TC-5)
Bartelt, C. H. (M)

Middleton (MIL-5)
Miller, J. B. (M)

Milton (MIL-5)
Harris, R. J. T. (M)
Haugen, M. G. (M)

Milwaukee (MIL-5)
Abbasi, A. (A)
Alderson, A. E. (M)
Alpert, W. I. (M)
Ammon, G. M. (A)
Appleman, C. G. (M)
Armstrong, J. F. (A)
Atwood, A. R. (A)
Baird, J. T. (M)
Barnum, T. G. (A)
Barrett, R. O. (M)
Bartol, T. J. (A)
Baumeister, E. A. (M)
Beaudoin, L. W. (A)
Bernstein, S. (SM)
Biwer, M. M. (M)
Bores, J. W. (M)
Boutelle, J. O. (A)
Bovich, E. J. (A)
Boyd, B. (M)
Budny, B. R. (M)
Burkhalter, B. L. (A)
Butler, L. W. (M)
Calhoun, M. C. (A)
Camell, D. M. (A)
Carlson, A. W. (M)
Cooke, E. R. (A)
Cordes, E. L. (M)
Cork, H. A. (M)
Cottle, H. O. (A)
Croteau, E. M. (M)
Das Gupta, A. K. (A)
De Block, E. T. (A)
Deisinger, J. J. (M)
Dippold, W. J. (A)
Dobnick, O. X. (A)
Doyen, R. G. (A)
Doylen, D. H. (M)
Du Bose, T. I. (M)
Duan, J. V. (M)
Durand, E. L. (M)
Eckert, F. A., Jr. (VA)
Eckl, J. J. (M)
Edwards, M. A. (F)
Ehlers, G. M. (SM)
Elliot, W. H. (M)
Erb, J. J. (A)
Erickson, H. L. (M)
Evans, R. E. (M)
Farber, E. R. (M)
Fink, L. R. (F)
Fisher, R. D. (A)
Flood, F. F. (A)
Frankos, D. T. (M)
Fritz, E. W. (A)
Gabriele, T. C. (M)
Gainer, W. P. (M)
Ganiere, H. C. (M)
Garstang, W. W. (SM)
Gebhard, R. F. (A)
Geiger, L. C. (M)
Gessner, U. (A)
Gibson, W. R. (A)
Goldsman, J. L. (M)
Goodman, P. H. (A)
Graham, J. D. (A)
Haertel, D. G. (M)
Hebal, W. H. (M)
Helgeson, V. L. (M)
Hetchler, L. F. (M)
Hogan, H. A. (M)
Horvath, A. E. (M)
Jacobi, T. (M)
James, R. A. (A)
Januss, J. S. (A)
Jensen, M. W. (A)
Johnson, G. A. (M)
Kaiser, E. H. (A)
Kasprzak, T. L. (M)
Kelly, D. S. W. (SM)
Kelly, D. V. (M)
Keppert, G. D. (M)
Khouri, A. S. (M)
Kilby, J. S. (M)
Kile, F. O., Jr. (M)
Kilimann, D. R. (M)
Knopow, H. S. (A)
Koeppl, G. R., Jr. (A)
Kokali, F. P. (M)
Krug, R. E. (A)
Kunde, P. J. G. (A)
Laeser, P. B. (M)
Landin, D. R. (A)
Lawlor, K. A. (M)
Leavitt, R. F. (A)
Lecus, C. M. (A)
Lehman, D. R. (A)
Limpel, E. J. (M)
Lofy, F. J. (M)
Lyon, T. I. (M)
Maklary, J. R. (A)
Makowski, J. J. (M)
Malmleaf, W. R. (M)
Matthews, R. B. (M)
Matthias, L. H. (M)
McCarter, O. T. (A)
McCarthy, R. R. (A)
McMillin, G. L. (A)
Mederer, S. J. (M)
Mereen, D. E. (M)
Merrill, H. S., Jr. (M)
Mezger, J. P. (A)
Michaels, E. J. (M)
Michalak, E. M. (A)
Miotke, T. F. (M)
Monleone, J. (M)
Mrazek, D. A. (A)
Mundschau, M. J. (M)
Myszewski, G. L. (M)
Naughton, G. J. (VA)
Neitzke, G. G. (A)
Norman, O. A. (M)
O'Connor, G. P. (A)
O'Keefe, W. D. (M)
Ollenburg, M. A. (A)
Olson, R. C. (A)
Onstad, P. R. (M)
Pare, T. J. (A)
Pfeifer, J. W. (VA)
Phillips, R. A. (M)
Plehn, A. D. (M)
Pooler, E. I. (A)
Popp, R. J. (A)
Pozorski, J. J. (M)
Quam, D. L. (A)
Queever, L. (M)
Rand, K. A. (A)
Regis, R. J. (M)
Richardson, M. S. (M)
Richter, W. (F)
Ricketts, J. B., Jr. (A)
Rodewald, M. V. (M)
Rosin, R. J. (A)
Rynning, A. (M)
Saari, L. V. (M)
Sackett, R. W. (A)
Sauerland, F. (M)
Schaack, R. J. (A)
Schaffer, J. E. (A)
Schimmel, K. J. (A)
Schlaefer, B. J. (M)
Schlager, K. J. (A)
Schlageter, G. A. (M)
Schlehlein, G. J. (A)
Schleicher, F. (M)
Schlicke, H. M. (SM)
Schumacher, P. J., Jr. (M)
Schutten, H. P. (M)
Schwartz, J. R. (M)
Seiy, M. E. (SM)
Sherwood, E. T. (SM)
Sill, F. J. (A)
Sitzwohl, J. F., Jr. (M)
Smith, C. C. (M)
Smith, O. H. (M)
Snowdon, A. C. (M)
Spaeth, C. A. (A)
Sparacino, B. J. (A)
Sperber, D. J. (A)
Starzec, F. J. (M)
Stefancic, K. (M)
Steffen, R. V. (A)
Stevenson, D. L. (A)
Striegel, M. E. (A)
St. John, J. D. (M)
Stumpf, H. W. (M)
Sutinen, C. P. (SM)
Swift, W. B. (M)
Talbot, V. R. (M)
Taus, H. G. (M)
Taylor, F. H. (M)
Theiss, C. M. (A)
Tschantz, L. G. (A)
Tyson, H. B. (A)
Van Zeeland, F. J. (SM)
Vebber, W. O. (M)
Veerkamp, N. B. (M)
Wagner, W. O. (M)
Wahlig, R. L. (M)
Wasserman, F. N. (A)
Weigel, E. (M)
Weingarten, R. (M)
Weitermann, B. R. (A)
Weller, D. A. (SM)
West, B. M. (M)
Wiesen, D. W. (M)
Wille, E. A. (M)
Williams, C. L. (M)
Williams, M. E. (M)
Williams, S. B. (M)
Wirth, M. T. (M)
Wittke, R. F. (A)
Woelfer, R. M. (A)
Wolff, R. L. (M)
Wolniakowski, L. L. (A)
Wullimas, J. C. (A)
Young, R. E. (A)
Zacher, G. E. (A)
Zoesch, A. C. (A)
Zolin, F. H. (A)
Zwarra, H. J. (M)

Minocqua (TC-5)
Martin, H. T. (A)

Mosinee (TC-5)
Grambach, R. J. (M)

Mukwonago (MIL-5)
Brown, H. W. (A)

Ocanto (TC-5)
De Witt, C. P. (M)

Osceola (TC-5)
Wils, J. P. (A)

Oshkosh (MIL-5)
Williams, N. (M)

Peshtigo (TC-5)
MacLaughlin, D. C. (A)

Pewaukee (MIL-5)
Master, W. R. (M)

Racine (MIL-5)
Arcand, R. T. (M)
Berkovec, J. W. (A)
Briedis, G. (A)
Due, R. C. (A)
Hill, R. G. (A)
Johnson, W. H. (M)
Kohner, M. (SM)
MacDowell, G. E. (A)
Rogers, N. A. (A)
Salvat, R. F. (M)
Slater, O. C. (A)
Zelaso, N. K. (SM)

St. Francis (MIL-5)
Howell, J. F. (M)

Saukville (MIL-5)
Nunn, E. D. (M)

Sheboygan (MIL-5)
Mayer, H. J. (M)

South Milwaukee (MIL-5)
Zahn, P. E. (M)

Superior (TC-5)
Peterson, R. G. (M)

Thiensville (MIL-5)
Runft, A. J. (A)
Sielicki, A. J. (M)

Tomahawk (TC-5)
McGinnis, H. J. (M)

Truax Field (MIL-5)
Winbigler, W. K. (M)

Union Grove (MIL-5)
Harris, J. H. (M)

Waterford (MIL-5)
Swain, A. T. (M)

Watertown (MIL-5)
Westphal, F. C. (M)

Waukesha (MIL-5)
Cummings, H. R. (M)
Koenig, E. C. (M)
Randall, A. E. (M)

Wausau (TC-5)
Burns, S. S. (M)
Dietmeyer, D. L. (M)
Zielesch, B. E. (M)

Wauwatosa (MIL-5)
Bailey, J. E. (M)
Hawley, D. E. (M)
Jarchow, T. A. (M)
Kelley, J. P. (M)
Lucas, A. C. (M)
Pinnow, R. L. (M)
Schuppner, H. W. (M)
Schwartz, E. B. (SM)
Torkildsen, R. A. (M)
Wollaeger, L. A. (A)

West Allis (MIL-5)
Houle, T. H. (A)
Nass, E. H. (A)
Paalu, A. (M)
Reinke, H. J. (M)
Taylor, E. D. (A)

West DePere (MIL-5)
Stangel, W. (M)

Whitewater (MIL-5)
Bumbalek, J. E. (A)

Wittenberg (TC-5)
Gjermundson, G. J. (M)

WYOMING

Casper (DEN-6)
Bruce, J. I. (M)
Fagerstone, D. V. (A)
Hathaway, D. L. (SM)
Young, W. R. (M)

Cheyenne (DEN-6)
Cole, H. L. (M)
Grove, W. C. (M)
Hollen, E. (M)
Maness, D. H. (M)
Nakano, O. (A)
Shelton, J. T. (M)
Gillette (DEN-6)
Henry, J. C. (A)

Laramie (DEN-6)
Crissman, P. C. (A)
Long, F. M. (A)
Lonsdale, E. M. (SM)

Newcastle (DEN-6)
Rinehart, B. H. (VA)

Riverton (DEN-6)
Anderson, F. C. (M)

Rock Springs (DEN-6)
Obenchain, T. I. (A)

Sheridan (DEN-6)
Stanton, J. M. (M)

OVERSEAS MILITARY

APO New York
Allen, P. S. (M)
Alley, J. W. (M)
Andrews, G. B. (M)
Aulbach, C. E. (A)
Austin, J. B., Jr. (M)
Bailey, J. E. (M)
Ball, J. A. (M)
Batson, J. A. (A)
Beard, E. M. (A)
Bell, J. W. (A)
Benson, B. C. (M)
Best, F. G. (M)
Betts, J. F. (M)
Bills, A. E. (M)
Black, K. C. (F)
Blinn, W. J. (M)
Boatright, B. C. (M)
Boehm, W. R. (SM)
Borsody, B. F. (SM)
Bowler, J. A. (M)
Brigham, J. C. (M)
Britto, J. D. (M)
Brumbaugh, G. M., Jr. (A)
Bruton, H. C. (SM)
Bryan, W. L. (M)
Buxbaum, S. J. (A)
Carter, S. P. (M)
Cattermole, G. B. (M)
Chapman, G. H. (M)
Chatfield, M. B. (SM)
Childs, A. W. (A)
Clothier, E. L. (A)
Cook, D. E. (M)
Corey, J. F. (A)
Corless, R. L. (M)
Coss, W. L. (M)
Cranshaw, R. J., Jr. (A)
Crossman, C. R. (A)
Curtis, R. W. (SM)
Decker, B. J. (A)
Delgado, R. (A)
Dickson, G. S. (M)
Dickson, J. F. (M)
Dillow, J. C. (M)
Dixon, L. F. (A)
Dixon, T. O. (SM)
Dolle, W. C. (A)
Doyle, W. T. (M)
Drzewicki, D. D. (A)
Dudley, A. L. (M)
Early, C. D., Jr. (M)
Easley, W. A., Jr. (A)
Edson, M. C., Jr. (A)
Enslen, G. E. (A)
Epperly, W. F., Jr. (M)
Favre, R. M., Jr. (M)
Fisher, J. E. (A)
Fliss, A. D. (M)
Fuchs, M. J. (M)
Gallup, G. B. (A)
Gardiner, R. S. (M)
Garee, J. A., Jr. (M)
Geer, D. A. (A)
Gipple, H. W. (M)
Glenn, A. J. (M)
Goen, O. F. (SM)
Gorton, R. M. (M)
Goss, J. (A)
Gotschall, W. O. (M)
Greene, A. N. (M)
Grossman, H. W. (M)
Grover, R. C. (M)
Gruenthal, F. W. (A)
Guidi, W. R. (M)
Haas, H. P. (A)
Hager, D. N. (A)
Hall, W. W., Jr. (M)
Hanrahan, J. A. (M)
Harger, R. O. (M)
Hart, W. M., Jr. (A)
Haulbosky, W. B. (A)
Haycock, A., Jr. (A)
Henneke, J. T. (A)
Hessel, J. (F)
Hilbun, J. M. (M)
Hoover, R. E. (A)
Houghton, E. G. (SM)
Houser, C. R. (A)
Howe, E. R., Jr. (A)
Hudson, G. W. (M)
Inafuku, R. H. (M)
Jankowski, J. A. (M)
Jarvis, A. B. (M)
Johnson, C. D. (A)
Johnson, C. W. (M)
Johnston, H. C. (SM)
Jones, C. M. (M)
Joyce, R. E. (A)
Kampe, E. A. (M)
Karagiorgis, N. D. (A)
King, F. N. (M)
Kofler, E. J. (M)
Kost, M. (A)
Kritter, E. L. (M)
Krupinski, J. A. (A)
Lairmore, G. E. (A)
Leonard, W. L. (A)
Loftus, W. E. (A)
Lovitt, S. A. (A)
Looser, J. A. (A)
Luchi, R. D. (M)
Madsen, J. F. (M)

Manley, T. M. (M)
Martin, A. J. (A)
Marts, M. P. (M)
Mayo, J. J., Jr. (M)
McCluskey, P. M. (M)
McKim, W. J. G. (M)
McLeod, M. G. (M)
McNeill, J. F., Jr. (M)
McPadden, G. E. (M)
Michels, R. E. (A)
Miller, C. M. (M)
Mills, B. E. (SM)
Miranda, R. T. (A)
Moore, J. E. (A)
Moreno, M. R. (M)
Morris, W. P. (M)
Moynahan, G. F., Jr. (SM)
Mull, C. L. (M)
Nelson, C. W., Jr. (M)
Obinger, G. H., Jr. (A)
O'Keefe, W. C. (A)
Olson, D. B. (A)
Olson, R. C. (M)
Ostlund, G. L. (A)
Ottensmeyer, R. M. (M)
Oxholm, J. M. (A)
Pansch, H. J. (A)
Paradis, K. A. (A)
Parrott, J. H., Jr. (M)
Parsons, H. A. (A)
Peacock, W. M., Jr. (M)
Peterson, J. W. (A)
Phillips, L. D. (M)
Phillips, S. C. (M)
Plame, S. Jr. (SM)
Polgar, M. S., Jr. (M)
Porter, F. A. (M)
Pontus, A. M. (M)
Prohofsky, L. A. (M)
Quintal, R. J. (A)
Rearick, H. F. (M)
Rein, W. W. (A)
Richardson, H. W. (M)
Rish, J. F. (M)
Robinson, W. C. (M)
Rooney, J. D. (M)
Rougelot, R. S. (M)
Rowe, H. A. (M)
Rowe, J. J. (A)
Rowland, M. O. (M)
Roy, L. B. (M)
Rymer, R. W. (M)
Salamy, A. E. (M)
Saxton, R. C. (A)
Schauers, C. J. (M)
Schreyer, F. J. (M)
Schumacher, G. B. (A)
Scott, G. C. (M)
Sengel, P. A. (VA)
Shapiro, L. D. (M)
Sheridan, W. R. (M)
Shey, P. F. (M)
Siler, M., Jr. (M)
Silva, B. (A)
Silva, R. F. (M)
Sloman, F. A. (A)
Smith, D. W. M. (A)
Smith, R. A. (M)
Smulin, R. (A)
Snook, R. R. (A)
Snyder, G. H. (M)
Snyder, N. (SM)
Sommer, J. G., Jr. (M)
Sorenson, G. P. (A)
Stangl, F. P. (SM)
Stoddard, C. W. (M)
Stoker, R. R., Jr. (M)
Strate, K. E. (M)
Strohmeyer, G. R. (M)
Stroman, C. F. (M)
Sugimoto, J. Y. (M)
Swatek, P. W. (A)
Taucer, C. W. (M)
Timmerman, F. (SM)
Turner, L. D. (A)
Turner, T. B. (M)
Tylka, J., Jr. (A)
Van Cott, J. M. (M)
Van Note, R. P. (M)
Warner, A. H. (SM)
Warner, E. R. R. (M)
Watlington, F. W. (M)
Watts, G. J. (A)
Weddell, D. G. (A)
Wellman, P. H., Jr. (M)
Westman, H. E. (M)
Whitehurst, W. R. (M)
Whiteman, S. E. (A)
Williams, H. C. (A)
Williams, L. D. (A)
Willis, H. W. (SM)
Wilson, W. W. (M)
Windsor, R. N. (A)
Winner, D. R. (M)
Woodward, W. E. (M)
Wright, R. K. (A)
York, A. (A)
Zunich, M. (A)
Zwart, R. (A)

APO San Francisco
Ahern, W. C. (M)
Antosy, S. J. (M)
Asendorf, J. A. (M)
Austin, F. A. (M)
Ball, G. F. (A)
Ballard, J. L. (A)
Barrie, T. H. (M)
Behr, A. W. (A)
Belford, K. R. (A)
Betts, R. W. (A)
Betzer, W. E. (M)
Beveridge, R. W., Jr. (A)
Binns, F. W. (M)
Biscomb, L. I., Jr. (M)
Black, J. G. (A)
Blough, A. K., Jr. (A)
Booth, G. H. (A)
Bowne, J. C. (M)
Bradley, J. J. (SM)
Branch, G. E. (SM)
Bravin, C. (A)
Brown, B. L. (A)
Buhrman, H. M. (A)
Carlson, D. N. (M)
Carpenter, A. B., Jr. (M)
Chabot, R. C. (A)
Chambers, D. A. (M)
Cheney, F. H. (M)
Clair, F. F. (M)
Colburn, L. J. (A)
Constant, J. N. (M)
Cook, J. D. (M)
Coward, R. W. (M)
Curtis, R. E. (M)
Dausman, R. H. (M)
Dean, M. H. (A)
Delort, R. (M)
De Veaux, E. C. (M)
Doran, J. W. (A)
Duncan, H. H. (M)
Dunning, R. A. (A)
Eckart, J. H. (A)
Engle, C. G. (M)
Fanning, J. J., Jr. (A)
Flynn, F. A. (M)
Fozdar, J. K. (M)
Gapasin, F. G. (M)
Geary, J. T. (M)
Gregal, J. (M)
Hale, G. R. (A)
Hamlin, D. R. (M)
Hancsak, R. P. (M)
Harcar, A. R. (A)
Harding, N. D., Jr. (M)
Harmon, W. R. (SM)
Harper, G. E. (M)
Hartnett, R. M. (A)
Hayes, C. R. (A)
Heide, W. H. (M)
Hildebrand, D. B. (M)
Hoffman, L. E. (M)
Houston, R. W. (M)
Humphreys, J. D. (M)
Hurlbut, G. N. (M)
Hurt, F. W. (M)
Jesse, H. W. (M)
Johnson, E. L. (M)
Jones, W. G. (A)
Jouvenat, J. M. (A
Karp, A. L. (A)
Kawai, W. T. (M)
Keene, E. F. (A)
Kern, G. M. (M)
Kile, R. L. (M)
Kindell, F. E. (M)
King, J. W., Jr. (M)
Kirkland, F. B. (A)
Klimpl, E. W. (M)
Knight, L. J. (A)
Knorpp, J. L., Jr. (M)
Kosar, W. S., Jr. (M)
Kotulak, J. J. (M)
Lachman, D. (M)
Laine, R. U. (M)
Leach, E. R. (M)
Lenz, W. K. (A)
Lotz, W. E., Jr. (SM)
Lowe, W. H. (A)
Lucas, G. R. (M)
Lui, G. G. (A)
Luiken, D. G. (M)
Magrane, J. H. (M)
Marshall, F. M. (M)
McCauley, D. D. (M)
McConnell, V. (A)
Menaugh, F. H. (SM)
Montoya, J. R. (A)
Moss, S. D. (M)
Nemirow, D. M. (M)
Ness, R. J. (A)
Neuman, R. H. (A)
Nolen, J. F. (A)
Nowak, M., Jr. (A)
Olsen, J. C. (M)
Olszewski, L. V. (A)
Panchot, H. W. (SM)
Pankowski, B. J. (M)
Parkkinen, M. (A)
Patch, H. W., Jr. (M)
Paul, B. W. (M)
Penniwell, A. F. (M)
Pette, D. C. (M)
Phillips, J. T. (A)
Powell, R. I. (M)
Pratt, J. D. (A)
Quenstedt, R. E. (A)
Ramsey, R. G. (A)
Rende, A. A. (M)
Rice, H. A. (M)
Richard, P. T. (A)
Richter, R. E. (A)
Robinson, K. L. (M)
Rotta, E. A. (M)
Royce, E. R. (M)
Ruggles, K. W. (A)
Rundlett, L. M. (M)
Sander, R. E. (M)
Sandler, B. (M)
Scheetz, R. E. (A)
Schibi, H. R. (M)
Schinabeck, J. R. (M)
Schreiber, E. L. (M)
Schreier, W. J. (M)
Seaver, G. E. (M)
Sewell, F. T. (A)
Singer, H. (M)
Skorheim, R. D. (M)
Smith, T. C. (M)
Smithey, L. D. (M)
Spears, W. K. (M)
Stirling, H. J. (M)
Stuart, R. R. (M)
Stute, R. A. (M)
Swanson, K. T. (A)
Swisher, L. W. (A)
Tansel, D. C. (M)
Thomas, J. E. (A)
Timm, F. W. (A)
Tufts, R. M. (SM)
Upham, W. C. (M)
Vaughan, D. O. (M)
Vrooman, D. H. (A)
Wenger, L. S. (SM)
Wheeler, F. K. B. (M)
Wheeler, R. D. (A)
White, J. A. (A)
White, W., Jr. (A)
Wilcox, C. S. (M)
Wilkins, D. E. B. (A)
Wilson, G. F. (M)
Yanagihara, F. T. (A)

APO Seattle
Arnold, W. L. (M)
Bacon, R. A. (M)
Barrett, T. B. (M)
Bindner, J. T. (SM)
Davie, L. J. (M)
Dora, G. I. (A)
Hopkins, C. (SM)
King, T. H. (M)
Martone, F. P. (A)
Nold, D. E. (A)
Oliver, R. B. (M)
Pappas, C. P. (A)
Price, C. W. (A)
Puckette, J. H. (A)
Rupcich, J. N. (A)
Stewart, J. P. (A)
Thornton, R. R. (A)
Urbanski, L. J. (A)
Wyatt, C. L. (M)

ADEN COLONY

Aden
Hudson-Davies, J. (M)

ARGENTINA

Bahia Blanca (BA)
Paez-Segul, J. C. (A)

Buenos Aires (BA)
Andrews, G. J. (SM)
Baldwin, E. V. (M)
Barbieri, M. (M)
Barcala, J. M. (SM)
Baumann, C. (SM)
Benjamin, M. (A)
Bermudez, J. (A)
Bilotti, A. (A)
Blon, J. L. (SM)
Brandt, L. (M)
Brest, U. R. (M)
Canepa, E. J. (A)
Canepa, J. A. (A)
Cassiet, A. H. (M)
Cole, T. J. (A)
Collazo, J. A. (M)
Conde, H. O. (A)
Coriat, J. L. (SM)
Correa, J. E. M. (S)
Costa, E. M. (S)
Dallocchio, H. S. (M)
De Ridder, L. E. (A)
Diamand, M. (M)
Diaz, J. O. (M)
Dickson, A. R. K. (M)
Diez, F. L. (A)
Di Marco, A. (SM)
Falcone, J. A. (M)
Feinstein, J. (M)
Fernandez, O. C. (SM)
Flint-Halpern, M. (A)
Gamba, D. W. (A)
Gayoso, R. A. (M)
Giron, D. G. (A)
Glaubach, N. (A)
Glucksmann, A. (A)
Grant, I. C. (SM)
Iglesias, H. B. (A)
Kirkcaldy, E. J. (M)
Laconca, F. (A)
Leunis, J. (M)
Lojkasek, T. (A)
Machain, L. R. (M)
Maget, R. V. X. (SM)
Marelli, R. V. (A)
Margulius, M. (SM)
Martinez, J. (A)
McCallum, C. A. (A)
Miyara, J. (A)
Neistadt, R. B. (M)
Noizeux, P. J. (F)
Noviks, B. (M)
Novillo, H. L. (A)
Perfilio, L. M. (A)
Picard, A. (M)
Pinasco, S. F. (M)
Pluss, C. P. (SM)
Pulver, M. (A)
Ricci, A. J. (M)
Rocha, L. F. (M)
Rossi, R. (A)
Rostrom, R. W. (A)
Rubio, J. M. (SM)
Rueda, J. V. (M)
Schwartz, O. (A)
Schweimer, K. P. (M)
Scott, R. H. (SM)
Sitkovsky, V. (A)
Steiner, J. I. (M)
Steube, F. R. (A)
Thomae, M. A. (A)
Tomaszewski, C. A. (M)
Trench, C. E. (A)
Vaio, C. A. (A)
Valdes, S. A. (A)
Valentinuzzi, M. E. (M)
Van Der Lee, A. C. (M)
Van Spankeren, G. H. (SM)
Zollfrei, C. D. (A)

Caseros (BA)
Boquete, C. B. (M)

Hurlingham (BA)
Cosentino, A. T. (F)

Rio Negro (BA)
De Haro, F. O. (A)

San Martin (BA)
Garrido, R. A. P. (A)

San Miguel De Tucuman (BA)
De Zavalia, R. J. L. (A)

Vincente Lopez (BA)
Kagel, I. J. (M)

Zarate (BA)
Berenyi, S. (A)

AUSTRALIA

NEW SOUTH WALES

Alexandria
McFadden, D. R. (A)

Ashfield
Honnor, W. W. (SM)

Beecroft
Hope, R. S. (M)

Burwood
Builder, G. (F)

Canberra
Brown, S. E. (A)
Carden, P. O. (A)
Finney, K. L. (A)
Graf, G. R. (M)
Hibbard, L. U. (M)
Robertson, D. S. (A)

Chippendale
Chandler, G. A. (A)
Cooper, B. F. (M)
Dobbie, L. G. (SM)
Ryan, R. D. (M)

Five Dock
Cansick, N. V. C. (A)

Kensington
Laisk, E. (M)

Longueville
Beard, M. (M)
Swire, B. E. (M)

Mosman
Wyles, D. G.

Neutral Bay
Stevenson, M. H. (SM)

Orange
Crouch, E. C (A)

Penshurst
Hansen, I. C. (M)

Roseville
Fisk, E. (F)

Ryde
Hirschle, H. P. (M)

Sydney
Bean, L. P. R. (SM)
Bushby, T. R. W. (SM)
Chiun, H. R. (A)
Ezon, F. C. (SM)
Fowler, A. (M)
Gutmann, F. (SM)
Hooke, L. A. (SM)
Kirkham, P. (M)
Lampard, D. G. (M)
Mingay, O. F. (SM)
Minnett, H. C. (M)
Munro, G. H. (SM)
Parish, H. C. (VA)
Shaw, R. H. (M)
Thom, F. W. P. (SM)
Wade, C. F. N. (SM)
Wardale, A. H. (M)
Warner, J. (M)
Weston, P. E. (M)

Vaucluse
Hall, L. S. (SM)

Villawood
Hall, G. G. (M)

West Ryde
Benson, J. E. (SM)

QUEENSLAND

Brisbane
Ham, G. (VA)
Oliver, E. (M)
Webster, H. C. (M)

Adelaide
Ellesworth, G. (SM)
Mudgway, D. J. (A)
Pybus, A. W. L. (SM)
Treharne, R. F. (A)
Willoughby, E. O. (M)

Elizabeth
Beck, H. M. (A)

Millswood Estate
Wadsworth, B. F. P. (M)

Plympton
Davies, R. J. C. (M)

Winkie
Wehbe, E. A. (A)

VICTORIA

Ballarat
McCulloch, G. R. (A)

Balwyn
MacDonald, J. A. (A)

Brighton
Rubenstein, S. J. (VA)
Warner, G. A. (M)

Canterbury
Coate, E. F. (SM)

East Malvern
Cox, L. V. (M)

Ivanhoe
Chakanovskis, E. (A)

Melbourne
Brodribb, M. I. (M)
Brownless, S. F. (M)
Caro, D. E. (A)
Faudell, C. L. (SM)
Glover, A. J. G. (M)
Hooper, E. M. (VA)
Jacoby, A. (A)
Mair, R. B. (SM)
Skelton, T. H. (SM)

Park Orchards
Kennewell, E. M. (A)

Richmond
Webb, A. L. C. (VA)

South Melbourne
McInnes, I. G. (SM)

Sunshine
Blakeley, W. C. (M)

WEST AUSTRALIA

Bellevue
Simrod, R. (A)

Nedlands
Baldock, A. R. (A)

Perth
Hayman, W. G. (M)

South Perth
Hatton, G. H. T. (A)

AUSTRIA

Vienna
Buehler, J. H. (A)
Zemanek, H. (M)

Wiener-Neustadt
Mattes, A. J. (A)

BELGIUM

Antwerp
Fettweis, A. L. M. (M)
Van Dyck, E. A. (M)

Brussels
Belevitch, V. (SM)
Bernaert, A. L. J. (A)
Bouchier, P. (A)
Bourguignon-Famaey, G. (A)
Gewillig, M. R. (M)
Hecq, V. V. (M)
Helbig, W. L. (M)
Hoffmann, J. A. J. L. (A)
Murphy, B. (M)
Rogers, J. A. (M)
Vorobeitchik, J. (M)

Charleroi
Desirant, M. C. (A)

Deurne-Zuid
Deschuytere, L. C. (M)

Etterbeek
Collard, J. R. G. (M)

Ghent
Buys, W. L. (M)
Vanden Meersche, A. J. (VA)

Kortrijk
Vanwormhoudt, M. C. (M)

Lierre
Carpentier, W. J. O. (M)

Mons
Harmegnies, P. A. (M)

Putte
Liekens, A. F. (A)

Uccle-Brussels
Marique, J. (M)

Wezembeek
Tavernier, G. C. (M)

BERMUDA

Hamilton
Hillier, R. J. (M)
Spershott, J. H. (M)

Pembroke
Amos, A. F. (A)
Harris, A. (M)

Warwick
Harries, J. H. O. (SM)

BOLIVIA

La Paz
Weil, R. B. (M)

BRAZIL

Belo Horizonte
De Castro, E. M. (M)

Pernambuca
Brandt, W. L. (M)

Porto Alegre
Belck, H. B. (M)
Muller, F. R. (A)
Peixoto, E. S. (SM)
Ritter, G. (A)
Stucken, H. (A)

Rio de Janeiro
Amarante, A. J. D. (A)
Aragao, S. P. (A)
Bonapace, H. (SM)
Coelho, C. A. B. (A)
Correa, A. D. (M)
Costa, H. (F)
Costa, P. S. (A)
Coutinho, E. O. (A)
De Mattos, H. C. (M)
De Medeiros, L. A. (M)
De Oliveira, A. M. (SM)
De Sa, M. A. M. (A)
Di Tavani, V. C. (M)
Do Carmo, A. C., Jr. (A)
Farmer, F. H. (M)
Fuzesi, Z. (M)
Girard, P. A. (M)
Gomes, F. M. S. (A)
Grant, F. W. (SM)
Guedes, H. O. P. (M)
Guimaraes, G. S. C. (M)
Heininger, W. W. L. (SM)
Hertz, J. A. (M)
Kahl, A. B. (A)
Lacombe, C. G. (A)
Leal, J. M. (A)
Lienhard, J. W. (M)
Maia, G. N. S. (M)
Maranhao, S. M. (A)
Miranda, E. D. S. (A)
Neto, A. P. (A)
Neto, J. V. P. (M)
Nevitt, H. J. B. (SM)
Nina, J. P. (M)
Obermuller, W. F. (M)
Pereira, J. (A)
Pereira, M. P. D. (M)
Perisse, G. L. C. (M)
Pinheiro, U. B. (A)
Portella, S. M. (M)
Pradal, H. A. (A)
Quadra, F. F. (A)
Ribeiro, H. S. G. (A)
Ribeiro, O. C. V. L. (A)
Santos, J. C. P. (A)
Santos, L. J. (A)
Schreyer, H. T. (M)
Silva, R. D. E. (A)

Santos
Waeny, J. C. C. (M)

Sao Paulo
Altschul, E. O. (A)
Beaman, W. G. (A)
Benchimol, A. (M)
Boffi, L. V. (M)
Borda, J. A. (M)
Caicoya, J. I. (M)
Chow, Y. (M)
Christian, W. (A)
Dantine, W. A. (M)
Da Rosa, A. V. (M)
De Arruda, P. R. (A)
De Barros Barreto, L. A. (M)
Del Rio Bretignere, J. (A)
De Macedo, A. Jr. (M)
De Mello, G. H. (A)
De Miranda, S. M. (A)
De Paiva Lopes, C. (M)
De Sa E Silva, C. (M)
Ely, R. S. (M)
Fanta, P. (M)
Funari, B. (M)
Girardelli, L. R. L. (A)
Goldberger, N. (A)
Goldmann, R. D. (A)
Greis, W. F. (A)
Guimaraes, B. Q. (M)
Hirschfeld, B. (SM)
Kubelka, W. (M)
Levy, G. I. (M)
Lignon, J. R. (A)
Meyer, L. V. (A)
Moreira, J. S. (A)
Muzzio, J. L. R. (A)
Nepomuceno, L. X. (A)
Perini, J. (A)
Rittmeister, H. (M)
Rocha, E. (A)
Rubin, L. (SM)
Sherman, F. L. (M)
Smit, J. (M)
Stamopoulos, C. D. (SM)
Tai, C. T. (SM)
Woels, A. L. (M)

BRITISH EAST AFRICA

KENYA

Nairobi
Pegrume, S. A. (M)
Talbot-Jones, R. V. (M)

BRITISH GUIANA

Georgetown
De Freitas, J. F. (A)

Rio Demerara
Greaves, H. A. (M)

BRITISH WEST AFRICA

NIGERIA

Ikja
Meakin, A. D. (M)

Lagos
Fenton, W. A. (M)
Rowe, J. M. (M)

BRITISH WEST INDIES

BAHAMAS

Eleuthera
Crabtree, T. H. (A)

Nassau
Ingraham, K. R. (M)

BARBADOS

Carrington
Moseley, S. V. (A)

St. Michael
Tibbits, A. E. (A)

GRENADA

Windward Island
Smith, R. A. (A)

JAMAICA

Cross Roads
Gauntlett, G. A. R. (M)

Half Way Tree
Hoyes, V. V. (M)

Kingston
Thomson, A. G. (M)

Palisadoes
Shaw, H. L. (A)

TRINIDAD

Port of Spain
Borde, E. H. (A)
Fung, J. H. (A)
Kerr, J. L. (M)
Vanderhoek, E. F. (A)

San Fernando
Bell, R. J. (M)

BURMA

Chauk
Porter, A. H. (M)

Rangoon
Ba'Hli, F. (M)
Doe, U. P. (M)
Khin, M. A. (A)
Kyi, M. A. (M)
Lwin, M. (M)
Lwin, M. M. (A)
Maung, U. A. (A)
Naing, H. M. (A)
San, P. T. (M)
Seymour, J. W. (SM)
Su, B. (A)
Swe, M. T. (M)
Than, M. M. (M)
Than, M. P. (A)
Tun, U. H. (A)
Win, U. S. (A)

CANADA

ALBERTA

Bowness (SA-8)
Carlson, C. V. (A)
McDougall, S. B. (A)

Calgary (SA-8)
Allan, W. K. (M)
Ball, E. T. (A)
Barban, R. N. (A)
Beck, F. F. (M)
Blank, J. A. (M)
Caldwell, L. W., Jr. (A)
Cole, A. M. (A)
Connor, E. C. (A)
Cook, R. B. (M)
Curtis, R. H. (M)
Davis, A. P. (M)
Dubber, W. G. (A)
Evans, P. R. N. (A)
Field, C. (A)
Gill, A. L. (A)
Freek, W. L. (M)
Goodman, C. J. (M)
Gordon, L. (A)
Gordon, R. E. (M)
Griswold, A. L. (A)
Guthoff, G. H. (A)
Handford, G. B. (M
Hansen, C. H. (A)
Heffring, H. H. (M)
Hemming, G. (A)
Hill, R. F. (A)
Hollingshead, G. W. (A)
Johnson, C. M. (M)
Johnston, C. W. (M)
Kelcey, M. F. (M)
Kerr, W. G. (A)
Kittlitz, N. E. (M)
Kittlitz, R. S. (A)
Lamb, R. W. H. (M)
Larson, V. C. (M)
Litchinsky, S. (M)
Lundrigan, E. G. (A)
MacDonald, A. G. (M)
MacIsaac, G. M. (A)
Marion, G. E. (A)
Marshall, D. R. T. (M)
McLean, R. A. (M)
Merry, H. C. (A)
Miller, E. C. (A)
Moore, A. M. (A)
Moore, J. D. (M)
Nawata, T. T. (A)
Partin, W. (M)
Peters, R. R. (A)
Pilchak, L. A. (A)
Sandrelli, R. D. (A)
Shafer, E. D. W. (A)
Smith, G. W. (M)
Smith, M. F. (A)
Smith, R. E. (M)
Stuart, A. J. (M)
Szojka, F. C. (M)
Umbach, E. A. (A)
Upton, D. K. (A)
Watt, K. M. (M)
Webster, D. J. (A)

Cold Lake (NA-8)
Krijnen, T. M. G. (A)

Edmonton (NA-8)
Arksey, G. W. (M)
Bastock, D. W. (A)
Baxter, S. (A)
Bennett, W. E. (M)
Burtch, N. (A)
Cable, R. P. (A)
Caldwell, A. (M)
Campbell, T. G. (A)
Cary, S. L. (A)
Cunningham, W. E. (M)
Davidson, O. J. (A)
Ducey, R. J. (M)
Earnshaw, A. (M)
Elwell, A. T. (A)
Few, E. L. (A)
Hall, T. W. (M)
Henderson, R. G. (M)
Hollingworth, F. (A)
Hope, G. S. (M)
Johnson, R. A. (A)
Kantautas, A. (A)
Kiss, F. V. (M)
Leitch, J. G. (M)
Letwin, A. (M)
Lines, E. G. (A)
Luetchford, H. W. (A)
Mac Donald, D. L. (SM)
Makepeace, F. G. (A)
Nichol, A. C. (A)
Overton, A. (A)
Peterson, D. A. (M)
Porteous, J. W. (SM)
Powley, R. K. (A)
Rice, G. R. A. (A)
Rodgers, J. P. (M)
Royer, D. P. (A)
Sacker, J. E. (M)
Scotten, E. C. (A)
Skutle, G. O. (A)
Smith, A. O. (A)
Smith, O. A. (M)
Wadson, T. E. (A)
Whitley, W. M. (A)
Wylie, A. (A)
Zaharichuk, S. (M)
Zowtiak, J. (M)

Griesbach (NA-8)
Kerr, R. L. (M)

Islay (NA-8)
Waterfield, J. W. (M)

Medicine Hat (SA-8)
Adler, J. G. (A)

Ponoka (NA-8)
Taylor, E. L. (M)

Ralston (SA-8)
Clink, W. L. (M)

Red Deer (NA-8)
Bartley, G. A. (SM)
Jonkman, J. Y. (A)

Rimbey (NA-8)
Gardner, R. J. (A)

St. Albert (NA-8)
Donovan, L. N. (M)
Usher, R. (M)

South Edmonton (NA-8)
Cole, D. R. (A)

Stettler (NA-8)
McAlpine, R. A. (M)

BRITISH COLUMBIA

Armstrong (VAN-8)
Kokkila, R. E. (A)

Burnaby (VAN-8)
Reagh, D. M. (A)

Castlegar (VAN-8)
Thorp, W. W. (M)

Dawson Creek (VAN-8)
Benner, F. D. (M)

Esquimalt (VAN-8)
Evans, D. J. (M)
Lokken, J. E. (M)
Madill, C. L. (M)
Milne, A. R. (M)
Nasmyth, P. W. (M)

Kelowna (VAN-8)
Davidson, M. H. (A)
Tamagi, T. T. (M)
Wyatt, T. E. (A)

Kimberley (VAN-8)
Vroom, D. R. (A)

Mission City (VAN-8)
Kyashko, W. (A)

Nanaimo (VAN-8)
Mac Intyre, E. R. (A)
Pirart, M. A. (M)

New Westminster (VAN-8)
Ahrens, R. H. (M)
Turner, J. H. (A)

North Burnaby (VAN-8)
Butler, R. H. (A)
Newton, W. K. (M)

North Vancouver (VAN-8)
Alfreds, L. J. (SM)
Crawford, A. M. (M)
Elliott, D. T. (A)
Fitzgerald, M. W. (A)
Goldie, H. J. (M)
Lynch, T. G. (M)
Marlatt, C. D. (A)
McDonald, R. C. (A)
Neveroski, F. (A)
Niblock, P. A. (M)
Reyda, D. C. (A)
Wilson, C. M. (A)

Penticton (VAN-8)
Paton, I. W. (A)

Port Moody (VAN-8)
Chisholm, E. (A)

Read Island (VAN-8)
Taylor, A. H. (SM)

Richmond (VAN-8)
Hepburn, J. T. (M)
Matheson, C. D. (A)

Savona (VAN-8)
Payne, T. E. G. (A)

South Burnaby (VAN-8)
Kay, D. H. J. (M)
Knight, G. M. (A)
Trainor, W. J. (M)
Tripp, H. H. (A)

Trail (VAN-8)
Baron, H. D. (A)
Gowans, W. K. (M)

Vancouver (VAN-8)
Alltree, R. C. (A)
Auld, B. A. (A)
Bealle, D. F. (A)
Beaton, R. J. (A)
Bishop, D. L. (M)
Black, D. T. (M)
Bohn, E. V. (A)
Bramham, K. (A)
Breeze, J. E. (SM)
Burgess, R. E. (SM)
Carpenter, D. D. (SM)
Chandler, A. H. (M)
Chandler, G. C. (SM)
Cole, R. A. (SM)
Cringan, F. J. (M)
Cuddeford, R. A. (A)
Cummings, W. M. (A)
Delaney, D. K. (A)
Diamond, M. (M)
Duston, R. F. (M)
Eng, T. S. (A)
Fall, S. T. (M)
Fraser, F. S. (M)
Frazer, E. J. (M)
Gibbon, H. T. (M)
Gray, J. S. (M)
Green, M. E. (SM)
Hale, S. T. (A)
Harrow, A. E. (A)
Hewit, H. O. (A)
Hilton, B. C. (A)
Hings, D. L. (VA)
Holmes, A. T. (M)
Hoyles, H. A. (M)
Humble, R. S. (A)
Kersey, L. R. (M)
Klaus, E. F. (A)
Klok, B. (A)
Knight, A. G. (A)
Kohler, P. H. (A)
Kolbeins, E. N. (M)
Manders, D. F. (SM)
Marsh, R. A. (M)
McCarter, W. L. (M)
McGrath, E. F. (A)
McLennan, D. E. (A)
Moore, A. D. (SM)
Noakes, F. (M)
Norman, E. R. (A)
Norman, R. O. (M)
Ott, E. K. (A)
Park, W. J. (M)
Phillips, C. E. (A)
Potvin, L. H. (A)
Praeg, W. F. (M)
Price, E. M. (A)
Pye, R. M. (A)
Reader, W. R. (A)
Ridsdale, R. E. (M)
Robinson, R. A. (M)
Robson, E. E. (M)
Seabrook, H. B. (M)
Smith, C. R. (A)
Spencer, R. E. (A)
Spilsbury, A. J. (M)
Thompson, H. C. (A)
Thompson, W. H. (M)
Tracey, W. R. (A)
Tupper, B. R. (F)
Valde, G. E. (M)
Varah, L. A. (A)
Warren, G. D. R. (A)
Watts, D. G. (M)
Weeks, R. L. (M)
Whiteside, R. L. (A)

Victoria (VAN-8)
Blyth, G. S. (A)
Hansilp, G. (M)
Johns, J. G. (A)
Weir, R. C. (M)

West Vancouver (VAN-8)
Bonnett, J. D. W. (A)
Kent, N. S. (A)
Whittey, T. (M)

MANITOBA

Argyle (WIN-8)
Baranovsky, C. (M)

Beausejour (WIN-8)
Trencher, J. W. (M)

Brandon (WIN-8)
Gomez, A. M. (M)

Carman (WIN-8)
Hackett, F. J. (M)

Dickens (WIN-8)
Bigar, E. (A)

Fort Garry (WIN-8)
Coish, H. O. (M)
Haakonsen, H. M. (M)

Gimli (WIN-8)
Hopkins, J. A. (A)

Lac Du Bonnet (WIN-8)
Uhlman, J. C. (A)

Norwood (WIN-8)
Barschel, E. (A)
Kowalik, H. (M)

St. Boniface (WIN-8)
Marchand, J. R. (M)
Philpott, G. W. (M)

St. James (WIN-8)
Cuthbert, P. (A)

Selkirk (WIN-8)
Hummel, R. H. (M)

Transcona (WIN-8)
Royko, S. (A)

West Kildonan (WIN-8)
Yankewics, W. W. (M)

Winnipeg (WIN-8)
Adams, R. (SM)
Ardelian, T. E. (M)
Barnstable, F. H. (M)
Blair, R. G. (M)
Body, H. T. (A)
Borm, W. B. (M)
Bridges, E. (M)
Brown, J. R. B. (A)
Buchmeier, H. P. G. (M)
Cahoon, R. D. (F)
Campbell, D. C. (M)
Campbell, J. F. (A)
Charron, J. H. A. (A)
Clayton, H. C. V. (A)
Cockie, E. S. (A)
Cohen, H. (M)
Cohen, M. (A)
Collins, R. G. (M)
Crolly, J. A. (M)
Cross, I. F. (SM)
Dickson, F. J. (A)
Dusang, E. B. (M)
Grausdin, P. (A)
Hooper, A. W. (M)
Hooper, J. F. (M)
Hopper, C. J. (M)
Horner, S. G. L. (F)
Jex, J. F. (A)
Johnson, R. A. (M)
Johnston, W. A. R. (M)
Kemp, J. R. (A)
Kirk, G. R. (M)
Lee, G. (A)
Leite, A. N. (A)
Lumley, J. N. C. (M)
MacDonald, P. A. (SM)
Maguire, R. T. (M)
McLaren, G. A. (A)
McQuaid, A. C. (A)
Mestery, S. J. (A)
Murphy, B. F. (M)
Mykytiuk, L. J. (M)
Naqvi, S. I. H. (A)
Newcombe, R. P. (M)
Newey, D. K. (M)
Petrie, L. E. (M)
Raber, M. B. (M)
Roulston, K. I. (SM)
Royko, W. (M)
Sadler, G. L. (M)
Saunders, M. G. (M)
Sawka, M. H. (M)
Schuff, P. G. (A)
Shaver, H. B. (A)
Shea, E. R. (M)
Simister, R. M. (M)
Sloker, G. H. (A)
Tinkler, R. F. (M)
Wallace, G. R. (A)
Watts, T. B. (A)
White, T. J. (M)
Williams, S. A. (A)
Williamson, K. H. (M)
Windrick, P. F. (M)
Wormell, H. T. (SM)
Zold, T. (M)

NEW BRUNSWICK

Bathurst (MON-8)
Cote, J. A. (A)

Chatham (MON-8)
Boose, W. H. (A)

Fredericton (MON-8)
Bailey, C. O. C. (M)
Collier, R. J. (M)

Sackville (MON-8)
Hart, E. S. (A)
Smith, H. M. (SM)

St. John (MON-8)
Bishop, J. G. (M)
Day, E. A. (M)
Fanjoy, E. M. (M)

NEWFOUNDLAND

Goose Bay, Labrador (NEW-8)
Zukriegl, J. F. (A)

Mount Pearl (NEW-8)
Halfyard, R. (M)

St. John's (NEW-8)
Ainsworth, V. A. (A)
Au, G. D. (A)
Bailey, F. C. (M)
Bishop, H. A. (M)
Boyaval, M. (A)
Bunt, R. H. (M)
Clark, J. (A)
Coe, M. C. J. (M)
Fisher, L. (A)
Gaskell, W. M. (A)
Gibbons, M. F. X. (A)
Gladden, M. (M)
Gould, T. C. (A)
Hierlihy, O. G. (M)
Jerrett, A. C. (M)
Kaltenbach, R. F. (M)
Lesperance, B. J. (A)
Lewis, R. (M)
MacGray, M. D. (M)
Marshall, D. R. J. (M)
Mulloy, F. A. (A)
Oliver, J. V. (A)
Prowse, B. J. (A)
Ryde, C. H. (M)
Stevens, T. J. (M)
Tibbett, J. E. (A)
Wells, R. J. (M)
Willis, J. A. (M)
Witherstone, E. D. (M)

NOVA SCOTIA

Cornwallis (MON-8)
Pimenoff, V. J. (M)

Dartmouth (MON-8)
Cox, G. C. (M)

Freeport (MON-8)
Llewellyn-Thomas, E. (M)

Greenwood (MON-8)
Brown, H. C. (A)
Hermiston, J. A. (A)

Halifax (MON-8)
Arvisais, G. J. (M)
Burchill, G. H. (M)
Fowlie, W. D. (M)
Grant, A. S. G. (M)
Greig, A. W. (M)
MacKinnon, M. D. (A)
Mohammed, A. (M)
Murray, C. W. (A)
Robertson, J. J. C. (VA)
Wilson, R. W. (M)
Wood, W. (A)

Kingston (MON-8)
Kelly, T. W. (A)

Middleton (MON-8)
MacLeod, R. A. (A)

Shelburne (MON-8)
Kent, M. P. (A)

Spryfield (MON-8)
Pippy, G. A. (A)

Sydney (MON-8)
Janega, J. J. (M)
Oulton, G. R. (M)

Wolfville (MON-8)
Tillotson, J. G. (M)

Woodlawn (MON-8)
White, W. R. (A)

ONTARIO

Acton (HAM-8)
Pelhany, J. (A)

Agincourt (TOR-8)
Butler, C. A. (M)
Collins, G. S. (M)
Cummings, V. J. (M)
Davis, L. S. (A)
Liggans, C. E. (A)
Maine, A. E. (M)
Reesor, G. E. (M)
Rethoret, R. H. (M)
Sands, J. S. (M)
Shack, A. G. (M)

Ajax (TOR-8)
Bayly, B. D. (F)
Fischer, E. J. (M)
Gronstrand, T. L. (A)
Perry, E. G. (M)
Philp, H. F. (A)

Almonte (OTT-8)
Maynard, L. A. (M)

Alvinston (LON-8)
Jackson, R. B. (A)

Ancaster (HAM-8)
Fines, W. W. (A)
Fromanger, A. L. (M)
Gomard, P. (M)
Jewell, G. S. (M)
Jeynes, W. E. (M)
Minchel, C. C. (M)
Ruse, E. (M)
Smith, C. J. (M)
Thomas, E. A. (M)

Appleton (OTT-8)
Le Grand, A. J. (A)

Armstrong (TOR-8)
Webber, B. O. (A)

Arnprior (OTT-8)
Boire, P. C. (A)
Montagnon, N. B. (M)
Wassink, B. J. (A)
Zuidhof, A. (A)

Ashburn (TOR-8)
Anderson, W. H. (M)

Barrie (TOR-8)
Paulin, W. P. (M)

Belleville (BAY-8)
Attridge, D. M. (A)
Bateman, C. D. (M)
Benger, W. C. (SM)
Blacker, H. L. (M)
Burkett, K. V. (M)
Burns, A. R. (A)
Clarke, W. E. (M)
Coombs, C. W. (M)
Cowan, D. J. (M)
De Paul, V. A. (M)
Desmond, N. T. (A)
Dryden, T. W. R. (A)
Duke, A. M. (M)
Fort, D. E. (M)
Frederick, H. V. (M)
Hanna, J. L. (A)
Hart, L. G. (A)
Hunt, C. A. (A)
Ives, W. J. (A)
Jarvis, J. A. (SM)
Johns, D. M. (A)
Johnson, M. E. (A)
Jones, A. F. H. (A)
Kostashuk, S. S. (M)
Lund, D. M. (M)
Martin, N. (M)
Moore, N. A. (M)
Payton, T. L. (A)
Punchard, J. C. R. (F)
Revill, A. D. (SM)
Rickards, C. E. (M)
Rywak, J. (SM)
Sillitoe, S. (M)
Smith, R. L. (SM)
Stewart, P. P. (A)
Stroud, E. L. (M)
Tanner, R. H. (F)
Vice, D. G. (M)
Waller, M. J. (SM)
Wamboldt, G. L. (M)
Wesbrook, G. E. (A)
Williamson, R. (SM)

Bells Corners (OTT-8)
Itenson, V. A. (M)

Billings Bridge (OTT-8)
Johnson, E. F. (M)

Brampton (TOR-8)
Cooper, J. E. (M)
Keeping, K. J. (M)

Branchton (HAM-8)
Riley, D. (A)

Brantford (HAM-8)
McConnachie, W. A. (A)
Olson, E. (SM)
Williams, J. K. (M)

Brittania Bay (OTT-8)
Scott, J. C. W. (F)

Brockville (OTT-8)
Leeder, W. F. (A)
Radford, R. C. (M)

Bronte (HAM-8)
Ticknor, A. E. (M)

Burlington (HAM-8)
Beaumont, G. F. (SM)
Davis, C. C. (A)
Duff, D. L. A. (M)
Heys, D. M. (M)
Houlding, N. (SM)
Lower, W. M. (M)
Maskell, R. F. (A)
Moes, G. (M)
Musselman, J. A. (M)
Roberts, D. M. (M)
Rogers, E. L. (A)
Stonelake, D. A. (M)
Vaughan, P. P. (M)
Wilkinson, S. (M)

Byron (LON-8)
Warr, R. J. (M)

Cardinal Heights (OTT-8)
Ayukawa, K. (M)
Couzens, D. T. (M)
Miedzinski, J. (SM)
Wlochowicz, R. (M)

Carleton Place (OTT-8)
Britney, O. L. (M)
Kerr, G. O. (A)

Chalk River (OTT-8)
Cowper, G. (SM)
Jones, A. R. (M)

City View (OTT-8)
Collins, W. C. (A)
Henderson, D. J. (A)
Muir, W. B. (A)
Puttock, K. L. (A)
Smith, W. B. (M)

Clinton (LON-8)
Biduleak, G. (M)
Brightwell, S. A. (M)
Firlotte, J. L. (M)
Gartner, B. L. (M)
Hoodspith, R. R. B. (SM)
Lowe, A. W. (M)
Senior, R. N. (M)
Stinson, A. W. (M)

Clarkson (TOR-8)
Beattie, D. (M)
Boersma, J. (A)
Sharf, W. A. (A)

Cobourg (BAY-8)
Mitchell, T. E. (M)
Williamson, D. B. (SM)

Coldwater (TOR-8)
Parker, D. L. (M)

Cooksville (TOR-8)
Game, L. C. (A)
Hastie, F. S. (A)

Copper Cliff (TOR-8)
Shaw, J. L. (SM)

Deep River (OTT-8)
Drew, T. D. (A)
Dunlop, D. P. (M)
Goulding, F. S. (SM)
Hayter, D. M. (M)
Paterson, D. J. (M)
Waugh, J. B. S. (M)

Don Mills (TOR-8)
Adams, R. L. (SM)
Anto, H. (A)
Breckenridge, A. G. (A)
Brown, R. W. (SM)
Eastwood, G. C. (M)
Flynn, M. W. (M)
Gillies, G. A. (A)
Greenwood, R. E. (M)
MacDougall, J. S. (M)
McCloskey, K. P. (A)
Millen, T. I. (SM)
Pipe, G. E. (M)
Robinson, J. D. (A)
Low, A. R. (M)
Semmelink, A. (SM)
Simoni, A. (M)
Stevens, A. (A)

Dorchester (LON-8)
Haynes, H. W. (A)

Downsview (TOR-8)
Armstrong, H. D. (M)
Aylesworth, A. B. (M)
Brodsky, S. (A)
Casciato, L. (A)
Cohen, H. A. (M)
Day, C. A. (M)
Gattoni, L. I. (A)
Geary, B. H. (A)
Housego, J. W. F. (M)
Hyde, G. (M)
Lewis, D. H. (A)
McCuaig, N. E. (M)
Morrison, D. C. (A)
Popovich, C. D. (A)
Sugimoto, M. (M)
Wall, E. (M)
Williams, N. A. (SM)
Yablo, S. (M)

Dundas (HAM-8)
Anthes, R. G. (SM)
Bennett, H. W. (A)
Challis, R. (M)
Johnson, P. M. (M)
Kozak, W. S. (M)
Wiffin, R. F. (A)

Dunnville (HAM-8)
Duffin, M. V. (A)
Hayles, O. J. (M)

Eastview (OTT-8)
Brahan, J. W. (A)
Filippino, J. F. (A)
Kivistik, O. (M)
Mervyn, G. (M)
Prust, P. (A)
Storr, J. W. (M)
Terrell, D. S. (A)

Etobicoke (TOR-8)
Knott, J. G. (M)
Thompson, R. S. (M)

Falconbridge (TOR-8)
Demers, R. J. H. (M)

Forest Hill (TOR-8)
Van Dyk, T. (M)

Fort Erie (HAM-8)
Moratz, W. P. (A)

Fort William (TOR-8)
Andrews, G. R. (M)

Foymount (OTT-8)
Baxter, E. G. (M)

Galt (HAM-8)
Sweet, J. L. (A)

Gananoque (OTT-8)
Olive, G. W. (F)

Georgetown (HAM-8)
Conquest, E. A. (M)
Matthies, J. G. (M)

Goderich (LON-8)
Carlson, D. E. (A)
Higgins, G. S. (A)
Hurst, R. V. (M)
White, J. A. (A)

Guelph (HAM-8)
Armstrong, A. S. (M)
Brown, R. M. (A)
Clegg, G. M. (A)
Irwin, G. J. (SM)
Mackay, F. S. (SM)
Robinson, C. A. (VA)
Valeriote, P. T. (A)

Hamilton (HAM-8)
Anderson, J. W. (M)
Blancucci, C. F. (A)
Bohay, J. A. (M)
Cantlon, C. F. (SM)
Cheek, W. A. (A)
Connor, J. J. (A)
Coolsma, S. F. (M)
Dean, W. W. H. (SM)
Edwards, F. H. (M)
Felix, M. O. (SM)
Godfrey, G. F. (A)
Harris, L. R. (M)
Harris, O. E. (A)
Hayward, J. R. (M)
Heal, G. L. (A)
Hore, H. B. (A)
Howes, C. N. (M)
Humbert, V. J. (A)
Jackson, C. M. (M)
Kassner, J. (A)
Kelterborn, W. H. (SM)
Kennedy, H. G. (A)
Leskiw, H. (M)
Khanna, S. M. (M)
Litwin, J. D. (A)
Lucyk, J. (M)
Lyons, K. C. (M)
Mason, V. V. (SM)
Merritt, H. J. (M)
Prinsen, H. W. (M)
Rapp, E. (A)
Sandler, A. A. (M)
Shenton, W. E. (M)
Sievert, A. H. (SM)
Silke, A. G. (A)
Sinko, J. P. (A)
Slater, H. (A)
Smith, W. D. (M)
Sparrow, J. (M)
Staryk, M. (M)
Stauffer, R. L. (M)
Walker, M. L. (A)
Ward, G. V. (A)
Watts, T. O. (M)
Wilk, J. (A)
Wilson, G. L. (SM)
Wynn, W. W. (M)
Yakymyshyn, M. M. (M)

Highland Creek (TOR-8)
Gladys, S. J. (M)

Huntsville (TOR-8)
Fisher, D. E. (M)

Ingersoll (LON-8)
Shutt, S. H. (A)

Iondale Heights (TOR-8)
Johnston, K. S. (A)

Jordan Station (HAM-8)
Pond, J. F. (M)

Keewatin (TOR-8)
Jones, A. W. (M)

Kettleby (TOR-8)
Borth, L. A. (M)

King (TOR-8)
Stubbs, R. A. (A)

Kingston (BAY-8)
Bowen, B. A. (M)
Campling, C. H. R. (M)
Chambers, R. G. (A)
Chisholm, R. M. (A)
Harrower, G. A. (M)
Hetherington, F. E. (M)
Hockin, W. J. (M)
Mowbray, D. R. (A)
Murray, R. G. (M)
Ryan, W. D. (M)
Stewart, H. H. (SM)
Strain, E. M. (M)

Kitchener (HAM-8)
Banks, F. A. O. (M)
Barsony, C. L. (M)
Bartelink, D. J. (M)
Clark, W. B. (SM)
Cox, G. M. (SM)
Dankwardt, R. W. (M)
Day, A. G. (M)
Dufault, G. J. (M)
Duvall, J. M. (M)
Enns, E. G. (A)
Field, G. C. (M)
Hass, Z. K. (SM)
Kennedy, T. E. (M)
Marsland, J. W. (A)
McConachie, B. S. (SM)
McKee, W. H. (M)
Moshier, L. S., Jr. (A)
Ritz, E. A. (A)
Rosebrugh, R. K. (A)
Smallwood, S. G. (A)
Stapleton, A. A. (A)
Turchan, P. J. (A)
Washburn, J. C. (M)

Lansing (TOR-8)
Fisher, G. W (A)

Leaside (TOR-8)
Brereton, R. L. (M)
Brophy, R. M. (SM)
Crossan, G. W. (M)
Fitzallen, J. H., Jr. (M)
Hogan, J. F. (A)
Simmonds, L. C. (VA)
Stewart, G. L. (M)
Webster, C. G. (M)

Lindsay (TOR-8)
Tang, D. D-Y. (A)

Lively (TOR-8)
Leask, R. D. (A)

London (LON-8)
Bach, J. R. (SM)
Beninger, G. J. (A)
Blackwell, J. H. (SM)
Brouwer, J. J. (A)
Brule, R. J. (A)
Dearle, R. C. (SM)
Downs, E. E. (M)
Ferguson, A. F. (M)
Foster, G. L. (M)
Fulford, J. A. (M)
Graham, B. (SM)
Hosker, G. R. (M)
Jackson, N. B. (M)
Jarmain, E. R. (M)
Jeffery, J. (A)
Johnston, S. N. A. (A)
Kail, L. T. (M)
Lopatauskas, J. V. (A)
Luke, R. W. (M)
Moeys, G. L. (A)
Moore, J. D. B. (M)
Nunn, W. A. (A)
Oliver, W. L. (M)
Pepino, L. F. (A)
Peters, G. A. (M)
Prodger, A. (A)
Robitaille, G. A. (M)
Rumbold, D. G. (A)
Ruth, C. G. (M)
Sanders, G. E. (A)
Stokes, S. J. (A)
Strik, W. L. (M)
Suchard, D. G. (M)
Tull, E. H. (SM)
Warder, J. C. (M)
Wilton, R. (SM)
Zelonka, F. A. (M)

Lorne Park (TOR-8)
Grossman, J. S. (M)

Lowbanks (HAM-8)
Moore, B. W. L. (A)

Malton (TOR-8)
Carley, R. R. (A)
Frusher, R. J. (M)
Watts, R. V. (M)

Markham (TOR-8)
Dodge, A. (A)

Mattice (TOR-8)
Denyer, J. H. N. (M)

Merlin (LON-8)
Fletcher, H. R. (A)

Mont Joli (MON-8)
Glenn, R. A. (A)

Newmarket (TOR-8)
Posnikoff, P. W. (M)

New Toronto (TOR-8)
Boyd, R. S. (A)

Niagara Falls (HAM-8)
Lunan, H. S. (M)

Nobel (TOR-8)
Anthony, F. (A)
Signore, S. S. (M)

North Bay (TOR-8)
Scott, C. R. (A)
Trenouth, H. W. (A)

Oak Ridges (TOR-8)
Samuels, K. V. (M)

Oakville (HAM-8)
Alsop, J. W. (A)
French, R. (A)
McLennan, E. A. (M)
Paddon, J. W. (SM)

Orangeville (TOR-8)
Wray, D. G. (A)

Oshawa (TOR-8)
Hunt, J. W. (M)
Jamroz, A. (M)
Marchand, W. C. (M)
McLean, D. J. (M)
Shaw, P. D. W. (A)
Starker, H. H. (A)

Ottawa (OTT-8)
Adey, A. W. (A)
Aksim, V. E. (SM)
Andrews, A. G. (M)
Anglin, F. M. (A)
Argyle, J. V. (A)
Baart, J. G. (A)
Ballard, B. G. (F)
Barrett, W. A. C. (M)
Barry, A. L. (M)
Barton, F. S. (F)
Beauchesne, L. A. (M)
Bell, A. C. (M)
Beneteau, P. J. (A)
Bennett, J. R. G. (SM)
Bennett, L. F. (M)
Belrose, J. S. (M)
Blevis, B. C. (M)
Boelman, P. M. (A)
Bradley, J. H. (A)
Bredahl, A. (M)
Bresee, C. W. (M)
Broten, N. W. (M)
Brown, C. B. (M)
Brown, W. C. (A)
Brunton, H. W. (M)
Bulger, G. E. (A)
Burtnyk, N. (A)
Byers, V. J. (SM)
Cairns, F. V. (M)
Campbell, L. L. (M)
Carriere, J. M. (M)
Carroll, D. V. (SM)
Castleman, D. H. (M)
Caton, W. A. (M)
Chapman, J. H. (SM)
Chown, B. F. (M)
Chrome, J. T. (M)
Chrzanowski, J. T. (M)
Clemence, C. R. (A)
Cole, W. A. (SM)
Cooper, R. J. G. (A)
Cope, L. G. (A)
Corbett, L. V. (M)
Cormack, G. D. (M)
Covington, A. E. (SM)
Cox, L. G. (M)
Craven, J. H. (A)
Cumming, W. A. (SM)
Dacey, M. J. (A)
Dashney, D. R. (A)
Davidson, D. W. (A)
Day, J. W. B. (M)
Des Brisay, A. W. Y. (M)
De Vinney, J. S. (A)

Doherty, L. H. (M)
Doucet, D. W. (M)
Duff, G. C. (A)
Elliott, R. E. (A)
Ennis, D. E. (A)
Evans, G. (M)
Farkas, J. (M)
Field, G. S. (F)
Field, P. A. (SM)
Flynn, H. (M)
Ford, J. G. (M)
Franklin, C. A. (M)
Freeman, R. E. (SM)
Gagne, R. R. J. (M)
Galbraith, R. A. H. (SM)
Gilbert, M. (M)
Gilmore, J. P. (M)
Glinski, G. (SM)
Grainger, G. E. (M)
Grant, D. A. (M)
Grundy, D. P. (M)
Hamilton, A. C. (M)
Hancharek, J. (A)
Haney, W. L. (SM)
Hansen, D. R. (A)
Hatton, W. L. (M)
Haufe, M. H. (A)
Hay, D. R. (SM)
Heal, J. A. (M)
Henderson, D. P. (M)
Henderson, J. P. (SM)
Henderson, J. T. (F)
Hendry, A. (M)
Holcomb, W. L. (M)
Hood, R. T. (A)
Hoppe, J. A. (M)
Hudson, A. C. (M)
Huget, W. J. (A)
Hughes, B. (M)
Hunt, F. R. (M)
Hurd, R. A. (M)
Jenkins, E. E. (M)
Jewell, L. (M)
Jones, R. H. (A)
Jones, S. G. (M)
Kalra, S. N. (M)
Kendall, W. S. (M)
Kenniger, A. (M)
Kenney, J. R. (A)
Klein, E. J. (M)
Knights, S. F. (SM)
Korczynski, W. F. (M)
Kydd, J. G. (A)
Lacey, W. K. (A)
Lake, G. T. (M)
Langille, R. C. (SM)
Lavrench, W. (M)
Lazecki, S. (M)
Lemay, R. B. (M)
Levy, M. M. (SM)
Locke, J. L. (M)
Loh, S. C. (M)
Lomas, E. G. (SM)
Loutit, J. A. (M)
MacDonald, V. C. (M)
MacKay, J. G. (M)
Mac Kinnon, K. A. (F)
MacLulich, D. A. (SM)
MacNair, E. A. (A)
Magee, A. I. (A)
Mah H. W. (M)
Makow, D. M. (M)
Matte, G. (M)
McCormick, G. C. (A)
McGrail, J. J. (M)
McIntosh, J. A. (A)
McIntyre, B. J. (A)
McKendry, B. A. (M)
McKinley, D. W. R. (F)
McLeish, C. W. (SM)
McNamara, A. G. (M)
Medd, W. J. (M)
Meek, J. H. (M)
Melton, R. E. (M)
Mercier, J. R. (M)
Mes, J. J. A. F. (M)
Miller, B. G. (M)
Miller, G. A. (SM)
Modley-Jones, H. S. (A)
Molozzi, A. R. (M)
Mooney, R. E. (M)
Moorcroft, D. R. (M)
Moore, D. A. (A)
Myhill, D. A. (M)
Neale, M. J. L. (M)
Nelson, L. E. (M)
Newton, K. G. D. (A)
Nikkel, R. F. (A)
Nixon, F. G. (A)
Norton, J. A. (M)
Olivero, M. A. (M)
Ouimet, J. A. (F)
Park, F. R. (SM)
Pattenson, C. F. (SM)
Pearse, C. D. (N)
Pedersen, B. O. (M)
Penstone, S. R. (M)
Phillips, L. W. (A)
Presentey, S. M. (SM)
Price, M. (M)
Primich, R. I. (M)
Pulfer, J. K. (A)
Radley, S. A. (M)
Raine, H. R. (A)
Rao, M. S. (SM)
Real, R. R. (M)
Redhead, P. A. (SM)
Reiche, H. (SM)
Rempel, C. (M)
Richards, R. S. (M)
Richardson, W. G. (F)
Riordon, J. S. (M)
Riordon, R. C. (A)
Risteen, H. C. (M)
Robinson, H. (M)
Robinson, T. J. B. (M)
Rowe, W. A. (M)
Rowlatt, J. H. (M)
Roy, O. Z. (M)
Ruedy, R. (A)
Sandoz, O. A. (SM)
Scott, W. W. (A)
Seaman, E. A. (A)
Searle, W. M. (A)
Sheffield, A. G. (SM)
Shepertycki, T. H. (A)
Sheppard, R. D. B. (SM)
Simpson, F. W. (M)
Skanes, D. M. (M)
Smith, F. E. (A)
Smith, J. N. (A)
Smyth, H. R. (SM)
Snyder, J. S. (A)
Soucy, C. I. (SM)
Staniforth, A. (SM)
Steele, K. A. (A)
Stock, E. H. (A)
Stone, S. A. (A)
Sturrock, J. K. (M)
Tamowski, H. J. (A)
Tant, V. E. (SM)
Taylor, A. L. (A)
Thain, R. S. (SM)
Timmers, A. G. W. (M)
Trohon, B. L. (A)
Vandervelden, C. G. (M)
Van Sandwyk, J. (M)
Von Baeyer, H. J. (SM)
Wahl, H. E. (M)
Warnock, H. P. (M)
Watson, G. D. (A)
Weaver, W. A. L. (A)
Webb, E. L. R. (SM)
Webb, P. R. W. (A)
Welsh, W. (M)
White, P. W. (M)
White, W. E. (SM)
Wilmot, R. D. (M)
Wilson, W. R. (SM)
Wittke, P. H. (M)
Wong, J. Y. (SM)
Wright, R. (SM)
Yurko, M. (M)

Painswick (TOR-8)
Warnica, I. H. (A)

Peterborough (BAY-8)
Flemons, R. S. (SM)
Grosso, J. E. (M)
MacKelvie, J. S. (SM)
Young, J. A. I. (M)

Picton Mil Camp (BAY-8)
Clerke, B. C. (A)

Port Arthur (TOR-8)
Hunter, W. C. (M)
Nattress, I. A. (M)

Port Credit (TOR-8)
Eaton, G. F. (M)
Etches, E. D. (M)
Macumber, M. G. (A)
Sparks, B. B. (A)

Port Rowan (LON-8)
Martin, J. O. (M)

Prescott (OTT-8)
Farvolden, E. (M)
Turski, S. (M)

Preston (HAM-8)
Buchanan, C. E. (A)

Ramore (TOR-8)
Whalen, A. D. (M)

Ramsayville (OTT-8)
Harris, L. H. (M)

Ravenna (HAM-8)
Fiegehen, G. D. A. (A)

Renfrew (OTT-8)
Belanger, J. P. (M)
Luedicke, E. (M)

Rexdale (TOR-8)
Brown, J. C. (A)
Bura, P. (SM)
George, J. N. S. (A)

Richmond (OTT-8)
Ford, W. J. (A)
Ling, T. G. (M)

Richmond Hill (TOR-8)
Burnie, W. A. (A)
Ford, F. A. (SM)

Riverside (LON-8)
Le Blanc, R. J. (A)
Mac Gregor, A. R. (A)
Seidler, H. G. (A)

Rockcliffe (OTT-8)
Fawcett, G. M. (SM)
Lepine, C. A. (A)

Roslin (BAY-8)
Hutson, G. E. (A)

Rouge Park (TOR-8)
Schokker, F. (A)

St. Catherines (HAM-8)
Gillard, W. H. (M)

St. Thomas (LON-8)
Hinz, E. J. (A)
MacDonald, R. D. (M)
Onn, W. R. (M)

Sarnia (LON-8)
Thomas, A. (M)

Sault Ste. Marie (TOR-8)
McRae, D. W. (A)

Scarborough (TOR-8)
Brownlee, B. P. (M)
Davidson, J. W. (M)
Flood, F. M. (A)
Hull, S. E. (A)
Keen, W. (A)
Kerridge, E. L. (M)
Koster, J. A. (M)
Kufluk, A. (M)
Lazenby, T. W. (A)
McGovern, J. R. (M)
Morfitt, D. C. (M)
Murphy, W. L. (A)
Noble, D. E. (M)
Preziosi, F. W. (M)
Prosper, J. E. (A)
Pugh, W. H. (M)
Rawley, J. W. (A)
Roots, W. K. (SM)
Shurben, W. E. (A)
Turner, R. J. A. (SM)

Selkirk (HAM-8)
Hoover, S. G. (M)

Severn Bridge (TOR-8)
Davy, A. S. (A)

Simcoe (LON-8)
Seifert, W. J. (A)

Sioux Lookout (TOR-8)
Andrews, N. E. (A)

South Mountain (OTT-8)
Graham, G. L. (A)

Stirling (BAY-8)
Glendinning, B. W. (A)

Stittsville (OTT-8)
Knowles, J. E. (A)
Rowe, G. C. (SM)

Stoney Creek (TOR-8)
Parker, H. J. (A)

Stouffville (TOR-8)
Dulmage, H. B. (A)

Stratford (LON-8)
Stillwater, J. (A)

Strathroy (LON-8)
Tanton, J. E. (A)

Streetsville (TOR-8)
Meredith, C. C. (M)
Meredith, C. J. (A)
Meredith, M. (M)
Taylor, W. (M)

Sudbury (TOR-8)
Leclaire, R. C. A. (M)
Maki, A. E. (A)

Swansea (TOR-8)
Bow, A. (A)

Thistletown (TOR-8)
Buckles, F. G. (M)
Harben, J. F. C. (M)
Sangster, R. (M)
Smith, K. C. (A)
Thomson, J. M. (SM)

Thornhill (TOR-8)
Giles, G. H. (A)
Poulter, R. C. (SM)
Stoddart, T. W. H. (M)
Watson-Watt, R. (F)

Timmins (TOR-8)
Amendola, B. (A)
Mott, E. D. (A)
Stocco, S. L. (A)

Toronto (TOR-8)
Amis, T. E. (A)
Armstrong, A. T. R. (A)
Arnold, C. P. C. (A)
Auffeger, A. R. (A)
Bacon, W. H. (M)
Bain, J. D. (SM)
Bain, J. R. (SM)
Baker, C. B. (A)
Baker, L. R. (M)
Baldwin, C. O. (M)
Baldwin, J. H. (SM)
Balmer, P. D. (SM)
Barclay, A. P. H. (SM)
Barker, N. G. F. (M)
Barratt, N. T. (M)
Beaudoin, D. P. (M)
Beechey, D. F. (M)
Bell, A. R. (M)
Bell, H. C. (A)
Berman, S. (A)
Berry, F. G. (M)
Billedeau, V. A. (A)
Black, R. G. (A)
Bogora, G. F. (M)
Bokhari, T. A. (A)
Bond, S. (M)
Bozoki, B. (A)
Bradley, R. T. (A)
Brammania, A. (M)
Bratsberg, W. P. (M)
Bridgland, C. J. (SM)
Bridgman, J. M. (M)
Brillinger, R. F. (M)
Brunn, G. F. (M)
Bull, T. R. (A)
Bullock, R. G. (M)
Burke, A. C. (M)
Byers, H. G. (SM)
Carew, S. J. H. (M)
Cary, F. C. (M)
Cass, R. S. (A)
Chambers, J. D. (M)
Chapman, R. (A)
Chaudhari, A. L. (M)
Chisholm, K. G. (M)
Choat, W. F. (M)
Ciszewski, A. (M)
Clark, A. L. (A)
Coats, W. D. (M)
Conway, J. C. (M)
Cook, R. M. (M)
Cox, H. G. (A)
Cox, R. E. (A)
Courtney, C. R. (A)
Coxall, N. (SM)
Dallyn, H. E. (A)
Dalzell, T. D. (M)
Davis, G. W. L. (M)
Davis, K. J. (A)
Davis, W. B. (M)
Dawson, H. S. (SM)
Deacon, F. W. (A)
Delbridge, W. A. (M)
Dennett, L. J. (M)
Dmitrevsky, S. (M)
Dmytrasz, W. (A)
Dobbin, G. K. (M)
Dudzik, F. (M)
Dunkl, F. S. (A)
Dutton, I. R. (A)
Dworkin, A. E. (M)
Dyjack, L. C. (A)
Eisen, D. M. (M)
Elliott, W. F. (M)
Erler, K. A. (A)
Evans, C. R. (A)
Evis, F. A. (M)
Farrell, G. L. (M)
Fincher, B. H. W. (A)
Freen, P. (M)
Freund, K. M. (A)
Galbraith, G. E. (A)
Galpin, W. H. (M)
Geiger, D. G. (SM)
Gent, L. F. T. (M)
Giacoletto, J. P. (SM)
Goldberger, R. (A)
Gracey, T. G. (A)
Graham, H. E. (A)
Grant, H. S. (A)
Gregson, J. H. (M)
Grzebien, B. (M)
Guberman, B. A. (A)
Hallam, P. A. (A)
Hames, A. L. (M)
Hamilton, H. E. S. (M)
Hanna, F. M. (SM)
Hansen, B. C. (A)
Hanson, J. V. (M)
Haraldsen, K. (M)
Harris, D. L. (M)
Hase, A. M. (M)
Hawkins, P. J. (M)
Heath, F. J. (SM)
Heenan, P. J. (A)
Henderson, V. L. (SM)
Herring, J. (A)
Hobbs, F. B. (VA)
Hobson, R. E. (A)
Holm, H. R. (A)
Houlgrave, A. G. (A)
Hugenholtz, E. H. (SM)
Humeniuk, P. (SM)
Hunter, J. B. (M)
Hynes, K. W. (M)
Ingram, G. R. (A)
Isserstedt, S. G. (M)
Itiniant, L. (A)
Jackson, H. W. (SM)
Jagger, C. E. (M)
James, W. E. (M)
Johnston, H. S. (A)
Jones, R. (M)
Jung, G. C. (A)
Juzycz, M. S. (M)
Karnas, J. A. (M)
Karwin, P. R. (M)
Kasner, I. I. (A)
Katchky, M. (M)
Kates, J. (M)
Kendall, R. V. (M)
Kerfoot, J. H. (M)
Keyser, G. M. (A)
Knowlton, K. R. (M)
Konn, A. (A)
Korchinski, J. (M)
Koski, L. N. (A)
Kravetz, A. J. (M)
Kukulki, W. V. (A)
Kupinsky, H. G. (A)
Kwan, B. (A)
Lane, H. R. (M)
Lang, G. R. (M)
Lightbody, H. A. (M)
Lisa, I. M. (M)
Lochanko, A. A. (M)
Loncarevic, B. D. (M)
Long, R. G. (M)
Longstaff, F. M. (M)
Longstaffe, J. R. (VA)
Lovas, A. (SM)
Love, S. F. (M)
Lowry, C. A. L. (M)
MacDonald, C. F. (M)
Mac Gregor, H. D. (M)
Mac Kenzie, K. (M)
Mackie, A. S. (M)
Mahmud, M. (M)
Marek, E. (A)
Marshall, O. H. (M)
Martens, G. O. (M)
Martin, R. H. (A)
Mathers, F. F. (A)
Maxwell, J. (A)
McCurdy, G. E. (M)
McFadden, H. W. (M)
McIntyre, R. G. (A)
McLaughlin, R. H. (M)
McMinn, W. B. (M)
McVity, J. R. G. (A)
Mitchener, H. G. (M)
Moher, R. B. (M)
Moran, T. M. (A)
Morris, D. V. (A)
Mosher, F. M. (A)
Muller, S. N. (A)
Mylrea, K. C. (A)
Nawrocky, R. J. (M)
Naylor, R. W. (SM)
Neal, J. T. (M)
Nightinggale, A. J. (M)
Norris, C. A. (SM)
Nylin, M. E. (M)
Oakes, C. R. (M)
Oakson, G. (A)
O'Beirne, H. (M)
Obukuro, A. D. (A)
Ormiston, J. W. (A)
Otsuki, J. S. (M)
Paisley, P. P. (M)
Paisley, S. R. (M)
Palin, E. L. (SM)
Parker, T. A. (A)
Paterson, S. G. (M)
Patterson, M. C. (M)
Paul, K. R. (M)
Paul, W. (M)
Pearce, R. G. (A)
Pelzer, F. W. G. (A)
Penner, R. J. (M)
Peprnik, H. O. (M)
Pickering, J. N. (M)
Pointon, C. G. (A)
Pollock, H. L. (M)
Polly, J. (A)
Ponzo, L. S. (M)
Ponzo, P. (M)
Pounsett, F. H. R. (F)
Price, E. G. (M)
Price, H. (M)
Price, L. M. (F)
Pryzdial, E. F. (A)
Purvis, W. J. (M)
Putz, H. R. (M)
Pynn, R. D. (SM)
Qua, E. W. (M)
Quigley, G. T. (SM)
Ratz, H. C. (M)
Raymer, R. J. (M)
Reale, E. P. (M)
Rennie, J. C. (SM)
Rhodes, C. E. (A)
Richards, G. A. (M)
Richardson, R. J. (A)
Ridout, J. R. (A)
Riegler, R. L. (A)
Robinson, W. A. (M)
Rogers, H. Z. (M)
Rose, A. B., Jr. (A)
Rosenthal, A. L. (SM)
Rowland, H. L. (A)
Roy, D. R. (M)
Ryll, E. (M)
Sandison, T. A. (SM)
Saunders, L. E. (A)
Saville, H. G. (M)
Schmidt, H. L. (A)
Scholfield, W. D. (M)
Schultz, R. M. (A)
Scott, J. V. (M)
Secord, A. H. (M)
Seljak, A. A. (A)
Sharp, V. S. (A)
Shintani, R. S. (A)
Shoemaker, H. F. (SM)
Simpson, B. H. (M)
Sinclair, G. (F)
Slemon, G. R. (M)
Smart, R. L. (A)
Smedmor, G. (A)
Smith, E. D. (A)
Smith, J. E. (A)
Smith, W. R. (M)
Snitke, J. A. (A)
Snowdon, G. R. (M)
Soanes, S. V. (M)
Spendlove, D. S. (M)
Stankovic, J. P. (A)
Stein, H. H. (M)
Stephenson, W. R. (M)
Stevenson, E. (M)
Stewart, A. C. (A)
Story, R. (M)
Stratton, B. L. (A)
Swan, C. B. (M)
Swan, E. O. (SM)
Sweeny, T. V. (M)
Taagepera, A. (A)
Tavner, B. H. (A)
Taraleshkov, B. M. (M)
Taylor, A. K. (M)
Taylor, B. N. (A)
Taylor, M. K. (SM)
Taylor, R. B. (A)
Tennent, B. (SM)
Tipple, H. L. (M)
Tomcio, N. (A)
Toye, J. M. (M)
Tuchak, W. G. (A)
Turner, K. A. (M)
Tustin, F. C. (A)
Urquhart, D. A. (A)
Van Steinburg, C. E. (M)
Vejins, M. (A)
Vennix, J. C. (A)
Vilcans, J. (M)
Vriesen, K. S. (M)
Vural, B. (M)
Ward, R. F. (A)
Warhurst, R. P. (A)
Wedgewood, R. S. (M)
Weedon, G. F. C. (A)
Westcott, D. B., (M)
Wheelans, R. B. (A)
Whyte, J. R. (M)
Williams, A. R. (A)
Williams, R. (M)
Wilson, R. W. (M)
Wong, R. D. C. (A)
Wood, A. E. (M)
Wray, D. P. (M)
Wywiorski, M. (A)
Yen, J. L. (A)

Trenton (BAY-8)
Cartlidge, A. E. (A)
Holmes, W. H. (M)
Mann, W. R. (SM)
Pfeiffer, J. T. (VA)
Tiller, R. W. (A)
Turney, G. M. (A)
Walsh, J. J. (M)

Wallaceburg (LON-8)
Lawson, R. (A)

Waterdown (HAM-8)
Chapman, C. N. (SM)
Van Marle, J. C. (M)

Waterloo (HAM-8)
Ceelen, P. A. J. (M)
Flumerfelt, L. R. (M)
Kadish, J. E. (SM)
Leslie, J. D. (M)
Oddson, J. K. (M)
Samson, J. F. (A)

Wellandport (HAM-8)
Matys, S. J. (M)

Westboro (OTT-S)
Henshaw, C. H. (A)

Weston (TOR-S)
Beasley, B. C. (M)
Galvin, P. (M)
Williams, H. S. (A)

Whitby (TOR-S)
Matthews, R. P. (SM)
McLeod, J. W. (M)
Vogt, G. A. (M)

Wiarton (LON-S)
Sit, J. K. J. (A)

Willowdale (TOR-S)
Ainlay, A. (SM)
Armitage, G. G. (M)
Baldwin, J. O. (M)
Bedingham, G. M. (M)
Bradbury, W. C. (M)
Crouch, M. B. (A)
Davies, B. E. (M)
Eakins, J. R. (A)
Elliott, A. W. D. (M)
Goldman, S. J. (A)
Hackbusch, R. A. (F)
Jordan, J. L. (M)
Kelk, G. F. (M)
Leaver, E. W. (M)
McDowell, G. E. (M)
McLaughlin, G. H. (A)
Mounce, G. R. (M)
Pearcese, K. M. (M)
Plechota, A. (M)
Purdy, T. W. (M)
Simpson, J. R. (M)
Walsh, G. J. (M)
Watt, C. M. (A)
Yachimec, P. (M)

Windsor (LON-S)
Barnes, E. M. (A)
Clark, R. A. (M)
Elvidge, R. E. (A)
Green, R. R. (SM)
Halas, E. (A)
Kiss, J. A. (A)
Levasseur, J. R. A. (A)
Papich, M. G. (M)
Parent, C. J. (M)
Perrault, O. S. (A)
Rinn, E. J. J. (A)
Tuba, W. C. (A)
Virtue, G. L. (A)
Walker, G. B. (A)

Woodstock (LON-S)
Gandy, L. D. (M)

PROVINCE OF QUEBEC

Ayimer, East (OTT-S)
France, J. R. (M)
Wells, G. (A)

Bagotville (MON-S)
Pearce, G. E. (A)

Baie D'Urfe (MON-S)
Booker, C. C. (A)
Whitmore, E. J. (SM)
Wighton, J. J. (A)

Beaconsfield (MON-S)
Kipp, C. F. (A)
Theriault, E. E. (M)
Turnbull, J. A. (A)
Willows, D. J. (M)

Beauharnois (MON-S)
Hauver, R. H. (A)

Beauport (MON-S)
Lavoie, J. L. (M)

Beaurepaire (MON-S)
Bell, J. W. (F)
Lisle, J. R. D. (M)
Morrison, W. B. (M)

Bedford (MON-S)
Patrick, K. R. (SM)

Cartierville (MON-S)
Lurion, E. (M)

Charney (MON-S)
Lapointe, J. (A)

Chaudiere Bassin (MON-S)
Cote, J. P. (A)

Cote St. Luc (MON-S)
Pascal, J. (A)
Pullan, E. (M)
Rudzitis, A. (A)

Dorval (MON-S)
Bogstad, F. O. (M)
Coughlin, F. J. (A)
Cox, J. R. G. (M)
Floyd, F. J. (M)
Hodgson, A. (M)
Maclennan, N. D. (M)
Postema, G. B. (M)
Scott, R. (SM)

Drummondville (MON-S)
Marceau, J. P. (M)
McWilliam, E. A. (VA)
Millar, R. B. (A)
Payette, R. (M)

Fort Chambly (MON-S)
Davies, K. P. (M)

Granby (MON-S)
Jedrychowski, J. L. (SM)
Sterling, J. A. (A)
Ursano, A. (M)

Halet (OTT-S)
Bellavance, F. (A)

Hampstead (MON-S)
Kingan, J. J. (SM)
Wallace, O. C. S. (A)

Hudson Heights (MON-S)
Summers, L. I. (A)

Hull (OTT-S)
McDowell, W. J. (M)

Ile Perrot (MON-S)
Martin, R. E. (A)

Isle Bigras (MON-S)
Clarkson, L. (M)

Labelle (MON-S)
Giroux, R. (A)

L'Abord a Plouffe (MON-S)
Aston, J. P. (SM)
Chadwick, S. (M)
Neville, A. H. (M)
Smith, G. C. (A)
Weytse, D. W. (A)

Lachine (MON-S)
Clarke, J. L. (M)
Isaac, V. E. (A)
Kelsey, E. S. (SM)
Milne, A. F. (A)
Pinnell, J. E. (M)
Walker, A. S. (M)
Wright, D. F. (M)

Lakeside (MON-S)
Livis, M. J. (A)

Laval West (MON-S)
Baumans, H. W. (M)
Riddell, R. S. (M)

Levis (MON-S)
Bernier, J-G. (M)
Pelletier, R. M. (A)

Longueuil (MON-S)
Kennedy, A. E. (A)
Paquette, A. (A)
Robillard, P. A. (M)

Marieville (MON-S)
Bilocq, R. E. (A)

Mascouche (MON-S)
Dixon, G. L. (M)

MacDonald College (MON-S)
Blevis, E. H. (M)

Masson (OTT-S)
Wilcox, D. A. (A)

McMastersville (MON-S)
Stirling, P. H. (M)
Wood, H. H. (M)

Mont Apica (MON-S)
Mawdsley, J. S. (M)

Montreal (MON-S)
Adkar, C. K. (M)
Aikenhead, B. A. (M)
Allen, D. E. M. (M)
Allen, R. E. (A)
Andrews, A. H. (M)
Archambault, G. (M)
Arena, G. (A)
Argue, T. A. (M)
Bachynski, M. P. (M)
Bailey, G. J. (M)
Baily, F. A. A. (M)
Banham, J. (M)
Bantin, W. P. (M)
Barcelo, P. O. (A)
Barrow, F. A. (VA)
Barry, A. (A)
Bar-Urian, M. (A)
Baudot, J. A. (M)
Baylis, G. F. (M)
Beaulieu, W. R. (M)
Beer, W. J. (A)
Begley, R. G. (M)
Bellringer, C. C. E. (M)
Beresford, A. C. (M)
Bernier, J. C. (SM)
Berridge, B. M. (M)
Berube, J. P. G. (A)
Berube, R. (M)
Bird, L. T. (M)
Boisvert, C. (A)
Bond, D. W. (M)
Bonneville, S. (SM)
Bosisio, R. G. (A)
Bourbonnais, P. J. (M)
Bryden, J. E. (M)
Buck, L. G. (SM)
Buizert, H. (M)
Burridge, M. V. (A)
Busby, B. F. (M)
Campbell, A. F. (M)
Campbell, J. A. (SM)
Cardella, O. (M)
Caron, J. Y. (M)
Carr, E. (A)
Carruthers, W. E. (M)
Carty, D. G. (A)
Catlin, R. G. (M)
Challis, W. L. (A)
Chapman, S. J. (M)
Chipps, G. E. (M)
Clapp, R. O. (M)
Clarke, H. W. (A)
Clement, L. J. (A)
Conroy, J. M. (SM)
Corbeil, M. J. (M)
Cunha, S. H. (M)
Dasko, G. J. (A)
David, E. (M)
De Haas, T. (M)
Demers, P. (A)
Derzai, M. (A)
Desjardins, A. A. (A)
Desser, M. S. (A)
Dewey, D. L. (M)
Dinnin, A. J. (M)
Doiron, J. A. B. (A)
Douglas, J. M. (M)
Douglas, J. C. (M)
Dube, J. J. (M)
Dubreuil, E. J. (M)
Eaker, L. C. (M)
East, L. A. W. (SM)
East, T. W. R. (SM)
Elliott, L. W. (M)
Evans-Jones, W. (A)
Faarnell, G. W. (A)
Fabiszewski, H. (M)
Ferenczy, M. (M)
Fisher, C. B. (M)
Fisher, F. S. (M)
Fisher, G. T. (M)
Fisher, S. T. (SM)
Flom, M. (M)
Fodor, N. J. (A)
Forman, J. (SM)
Forster, B. D. (M)
Fortin, C. (A)
Fratkin, B. (M)
Frenette, C. (M)
Frenette, R. H. (M)
Friedlander, W. (M)
Gagnon, P. (A)
Gannon, R. J. (A)
Gaon, D. (M)
Gauthier, G. M. (M)
Germain, L. V. (A)
Gilmer, D. R. (M)
Ginsberg, G. (A)
Ginsburg, I. (A)
Goossen, G. N. (M)
Gordon, K. I. (M)
Gorfinkel, G. G. (A)
Gould, S. (A)
Gruner, L. (M)
Gravel, J. J. O. (A)
Groome, G. R. (M)
Haddon, A. G. (M)
Hall, J. S. (A)
Hamilton, H. A. (A)
Hansard, H. H. (M)
Hansen, A. K. (SM)
Harper, M. J. (M)
Harris, K. B. (SM)
Harrison, B. M. (A)
Hatzidakis, K. (M)
Haworth, I. F. (A)
Hayes, J. E. (F)
Heckman, G. R. (M)
Heines, J. M. H. (M)
Heybroek, C. J. (A)
Hildebrandt, A. E. (M)
Hings, H. J. (M)
Hobbs, N. M. (M)
Hodge, N. H. (M)
Holm, F. H. (M)
Homa, D. M. (M)
Horrigan, E. W. (SM)
Howard, D. J. (M)
Howes, F. S. (F)
Hryhorijiw, W. (M)
Hunt, A. B. (SM)
Ingram, D. E. (M)
Inkster, W. J. (M)
Jackson, J. E. (SM)
Jackson, R. W. (M)
Jamieson, F. C. (M)
Jamshedji, J. S. (M)
Johnston, R. F. (M)
Julien, G. J. C. (A)
Kager, G. H. (M)
Kahan, J. G. (M)
Kahn, I. (A)
Katz, L. (M)
Kaufman, H. (M)
Keller, E. (M)
Keyes, L. A. (A)
King, C. M. (A)
Knitel, E. J. M. (M)
Knox, D. E. (M)
Knox, J. B. (F)
Koblin, S. (A)
Kruusement, J. (A)
Kubina, S. J. (A)
Kurlents, H. (M)
La Ferriere, P. J. (M)
Lank, G. W. (M)
Laporte, J. M. (M)
Larallee, P. (M)
Leahy, T. D. (M)
L'Ecuyer, P. A. (M)
Lee, P. J. L. (M)
Lees, K. C. (A)
Leftheris, J. P. (M)
Legault, E. G. (M)
Leinwand, J. J. (M)
Levasseur, G. Y. (M)
Litchfield, F. F. (A)
Litwin, M. M. (M)
Lunn, H. J. (M)
MacDonald, F. X. (M)
MacKimmie, G. B. (M)
MacPherson, M. F. (M)
Malolepszy, V. (M)
Marcotte, J. (M)
Margolick, F. H. (M)
Marshall, G. K. (A)
Marshall, J. L. (M)
Martin, J. H. (M)
McDonald, D. J. (SM)
McGuire, C. H. (SM)
McIntosh, B. A. (A)
McNeil, E. T. (M)
Meller, I. V. (M)
Meunier, J. L. (M)
Middleton, L. (M)
Millborne, H. S. (M)
Minkiewicz, M. D. K. (M)
Mockler, T. P. (A)
Moen, H. P. (M)
Moore, E. J. (M)
Murphy, P. E. (M)
Nachfolger, N. (M)
Nadon, L. (A)
Nagami, T. T. (A)
Nakamachi, P. Y. E. (M)
Nichols, W. A. (F)
Nienaltowski, W. (M)
Norton, R. J. (M)
Noyes, J. F. (M)
Olding, N. R. (SM)
Ornstein, W. (A)
Oxley, A. B. (F)
Parsons, G. W. (M)
Patton, R. J. (M)
Pauch, J. E. (M)
Pavlasek, T. J. F. (M)
Pedrosa, J. B. (M)
Penton, R. E. (SM)
Plibe, R. (M)
Poznanski, Z. (M)
Prichodjko, A. (M)
Provost, P. (A)
Provost, Y. (A)
Pscheidt, K. (A)
Pugsley, J. D. (A)
Quinn, S. F. (M)
Rasmussen, F. H. (M)
Reeves, R. (A)
Reidy, M. G. (A)
Richard, G. B. (A)
Rodd, D. G. (M)
Rolland, S. F. (M)
Ross, G. M. (M)
Roth, S. (A)
Ruden, J. (A)
Rumin, N. C. (M)
Russell, D. F. (M)
Salmon, R. L. (A)
Sauchuk, J. M. (M)
Sawitzki, N. (M)
Schneider, R. S. (A)
Schoner, B. (M)
Schroeder, K. A. (A)
Schwartz, H. H. (SM)
Segal, B. M. (M)
Sekel, P. (SM)
Sequera, T. C. (M)
Serbyn, R. (M)
Shearer, C. W. (SM)
Sherman, B. N. (M)
Shkarofsky, I. P. (M)
Sibley, G. B. (M)
Silberberg, N. (M)
Smith, F. A. (SM)
Solar, L. (M)
Sophianopoulos, A. A. (A)
Steel, W. A. (F)
Steinmetz, N. (A)
Stovman, J. A. (M)
Sumner, H. C. (M)
Tahirali, G. W. (A)
Tatlock, J. F. (A)
Taylor, K. J. (M)
Tiberghien, C. M. J., Jr. (M)
Thrasher, P. J. (A)
Toczylowski, H. S. (SM)
Tucker, D. C. (M)
Turton, E. P. (A)
Vaux, L. J. (M)
Venn, B. A. (M)
Vincent, J. J. (M)
Vogel, N. I. (M)
Wachholz, E. (M)
Wagner, S. (SM)
Wallace, R. J. (SM)
Walsh, D. (A)
Warren, F. G. R. (SM)
Watson, J. C. (M)
Weaver, J. H. (M)
White, R. A. (A)
Whitehead, J. R. (SM)
Wilks, J. H. (M)
Wiseman, R. T. (M)
Wolff, W. A. (A)
Woodman, B. H. (A)
Woonton, G. A. (F)
Woosey, S. (M)
Zakaib, L. J. (M)
Zelinger, G. (M)
Ziemelis, V. (M)

Outremont (MON-S)
Akerman, I. (M)
Blostein, M. L. (M)
Guevremont, J. U. (M)
Malina, B. (M)
Pinsky, C. (A)
Slaven, L. (A)

Pointe Claire (MON-S)
Collins, J. A. (M)
Curtis, R. W. (M)
Davidson, G. K. (M)
Gissing, H. R. (SM)
Glegg, K. C. M. (M)
Gregory, A. H. (M)
Lee, F. B. (A)
Mackenzie, D. G. (M)
Muller, R. A. (SM)
Papouschek, F. (M)
Sutherland, J. G. (M)
Wells, A. F. (M)
Williams, F. F. (M)
Williamson, R. B. (M)

Port Alfred (MON-S)
Gagnon, L. A. (M)

Quebec (MON-S)
Baby, J. (M)
Beaulieu, J. A. (M)
Boulet, L. (SM)
Chabot, M. A. (M)
Chinnick, R. F. (M)
Cote, L. J. A. (A)
Cummins, J. A. (M)
Dion, A. (A)
Giguere, R. (M)
Gladwin, A. S. (M)
Gosselin, L. (A)
Guerbilsky, A. (M)
Lafamme, A. K. (M)
Lefebvre, R. A. (A)
L'Heureux, L. J. (M)
Lortie, A. L. (M)
Miller, E. W. (M)
Moir, L. E. (M)
Morewood, H. W. (A)
Nadeau, A. G. (M)
Park, K. R. (A)
Paul, R. A. (A)
Porter, R. G. (A)
Pouliot, J. A. (M)
Roberts, A. R. V. (M)
Robichaud, L. P. A. (A)
Routledge, N. D. (A)
Rhodes, A. J. (M)
Somers, H. (A)
Spindler, G. B. (M)
Stobo, J. D. (A)
Surtees, W. J. (M)
Thistle, W. G. (M)
Wildi, T. (M)

Rimouski (MON-S)
Ouellet, A. (M)

Riviere du Loup (MON-S)
Lavoie, L. (M)

Rosemere (MON-S)
Dingwall, R. A. (M)

Rosemount (MON-S)
Robinson, M. R. (A)

Rozboro (MON-S)
Roloff, W. T. (M)

Saguenay (MON-S)
Friedmann, E. (A)

St. Anne de Bellevue (MON-S)
Birman, G. (M)

St. Antoine de Tilly (MON-S)
Methot, F. R. (A)

St. Bruno (MON-S)
Davis, J. F. (M)
Despins, L. J. (A)

St. Eustache (MON-S)
Janssen, T. A. M. (M)
Ramsay, J. F. (A)
Reid, J. N. (A)

St. Foy (MON-S)
Baril, J. C. (A)
Bobyn, E. J. (M)
Dumas, J. E. (M)
Fortin, G. J. E. (A)
Francis, A. E. (A)
Letarte, M. (M)
Regniere, J. P. (A)
Vaillancourt, R. M. (A)

Ste. Genevieve (MON-S)
Bailey, P. H. G. (M)
Haberl, J. F. (A)
Kassner, M. H. (M)
Whittaker, J. A. (M)

St. Hyacinthe (MON-S)
Leclerc, J-G. (A)

St. Hubert (MON-S)
Lindsey, G. R. (M)

St. Jean (MON-S)
Boutin, A. J. J. (M)

St. Jerome (MON-S)
Rinfret, C. J. (M)

St. Lambert (MON-S)
Barrie, W. H. (A)
Ferris, H. A. (SM)
Hammond, R. E. (SM)
Lemke, M. F. (M)
Roach, C. L. (M)
Rousseau, M. (M)
Watson, D. J. (M)

St. Laurent (MON-S)
Aasgaard, P. U. (M)
Bousfield, J. A. T. (SM)
Cahn, P. R. G. (M)
Dutkowski, W. (A)
Hanna, D. C. (M)
Leitch, D. H. (A)
Lumsden, R. B. (SM)
Rawlins, W. A. (M)
Wilson, S. S. (M)

St. Paul L'Ermite (MON-S)
Malcolm, F. W. (SM)

St. Rose (MON-S)
Reynolds, K. A. (M)
Robinson, H. A. (SM)

St. Sauveur des Montagnes (MON-S)
Jaderholm, H. W. (VA)

Ste. Therese de Blainville (MON-S)
Farmer, E. W. (SM)

Senneterre (MON-S)
Carroll, F. W. (M)

Shawinigan (MON-S)
Fornasier, O. E. (M)

Sillery (MON-S)
Boisvert, M. (M)
Du Berger, P. (M)
Dure, J. D. (M)
Gagnon, R. (M)
Gobeil, C. E. (M)
Legare, G. (A)
Macfarlane, J. T. (M)
Randoin, R. A. (A)

Strathmore (MON-S)
Steen, R. O. (M)

Terrebonne (MON-S)
McKeon, R. M. (M)

Three Rivers (MON-S)
Arsenault, L. (M)
Audet, H. A. (M)
Gelinas, L. (A)
Laperriere, J. J. (M)

Town of Mt. Royal (MON-S)
Borden, B. C. (A)
Desaulniers, R. R. (M)
Dobridge, R. W. (M)
Jackson, E. A. (SM)

Letts, R. (M)
Pollock, B. N. (M)

Valois (MON-8)
Rugg, H. H. (SM)
Russell, W. D. (M)
Whittaker, J. F. (M)

Vercheres (MON-8)
Dandois, G. P. F. (M)
Julien, M. J. R. (A)

Verdun (MON-8)
Belanger, J. P. (A)
Dumas, L. (M)
Mechas, M. G. (A)
Parent, G. J. C. (A)
Redmond, G. W. (A)

Victoriaville (MON-8)
Langois, C. M. (M)

Ville La Salle (MON-8)
Ducker, P. G. (M)
Pinnell, S. E. A. (M)

Ville St. Laurent (MON-8)
Cooke, R. W. (SM)
Doucet, M. (A)
Doutre, B. G. (M)
Mairet, G. F. (A)
Moore, L. R. (M)
Oakes, H. S. (A)
O'Neill, G. A. (M)
Robbins, M. A. (M)
Sankey, C. (A)

Westmount (MON-8)
Agnew, J. A. (A)
Amey, G. X. (M)
Caswell, C. F. (M)
Christmas, W. I. (A)
Dorey, J. D. (A)
Raymsford, R. P., Jr. (M)
Smith, P. D. P. (M)
Ubbelohde, J. H. (A)

Yamachiche (MON-8)
Bird, C. H. R. (VA)

SASKATCHEWAN

Eldorado (REG-8)
Petrick, J. (A)

Gull Lake (REG-8)
Bartole, G. C. (A)

Orbow (REG-8)
Banks, K. M. (M)

Regina (REG-8)
Brock, G. A. (A)
Chesters, B. H. (A)
Cosine, L. V. (A)
Dean, H. C. (A)
Ferguson, G. E. (A)
Funk, J. A. (M)
Gibson, E. M. (A)
Gjernes, E. M. (A)
Gracie, K. R. (A)
Grant, F. D. (A)
Hawley, K. T. (M)
Highet, W. C. (M)
Kaldor, H. (M)
Kerr, H. (A)
Lee, S. F. (M)
Lewis, A. W. (A)
McBride, L. E. (M)
McEwen, W. D. (A)
McKay, W. (M)
McNeil, J. M. (M)
Moyer, L. S. (M)
Norman, C. H. (A)
Odling, E. C. (A)
Off, F. X. (A)
Punshon, R. L. (M)
Savage, M. C. (A)
Smith, S. K. (M)
Sundeen, P. G. (M)

Rowatt (REG-8)
O'Byrne, L. A. (A)

Saskatoon (REG-8)
Gordon, D. A. (A)
Green, F. D. (M)
Hoskins, L. C. (M)
Kavadas, A. D. (M)
Michalenko, A. (M)
Sebulsky, E. (A)
Wacker, A. G. (M)

Semans (REG-8)
MacGregor, R. J. (A)

Weyburn (REG-8)
Baker, K. D. (M)

YUKON

Teslin (NA-8)
Berwick, C. D. (A)

Watson Lake (NA-8)
Svrcek, L. (A)

Whitehorse (NA-8)
Parent, L. E. (M)

CANAL ZONE

Balboa
Overby, H. A. (SM)

Cristobal
Brannan, F. T. (A)

Curundu
Adams, C. W. (A)

Fort Amador
Earl, E. O. (A)

Quarry Heights
Hamilton, G. H. (A)

CEYLON

Colombo
Gnanalingam, S. (M)

Panadura
Adikaram, K. B. (A)

CHILE

Chuquicamata
Berrevoets, G. J. (A)

Potrerillos
Ribbeck, C. S. (A)

Punta Arenas
Femenias, J. L. (A)

Rancagua
Collyer, J. H. (M)

Santiago
Cerda, H. E. (A)
Hortuvia, F. A. (A)
Isely, F. C. (SM)
Vallarino, A. D. (M)

Vina Del Mar
Brito Infante, J. M. (A)

COLOMBIA

Bogota
Amore, I. (M)
Arce H., H. (M)
Beeny, L. S. (SM)
Charlole, R. O. (A)
Clavijo-j, L. G. (M)
Estevez, C. L. (M)
Fric, M. (A)
Garbrecht, F. S. (M)
Gabriunas, K. B. (A)
Lopez-Aparicio, J. (M)
Meek, T. J., Jr. (SM)
Neira-M, T. (A)
Pick, L. M. (M)
Reyes, J. H. (A)
Scott, C. B. (M)
Smith, D. L. (A)
Torres-Galvez, C. A. (M)
Villegas, A. (M)
Williams, J. H. (M)

Cartagena
Funfstuck, H. (M)

Medellin
Nassar, J. E. (M)
Orozco C., G. (M)
Vieco B., G. (M)

Valle
Ramirez-Saenz, A. (M)

Santa Marta
Owen, H. (A)

COSTA RICA

San Jose
Carazo G., L. E. (A)
Craigie, S. M. (SM)
Vargas, V. A. (A)

CUBA

Havana
Arnaud, J. P. (F)
Barguez, R. (A)
Barranco, A. A. (M)
Bode, M. C. (A)
Borden, F. W. (M)
Condom, A. S. (SM)
De Cubas, J. D. (M)
Estrada-Castro, C. J. (A)
Harris, F. (SM)
Madariaga, J. F. (A)
Magno, H. T. (SM)
Martinez, A. (A)
Miller, K. E. (M)
Misner, P. E. (A)
Montes, J. V. (A)
Pages, E. V. (A)
Pella, A. (A)
Rojas, H. D. (M)
Roth, M. C. (M)
Siddall, W. D. (A)
Torres-Ruiz, J. G. (A)

Marianao
Guiral, R. L. (M)

Oriente
Reguera, J. J. (A)

CYPRUS

Kyrenia
Gallihugh, J. T. (A)
King, F. N. (M)

Nicosia
Bloom, R. A. (A)
Katzelis, N. G. (M)
Wilson, F. C. (A)

CZECHOSLOVAKIA

Prague
Bena, J. J. (M)
Blecha, J. (A)
Cetkovsky, J. (A)
Havelka, G. (M)
Horna, O. A. (M)
Savel, J. (A)
Sedmidubsky, Z. (M)
Snejdar, V. (M)

DENMARK

Bagsvaerd
Elnegaard, E. (A)

Copenhagen
Carstens, L. (A)
Fagt, B. (M)
Findal, P. (M)
Funch, O. (A)
Gronlund, M. P. S. (A)
Grue, O. E. (M)
Ingerslev, F. H. B. (SM)
Jacobsen, H. V. (M)
Larsen, B. F. (M)
Linnet, C. (A)
Lund, C. O. (M)
Morch, V. H. (A)
Nielsen, B. A. (A)
Nielsen, J. O. (SM)
Overlie, P. T. (M)
Pedersen, S. A. C. (SM)
Petersen, B. S. (A)
Poulsen, S. W. L. (M)
Rindbo-Petersen, E. (M)
Sorensen, E. V. (A)

Gentofte
Pedersen, N. T. (A)
Svensson, R. (M)

Glostrup
Jensen, K. B. (M)
Langgaard, E. (M)
Norgaard, A. K. (A)

Hellerup
Pedersen, G. (SM)
Rybner, J. (F)

Hillerod
Christensen, O. (A)

Lyngby
Holten, C. U. (M)

Naerum
Kjaer, V. (A)

Roskilde
Christiansen, E. M. (A)
Hansen, G. K. F. (M)

Struer
Christensen, K. H. (A)
Jensen, S. E. (M)

Taastrup
Fabrin, K. W. (A)

Valby
Nag, D. S. (M)

Virum
Bruun, G. (SM)
Jorgensen, B. (M)

DUTCH GUIANA

Suriname
Conant, R. D. (M)

EAST CAROLINE ISLANDS

Truk Islands
Hammons, E. G. (A)

ECUADOR

Guayaquil
Hussein, N. A. (A)

Quito
Barton, C. H. (M)
Jacobson, H. P., Jr. (SM)
Larson, A. G. (M)
Lintz, H. E. (M)
Rota, L. (M)

EGYPT

Alexandria
Ahmed, A-L. I. (M)
El-Sabbagh, H. H. (SM)

Cairo
Abu-Kandeel, A. A. (M)
Abu-Zeid, M. M. (M)
Amer, S. (A)
Constantinidis, G. (A)
El Harty, A. K. (M)
Elkashlan, E. I. (A)
El-Kharadly, M. M. Z. (A)
El Kotoury, A. S. (M)
El-Said, M. A. H. (SM)
Fahmy, A. I. (A)
Fahmy, M. N. (A)
Fathy, A. E. H. (A)
Fouad, M. E-E. (SM)
Grdseloff, L. (M)
Hassan, B. (A)
Ismail, M. A. W. (A)
Kamal, A. A. (M)
Mahmoud, A. A. (M)
Mahmoud, H. M. (M)
Makar, R. T. (M)
Metwally, M. S. (A)
Nasr, T. (A)
Reda, M. S. (M)

EL SALVADOR

San Salvador
Richardson, A. S. (M)

ENGLAND

BEDFORDSHIRE

Bedford
Kendall, J. T. (SM)
Luton
Dunn, S. C. (M)

BERKSHIRE

Abingdon
Cooke-Yarborough, E. H. (M)
Fry, D. W. (A)
Wells, F. H. (F)
Westwood, D. (M)

Aldermaston Wharf
Parry, R. V. (SM)

Bracknell
Stainthorpe, R. L. (M)
Webb, H. H. (M)
Wood, J. (M)

Maidenhead
Barrett, J. (M)
Sharpe, G. E. (M)

Newbury
Brooke, H. A. (SM)

Sunningdale
Taylor, R. H. (M)

Taplow
Den Brinker, C. S. (M)

Wantage
Cox, R. J. (M)

Windsor
Cotty, W. F. (A)

BUCKINGHAMSHIRE

Bletchley
Deards, S. R. (M)
Welling, A. J. (A)

Gerrards Cross
Diver, F. G. (SM)
Morton, H. B. (M)
Pearce, A. F. (SM)

Great Missenden
Reyner, J. H. (SM)

High Wycombe
Ludgate, F. E. (SM)
Simmonds, J. C. (A)

Iver
Rhys-Jones, J. E. (SM)

Newport Pagnell
Boswell, I. I. (A)

Slough
Wilkins, A. F. (F)

Stoke Poges
McLean, F. C. (SM)

CAMBRIDGESHIRE

Cambridge
Cope, J. E. (SM)
Dalgleish, J. W. (SM)
Edwards, B. J. (SM)
Germany, L. W. (M)
Havranek, W. A. (M)
Havranek, W. C. R. (M)
Jones, J. D. (SM)
Karp, A. (SM)
Moullin, E. B. (SM)
Nelms, G. L. (M)
Pound, J. P. (M)
Rao, J. (M)
Ratcliffe, J. A. (F)

CHESHIRE

Cheadle
Roberts, W. G. F. (SM)

Cheadle Hulme
Fielding, E. A. (M)

Hale
Grimsdale, R. L. (M)

Helsby
Walker, H. (SM)

Mellor
White, G. J. (M)

Wallasey
Brisbar, P. J. (A)

CORNWALL

Fowey
Sutherland, J. G. A. (SM)

CUMBERLAND

Carlisle
Topping, J. (M)

Maryport
Elliott, I. (A)

DERBYSHIRE

Derby
Buckland, V. (A)

DEVONSHIRE

Devonport
Fairfax, O. M. (SM)

Paignton
Macnee, D. H. (SM)

DORSETSHIRE

Ferndown
Hooper, J. L. (A)

Portland
Glover, R. A. (A)

DURHAM

Peterlee
Angell, A. G. H. (SM)

ESSEX

Barking
Bulgin, A. F. (SM)

Brentwood
Gooday, R. A. H. (SM)

Burnham-on-Crouch
Jerry, L. C. (F)

Chelmsford
Amey, S. H. (A)
Anderson, E. W. (SM)
Cafferata, H. (M)
Chandra, A. N. (M)
Churchman, A. (M)
Cooper, V. J. (A)
Deeley, A. R. (M)
Forte, S. S. (M)
Heledon, P. B. (M)
Latham, C. (M)
Markenscoff, A. C. (M)
Parker, J. W. (M)
Rao, N. V. (M)
Smith, F. L. (SM)
Sowerbutts, D. (M)

Colchester
Howe, F. R. (M)

Danbury
Young, A. J. (M)

Hornchurch
Ringrose, J. W. (M)

Ilford
O'Brien, D. (M)

Romford
Godbold, B. C. (M)
Pitts, W. J. (M)
Stott, H. T. (SM)

Southend-on-Sea
Clark, J. E. (SM)
Kannan, S. (M)

Theydon Bois
Roberts, R. S. (SM)

Waltham Abbey
Strafford, F. R. W. (SM)

Westcliffe-on-Sea
Dastidar, P. B. (A)

GLOUCESTERSHIRE

Bristol
Ackroyd, J. (M)
Connerton, C. D. (SM)
Summers, L. E. A. (M)

Cheltenham
Fisher, E. C. (M)

Yates
Leeson-Magry, A. J. (A)

HAMPSHIRE

Andover
Cook, K. L. W. (A)

Basingstoke
Younson, E. J. (M)

Bournemouth
Sieger, J. (SM)

Christchurch
Parnell, H. R. (M)

Cosham
Scott-Taggart, J. (F)

Farnborough
Dale, T. G. M. (M)
Hobday, S. W. (M)

Havant
Rzymowski, E. (A)

Headley Down
Coursey, P. R. (A)

Portchester
Rouse, F. W. D. (A)

Portsmouth
Bettinson, S. F. (M)
Silvester, D. D. (M)

Southampton
Nowicki, J. R. (A)

HERTFORDSHIRE

Aldenham
Johnston, D. L. (M)

Barnet
Capelli, M. P. (M)
Wrede, D. F. (M)

Boreham Wood
Laverick, E. (SM)

By Tring Station
Silson, R. G. (A)

Cockfosters
Cattanes, E. (SM)

Hatfield
Millward, M. A. (M)

Hertford
Parker, A. H. (M)

Hitchin
Hume, C. R. (A)
Sowerby, J. M. (M)

Hoddesdon
Lyons, C. L. (SM)

Letchworth
Cartwright, J. R. (M)

North St. Albans
Knight, D. J. (M)

Radlett
Hedges, T. C. (M)
Howse, H. A. G. (SM)

Rickmansworth
Davidson, I. A. (M)
Montgomery, A. W. (F)

St. Albans
Chaffey, R. (M)
Garthwaite, J. L. (A)
Hornby, F. R. (A)

Stevenage
Lewis, F. J. (M)
Schotten, H. G. (M)

Ware
Hicks, B. W. (M)

Welwyn Garden City
Evans, W. C. A. (M)
Grenly, M. (A)

KENT

Beckenham
Crawley, H. J. (A)

Bexleyheath
Brown, D. C. (M)
Herdman, T. L. (M)

Broadstairs
Saunter, H. D. (A)

Bromley
Kiryluk, W. (M)
Stoner, C. R. (M)

Chatham
Terry, J. R. (A)

Chislehurst
Francis, C. J. (SM)

Dover
Smye-Rumsby, B. A. A. (M)

Farnborough
Vedy, L. G. (A)

Gillingham
Hammond, E. R. (M)

Hayes
Binyon, B. (SM)

Keston
Graf, V. V. (M)

Longfield
Scully, C. T. (SM)

Orpington
Farrell, R. L. (M)
Harrison, K. W. (SM)
Lawrence, E. (SM)
Saraga, W. (SM)
Thomas, W. D. (A)

St. Mary Cray
Eckersley, P. P. (F)

Sevenoaks
Giovanni, G. (A)
Van Hasselt, M. (SM)

Sidcup
Ashbridge, N. (F)
Oliver, C. R. (M)
Spagnoletti, P. H. (M)

Tonbridge
Bruce, J. R. (VA)

Walmer
Knight, S. G. (M)

Whitstable
Elvy, M. T. (SM)

LANCASHIRE

Accrington
Bleasdale, J. (A)

Chadderton
Brooks, G. R. (M)

Liverpool
Brown, A. G. (M)
Chalmers, D. (A)
Falcon, G. L. (M)
Morris, I. G. (M)

Manchester
Bowden, B. V. (SM)
Brown, R. H. (M)
Cutteridge, O. P. D. (M)
Jackson, W. D. (SM)
Jackson, W. (F)
Searby, N. H. (SM)
Williams, F. C. (F)
Willis, J. (A)

Ormskirk
Panagakis, H. (M)

Prescot
Muir, L. M. (A)

Ulverston
Oxley, R. F. (SM)

LEICESTERSHIRE

Oadby
Ball, L. F. (M)

LONDON

London
Abel-Harry, C. B. (M)
Adorian, P. (SM)
Barlow, D. H. (M)
Barlow, H. M. (F)
Bearup, T. W. (SM)
Beck, A. H. W. (M)
Bedford, L. H. (F)
Bevan, P. A. T. (SM)
Bishop, H. (F)
Boyle, H. (M)
Brown, A. C. (M)
Brown, J. (SM)
Brown, R. C. (M)
Bruce, D. C. (M)
Bugeja, A. A. (M)
Bury, G. J. (M)
Chrees, S. T. (M)
Crosfield, J. F. (M)
Dawes, E. J. (SM)
Deal, A. W. (M)
Dent, F. D. (A)
Dias, G. C. (A)
Dumert, V. (M)
Earp, C. W. (SM)
Faulkner, H. (F)
Finney, R. (M)
Flack, W. I. (SM)
Fleming, P. A. (SM)
Foster, H. G. (SM)
Gagne, R. E. (M)
Godfrey, S. S. (A)
Goldup, T. E. (F)
Greig, J. (SM)
Griffiths, W. H. F. (SM)
Halsey, J. E. (A)
Hamilton, D. (M)
Harris, K. E. (SM)
Hassan, A. M. (M)
Hastings, D. J. (M)
Heaton-Armstrong, L. J. (SM)
Hemery, N. V. (M)
Hirshman, C. L. (SM)
Ho, C. F. (A)
Hogg, F. L. (SM)
Honiatt, R. R. W. (M)
James, I. J. P. (SM)
Jasper, F. H. C. (M)
Jezierski, E. C. J. (A)
Jull, E. V. (M)
Lamont, K. (M)
Lawson, C. J. V. (M)
Layzell, L. M. (M)
Lindsay, P. A. (M)
Mayer, C. G. (SM)
Meyer, L. W. (SM)
Minton, M. (SM)
Mirk, D. B. (SM)
Morant, A. J. (M)
Morgan, G. (M)
Page, D. F. (A)
Parker, J. D. (SM)
Parr, G. (SM)
Paynter, A. E. (M)
Peck, D. G. (M)
Pocock, H. S. (SM)
Rastorgoueff, V. (M)
Robertson, A. A. (M)
Rose, A. (M)
Rose, S. P. (A)
St. Clair, A. M. (M)
Schwarz, H. F. (M)
Simmons, B. D. (M)
Smith, C. W. (M)
Sodomsky, K. F. (M)
Spector, J. O. (M)
Spooner, F. E. (M)
Starr, C. H. (SM)
Stewart, T. W. W. (A)
Straughan, T. A. (M)
Strong, C. E. (F)
Szentirmai, G. (M)
Taylor, R. W. (M)
Thomas, H. A. (SM)
Trim, R. M. (M)
Troutbeck, W. H. (VA)
Ullrich, E. H. (F)
Valder, F. L. (M)
Whitehouse, M. H. L. (M)
Wilson, A. G. (M)
Wynn, R. T. B. (SM)
Zacharov, B. (M)

MIDDLESEX

Ashford
Hawkes, R. C. (A)

Enfield
Ash, E. A. (M)
Fleming-Williams, B. C. (SM)
Golden, N. J. (SM)
Lee, E. M. (SM)
Oldham, C. A. (A)
Rantzen, H. B. (SM)
Sly, R. J. (A)

Greenford
MacLachlan, V. D. (M)

Harrow
Dawe, F. W. (M)

Heston
Williams, H. P. (SM)

Hounslow
Hughes, R. (A)
O'Hanlon, D. M. V. (M)

Kenton
Espley, D. C. (F)

Northwood
Dempsey, M. W. (A)

Potters Bar
Neill, S. F. M. (SM)

Ruislip
Braude, A. N. (M)

Staines
Manning, V. R. (M)
Warr, H. J. J. (M)

Stanmore
Russell, C. R. (A)

Twickenham
Gill, A. J. (F)

Wembley
Rubenstein, G. (M)

Wembley Park
Bray, W. J. (A)

Winchmore Hill
Payne, C. E. (M)

NORFOLK

Gorleston-on-Sea
Rayment, K. I. (A)

Great Yarmouth
Dyson, A. A. (M)

NORTHAMPTONSHIRE

Boothville
Gardner, F. (M)

Kingsthorpe
Kaye, J. B. (M)

NORTHUMBERLAND

Newcastle-on-Tyne
Hare, J. (M)
Hodgson, C. C. V. (M)

NOTTINGHAMSHIRE

Beeston
Pollard, J. R. (M)

Lenton
Morris, D. J. (M)

Radcliffe-on-Trent
Douglas, A. (M)

OXFORDSHIRE

Henley-on-Thames
Withnell, R. (M)

SOMERSETSHIRE

Southport
Fennessy, J. R. (M)

Weston-Super-Mare
McCall, D. R. (M)

STAFFORDSHIRE

Cheadle
Allen, W. S. (SM)

Stoke-on-Trent
Gautby, H. R. B. (A)

Walsall
Hardcastle, C. (M)
Whitehead, E. A. N. (M)

Wolverhampton
Taylor, D. H. J. (M)

SURREY

Banstead
Smith-Rose, R. L. (F)

Blackwater
Kuypers, M. W. (A)

Cheam
Bond, W. (SM)

Chessington
Briggs, R. H. (M)

Coulsdon
Clemett, C. J. (M)

Croydon
Booth, P. C. (M)
Ringham, G. B. (SM)

Dorking
Jones, E. E. (M)

Egham
Williams, G. M. E. (M)

Esher
Reeves, R. (SM)

Farnham
Clarke, G. F. (A)
Dawes, T. J. (A)

Guildford
Rouse, J. A. (A)
Williams, R. C. G. (SM)

Hastings
Mortlock, A. (M)

Hindhead
Rowe, J. H. (M)

Kingston-on-Thames
Barrett, A. E. (SM)
Kinross, R. I. (M)

Kingswood
Thurnell, D. P. (SM)

New Malden
Hills, W. J. (M)

Richmond
Head, J. E. (VA)

South Croydon
Carpenter, R. E. H. (SM)

Surbiton
Kerr-Waller, R. D. (M)

Sutton
Higham, E. H. (M)
Wood, H. R. A. (M)

Tadworth
Somerville, T. (SM)

Thames-Ditton
Hersch, W. (M)

Virginia Water
Hutcheson, P. (M)

Walton-on-Thames
Budge, R. K. (A)

Weybridge
Hansford, I. V. (M)
Jackson, W. R. (SM)
Kelliher, M. G. (M)
Pitman, D. A. (M)

Woking
Gabriel, R. P. (VA)

Worcester Park
Walker, T. H. (M)

SUSSEX

Goring-by-Sea
Smale, J. A. (F)

WARWICKSHIRE

Birmingham
Jones, H. H. (A)
Montgomerie, G. A. (A)
Morrow, R. E. (SM)
Truscott, D. N. (M)

Coventry
Crocker, C. H. (A)
Sivagnanasunderam, T. (A)
Wilson, R. (A)

Kenilworth
Keen, A. W. (M)

Rugby
Hibberd, R. G. (SM)
Hulme, F. H. (M)
Kinman, T. H. (F)

Solihull
Maskell, W. A. C. (SM)

WEST SUSSEX

Worthing
Payne, L. S. (F)

WILTSHIRE

Devizes
Savage, W. B. (M)

Malmesbury
Irvin, J. L. (A)

Swindon
Parsons, A. N. (M)

WORCESTERSHIRE

Dudley
Nicholls, J. (M)

Evesham
Smith, C. (A)
Sturley, K. R. (SM)

Malvern
Carter, R. H. A. (SM)
D'Assumpcao, H. A. (M)

YORKSHIRE

Bradford
Greenwood, S. W. (M)
Patchett, G. N. (M)

Leeds
Brayshaw, G. S. (SM)

Sheffield
Bagshaw, G. W. (A)
Benson, F. A. (M)
Cullen, A. L. (M)
Holroyd, W. H. (M)

Shipley
Villpsons, J. (M)

Yarm-on-Tees
Bloom, M. S. (M)

ETHIOPIA

Addis Ababa
Abaderash, T. K. W. (A)
Gouin, P. L. (M)

FEDERATION OF RHODESIA AND NYASALAND

Lusaka
Miles, V. G. (M)

Salisbury
Paterson-Jones, E. A. (SM)
Reeves, J. M. (M)
Stevenson, K. (M)

Zomba
Davies, K. J. (M)

FINLAND

Helsinki
Ivars, R. E. (M)
Luoto, U. A. (M)
Michaels, E. L. (SM)

FORMOSA

TAIWAN

Pan Geo
Wang, C-C. (A)

Tainan
Chang, T. (A)

FRANCE

ALPS MARITIMES

Annecy
Friedrichs, G. (M)

ARDENNE

Tarze
Oudard, A. (A)

CORREZE

Brive
Roncier, R. (M)

COTE-DU-NORD

Wasquehal
Lemettre, R. J. (M)

JEAMONT

Dufossez
Ducastle, G. (M)

LOIRET

Orleans
Delvigne, A. F. (A)

LOT-ET-GARONDE

Bordeaux
Duhamel, J. P. (A)

RHONE

Lyon
Biolley, E. J. M. (M)
Comte, G. N. (M)
Dejardin, G. L. (SM)

SEINE

Antony
Fromageot, A. P. A. (SM)
Musson-Genon, R. P. A. (SM)

Bagneux
Voge, J. P. (SM)

Bobigny
Calon, A. E. (A)

Bois-Colombes
Cosnard, F. F. (A)

Boulogne
Klein, G. J. P. (M)

Bourg-La-Reine
Brodin, J. (A)
Gauvenet, A. J. (A)

Clamart
Blassel, P. P. (M)
Deschamps, R. (A)

Clichy
Warin, M. (A)

Courbevoie
Masson, C. M. (A)
Namian, P. (A)

Fontenay Aux Roses
Grivet, P. A. (A)
Suroin, M. M. (SM)

Issy-Les-Moulineaux
Goudet, G. (SM)

Levallois
Gandin, P. (A)

Malakoff
Besson, P. (M)

Neuilly
Lebail, P. E. (M)
Lochard, J. C. (M)
Toulon, P. M. G. (SM)

Nogent-Sur-Marne
Clavier, P. J. (M)

Pantin
Churg, E. (A)

Paris
Aigrain, P. R. (A)
Aisberg, E. (M)
Altman, F. J. (SM)
Angot, A. M. (SM)
Barrow, B. B. (M)
Berthaud, M. C. (M)

Bloch, R. M. (A)
Bodez, P. M. (M)
Boudouris, G. (SM)
Boutry, G. A. (SM)
Bricaud, J. M. (SM)
Carrus, P. A. (M)
Chauchat, J. N. (M)
Chauvierre, M. (SM)
Cohen, R. (A)
Courtillot, E. P. (SM)
David, P. B. (SM)
De Bozas, G. D. B. (M)
Deloraine, E. M. (F)
De Thomasson, M. M. L. (M)
Dreyfus, P. L. (A)
Esculier, G. G. (M)
Fabricant, P. (VA)
Feissel, H. G. (SM)
Floquet, J. (A)
Fuks, A. (A)
Gaschi, J. F. (M)
Gerten, N. (M)
Ghertman, J. (A)
Giboin, E. (SM)
Girerd, J. L. M. (M)
Guenard, P. R. G. (F)
Guyot, L. F. (A)
Hammer, A. P. (A)
Hoffman, R. B. (SM)
Huong, S. (A)
Israel, R. (A)
James, R. M. (M)
Jasper, L. L. (A)
Karamberis, G. (M)
Kelton, M. P. (M)
Kerbec, M. J. (A)
Labin, E. (SM)
Labin, E. (SM)
Lacarriere, C. (A)
La Rue, C. E. (M)
Lehmann, G. J. (SM)
Lermoyez, M. J. (A)
Levy, L. (M)
Loeb, J. M. (SM)
Mandel, P. (SM)
Mercier, J. M. (SM)
Moisson, A. A. (SM)
Muller, J. J. (A)
Nozieres, H. (A)
Ortusi, J. A. (SM)
Palluel, P. C. (SM)
Pernice, J. R. (SM)
Robin, G. (M)
Samuel, S. (M)
Simon, J. C. (SM)
Sirel, M. (A)
Sokoloff, B. A. (A)
Sperring, F. E. (M)
Sulzer, H. G. (M)
Teeuw, J. W. (A)
Touraton, E. R. (SM)
Vassy, E. J. (A)
Weill, H. (M)

Piessis-Robinson
Weissfloch, A. J. (SM)

Rosny Sous Bois
Ferrier, P. A. (A)

SEINE ET OISE

Brunoy
Thun, R. J. (M)

Chatou
Gilotaux, P. (M)

Chaville
Baudin, J. A. (A)
Saintesprit, G. L. (SM)

Corbeil-Essonnes
Behm, L. F. (A)

Le Vesinet
Bussat, R. M. A. (A)
Piel, G. J. (M)

Marell
Berline, S. D. (SM)

Marnes La Coquette
Nill, A. A. (M)

Montmorency
Doehler, O. (SM)

Orsay
Leblond, A. F. (M)
Warnecke, R. R. (F)

Rueil-Malmaison
Sauvanet, M. M. (SM)

St. Cloud
Goublin, R. O. (A)

St. Germain-en-Laye
Beurtheret, C. A. (SM)
Raymond, F. H. (SM)

Sartrouville
Baron, J. (M)

Versailles
De Coligny, G. (M)
Durand, P. A. (M)
Prache, P. M. (M)

Villiers Sur Marne
Halbguerax, M. E. (M)

GERMANY, WEST

Backnang
Koch, E. L. (SM)

Bayern
Schuh, C. F. (A)

Beimerstetten
Frundt, H-J. H. W. (SM)

Berlin
Gundlach, F. W. (SM)
Heyne, H. H. (SM)
Hore, K. (M)
Nestel, W. (SM)
Ruhrmann, A. A. (SM)
Wiegand, E. P. (SM)
Zickermann, C. A. (SM)

Bremen
Busch, C. W. (M)

Darmstadt
Moller, R. (F)
Walther, A. (SM)
Zinke, O. (SM)

Dortmund
Effertz, F. H. (M)

Duesseldorf
Buetow, M. (A)

Freiburg-Breisgau
Beuche, G. R. (A)

Gottingen
Meyer, E. W. (SM)
Schnupp, P. (A)

Hamburg
Borgnis, F. E. (SM)
Joetten, K. K. F. (M)
Kroemer, H. (M)
Mathieu, G. A. (F)
Paehr, H. W. (SM)
Peters, J. F. (SM)
Severin, H. K. F. (SM)
Von Randow, T. V. (A)

Hannover
Klotz, E. W. K. (SM)

Hessen
Symons, W. E. (M)

Hildesheim
Funck, H. E. (A)

Hohentwiel
Altenpohl, D. (M)

Karlsruhe
Rothe, H. (SM)

Koln-Mulheim
Horn, H. (SM)

Konstanz
Kleinsteuber, W. G. (SM)

Krefeld
Boerner, W. K. (A)

Lampertheim-Hessen
Phillips, R. H. (M)

Mannheim
Weiland, F. A. (A)

Munich
Dziuk, J. R. (A)
Esten, P. W. (SM)
Fischer, K. (A)
Gross, F. F. (A)
Handleman, M. (M)
Kleen, W. J. (F)
Knoll, M. (SM)
Mueller, R. A. (A)
Piloty, H. T. (SM)
Rohde, L. (F)
Saal, R. S. (SM)
Von Trentini, G. (SM)

Nurnberg
Hecker, W. (M)
Pieplow, H. (SM)

Porz-Rhein
Riepka, H. C. (SM)

Siegen
Gontermann, A. (M)

Stuttgart
Henrici, J. J. T. (SM)
Piloty, R. (M)

Uber Mering
Zenneck, J. (F)

Ulm
Bruck, L. (SM)
Bruckmann, H. P. (SM)
Fraenz, K. O. (SM)
Grasselt, K.-H.(A)
Hess, H. A. (M)
Kotowski, P. (A)
Runge, W. T. (SM)
Uhrmann, A. M. (M)

Wetzlar
Uebermuth, H. W. (M)

Wiesbaden
Brod, F. W. (A)
Heimann, W. (M)

GREECE

Athens
Antonacakis, G. I. (A)
Aristogenis, G. S. (A)
Basbas, L. T. (A)
Bouharinos, G. (A)
Cassapoglou, C. B. (A)
Chairetakis, E. P. (A)
Economides, A. (M)
Gogos, A. C. (M)
Hadjidemetriou, D. S. (A)
Kariambas, N. (A)
Markoulakis, S. G. (A)
Myroyannis, A. J. (M)
Papadopoulos, D. A. (SM)
Perpinias, A. E. (M)
Tsinteas, G. S. (A)
Zaikos, D. N. (A)

Attica
Soldatos, G. (M)

Canea
Idihhakis, M. A. (M)

Corinthos
Sazaklis, N. G. (A)

Piraeus
Dourvanas, S. A. (A)

Salonika
Katsaounis, P. C. (A)
Kiaffas, G. Z. (A)

Thessaloniki
Harahousous, J. S. (A)
Papadopoulos, N. D. (A)
Stathopoulos, A. E. (A)

GREENLAND

Godhavn
Ungstrup, E. E. (A)

GUAM

Agana
Goodwin, C. E. (A)

GUATEMALA

Guatemala City
Guaragna, L. F. (M)

HAWAII

Hilo (HAW-7)
Izumi, G. Y. (A)
Neifert, K. G. (A)

KAUI

Naalehu (HAW-7)
Okuna, T. M. (A)

MAUI

Kihei (HAW-7)
Honea, L. W. (M)

Lahaina (HAW-7)
Nakamoto, M. (A)

Wailuku (HAW-7)
Arveschoug, N. F. (M)
Katahara, S. (M)

OAHU

Aiea (HAW-7)
Hosokawa, K. (M)
Kelly, V. (M)
Nishimura, K. K. (A)

Honolulu (HAW-7)
Alden, R. M. (M)
Anderson, J. W. (A)
Arrington, R. A. (A)
Asato, M. (A)
Atherton, J. B. (M)
Britton, J. R. (M)
Canavan, J. J. (M)
Chang, D. C. (M)
Chang, R. H. M. (M)
Chun, R. H. C. (M)
Edwards, N. R. (SM)
Elderkin, C. D. (M)
Ellison, J. L. (A)
Fenner, P. R. (A)
Fuchikami, A. H. (A)
Gilroy, R. B. (M)
Goo, J. F. S. (M)
Grubb, D. L. (M)
Harada, S. (M)
Harger, E. J., Jr. (A)
Higa, K. (M)
Hiser, E. F., Jr. (M)
James, F. L. (A)
Johnson, W. F. (M)
Kam, P. Y. T. (A)
Kang, Y. O. (M)
Kato, R. S. (A)
Kendall, L. B. (SM)
Kung, L. (A)
Lewbel, S. H. (M)
Lindemann, E. G. (A)
McMenamin, S. B. (M)
Mercer, I. G. (M)
Metzger, J. F. (A)
Mitchell, F. O. (A)
Miyake, I. (M)
Nakamura, O. S. (A)
Oeumi, S. Y. (M)
Pang, D. L. (M)
Piety, E. A. (M)
Sanders, J. R. (A)
Schoen, E. C. (A)
Schultz, J. E. (A)
Shak, H. K. Y. (A)
Shigetomi, S. S. (A)
Stagner, G. H. (M)
Takase, R. H. (VA)
Vaughan, V. (M)
Warren, H. E. (M)
Wats, N. P. (A)
Williams, F. E. (A)
Wouters, A. P. (A)
Young, M. F. (M)
Yuen, C. M. F. (M)

Kahuku (HAW-7)
Tamura, L. T. (A)

Kailua (HAW-7)
Rotolo, N. V. (M)
Springel, M. (M)

Kaneohe (HAW-7)
Andrews, F. D. (A)
Brenessel, A. (A)
Dixon, F. C. (A)
Lee, R. T. S. (A)
Morse, N. A. N. K. (M)
Tanigawa, N. F. (M)
Turner, H. E. (M)

Lanikai (HAW-7)
Clark, G. W. (SM)
Dashiell, D. H. (M)
Hill, R. R. (M)
Hughes, G. R. (M)
Hunter, G. H. (A)
Tittle, J. F. (A)
Vittum, M. S. (SM)

Lualualei (HAW-7)
Bruce, C. A. (A)

Pearl City (HAW-7)
Maertz, W. A. (M)

Pearl Harbor
Mason, F. L. (SM)

Wahiawa (HAW-7)
Grayson, R. R. (M)
Hahn, G. K. P. (A)
Janda, E. G. (A)
Nace, C. E. (M)
Sato, R. H. (A)

Waianae (HAW-7)
Florez, H. (SM)
Hoag, D. S. (M)
Murphrey, I. G. (M)

HONG KONG

Causeway Bay
Shum, Y. S. (A)

Hong Kong
Cheung, W. S. H. (M)
Louttit, L. W. (A)
Luk, Y. K. (M)
Monfon, L. (M)
More, H. Y. H. (M)
Wiedemann, S. (A)
Zinky, W. R. (M)

Kowloon
Cheng, C. C. (A)
Chui, T. Y. (M)
Hope, W. J. (A)
Hsu, H. (M)
Wu, R. S. (A)

HUNGARY

Budapest
Egri, E. (A)

ICELAND

Akureyri
Bjargmundsson, I. (A)

Hafnarfirdi
Halldorsson, T. J. (A)

Reykjavik
Halldorsson, S. (M)
Sonnenfeld, S. (A)
Thorkelsson, S. (A)

INDIA

Ahmedabad
Aiya, S. V. C. (SM)
Kotadia, K. M. (M)

Allahabad
Banerji, K. C. (A)
Ji, G. (A)
Krishnaji (SM)

Andhra
Krishnamurti, T. (M)
Kurma, V. R. (A)
Murty, D. S. (M)
Murty, G. N. (M)
Rao, H. J. (M)
Rao, V. V. L. (SM)
Satyanarayana, M. (M)
Subrahmanyam, G. (M)

Annamalainagar
Vijayaraghavan, K. (M)

Bangalore
Chatterjee, R. (M)
Chatterjee, S. K. (M)
Nagaraja, N. S. (M)
Ramachandran, P. (M)
Ramanujalu Naidu, M. K. (A)
Rao, P. L. S. (M)
Sreenivasan, K. (SM)
Subramanian, C. R. (M)
Suryan, G. (M)

Baroda
Contractor, S. N. (M)
Sen, S. M. (M)

Belgaum
Paramasivayya, G. S. (M)
Rao, K. V. (A)

Bihar
Neogy, S. C. (A)
Pandit, J. D. (A)
Roy, K. M. (M)
Sen, K. K. (M)
Sinha, N. K. (M)

Bombay
Antia, J. M. (M)
Bhashyam, S. R. (SM)
Bhatnagar, H. M. (M)
Bulsara, M. S. (A)
Daruvala, D. J. (M)
Dastur, J. B. (A)
Gillon, K. E. C. (A)
Gokarn, G. D. (SM)
Huang, G. T. C. (A)
Husein, A. E. (M)
Kamat, V. Y. (M)
Kanitkar, G. C. (A)
Kantebet, S. R. (F)
Katre, V. S. (A)
Kohli, F. C. (A)
Lakhanpal, D. D. (SM)
Langguth, P. O. (SM)
Mahalingam, N. (SM)
Marathe, D. H. (SM)
Merchant, V. V. (A)
Mirchandani, I. T. (A)
Motwane, H. V. (A)
Nair, B. K. S. (M)
Padmanabhan, P. V. (A)
Pai, M. V. (A)
Phatak, R. K. (SM)
Prabhakar, A. (M)
Raju, T. A. (M)
Shroff, T. R. (A)
Sukhadia, P. U. (M)
Tefang, V. S. (M)
Toshniwal, G. R. (SM)
Vaishampayan, R. K. (M)
Vasantharajan, M. N. (M)
Venkatraman, M. P. (M)
Virkar, D. V. (SM)

Calcutta
Banerjee, A. (SM)
Bhattacharyya, B. K. (A)
Chatterjee, S. D. (SM)
Krishnaswami, M. S. (M)
Mukerji, M. M. (SM)
Raha, H. N. (M)
Sweet, C. M. (M)
Vepa, R. K. (SM)
Verma, J. K. D. (M)

Chromepet
Sitharaman, M. R. (A)

Cuttack
Misra, H. (M)

Delhi
Ramabhadran, S. (A)
Tandan, S. P. (M)

Dharwar
Khot, C. G. (A)

Faridabad
Balasundaram, N. (SM)

Jabalpur
Ghose, A. (M)
Mishra, N. K. (A)
Pal, P. C. (M)
Sarwate, V. V. (M)

Lucknow
Chakravarti, S. P. (SM)
Joshi, C. P. (SM)
Madan, M. P. (SM)
Raja, M. V. R. V. (A)
Saxena, A. P. (M)

Madhya Pradesh
Jain, P. L. (A)

Madras
Belgamvala, M. K. (A)
Dhar, R. L. (A)
Eugene, A. F. (SM)
Mahmood, S. (A)
Patel, S. N. (M)
Ramachandra, M. (M)
Ramachandran, D. N. (A)
Rao, K. R. (M)
Rao, N. N. (A)
Saifuddin, (M)
Sastry, P. V. V. S. (M)
Sitaram, R. (M)
Swaminathan, K. (A)

Nepal
Baidya, N. R. (M)
Kanskar, K. R. (A)
Singh, R. P. (M)

New Delhi
Baliga, B. V. (SM)
Bhatt, N. B. (SM)
Burmanray, P. N. (A)
Gadadhar, N. V. (M)
Ganapathy, N. (M)
Ganguly, S. K. (M)
Ghose, A. K. (M)
Joshi, M. V. (SM)
Kumar, V. (M)
Matange, N. D. (SM)
Pattabiraman, J. (SM)
Ponnappa, B. M. (M)
Ramamurthy, T. V. (A)
Rao, K. L. (M)
Sachdev, D. K. (A)
Sant, M. D. (M)
Sivaswami, R. S. (M)
Subrahmanyan, T. R. (M)
Subramanian, C. S. (A)
Swarup, P. B. (M)
Tandan, R. K. (M)
Thacker, M. S. (A)

Patiala
Anand, V. B. (SM)

Pilani
Chatterjee, A. K. (SM)
Kamal, A. K. (M)
Singh, A. (SM)
Wadia, B. H. (A)

Pollachi
Iyer, S. K. (A)

Poona
Dere, G. B. (A)
Mishra, S. (A)
Row, D. P. (SM)

Pyna
Raju, D. V. S. (M)

Rajahmundry
Chauhan, M. V. (M)

Rajkot
Taneja, S. P. (M)

Roorkee
Bhattacharjee, D. K. (A)

Secunderabad
Bengalli, N. K. (M)

Travancore
Nair, P. R. (A)
Ramani, R. V. (A)

Waltair
Rao, B. R. (SM)

West Bengal
Das, P. N. (M)
Ghosh, S. R. (A)
Nelson, P. H. (SM)
Rajagopalan, P. K. (A)
Seshadri, G. (A)

Yeotmal
Sardesai, S. N. (M)

INDONESIA

Bandung
Liong, L. K. (M)
Samoen, E. E. (M)

Sumatra
Gannett, E. (A)

IRAN

Abadan
Clement, P. F. (M)

IRAQ

Baghdad
Al-Rubayi, N. A. (M)
Boghossian, A. B. (M)
Bunyan, S. A. (A)
Siddiqi, M. I. (A)

IRELAND

Belfast, Northern Ireland
Allen, T. P. (SM)
McBride, J. M. W. (SM)

Dublin, Eire
Ferguson, J. D. (SM)
O'Donnell, J. G. (A)
Poole, H. H. (A)
Seale, E. G. (A)
Slator, S. L. (A)
Smith, T. F. (M)

Strabane, Northern Ireland
Smyth, W. (A)

ISRAEL

Haifa (IS)
Ariel, C. (A)
Baneth, M. (A)
Bar-David, I. (A)
Bekker, D. (M)
Bonenn, Z. (M)
Cederbaum, I. (SM)
Dobkin, L. (M)
Elazari, H. (A)
Feld, R. (A)
Fischmann, A. F. (M)
Fuchs, A. (M)
Galil, U. (A)
Gilat, J. (A)
Gur-El, A. S. G. (M)
Herzberg, E. N. (M)
Kaplansky, J. (M)
Katzenelson, J. (M)
Lehman, M. (M)
Louis, S. (A)
Maas, J. (M)
Mayer, A. D. (A)
Merchav, S. J. (M)
Nathan, A. (M)
Ollendorff, F. (SM)
Paz, I. M. (M)
Pikarsky, J. (A)
Politch, J. (A)
Rubin, M. M. (A)
Shamir, J. (A)
Silberfarb, S. (A)
Suss, J. T. (M)
Tamir, T. (M)
Uri, M. (A)
Weissberg, E. (M)
Wulkan, A. A. (A)
Zaks, Z. W. (A)

Jerusalem (IS)
Weinman, J. (SM)

Kiryat Motzkin (IS)
Bar-Lev, A. (A)
Brandman, Z. I. A. (A)
Eytan, K. (A)
Kreindler, E. (A)
Rosenstein, S. (A)
Schoen, T. E. (M)
Shekel, J. (SM)
Tkatsh, M. (M)
Weisiltzer, J. (M)
Ziv, J. (A)

Petach Tikva (IS)
Schmidt, Z. (A)

Raanana (IS)
Perlman, R. (A)

Ramat Gan (IS)
Amariglio, I. (A)

Rehovoth (IS)
Frei, E. H. (M)
Goldberg, J. (M)
Sivan, J. (M)

Ramath Hasharon (IS)
Lubin, S. (SM)

Rishon L'Zion (IS)
Gitman, K. (M)

Tel-Aviv (IS)
Balaban, P. (M)
Bartfeld, R. A. (M)
Boksenbaum, E. (M)
Deutsch, M. (M)
Hellinger, H. R. J. (M)
Kelmer, Y. (M)
Kimche, S. (M)
Lerner, T. (A)
Riesel, H. (A)
Schaerf, M. (M)
Segalov, E. (A)
Silberfarb, E. (M)
Sturiesl, B. E. (A)
Winter, Z. (A)

ITALY

Alessandria
Maestrini, R. (A)
Stanchi, L. A. (A)

Firenza
Grazioli, R. (A)

Florence
Fagnoni, E. (A)

Genoa
Verdoni, L. G. (M)

Ivrea
Schreiner, E. D. (M)

Lecco Como
Rumi, G-C. (M)

Milan
Arnold, J. B. (M)
Bacchini, C. (A)
Banfi, A. (A)
Beltrami, A. (SM)
Biondi, E. (A)
Borsarelli, C. (M)
Carassa, F. (A)
Castellani, M. F. (M)
Cioni, G. (A)
De Dominicis, C. M. (A)
De Vito, G. R. (M)
Federici, M. (M)
Fiorentino, G. (A)
Floriani, V. (M)
Ghermandi, M. (A)
Ghersel, F. (A)
Guglielmo, G. (M)
Gurviz, A. A. (A)
Martinazzoli, A. (A)
Mieville, L. C. V. (M)
Monti-Guarnieri, I. G. (A)
Palandri, G. L. (A)
Parenti, V. M. (M)
Pieri, A. (A)
Quaglia, G. (A)
Quarta, P. (A)
Stracca, G. B. (A)
Tescari, A. (A)
Vergani, A. (A)

Naples
Tassi, D. (A)

Padova
Cappuccini, F. (A)

Pisa
Filippazzi, F. W. (A)
Fubini, S. B. (A)
Guarracino, O. M. (A)
Nicelli, L. (A)
Raffo, G. F. (A)
Tarchini, G. P. (A)
Tchou, M. (M)
Tiberio, U. (SM)
Zibellini, A. F. (A)

Rome
Allegri, G. A. (A)
Barzilai, G. (SM)
Bertolotti, S. (M)
Bindi, R. (A)
Bonetti, T. (A)
Brunelli, M. (SM)
Calligari, S. (A)
Catorci, B. P. (A)
Ciceroni, S. (A)
Corazza, G. C. (A)
Daroda, D. (A)
D'Auria, G. (A)
De Renzis, F. (A)
Ercoli, P. (M)
Francini, G. (M)
Geroea, G. (A)
Koch, R. (SM)
Landesman, S. O. (M)
Lepschy, A. M. (A)
Marino, A. (A)
Mazzarella, M. (A)
Milano, U. (A)
Missio, D. V. (A)
Pellegrini, U. (A)
Pelli, G. (SM)
Ruberti, A. (A)
Sacerdoti, G. (A)
Scuricini, G. B. (A)
Silleni, S. R. (M)
Zanini, A. (A)

Turin
Deroesi, A. D. (A)
Devalle, M. (A)
Egidi, C. (A)
Goffi, G. (SM)
Pinciroli, A. (SM)
Pinolini, F. (M)
Trinchieri, M. G. (A)

Venezia
Fabbro, P. D. (A)

JAPAN

Akashi
Iwasawa, H. (M)
Owaki, K. (M)

Amagasaki
Kitsuregawa, T. (A)

Chiba
Kinase, M. (SM)
Kogo, H. (M)
Nakahara, F. (A)
Saito, S. (SM)
Soto, K. (A)

Ehime
Kumagai, T. (SM)

Fujisawa
Makino, Y. (A)

Fukushimaken
Kikuchi, H. (M)

Hamamatsu
Matsumoto, K. (A)
Okabe, T. (M)

Hiroshima
Hoshika, Y. (A)
Kawano, T. (M)

Hukuoka
Oono, Y. (SM)

Hyogo-Ken
Kida, Y. (A)
Misugi, T. (M)

Kamakura
Mains, M. C. (M)

Kawasaki
Morita, M. (A)
Numoto, M. (M)
Yamazaki, T. (SM)

Kobe
Nakagami, M. (SM)

Kumamoto-Shi
Mizutami, M. (A)

Kyoto
Kitamura, Z. (SM)
Ogawa, T. (M)
Saburi, O. (M)
Tanaka, T. (M)

Moriyama
Minoura, E. (A)

Odawara-Si
Okazaki, B. (A)
Yano, A. (A)

Osaka
Hata, S. (SM)
Hayashi, T. (M)
Honda, T. (A)
Kojima, Y. (SM)
Makimoto, T. (M)
Minamoto, S. (M)
Miyakoshi, K. (SM)
Nagami, K. (SM)
Ozaki, H. (SM)
Sugata, E. (SM)
Sugi, M. (A)
Tanaka, Y. (A)
Taniguchi, F. (M)
Terada, M. (M)
Yoshimura, T. (A)

Sapporo
Suzuki, M. (SM)

Sendai
Koike, Y. (SM)
Matsudaira, M. (SM)
Mushiake, Y. (A)
Nagai, K. (SM)
Nagai, K. (M)
Nishizawa, J-I. (M)
Oizumi, J. (SM)
Saito, N. (M)
Shibata, Y. (M)
Uchida, H. (SM)
Uda, S. (SM)
Watanabe, Y. (SM)

Tobata
Konomi, M. (A)

Tokushima-shi
Harada, N. (M)

Tokyo
Abbe, R. (A)
Adachi, H. (A)
Akira, A. (A)
Aoi, S. (A)
Cohen, C. L. (A)
Endo, K. (A)
Ezoe, H. (SM)
Fujii, T. (SM)
Fujii, T. (A)
Fujiki, S. (M)
Fujimura, Y. (A)
Fukata, M. (M)
Fukushi, A. (A)
Fumeno, I. (A)
Hara, T. (A)
Harashima, O. (SM)
Hayashi, R. (A)
Hirai, M. (M)
Hiwatashi, K. (A)
Ibuka, M. (A)
Ida, K. (A)
Ieiri, S. (M)
Iimura, N. (A)
Ikegami, F. (M)
Ikezawa, S. (A)
Imayoshi, B. (A)
Inatsu, M. (A)
Inose, H. (M)
Ishikawa, D. (M)
Ishikawa, T. (SM)
Ishiwata, S. (A)
Iwakata, H. (SM)
Iwama, K. (A)
Kadokura, T. (A)
Kao, C-C. (M)
Kawasaki, Y. (M)
Kodaira, N. (M)
Koga, I. (F)
Koichibara, T. (A)
Komabayashi, E. (A)
Komai, M. (A)
Komura, S. (A)
Kondo, T. (A)
Kono, T. (A)
Kudo, Y. (A)
Kumagai, K. (A)
Kumagai, M. (A)
Kurihara, Y. (A)
Kuroda, H. (A)
Kuroiwa, Y. (A)
Kurokawa, H. (M)
Kusunoki, J. (M)
Matsumaru, K. (A)
Matsumura, S. (A)
Matsuyama, K. (A)
Matuo, T. (A)
Mii, N. (A)
Miki, S. (A)
Mikuma, F. (SM)
Minosuma, F. (M)
Mita, S. (A)
Miyaji, K. (M)
Mizukoshi, S. (A)
Mizuma, M. (SM)
Mochizuki, K. (A)
Morimoto, S. (A)
Morimura, T. (M)
Morita, K. (A)
Morita, K. (SM)
Morita, T. (A)
Murakami, I. (A)
Murta, K. (A)
Nemoto, T. (A)
Niguchi, K. (M)
Nishi, E. (A)
Nishino, O. (A)
Nishizaki, T. (M)
Niwa, Y. (F)
Nomura, K. (M)
Nomura, T. (M)
Ogihara, Y. (A)
Ohashi, K. (SM)
Ohno, S. (A)
Okabe, T. (A)
Okada, M. (SM)
Okada, T. (A)
Okada, T. (M)
Okamura, S. (M)
Okamura, S. (M)
Okamura, S. (SM)
Okochi, J. A. M. (M)
Omi, H. (SM)
Omori, S. (M)
Osafune, H. (SM)
Owaku, S. (A)
Oyama, S. (A)
Richards, P. A. (SM)
Saito, Y. (A)
Sakai, Y. (M)
Sakamoto, T. (SM)
Sassa, K. (A)
Sawada, R. (SM)
Sawamura, E. (A)
Seki, H. (SM)
Seki, T. (SM)
Shibata, K. (M)
Shigeta, S. (A)
Shimizu, R. (SM)
Shintani, T. (M)
Shiozaki, Y. (A)
Someya, I. (M)
Sugawara, S. (A)
Sunacshi, T. (A)
Suzuki, K. (M)
Tadokoro, Y. (M)
Takada, S. (SM)
Takahashi, M. (A)
Takahashi, R. (A)
Takahashi, S. (M)
Takama, S. (A)
Takeda, Y. (SM)
Taki, Y. (M)
Tanabe, Y. (SM)
Tanaka, O. (A)
Tanimura, I. (A)
Togino, K. (M)
Tomono, M. (A)
Tomota, M. (SM)
Tsuboi, K. (A)
Tukizi, O. (M)
Uchida, H. (A)
Uchimaru, K. (M)
Uesugi, Y. (A)
Ugai, S. (M)
Unotoro, T. (M)
Wine, J. R. (M)
Yagi, H. (F)
Yamaguchi, Y. (A)
Yamashita, A. (A)
Yamashita, K. (A)
Yamazaki, M. (A)
Yanai, H. (M)
Yasuda, I. (A)
Yokoyama, H. (M)
Yoshida, J. (A)
Yuhara, H. (M)

Yokohama
Hayasi, S. (A)
Iijima, K. (A)
Kohno, S. (SM)
Nishio, H. (SM)
Sawaji, Y. (A)
Sawasaki, N. (A)
Suzuki, Z. (A)

Yokosuka
Matsuyuki, T. (SM)

KOREA

Seoul
Dale, P. R. (M)
Hwang, I. Y. (A)
Lee, C. H. (M)
Suh, D. U. (A)

LEBANON

Beirut
Hoffman, J. D. (A)
Koenreich, J. L. (M)
Lewis, R. H. (M)
Newell, W. E. (A)
Peterson, R. A. (M)
Regier, F. A. (M)
Swift, R. R. (A)
Tueni, J. A. (M)

Beyrouth
Shoucair, S. F. (M)

Tripoli
Skerrey, C. E. (M)

LIBERIA

Monrovia
Watkins, S. R. (A)

LIBYA

Tripoli
Brown, E. W., Jr. (M)
Dvorak, C. J., Jr. (A)

MALAYA FEDERATION

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Isherwood, C. F. (M)
Kim Min, A. V. (M)
Munns, E. F. (M)
Stubbs, W. (SM)

Penang
Hin, T. K. (M)

Singapore
Tan, Y. S. (M)

MALTA

Gzira
De Barro, F. (M)

MEXICO

Coahuila
Phillips, R. A. (A)
Rodrigues, E. (A)

Mexico City
Adame S., L. (A)
Auerbach, L. F. (M)
Barrio, F. D. P. (A)
Bezies-Skewes, E. (M)
Bonny, M. S. (M)
Caballero, C. A. (M)
Carrillo A., J. (M)
Chmilowski, J. B. (M)
Chora, L. M. (M)
Corona, F. D. (A)
Cortes G., C. (SM)
De Delara, G. K. (M)
De La Herran, J. R. (SM)
Delahay, F. (A)
Diaz, J. S. (SM)
Dieli, F. J. (SM)
Eggart, G. J., Jr. (M)
Fernandez, M. A. (VA)
Gaubeca, J. B. (M)
Gutierrez, E. D. (SM)
Higuera-Mota, H. R. (A)
Horn, C. W. (F)
Jimenes L., E. (M)
Joaquin, D. S. (A)
Lepe-Ramos, F. (M)
McGee, W. F., Jr. (SM)
Mendez, E. D. (M)
Montes, G. R. (A)
Muzquiz, G. C. (SM)
Nunez A., C. (M)
Ocampo-Guerra, H. L. (A)
Rodriguez, M. A. (M)
Rodriguez, M. F. (M)
Ruiz, F. (A)
Saucedo, I. M. (M)
Spoor, T. A. (M)
Sutton, H. B. (M)
Urrutia, R. C. (A)
Van Lieshout, L. J. A. (SM)
Vazquez, M. (A)
Villa, A. R. (A)
Wenzel, P. H. (A)
Whidden, G. H. (M)
Yanofsky, L. G. (M)
Zepeda, S. (A)
Zorrilla-Carcano, M. (M)

Monterrey
Buchwald, C. E. (SM)
Diaz Noriega, J. M. (M)

Poza Rica Ver
Genyi B., A. E. (A)

Tijuana
Marquez, J. (M)

MOROCCO

Casablanca
Wybrands, K. (M)

Marrakech
Nadaud, C. A. (M)

Tangier
Mellard, D. (A)
Pugh, M. D. (M)

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Broersma, C. B. (SM)
Lehmann, W. K. (A)
Schotel, G. (SM)
Van Duyne, D. M. (M)
Van Wijngaarden, A. (A)
Varekamp, J. F. (M)

Blaricum
Siezen, G. J. (SM)

Delft
Ensing, L. (M)

Eindhoven
Alma, G. H. P. (SM)
Greefkes, J. A. (M)
Heijboer, R. J. (A)
Nijenhuis, W. (A)
Oolman, A. (SM)
Rinia, H. (F)
Schnabel, C. P. J. (A)
Stumpers, F. L. H. M. (SM)
Tellegen, B. D. H. (F)
Verschuur, J. J. (M)
Zijlstra, P. (SM)

Heemstede
Bontekoe, H. (A)

Hilversum
Breimer, S. (M)

Leiden
Seeger, C. L. (A)

Oegstgeest
Hekster, S. (M)

Rijswijk
Van Berkel, P. L. M. (M)

'S-Gravenhage
Gudmansen, P. E. (M)

The Hague
Bartolome, P. J. (A)
Bijl, P. C. J. (SM)
Bloemsma, J. (M)
Christensen, P. E. (A)
Clark, R. G. (SM)
De Voogt, A. H. (M)
Goldman, A. S. (A)
Heeroma, H. H. (M)
Houtsmuller, J. (SM)
Janssen, J. M. L. (SM)
Op Den Orth, J. M. (SM)

Veldhoven
Gradus, H. H. J. M. (M)

Voorburg
Moran, J. F. (M)
Van Nauta Lemke, H. R. (M)

Wassenaar
Van Der Pol, B. (F)
Vanduuren, H. C. A. (SM)

NETHERLANDS ANTILLES

Curacao
Van Haaren, R. H. C. (SM)

NEW ZEALAND

Auckland
Lawrence, L. J. (A)
Mayo, L. E. (A)

Dunedin
Henderson, B. G. (A)
Martin, L. H. (SM)

Gisborne
Paulson, E. J. (VA)

Torbay
Crawford, W. C. (A)

NICARAGUA

Managua
Robinson, H. E. (M)

NORWAY

Bergen
Bakken, O. (M)
Dahl, H. (SM)
Mack, E. (M)
Wessel-Berg, T. (A)

Blindern
Nickelsen, J. C. (VA

Konsberg
Steensen, S. A. (M)

Lillestrom
Eggestad, M. (M)
Lied, F. (A)

Oslo
Bostad, J. (M)
Eliassen, K. E. (A)
Gaudernack, L. F. (SM)
Hisdal, B. J. (M)
Hvinden-Haug, L. H. (M)
Kulvik, E. (SM)
Overby, H. (M)
Provost, C., Jr. (A)
Rorholt, B. A. (M)
Scheel, C. F. (M)
Snedkerud, O. T. (A)

Skien
Haraldsen, H. P. (M)

Trondheim
Berg, S. (M)
Engvik, S. B. (M)
Jenssen, M. (SM)
Tangvik, S. (M)

OKINAWA

Ryukyus
Sakumoto, I. (M)

PAKISTAN

Dacca
Ahmed, W. (SM)
Nurullah, A. S. M. (A)

Haripur
Sathar, S. A. (SM)

Karachi
Ayoob, A. S. (SM)
Chagla, H. R. (M)
Farooq, M. O. (M)
Haque, S. A. (M)
Hasan, S. (M)
Islam, M. N. (M)
Khan, A. R. (M)
Khan, F. A. (M)
Mazarakis, A. (A)
Qureshi, Z. A. (A)
Rafi, M. A. (M)
Rauf, A. (M)
Sammon, P. J. (M)
Simpson, J. S. (M)
Ullah, I. (M)
Yazdani, M. U. H. (M)

Lahore
Quadri, M. S. (M)
Qureshi, Z. H. (M)

PERU

Lima
Canese, O. R. (A)
Dubbs, W. M. (M)
King, D. W. G. (M)
La Pierre, V. M. (SM)

Talara
Sekimotto-Pinillos, R. A. (M)

Trujillo
Balsley, B. B. (M)

PHILIPPINE ISLANDS

Davao City
Obra, R. S. (A)

Iloilo City
Knox, J. L. (M)

Laguna
Raflores, W. C. (A)

Manila
Bentley, A. D., Jr. (A)
Gamboa, A. C., Jr. (A)
Picornell, J. J. (M)
Reynolds, R. A. (A)

Quezon City
Hidalgo, M. T. (M)
Yogore, M. G. (M)

San Juan
Ozaeta, E. H. (A)

POLAND

Warsaw
Auerbach, J. E. (A)
Barwicz, W. (A)
Groszkowski, J. (M)
Hennel, J. (SM)
Ryzko, S. (A)
Smolinski, A. K. (SM)
Wojnar, A. (A)

PORTUGAL

Lisbon
Arnaldo, A. F. (A)
Da Cunha, A. M. C. (M)
De Bivar, A. M. B. (SM)
Fernandes, A. A. D. (M)
Harrison, R. H. (A)
Victorino, J. M. C. (A)

PUERTO RICO

Arecibo
Mercado, T. (M)

Bayamon
Moreno, M. (A)

Caparaa Heights
Boyd, L. K. (SM)

Fajardo
Oscar, R. W. (A)

Guayama
Blondet-Bloise, L. (A)

Hato Rey
Serra, M. A. (A)
Weed, A. C., Jr. (M)

Mayaguez
Culver, L. R. (SM)
De Quevedo, J. L. G. (SM)
Dueno, B. (M)
Fiol, L. E. (M)
Maldonado, B. (A)

Playa Ponce
Castillo, E. A. (A)

Rio Piedras
Arce-Blanco, R. (M)
Castanera, J. R. (M)
Mercado, C. R. (A)

San Juan
Acosta, R. J. (M)
Firpi, A. (M)
Jones, T. L. (M)
Mayo, G. A. (A)
Negroni, J. A. (M)
Perry, R. P. (A)
Ryssy, J. W. (M)

Santurce
Arzuaga, J. (M)
Cortes-Vazquez, R. (A)
Petersen, R. L. (M)

REPUBLIC OF PANAMA

Panama
Chu, M. (A)
De Boer, J. J. (M)

RUMANIA

Bucharest
Tanasescu, T. A. (SM)

Bucuresti-Margurele
Toma, V. I. (M)

SAUDI ARABIA

Dhahran
Barnes, L. (M)
Fox, K. R. (M)
Mueller, E. H. (SM)
Rieg, R. V. (M)
Stilley, J. C. (M)

Jeddah
Mostafa, K. (A)
Zuber, J. (M)

Kuwait
Mahmoud, M. A. (A)

SCOTLAND

AYRSHIRE

Ayr
Rodger, J. B. (A)

E. LOTHIAN

North Berwick
Oliphant, A. J. (M)

FIFE

St. Andrews
Campbell, C. K. (M)

LANARKSHIRE

Glasgow
Chamberlain, E. (A)
Dickson, J. B. (M)
Eaton, J. C. (M)
Howe, G. W. O. (F)
Maclean, D. J. H. (M)
Weaver, C. (M)

MIDLOTHIAN

Edinburgh
Conner, C. I. (M)
Mascall, A. L. (M)
Small, J. E. (M)

Greenock
Tait, J. S. R. (A)

SPAIN

Barcelona
Pascucci, A. (SM)
Zobel, E. V. (M)

Cadiz
De Sobrino, R. (A)

El Ferrol Del Caudillo
Martin, C. (A)

Madrid
De Onis, A. (M)
Ellis, L. W., Jr. (M)
Escolano, M. (M)
Gavilan, E. E. (A)
Herrero, M. C. (SM)
Izquierdo, L. E. (M)
Marin, H. (A)
Millan, A. (M)
Santesmases, M. I. (A)
Williams, J. R. L. (M)

STRAITS SETTLEMENTS

Singapore
Boyer, F. A. (SM)
Dyson, G. N. (M)
Hock, T. C. (M)
Snowden, J. (M)
Trafford, W. (M)

SWEDEN

Arboga
Olsson-Seffer, R. (A)

Avesta
Baecklund, J. N. (A)

Bjornstorp
Gyllenknok, T-G. (A)

Bofors
Gertzell, S. G. (A)

Bromma
Ferner, E. J. U. (A)

Danderyd
Schleimann-Jensen, A. (F)

Enskede
Axeling, G. S. (M)
Edsman, K. S. (M)

Erstavikvagen
Lundgren, E. H. (A)

Farsta
Magnusson, B-G. (M)

Goteborg
Ekelof, S. (SM)
Lundwall, B. H. (A)
Roll, A. (M)

Gothenburg
Aurell, C-G. P. (M)
Hellstroem, P. G. (A)
Hvatum, H. (M)
Olving, S. (M)

Haegersten
Person, L. B. (M)

Ladugardsvagen
Markesjo, G. A. (A)

Lidingo
Dalen, G. S. (M)
Friden, S. G. (A)
Granqvist, C. E. (F)
Hakansson, P-O. E. (A)
Lofgren, L. E. (M)
Norrelgen, G. A. (A)
Nyberg, S. L. (A)
Scholdstrom, R. K. O. (A)
Solders, P. G. (A)
Stannow, J. C. (A)
Westerhult, B. C. O. (A)

Linkoping
Hellgren, G. P. (M)
Jiewertz, B. (M)
Perers, O. F. (M)

Malmo
Romfil, G. D. R. (M)

Norrkoping
Braune, E. H. J. (M)
Werthen, H. L. O. (A)

Orebro
Hartman, D. A. B. (M)

Solna
Haard, B. (M)
Scullman, R. M. (A)

Stockholm
Ahlgren, S. I. (A)
Alfven, H. O. G. (SM)
Andersson, K. N. (A)
Anjou, L. A. (M)
Aroseniius, L. T. H. (A)
Backmark, N. (M)
Behr, K. E. (A)
Blomberg, K. H. (F)
Elfving, A. L. (M)
Enander, B. N. (A)
Eriksson, J. I. (SM)
Fagerlind, S. G. (A)
Granler, S. G. (SM)
Hansson, H. W. (M)
Jacobson, B. (A)
Josephson, B. A. S. (M)
Joste, S. V. (M)
Karlstedt, L. (A)
Katzeff, K. (M)
Kruse, O. S. N. (M)
Laurent, T. (SM)
Lindstrom, G. (M)
Lofgren, E. O. (SM)
Mollfors, H. G. (M)
Nelson, R. H. (M)
Nilsson, B. N. A. (A)
Norrby, H. J. (A)
Ohrvik, S. O. (A)
Olszanski, H. (M)
Overby, S. L. (SM)
Palmblad, B. (A)
Persson, N. I. E. (A)
Persson, T. P. (A)
Ramskold, O. S. H. (A)
Ridderstrand, L-G. I. (A)
Scheftelowitz, H. (A)
Sivers, C. H. V. (SM)
Stemme, E. (A)
Styren, K. (M)
Sundquist, A. (M)
Svala, C. G. (M)
Tomner, S. J. A. (M)
Von Utfall, J. C. J. (M)
Vos, M. (SM)
Wahlstrom, G. (A)
Warring, S. E. (M)
Weidstam, E. (SM)
Westerberg, K. S. R. (A)
Wikland, T. E. (A)

Stocksund
Feichtinger, A. F. (M)

Vallentuna
Hjortzberg, A. B. (M)

SWITZERLAND

Baden
Haffter, T. F. (M)

Bad Ragaz
Brumm, G. (M)

Basel
Fenyves, F. L. (SM)
Hagger, H. J. (M)
Huber, P. K. (A)
Thalmann, V. (A)

Berne
Anselmi, S. C. (M)
Bachmann, A. E. (A)
Diggelmann, H. (M)
Gerber, W. (A)
Rathe, E. J. (M)

Burgdorf
Menzi, H. U. (M)

Chateau-D'Oex
Roch, A. A. (M)

Frauenfeld
Baumer, H. S. (M)

Geneva
Cheretakis, A. P. (A)
Fischer, J. (A)
Gayer, J. H. (SM)
Goldberg, R. (A)
Gracie, J. A. (SM)
Gross, G. C. (F)
Hayes, L. W. (F)
Kent, R. A. (A)
Lapostolle, P. M. (SM)
Sundaram, V. (A)
Svoboda, J. J. (M)

Hegnau
Gloor, B. (A)

Kanton Zug
Mathias, J. M. (M)

Kloten
Holtz, R. F. (SM)

Lausanne
Demieville, H. (M)

Luzern
Margna, C. R. (M)

Muri-Bern
Epprecht, G. W. (M)

Neuchatel
Bonanomi, J. A. (M)

Nussbaumen
Weiss, H. (A)

Olten
Lang, G. J. (M)

Ruschlikon
Toth, P. A. (A)

Urdorf
Braun, A. F. (M)

Uster
Gibas, H. A. S. (SM)

Wettingen
Neck, H. (M)

Winterthur
Druey, W. (SM)

Zollikerberg
Keller, J. (A)
Stutz, T. O. J. (A)
Sulzer, R. F. (M)

Zurich
Baumann, E. (SM)
Baumgartner, R. H. (A)
De Quervain, A. P. (M)
Gaumann, T. (A)
Gretener, E. (SM)
Guanella, G. (SM)
Gurewitsch, A. M. (SM)
Hohermuth, H. U. (M)
Jaeger, T. C. (A)
Kinberg, C. (A)
Klein, A. L. (M)
Molinari, H. A. (M)
Mueller, H. E. (M)
Nordby, K. S. (A)
Oertli, E. H. (A)
Proebster, W. E. (A)
Ruth, L. C. (M)
Schlaeppi, H. P. (A)
Schneider, M. V. (M)
Shah, R. R. (M)
Speiser, A. P. (SM)
Staub, F. (A)
Strohschneider, W. (SM)
Strutt, M. (F)
Stuber, R. (M)
Tank, F. (F)
Thangavelu, K. S. (A)
Walder, E. (M)
Weber, G. C. (A)
Weinberger, I. (A)
Wohler, G. O. (M

TAHITI

Papeete
Baker, G. R. (M)

TANGANYIKA

Dar Es Salaam
Greig, C. (M)

TASMANIA

Kingston Beach
Roberts, R. E. (M)

THAILAND

Bangkok
Baer, J. (SM)
Bintasan, L. (A)
Chitinanda, P. (M)
Muangphant, C. (M)
Pricha, S. C. (A)
Tantraporn, V. (M)

TURKEY

Ankara
Argon, B. R. S. (M)
Balkanli, H. (M)
Cooper, J. R. (M)
Duru, O. (M)
Esmer, M. (M)
Parlar, M. N. (A)

Istanbul
Apaydin, P. (A)
Ataman, A. (M)
Ozker, T. (SM)
Septekin, T. (A)
Turhan, M. (M)
Uzgoren, F. (A)

UNION OF SOUTH AFRICA

BELGIAN CONGO

Sona Bata
Franke, G. S. (M)

CAPE OF GOOD HOPE

Capetown
Dunbar, J. (A)
Gilmour, R. R. (M)
Lennox, C. H. (M)

Grahamstown
Stack-Forsyth, E. F. (SM)

Stellenbosch
Olen, C. L. (A)

Worcester
Smuts, M. N. (A)

NATAL

Durban
Chapson, E. (A)
Phillips, W. E. (SM)

Stanger
Karodia, A. M. (A)

ORANGE FREE STATE

Kimberley
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HELPFUL HINTS

for using the IRE DIRECTORY

A few minutes' study of the basic layout of the IRE DIRECTORY will help you to find the information for which you are looking more quickly and more accurately. At first glance, the IRE DIRECTORY may seem to be confusing, but by using the various portions of the book as listed below, you will find your way around easily, and will discover that it is actually a very simple arrangement, and a much more logical one than a purely alphabetical terminology listing.

PINK SECTION at the front of the products and firms section contains a terminology index listing every product, major and minor, for which a list of manufacturers is given. Page numbers refer you to the page on which the listings for that product begin. Following this alphabetical index is a copy of the questionnaire which is sent to the firms who have furnished us with product information. A quick look through this questionnaire will help greatly in understanding the product arrangement. At the top right of this page is a small index referring you to the opening page of the complete-data spread section, the alphabetical directory, and each of the four product directories.

THE COMPLETE DATA SPREAD SECTION (pages 1-140) contains product advertisements of great usefulness to the reader. Most of these advertisements are two pages or more, and all of them contain complete information on the products manufactured by the advertising firms—specifications, prices, illustrations, and suggested applications.

ALPHABETICAL DIRECTORY OF MANUFACTURERS (pages 141-240) contains a list of 4,029 firms representing the majority of buying and selling power in the radio-electronic industry. Each firm listing contains the complete mailing address and telephone number for the firm. Following the state name in the firm address, a list of code numbers is given. These numbers refer to the 100 major products listed in the book (for quick reference to the meaning of the codes, use the questionnaire form in the pink section).

THE FOUR DIRECTORIES OF PRODUCTS ARE:

1. Communications Equipment
2. Components
3. Controls and Instruments
4. Materials and Services

This breakdown into four directories saves you from traveling through many products in which you are not interested at the moment, and helps you to turn immediately to the listings for the type of product you want, following a straight line to your destination. Use the Machol edge index at the top of the first page of the pink section to locate immediately the first page of the appropriate directory, then use the Machol edge index at the beginning of each directory to find the specific product you want. You don't even have to know the page number—the index will find it for you automatically!

100 MAJOR PRODUCTS are listed within these four Directories. Each product listing contains a number of sub-headings so that you may know specifically what each firm makes. To interpret the code numbers shown after each firm's listing, consult the first page of that product class, where the sub-headings are defined. You will note that advertisements are positioned throughout the book in the most appropriate listing section, so that the advertisement for a relay manufacturer will appear in the relay section, to help you with further information on his product. Every advertiser's listing shows you the page number on which his advertisement may be found, and you will derive more value from this book if you consult these advertisements for facts you cannot find in the listings.

COMPLETE ADDRESS LISTINGS are given only for advertisers in this section. If you wish to locate the address and telephone number for any other firm, it will be necessary to use the alphabetical directory.

THE DISTRIBUTION SECTION is class 100, the last class in the book. This section contains a list of 1,362 manufacturers representatives, distributors and jobbers, grouped geographically. See page 594 for a more complete explanation of the use of this section.

ADVERTISER'S INDEX appears on pages 135-140 and on pages 619 and 620.

How to Use the Machol Edge Index

High speed reference is a major objective of the IRE Directory. To this end we have adopted the Machol Edge Index system, and these indexes:

Advertisers Index, pages 135-140 and 619-620.

Key to Products, Pink Section.

Index to Spreads, 1.

1 COMPLETE DATA SPREADS
141 ALPHABETICAL COMPANY LIST
241 DIRECTORY I COMMUNICATIONS
275 DIRECTORY II COMPONENTS
461 DIRECTORY III CONTROLS & INSTRUMENTS
519 DIRECTORY IV MATERIALS & SERVICES

Detailed Machol edge indexes will be found on the first page of the alphabetical Directory and each of the four major product Directories, pages 141, 241, 275, 461 and 519. The Machol system will help you find both alphabetical and product sections swiftly.

HOW TO USE

1. Bend the Directory almost double with the front cover page on the inside.
2. Hold in your right hand with your four fingers near to the bound edge and your right thumb near the middle of the open side of this page.
3. From the heavy or light line symbol adjacent to the subject you seek, run your eyes across the page edges until you reach the horizonally corresponding symbol.
4. OPEN THERE!



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William C. Copp, Mgr.; Lillian Petranek, Asst.; Carl Maier, Production; Frank G. MacAloon, Research.

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55 ☐ Slide
60 ☐ Solenoids
65 ☐ Spring-return
70 ☐ Tap
75 ☐ Thermally operated
77 ☐ Time
80 ☐ Toggle & push button

57 Thermostats.
Page 431

05 ☐ Bellows
10 ☐ Bimetal
15 ☐ Hermetically sealed

58 Transducers.
Page 433

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15 ☐ Thermo electric

59 Transformers.
Page 435

05 ☐ Audio
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15 ☐ 400 cps
20 ☐ Geophysical
25 ☐ Hermetically sealed
27 ☐ High voltage
30 ☐ Horizontal output & flyback
32 ☐ Instrument
35 ☐ Intermediate frequency
40 ☐ Isolation
42 ☐ Low frequency
43 ☐ Microwave
45 ☐ Power
50 ☐ Precision matched
52 ☐ Precision voltage dividing
55 ☐ Pulse
60 ☐ Radio Frequency
65 ☐ Saturable
70 ☐ TV deflection
75 ☐ TV impedance matching
80 ☐ Toroidal
85 ☐ Ultrasonic
87 ☐ Vibrator
90 ☐ Variable
95 ☐ Voltage Regulating

Transistors, See: 54

60 Tuners.
Page 444

05 ☐ AM tuners
10 ☐ FM tuners
15 ☐ Klystron
20 ☐ Microwave
25 ☐ TV tuners
30 ☐ UHF & VHF

61 Vacuum Tubes, Receiving.
Page 446

05 ☐ Cathode-ray & TV picture
10 ☐ Miniature
15 ☐ Standard types, glass & metal
20 ☐ Sub-miniature

62 Vacuum Tubes, Special Purpose.
Page 447

05 ☐ Electrometer tubes
10 ☐ Geiger-Mueller
15 ☐ Phototubes
20 ☐ Pirani tubes
25 ☐ Thyratrons
30 ☐ Voltage regulators & ballasts
35 ☐ X-Ray

63 Vacuum Tubes, Transmitting.
Page 451

05 ☐ ATR & TR types
10 ☐ Air-cooled power tubes
15 ☐ Iconoscopes
20 ☐ Image orthicons
25 ☐ Klystrons
30 ☐ Magnetrons
35 ☐ Monoscope tubes
40 ☐ Traveling wave
45 ☐ Water-cooled power tubes

64 Vibration Controls.
Page 453

05 ☐ Vibration & shock mounts
10 ☐ Isolation pads

65 Voltage Regulators.
Page 453

05 ☐ Automatic
10 ☐ Manually operated
15 ☐ Varistors

66 Waveguides & Accessories.
Page 455

03 ☐ Cavities
05 ☐ Couplings
10 ☐ Crystal-detectors
15 ☐ Crystal mounts
20 ☐ Directional couplers
25 ☐ Duplexers
30 ☐ Flexible waveguides
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43 ☐ Isolators
45 ☐ Multipliers
50 ☐ Probes
55 ☐ Rigid waveguides
60 ☐ Rotary joints
65 ☐ Sampling lines, reflectors, etc.
70 ☐ Switches
75 ☐ Terminations
80 ☐ Transmission lines
82 ☐ Unfinished Castings

III. Controls—Instruments—Test Equipment
Page 461

67 Audio Frequency Test Equipment.
Page 463

03 ☐ AF signal
05 ☐ Beat frequency oscillators
10 ☐ Distortion & noise analyzers
15 ☐ Intermodulation meters
17 ☐ Harmonic Frequency
20 ☐ Output power meters
25 ☐ RC oscillators
27 ☐ Sound level
30 ☐ Spectrum analyzers
35 ☐ Square wave generators
40 ☐ Telegraph test
45 ☐ Voltmeters-audio frequency

68 Automatic Control Equipment.
Page 464

05 ☐ Burglar-alarm & protective systems
10 ☐ Combustion & smoke-nuisance controls
15 ☐ Electronic remote controls
16 ☐ Fluid flow
17 ☐ Gyroscopes
18 ☐ Liquid level
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27 ☐ Pressure
30 ☐ Production controls, counting & sorting equipment
35 ☐ Qualitative controls
40 ☐ Quantitative controls
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44 ☐ Timing
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50 ☐ Variable speed controls

69 Bridges & Decades.
Page 469

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10 ☐ Bridges, impedance
15 ☐ Bridges, inductance
20 ☐ Bridges, resistance
25 ☐ Decades, capacitance
30 ☐ Decades, impedance
35 ☐ Decades, inductance
40 ☐ Decades, resistance

70 Computers & Counters.
Page 471

05 ☐ Analog to digital converters
07 ☐ Card to tape converters
10 ☐ Computers, analog
15 ☐ Computers, digital
20 ☐ Counters, continuous
22 ☐ Counters, mechanical
25 ☐ Counters, pre-set
30 ☐ Data reduction equipment
32 ☐ Digital to analog converters
35 ☐ Drums, magnetic
40 ☐ Electronic calculators
42 ☐ High speed printer
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47 ☐ Tape recording & play back equipment

71 General Laboratory Equipment & Supplies.
Page 477

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72 General Test Equipment.
Page 479

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73 Geophysical Apparatus.
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10 ☐ Control equipment
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74 Graphic Recorders.
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75 Laboratory Standards of Frequency & Time.
Page 495

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10 ☐ Frequency meters
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17 ☐ Mixers
20 ☐ Oscillators
25 ☐ Pulse generators
30 ☐ Slotted lines & measuring accessories
35 ☐ SWR meters
40 ☐ Time delay generators
45 ☐ Wavemeters

78 Nuclear Equipment.
Page 504

05 ☐ Beta gauges
10 ☐ Crystals
15 ☐ Dosimeters
20 ☐ Ionization chambers
25 ☐ Ionization gauges
30 ☐ Particle accelerators
35 ☐ Pulse count integrators
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10 ☐ Oscilloscope cameras
15 ☐ Oscillosynchroscopes
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25 ☐ Special UHF & pulse analysis equipment
30 ☐ Time & voltage calibrators

80 Radio Frequency Test Equipment.
Page 507

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10 ☐ Impedance & admittance meters
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20 ☐ Multi-vibrators
25 ☐ Oscillators
30 ☐ Phase meters
35 ☐ "Q" meters
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50 ☐ Signal generators, FM
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55 ☐ Sweep generators

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13 ☐ Resolvers
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17 ☐ Servo multipliers
20 ☐ Servo motors & generators

82 Television Test Equipment.
Page 517

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10 ☐ TV calibrators
15 ☐ TV marker generators
20 ☐ TV signal generators
25 ☐ TV sweep generators
30 ☐ UHF-VHF generators

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Page 520

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05 ☐ Antenna feeder line
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10 ☐ Co-axial cables
15 ☐ Copper, bare
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20 ☐ Enamel coated
25 ☐ Low-loss, high-frequency types
30 ☐ Magnet wire
32 ☐ Microphone
34 ☐ Plated
35 ☐ Precious & rare metals wire
40 ☐ Pre-formed wire harnesses
45 ☐ Rubber insulated

50 ☐ Shielded
55 ☐ Synthetic insulated
57 ☐ UHF
60 ☐ Wire mesh
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84 Ceramics.

Page 531

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10 ☐ Custom fabrication
12 ☐ Ferrites
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17 ☐ Metallized
20 ☐ Proprietary forms

85 Consulting Engineers.

Page 533

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10 ☐ Electrical
15 ☐ Electronic
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86 Fabricators & Services.

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50 ☐ Plastic molders

87 Hardware & Findings.

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90 Laboratories & Custom Builders.

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05 ☐ Coil dope
10 ☐ Conductive coatings
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24 ☐ Insulation solvents
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40 ☐ Vacuum pumps
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93 Metals.

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95 Plastics.

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96 Solder.

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97 Vacuum Tube Parts.

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40 ☐ Pins & Prongs
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100 Distribution.

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(1) Institute of Radio Engineers Sponsored Meetings In 1959

(2) Special Editorial Subject Coverage By Month & IRE Directory

Issue	Event	Place & Date	Professional Group Members	Publication Remarks
JANUARY PROCEEDINGS of the IRE	Transistor and Solid State Circuit Conference	Philadelphia February 12-13	6,528* (PGCT)	See NOTE A
	Editorial Feature: IGY and Ionosphere Report			
FEBRUARY PROCEEDINGS of the IRE	Western Joint Computer Conference	San Francisco March 3-5	7,340* (PGEC)	See NOTE B
	IRE National Convention & Radio Engineering Show	New York City March 23-26	(Sponsored by all Professional Groups)	Pre-Show Issue; Advance Information
MARCH PROCEEDINGS of the IRE	IRE National Convention & Radio Engineering Show	New York City March 23-26	(Sponsored by all Professional Groups)	SHOW ISSUE: Official listings, events, papers & exhibitors —FREE ADLETS in program for Exhibiting Advertisers
APRIL PROCEEDINGS of the IRE	South Western IRE Regional Conf. & Electronic Show	Dallas April 16-18	(Regional Sponsorship)	See NOTE B
	National Aeronautical Electronics Conference	Dayton May 4-6	3,077* (PGANE)	See NOTE B
	Microwave Theory & Techniques National Symposium	Boston May 6-9	3,889* (PGMTT)	See NOTE A
	Editorial Feature: Infra-Red Techniques and Systems			
JUNE PROCEEDINGS of the IRE	International Conf. on Information Processing	Paris, France June 15-20	7,340* (PGEC)	See NOTE B
	Third National Convention on Military Electronics	Washington D.C. June 29-July 1	3,326* (PGMIL)	See NOTE B
	Editorial Feature: Government Research			
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	National Symposium on Telemetering	San Francisco September	2,801* (PGTRC)	See NOTE B

Continued on other side



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Issue	Event	Place & Date	Professional Group Members	Publication Remarks
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	National Electronics Conference	Chicago October 12-15	(Regional Sponsorship)	See NOTE B
	Editorial Feature: Medical Electronics			
OCTOBER PROCEEDINGS of the IRE	East Coast Aero. & Navigational Electronics Conference	Baltimore October 26-28	3,077* (PGANE)	See NOTE B
	Electron Devices Meeting	Washington D.C. October 29-31	4,066* (PGED)	See NOTE A
	National Automatic Control Conference	Dallas November 4-6	3,103* (PGAC)	See NOTE A
NOVEMBER PROCEEDINGS of the IRE	NEREM	Boston November	(Regional Sponsorship	See NOTE B
	Eastern Joint Computer Conference	Boston Nov. 30-Dec. 3	7,340* (PGEC)	See NOTE B

* This number indicates the number of memberships held in the IRE Professional Group sponsoring the event. The Institute of Radio Engineers has a total membership of 54,579 individuals (plus 12,444 student members); many IRE members also pay an extra fee to join one or more "Professional Groups" in order to associate themselves with others of similar interest and obtain additional material on the subject. The number of such memberships held by IRE members is 66,966 (plus 4,036 held by student members).

NOTE A: PROCEEDINGS of the IRE will publish available information regarding the event, as this conference does not have exhibits. Special reference will be made to advertisements of applicable products under the heading "Exhibits in Print" upon the request of the manufacturer or advertising agency.

NOTE B: Available information regarding the event will be published; also included in PROCEEDINGS will be the names of companies exhibiting with display booth and advertising page numbers.

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1959 IRE DIRECTORY

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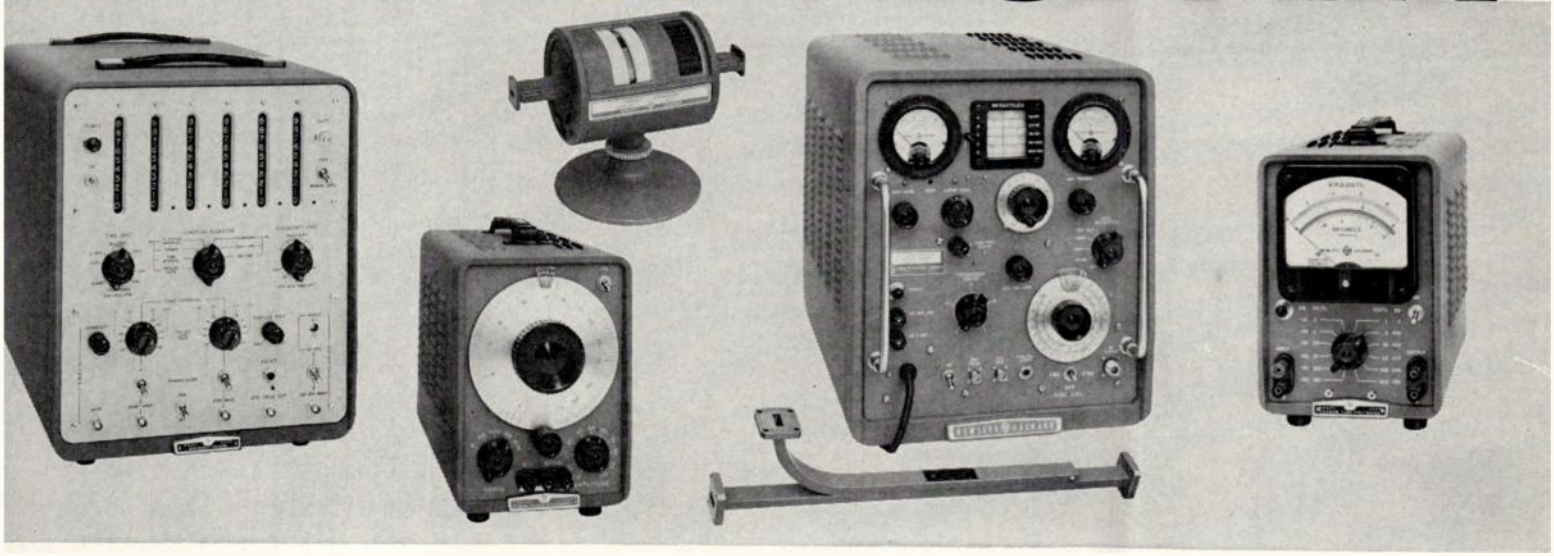
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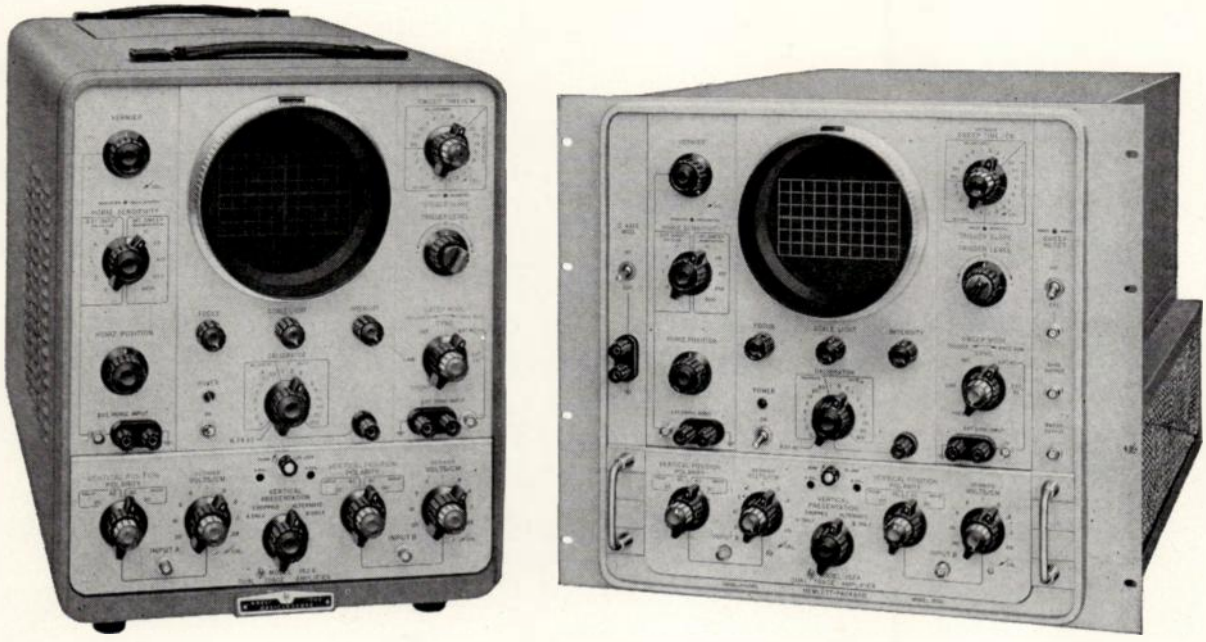
SHORT FORM



CATALOG 1958

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-hp- 150A/AR High Frequency Oscilloscopes—DC to 10 MC

Models 150A and 150AR are deliberately designed as the most broadly useful, most convenient high quality 10 MC oscilloscopes ever built. Unique features such as the universal automatic optimum-trace trigger, direct-reading calibrated sweeps, simplified color-coded controls and quick filter or cathode ray tube interchange—all combine to save hours of engineering time.

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Specifications

Sweep Range: 0.02 μsec/cm to 15 sec/cm.

Calibration: 24 sweeps: 1-2-5-10 sequence, 0.1 μsec/cm to 5 sec/cm. 3% accuracy.

Triggering: Internal, line voltage or external 0.5 v or more. Pos. or neg. slope, + 30 to −30 v trigger range.

Preset Trigger: Optimum setting for automatic stable triggering.

Horizontal Amplifier: Sweep magnification 5, 10, 50, 100 times. Vernier position control selects any 10 cm part of sweep. External input pass band dc to over 500 KC. Sensitivity 200 mv/cm to 15 v/cm.

Vertical Amplifier: Pass band dc to 10 MC. Optimum transient response and rise time less than 0.035 μsec. Signal delay of 0.25 μsec permits leading edge of triggering signal to be viewed.

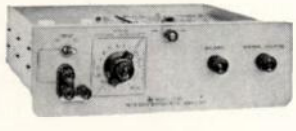
Amplitude Calibration: 18 calib. voltages, 1-2-5-10 sequence, 0.2 mv to 100 v peak-to-peak. Accuracy 3%. Approx. 1 KC square wave, rise and decay approx. 1.0 μsec.

Prices: *-hp-* 150A High Frequency Oscilloscope, $1,100.00.
-hp- 150AR Rack Mount Oscilloscope, $1,200.

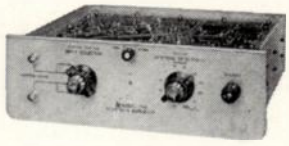
New amplifiers and accessories



-hp- 152B Dual Trace Differential Amplifier. New plug-in amplifier providing differential input and dual traces electronically switched between A and B channels at either 100 KC or on alternate sweeps. Sensitivity range 0.05 v/cm to 50 v/cm, input attenuator with 9 calibrated ranges in 1-2-5-10 sequence and vernier. $250.00.



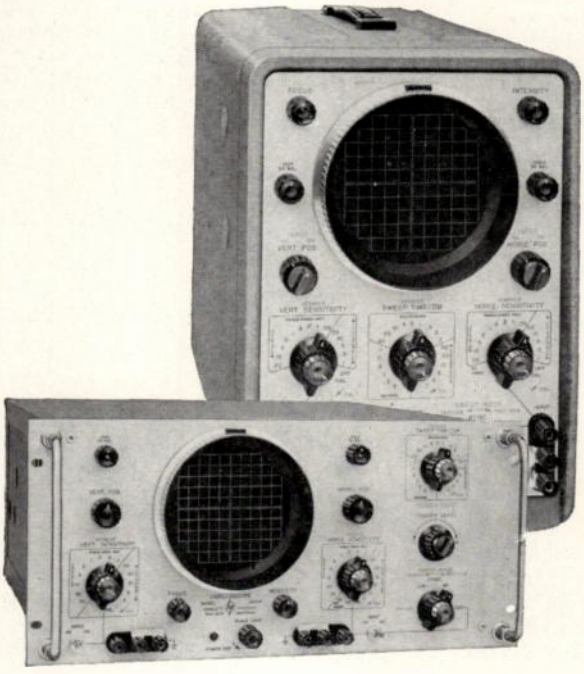
-hp- 153A Very High Gain Amplifier. New plug-in permitting *-hp-* 150A to be used for many direct measurements from transducer without *preamplification*. Pass band dc to 500 KC, sensitivity 1 mv/cm to 125 v/cm, balanced input on the 6 most sensitive ranges. 15 calibrated ranges in 1-2-5-10 sequence, 1 mv/cm to 50 v/cm; plus vernier. $125.00.

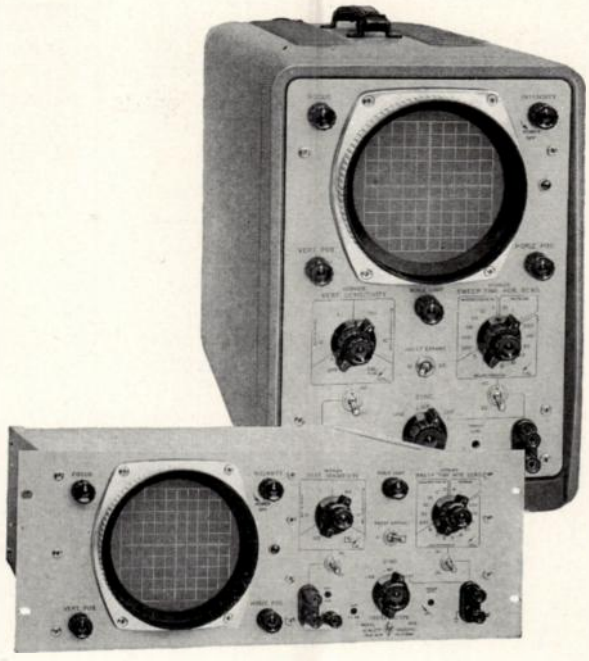


-hp- 151A High Gain Amplifier. For either 150A or 150AR, high gain unit with 5.0 mv/cm sensitivity, frequency response dc to 10 MC. 12 calibrated ranges on 1-2-5-10 sequence. 1 megohm input impedance with 27 μμf shunt. Pass band rise time 0.035 μsec. Has 2 BNC terminals. $200.00.

Data subject to change without notice. Prices f. o. b. factory.

quality oscilloscopes – DC to 10 MC!





-hp- 130B/BR – DC to 300 KC

Termed the finest low frequency oscilloscope ever offered, *-hp-* 130B/BR combine big 'scope performance and positive dependability with 1 mv sensitivity and the convenience of direct reading, "universal" automatic trigger, no preamplification from most transducers and simple controls.

Similar X and Y amplifiers

Models 130B/BR have similar horizontal and vertical amplifiers with sensitivity 1 mv/cm to 125 v/cm. Input circuits are balanced on the 6 most sensitive ranges; single ended input dc or ac coupled. 21 sweep times may be directly set, instrument sweeps 1 μsec/cm to 12.5 sec/cm, triggering is internally, by line power, or externally by 0.5 v or greater. Includes x 5 magnifier for all internal sweeps increasing fastest sweep time to 0.2 μsec/cm. *-hp-* 130B (cabinet) or 130BR (rack) $650.00.

-hp- 120A/AR – DC to 200 KC

Ideal for industrial or production line work as well as daily lab jobs, Models 120A/AR are outstanding in both value and "big 'scope" performance features. This all-new instrument covers DC to 200 KC, has the *-hp-* universal trigger circuit which optimizes signals automatically; also offers automatic synchronization on any internal or external voltage including line power.

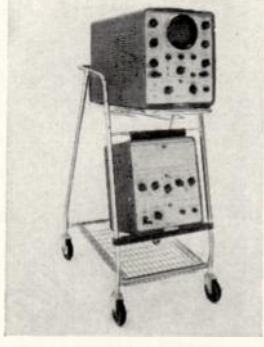
Sweeps 1 μsec/cm to 0.5 sec/cm

Features include 15 calibrated sweeps in 1-2-5 sequence, sweep speeds range 1 μsec/cm to 0.5 sec/cm, "times-5" sweep expansion on all ranges, high sensitivity calibrated vertical amplifiers. All power supplies are regulated for steady, drift-free traces. Automatic trigger and base line can be cut out for bright, clear photography trace. Extra compact Model 120AR is only 7" high. Utmost dependability, rugged construction. *-hp-* 120A (cabinet) or 120AR (rack) $435.00.

increase convenience of your 150A/AR



-hp- AC-21C 50:1 Voltage Divider Probe. A 50:1 divider with high 10 megohm input impedance and low 2.5 μμf input capacitance. Convenient "pen" size for maximum handling ease. Probe has durable, attractive nylon barrel, alligator clip contactor. $25.00.



-hp- AC-115A Oscilloscope Testmobile. Most convenient mobile oscilloscope mounting. For 150A oscilloscopes but usable with other instruments. Rolls easily on large 4" rubber-tired wheels. Extra-sturdy construction of ⅞" tube stock, gleaming chrome throughout. Top shelf tilts 30° in four 7½° increments for better viewing. $80.00.

-hp- AC-116A Testmobile Storage Unit. Extra-convenient storage for -hp- 151A, 152A/B, 153A oscilloscope plug-ins. Holds up to three extra plug-ins; guards against dust, mechanical damage. Fits *-hp-* AC-115A Testmobile (see photo); no installation needed. $22.50.

-hp- AC-117A Testmobile Accessory Drawer. Fits in *-hp-* AC-116A Storage Unit; convenient drawer storage for tools, components, solder, etc. Photo shows AC-117A installed in top rack of AC-116A Storage Unit. $10.00.

-hp- Oscillators—0.008 to 10,000,000 cps

Hewlett-Packard now offers 12 high quality, fast and accurate oscillators, each an exceptional value and each engineered to do a specific job best. Each incorporates the famous RC resistance capacity circuit pioneered by *-hp-*. This circuit makes possible instruments that are highly stable, wide range, compact and portable; instruments that are extremely simple to operate and require no tedious re-setting or adjustment during operation.

Instrument	Primary Uses	Frequency Range	Output	Price
-hp- 200AB	Audio tests	20 cps to 40 KC	1 watt/24.5 v	$130.00
-hp- 200CD	Subsonic through supersonic audio and ultrasonic tests	5 cps to 600 KC	160 mw or 10 v/600 ohms; 20 v open circuit	160.00
-hp- 200J	Interpolation, frequency measurements	6 cps to 6 KC	160 mw/10 v	275.00
-hp- 200T	Telemetry, carrier current tests	250 cps to 100 KC	160 mw or 10 v/600 ohms; 20 v open circuit	350.00
-hp- 201C	High quality audio tests	20 cps to 20 KC	3 w or 42:5 v/600 ohms	225.00
-hp- 202A	Low frequency measurements	0.008 to 1200 cps	28 mw or 30 v p-p/4000 ohms	465.00△
-hp- 202C	Servo equipment tests, measurements	1 cps to 100 KC	160 mw or 10 v/600 ohms	300.00
-hp- 205AG	High power audio tests, gain measurements	20 cps to 20 KC	5 watts	475.00△
-hp- 206A	High quality, high accuracy audio tests	20 cps to 20 KC	+ 15 dbm	615.00△
-hp- 207A	Audio sweep generation	20 cps to 20 KC	160 mw or 10 v/600 ohms	275.00
-hp- 233A	Carrier oscillator—current tests	50 cps to 500 KC	3 w/600 ohms	475.00
-hp- 650A	Wide range video tests	10 cps to 10 MC	15 mw/3 v	490.00△

△ Rack mounted instruments available at $15.00 less.

-hp- 200 Series Audio Oscillators



For audio and ultrasonic measurements, *-hp-* offers popular Models 200AB and 200CD. Both have highest stability and accurate tuning circuits. Low impedance operating levels plus superior insulation guarantee long years of trouble-free dependability. Operation is simple; just three controls; no zero setting necessary. *-hp-* 200AB, 20 cps to 40 KC, $130.00. *-hp-* 200CD, 5 cps to 600 KC, $160.00.

-hp- 207A Sweep Oscillator



This new audio oscillator provides continuous single-sweep frequency coverage from 20 cps to 20 KC. No band switching is needed; dial accuracy is 4%, and the instrument also provides a flexible 10 v/600 ohm output usable balanced or with one side grounded. Frequency response is ±1.0 db full range, distortion and hum are less than 1%. *-hp- 207A may be swept by hand, motor driven, tuned remotely or coupled to a recorder.* -hp- 207A, $275.00.



-hp- 202A Function Generator

Compact, multi-purpose source of transient-free test voltages from 0.008 cps to 1,200 cps. Continuously variable through 5 bands; offers exceptional stability (within 1%) and distortion less than 1% to 100 cps. Sine, square or triangular waves may be selected by a front panel switch; the 30 volt output peak-to-peak is constant for all wave forms and over full frequency range. *-hp-* 202A, $465.00△.



-hp- 650A Test Oscillator

Covering 10 cps to 10 MC, *-hp-* 650A is a highly stable, wide band instrument for audio, supersonic, video and rf measurements. Output is flat within 1 db full range; voltage range is 0.00003 to 3 v. In addition to 600 ohm impedance, voltage divider provides a 6 ohm impedance. Distortion less than 1% to 100 KC; stability ±2% to 100 KC. $490.00△.

-hp- Distortion, Wave Form Analyzers—20 cps to 20 KC

-hp- 330B Distortion Analyzer



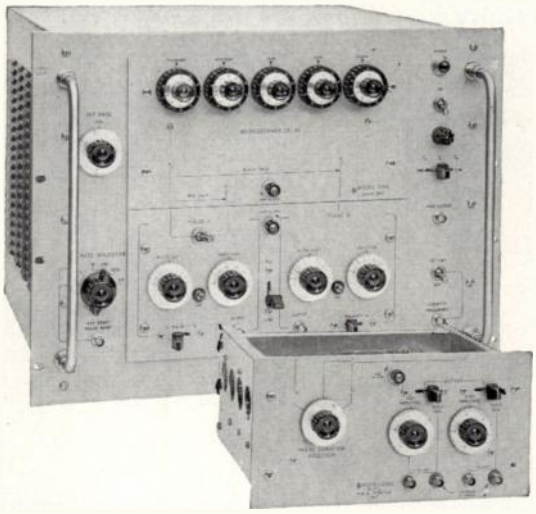
Measures distortion as low as 0.1% from 20 cps to 20 KC; also measures noise voltages down to 100 μv. Sensitivity is high; distortions of 0.3% are measured full scale and levels of 0.1% are readable accurately. Frequency calibration accurate within ±2% full range. Includes a 20 db amplifier, oscilloscope terminals and precision 10 cps to 100 KC vacuum tube voltmeter usable separately. $410.00△.

Instrument	Primary Uses	Frequency Range	Characteristics	Price
-hp- 300A	Wave form analyzer	30 cps to 16 KC	Variable selectivity; measuring range 1 mv to 500 v	$775.00
-hp- 330B	Measures total audio distortion	20 cps to 20 KC	Includes input amplifier, VTVM	410.00△
-hp- 330C	For FM broadcast measurements	20 cps to 20 KC	Special VU meter to meet F.C.C. requirements	440.00△
-hp- 330D	For AM, FM broadcast measurements	20 cps to 20 KC	AM detector and VU meter to meet F.C.C. requirements	455.00△

△ Rack mounted instruments available at $15.00 less.

For details, circle #6 on Reader Service Card

NEW! -hp- 218A Digital Delay Generator



Independently adjustable time intervals or pulse delays
±0.1 μsec time interval accuracy
Crystal oscillator time base
Regulated power supplies

Model 218A Digital Delay Generator is a totally new instrument applicable to many types of timing measurements including calibrating the range determining circuits of radar receivers, etc. The generator is built to rigid standards and is suitable for military use. It provides two precision time intervals or pulse delays, either of which are independently adjustable from 1 to 10,000 microseconds in 1 microsecond steps. These time intervals are accurate to within 0.1 microsecond ±0.001% of the selected value, and may be initiated from an internal multi-vibrator, 10 cps to 10 KC, or from an external rate generator, 0 cps to 10 KC. Total jitter does not exceed 0.02 microseconds in either case. The instrument also provides a 50 volt synchronizing output pulse at the beginning or end of a time interval, and a 1 microsecond timing comb output at the front panel.

-hp- 219A Dual Trigger Unit

This plug-in drawer for *-hp-* 218A supplies trigger pulses of positive polarity, 50 volts, 0.1 μsec rise time from a 50 ohm source. Pulse A occurs at T_0 or T_1 as selected by a switch; Pulse B is triggered at T_2. *-hp-* 219A, $100.00.

-hp- 219B Dual Pulse Unit

This plug-in drawer for *-hp-* 218A produces two high-power pulses which are continuously adjustable in width, 0.2 to 5 μsec and in amplitude from 0 to 50 volts, positive or negative polarity. The leading edge of these pulses can be set to occur at the beginning or end of the selected time interval. Both pulses are brought out to separate front panel jacks but may be switched to a common jack with no change in level or output impedance. *-hp-* 219B, $450.00.

-hp- 219C Digital Pulse Duration Unit

This plug-in drawer for *-hp-* 218A produces a high power output pulse whose delay and duration are digitally controlled. The pulse is available in both polarities simultaneously, and is continually adjustable in amplitude up to 20 volts from a 90 ohm source. It may also be obtained from a directly coupled 500 ohm source with an amplitude of 100 volts. *-hp-* 219C, $350.00.

No count ambiguity

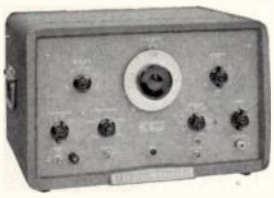
A unique feature of the new *-hp-* 218A is its time base, a pulsed crystal controlled oscillator. The oscillator starts at T_0 and stops at the last output pulse. This eliminates the "plus-or-minus-1-count" ambiguity of many counter circuits in such application.

Model 218A is a completely self-contained instrument, requiring only one or more *-hp-* 219 series plug-ins to perform a broad variety of time and delay generation measurements. Simplicity and flexibility are increased by the large variety of input and output connections brought to the front panel. The instrument is particularly compact and well-designed; etched circuits and the use of plug-ins materially increase circuit accessibility.

The instrument's power supplies are fully regulated to avoid effects of line voltage variations. It is available as *-hp-* 218A, cabinet mount, or 218AR, rack mount. *-hp-* 218A/AR, $2,000.00.

-hp- Square Wave and Pulse Generators

-hp- 212A Pulse Generator



Provides continuously variable, high power "fast pulses" of superior wave form. Combines broad general usefulness with 0.02 μsec rise and decay time to meet requirements of radar, TV and nuclear work. Pulse length variable 0.07 to 10 μsec; minimum overshoot; 50 watt peak power (50 v to 50 ohms load). Low impedance means accurate pulses can be delivered at a distance from the instrument. Repetition rate variable 50 to 5,000 pps; controlled internally or externally. Synchronizing pulse available in advance of, or following output pulse. $565.00 (cabinet), $550.00 (rack mount).

-hp- 211A Square Wave Generator



Versatile, wide range instrument for testing oscilloscopes, networks, video and audio amplifier performance, modulating signal generators and measuring time constants. Offers simple control of electronic switches; is also convenient for indicating phase shift, frequency response, transient effects. Two separate outputs (a) 7 volt 75 ohm circuit for TV work; (b) 55 volt 600 ohm output for high level work. Both have full amplitude variation. Instrument operates free-running or externally synchronized with positive going pulse or sine wave of 5 volts minimum amplitude. $265.00.

-hp- Vacuum Tube Voltmeters—10 to 700,000,000 cps

NEW! -hp- 400L Logarithmic Voltmeter



New *-hp-* 400L, 10 cps to 4 MC, features a 5" true log voltage scale plus a 12 db linear decibel scale. The log voltage scale plus long scale length provides a voltmeter of maximum readability and an accuracy which is a ***constant percentage of the reading***. Accuracy is ± 2% of reading or ± 1% of full scale, whichever is more accurate, to 500 KC; ± 5% full frequency range. Voltage range 0.3 mv to 300 v in 12 steps.

Generous overlap is insured by a 10 db range switch plus a 12 db scale length. High stability, 10 megohm input impedance. Meter is mirror backed for maximum accuracy. Also may be used as a stable amplifier. $325.00.

NEW! -hp- 425A Microvolt-Ammeter



New, high sensitivity, high stability microvolt meter reading full scale voltages of 10 μv to 1 v in 11 ranges. Also reads currents of 10 μμa to 3 ma in 18 step, 1-3-10 sequence. Accuracy ± 3% on all ranges. Drift less than 2 μv referred to input terminals. Input impedance 1 megohm ± 3% on all ranges. Instrument can also be used as a 100 db amplifier providing up to 1 v output from signals as small as 10 μv. Amplifier ac rejection is at least 3 db at 0.2 cps and 60 db at 60 cps. In addition to engineering uses ideal for physics, chemistry applications including grid or photomultiplier tube currents, ionization levels, thermocouple potentials and voltaic currents. Also measures v in living cells, nerves, seeds, plants. Includes probe. $500.00.

-hp- 400D Vacuum Tube Voltmeter



Best *-hp-* voltmeter ever built! Covers all frequencies 10 cps to 4 MC. Extremely sensitive, wide range, accurate within 2% to 1 MC, measures 0.1 mv to 300 v. Direct reading in dbm. 10 megohm input impedance insures negligible loading on circuits under test. New amplifier circuit with mid-range feedback assures utmost stability, freedom from change due to external conditions. $225.00.

-hp- 410B Vacuum Tube Voltmeter



All-purpose test instrument, range 20 cps to 700 MC. Also serves as dc VTVM with over 100 megohms impedance, or ohmmeter for measurements 0.2 ohms to 500 megohms. Input capacity 1.5 μμf, 10 megohms input impedance; employs radical diode probe which virtually eliminates circuit loading. Industry's most versatile precision voltmeter. $245.00.

Instrument	Primary Uses	Frequency Range	Voltage Range	Input Impedance	Price
-hp- 400AB	General purpose ac measurements	10 cps to 600 KC	0.003 to 300 v 11 ranges	10 megohms 25 μμf shunt	$200.00
-hp- 400D	Wide range ac measurements High sensitivity	10 cps to 4 MC	0.001 to 300 v 12 ranges	10 megohms 15 μμf shunt	225.00
-hp- 400H	High accuracy wide range ac measurements	10 cps to 4 MC	0.001 to 300 v 12 ranges	10 megohms 15 μμf shunt	325.00
-hp- 400L	Log voltages, linear db measurements	10 cps to 4 MC	0.3 mv to 300 v 12 ranges	10 megohms 15 μμf shunt	325.00
-hp- 410B	Audio, rf, VHF measurements; dc voltages; resistances	dc; ac—20 cps to 700 MC	0.1 to 300 v 7 ranges	dc—122 megohms; ac—10 megohms/ 1.5 μμf	245.00
-hp- 425A	Read μv, μμa; 100 db amplifier; medical, biological, physical, chemical	dc voltages as 100 db amplifier	10 μv to 1 v 11 ranges	1 megohm ± 3%	500.00



-hp- 400H Vacuum Tube Voltmeter

Need extreme accuracy of 1%? *-hp-* 400H covers 10 cps to 4 MC, has 5" meter with mirror scale, measures voltages 0.1 mv to 300 v. 10 megohm resistance minimizes circuit loading, amplifier with 56 db feedback insures lasting stability. Direct reading in db or v. Extremely high quality throughout. $325.00.

-hp- accessories increase usefulness of your voltmeters

Instrument	Features	Price
-hp- 452A Capacitive Voltage Divider	For all -hp- ac VTVM. 25 cps to 20 MC. Division 1000:1	$100.00
-hp- 452-95A Adapter	Connects -hp- 452A to -hp- 410B VTVM probe	10.00
-hp- 453A Capacitive Voltage Divider	For -hp- 410B VTVM only. Division 100:1	25.00
-hp- 454A Capacitive Voltage Divider	For -hp- 400D and 400H only. Division 100:1	30.00
-hp- 455A Probe Coaxial "T" Connector	For -hp- 410B VTVM. Measures voltages between conductor and sheath of 50 ohm transmission line	35.00
-hp- 458A Probe Coaxial "N" Connectors	For -hp- 410B VTVM. Measures volts at open end of 50 ohm transmission line	25.00
-hp- 459A DC Resistive Voltage Multiplier	For -hp- 410B VTVM. For measuring high dc voltages safely. Multiplies 1:100	25.00
-hp- 470A to F Shunt Resistors	For -hp- 400 series VTVM. For measurement of current	470A - 15.00 470B-F - 10.00

NEW! -hp- 524D Precision Electronic Counter



New stability—5 parts in 10^8 per week

New convenience—8 vertical readout units

Direct, instantaneous, automatic readings

Covers frequencies 10 cps to 220 MC

Measures time interval 1 μsec to 100 days

Measures period 0 cps to 10 KC

Resolution 0.1 microseconds

No calculation or complex setup

Easily used by non-technical personnel

High, sensitivity, impedance, reliability

5 PLUG-IN UNITS INCREASE FLEXIBILITY, USEFULNESS FOR MANY MEASUREMENTS



-hp- 525A Frequency Converter. Extends 524D's direct reading range to cover 10 cps to 100 MC with no loss in accuracy. Provides additional amplification to increase video sensitivity to 0.1 v through 524D's basic 10 cps to 10.1 MC range. $250.00.



-hp- 525B Frequency Converter. Converts -*hp*- 524D for direct readings 100 to 220 MC in decade steps. Maintains same high accuracy throughout range; provides high sensitivity for low level work. $250.00.



-hp- 526A Video Amplifier. Increases 524D sensitivity to 10 mv for low power frequency measurement 10 cps to 10.1 MC. Accuracy same as counter; minimum input 10 millivolts rms. $175.00.



-hp- 526B Time Interval Unit. Permits 524D to measure interval 1.0 μsec to 100 days with accuracy of 0.1 μsec ± 0.0001%. Reads in sec, msec or μsec. Triggering from separate "stop" or "start" on pos. or neg. going waves. Trigger adjustable −192 to + 192 volts. $175.00.



-hp- 526C Period Multiplier. Permits 524D to measure period over 100, 1,000 or 10,000 cycles of unknown, thus providing the greater accuracy of mid-range frequency readings. Front panel switch selects desired period. $225.00.

New crystal oscillator stability of 5 parts in 10^8 per week plus the added convenience of uniform vertical neon readout units—these are significant advances incorporated into new -*hp*- 524D Electronic Counter, *at no increase in price over -hp- 524B.*

The new 524D permits you to buy only the basic counting facilities you need now—later on add inexpensive plug-ins to triple and quadruple the usefulness of your counter.

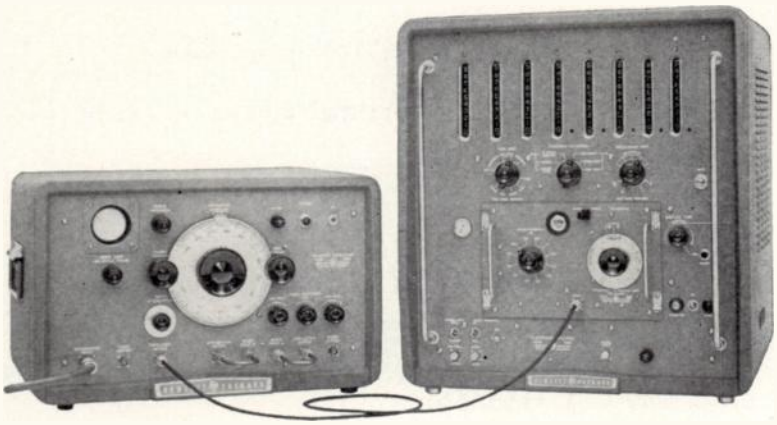
The basic -*hp*- 524D reads frequency 10 cps to 10 MC over 5 selected periods. Display time is variable, counts are automatically reset, action is repetitive, readings are direct without calculation or interpolation; an automatic illuminated decimal point is included.

The instrument is of highest quality throughout and employs a military design approach. -*hp*- 524D, less plug-ins, $2,150.00 (cabinet); $2,125.00 (rack mount).

Instrument	Primary Uses	Frequency Range	Characteristics	Price
-hp- 524B Frequency Counter	Frequency, period measurements	10 cps to 10 MC (Freq.) 0 cps to 10 KC (Period)	Direct reading, no interpolation, stability about 2/1,000,000/week	$2,150.00■
-hp- 524D Frequency Counter	Frequency, period measurement	10 cps to 10 MC (Freq.) 0 cps to 10 KC (Period)	Direct reading, no interpolation; stability $5/10^8$ per wk	2,150.00■
-hp- 525A Frequency Converter	Extends 524 range to 100 MC; increases basic sensitivity	10 cps to 100 MC	Accuracy ±1 cps ± stability; 0.1 v rms min. input	250.00
-hp- 525B Frequency Converter	Extends 524 range from 100 to 220 MC; high sensitivity	100 MC to 220 MC	Accuracy ±1 cps ± stability; 0.2 v rms min. input	250.00
-hp- 526A Video Amplifier	Increases 524 sensitivity to 10 millivolts	10 cps to 10.1 MC	Accuracy same as basic counter; 10 mv rms min. input	175.00
-hp- 526B Time Interval Unit	Measures interval 1 μsec to 100 days	1 μsec to 10^7 sec	Accurate 0.1 μsec ±0.0001%	175.00
-hp- 526C Period Multiplier	Period measurement	Extends range of 524 to measure 10,000 periods	Greater accuracy in period measurement	225.00

■ Rack mounted instrument available for $25.00 less.

-hp- 540A Transfer Oscillator



Measure frequency to 12 KMC quickly, easily, with electronic counter accuracy. Avoid guesswork, end "trial and error," eliminate expensive setups. Measure on pulsed, AM, FM, CW and noisy circuits.

Just two -hp- instruments—Model 540A Transfer Oscillator and a 524 series electronic counter, (with plug-ins) are all the equipment you need to measure unknown frequencies up to 12 KMC swiftly and accurately.

This simple, two instrument setup is particularly useful for quick CW and AM frequency measurement, FM center frequency and deviation checks, frequency of high-noise signals and pulsed signals. Overall accuracy is better than 10 times that of the best microwave wavemeters; and on clean CW signals, is about 1/1,000,000.

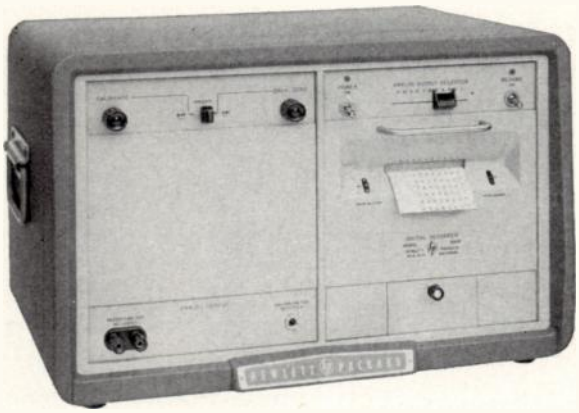
Simple operation

When approximate frequency is known, the 540A is tuned until a harmonic beats with the unknown. The multiplying factor is noted, and the 540A frequency measured on the 524. The 524 reading, times the multiplying factor, is the unknown.

Brief Specifications

Oscillator Freq. Range: 100 to 220 MC
Harmonic Freq. Range: Up to 12 KMC
Stability: Better than 0.002%/minute
Output: 2 volts into 50 ohms
Attenuator Range: 20 to 80 db into 50 ohms SWR 1.5 at 1 KMC
Amplifier Gain: 40 db max, 1 v output
Oscilloscope: 100 cps to 200 KC; vert. sens. 5 mv rms/inch
Price: $615.00

-hp- 560A Digital Recorder



Continuous digital record for frequency counters

Direct reading, simple hookup

Five 11-digit lines/second

Analog output for recorder

Expanded scale; full scale = 10^7

Accuracy identical to counter used

No intermediate equipment is needed between -*hp*- 560A and its Counter. In direct hookup, completely self-contained -*hp*- 560A provides a complete record of all types of test data, plus, through an analog output, a convenient graphic record of very small data variations.

The analog output is a voltage or current proportional to the number represented by any 3 consecutive digits of recorded data. The 560A permits expanded strip chart recording and the chart cannot be driven off scale since range variation for the 3-digit scale is 0 to 999. Wider variation merely causes a repetition of the 0 to 999 sequence.

Print capacity is five, 11-digit lines/second; secondary or coding data may be entered simultaneously with primary data.

Brief Specifications

Accuracy: Identical to counter used
Printing Rate: 5 lines/sec maximum
Digit Capacity: Up to 11 per line
Driving Source: Parallel entry staircase voltages, descending 135 to 55 v, 0 to 9
Analog Output: Proportional to any 3 consecutive digits; max. amplitude 1 ma or 100 mv
Print Command Signal: 10 μsec minimum, pos. or neg., 15 v/pulse
Price: (11-digit, cabinet model), $1,390.00
(11-digit, rack mount), $1,375.00

For details, circle #10 on Reader Service Card

Other -hp- Frequency Measuring and Monitoring Equipment

-hp- 500B/C Frequency Meters



Directly measures frequency of voltages 3 cps to 100 KC; expanded scale allows any 10% or 30% of range to be measured full scale. Sensitivity 0.2 v rms (sine waves) 1 v peak for pulses. Input impedance 1 megohm with 40 μμf shunt; accuracy independent of line voltage changes. Also available as -*hp*- 500C, calibrated for direct reading in rpm. -*hp*- 500B/C, $285.00.

-hp- 506A Optical Tachometer Pickup



Versatile, flexible light source and pickup for use as a transducer with -*hp*- 521A/C, 500B/C, etc. Measures 300 to 300,000 rpm (beyond with amplified output); normal output at least 1 v rms into 1 megohm or greater impedance. Light source 21 cp 6 v bulb; Type 1P41 phototube, phototube bias 70 to 90 v dc (supplied from -*hp*- 500B/C, 521 A/C). -*hp*- 506A, $125.00.

-hp- 508A–D Tachometer Generators



Rotating speed transducers used with electronic counters or frequency meters for simple, accurate measurements from 15 to 40,000 rpm (or beyond with amplifier) -*hp*- 508A provides 60 output pulses per shaft revolution; -*hp*- 508B, C, D provide 100, 120 and 360 pulses/rev respectively. Output voltage increases linearly with shaft speed to 5,000 pps. Running torque approx. 0.15 in. oz.; peak starting torque approx. 4 in. oz. -*hp*- 508A, B, C or D, $100.00.

Instrument	Primary Uses	Frequency Range	Characteristics	Price
-*hp*- 100D Secondary Standard	Frequency, time measurements	100 KC, 10 KC, 1 KC, 100 cps, 10 cps	Stability 1/1,000,000 (short-time). Sine or rectangular output. Marker pips	$ 615.00△
-*hp*- 335ER TV Monitor	Aural and visual carrier monitoring; black and white or color	Channels 2 to 83	Aural deviation ±3 KC; video deviation ±3 KC; accuracy ±500 cps approx.	2,050.00
-*hp*- 500B Electronic Frequency Meter	Rapid frequency measurements	3 cps to 100 KC	9 ranges ±2% accuracy. Input 0.2 to 250 volts	285.00
-*hp*- 500C Electronic Tachometer Indicator	Rpm measurements	180 to 6,000,000 rpm	Similar to 500B but calibrated in rpm	285.00
-*hp*- 506A Optical Tachometer Pickup	Rps and rpm measurement	300 to 300,000 rpm	Phototube and light source; output 1 v rms	125.00
-*hp*- 508A Tachometer Generator	Shaft speed measurement	15 to 40,000 rpm	Output 60 cycles per revolution	100.00
-*hp*- 508B Tachometer Generator	Shaft speed measurement	15 to 40,000 rpm	Output 100 cycles per revolution	100.00
-*hp*- 508C Tachometer Generator	Shaft speed measurement	15 to 40,000 rpm	Output 120 cycles per revolution	100.00
-*hp*- 508D Tachometer Generator	Shaft speed measurement	15 to 40,000 rpm	Output 360 cycles per revolution	100.00
-*hp*- 520A Nuclear Scaler	For counting high-rate pulses	Capacity 100 counts in 2 decades. 10,000,000 pps counting rate	100:1 divider for operation of low speed scalers	615.00△
-*hp*- 521A Industrial Electronic Counter	Measure frequency, speed	1 cps to 120 KC	Direct reading, accurate within ±1 count ±0.1%, 4 place registration	475.00
-*hp*- 521C Industrial Electronic Counter	Measure frequency, speed	1 cps to 120 KC	Direct reading, accuracy within ±1 count ±0.01%, 5 place registration	650.00
-*hp*- 522B Electronic Counter	Frequency, period, time interval measurements	10 cps to 120 KC	Direct reading, accuracy ±1 count ±0.001%	915.00△
-*hp*-523B Electronic Counter	Frequency, period, time interval	10 cps to 1.1 MC	Direct reading, accuracy ±1 count ±2/1,000,000	1,245.00

△Rack mounted instrument available for $15.00 less.

-hp- 521A/C Industrial Counters



Low cost, simple operation, almost limitless uses characterize -*hp*- 521A/C Industrial Counters. -*hp*- 521A measures speed, rpm, rps, frequency, random events per unit of time; with proper transducers also measures weight, pressure, temperature, acceleration, etc. -*hp*- 521A reads direct in cps, rpm and rps; display is variable 0.1 to 15 seconds or "hold"; 60 cps check circuit confirms accuracy of readings; three accessory power supplies include −150 v dc, + 300 v dc and 6.3 v ac. Frequency range 1 cps to 120 KC, accuracy ± 1 count ± accuracy of built-in 60 cps timing frequency (usually ± 0.1%); input min. 0.2 v rms; input attenuator adjusts sensitivity 0.2 to 100 v rms, input impedance 1 megohm with 50 μμf shunt, gate time 0.1 and 1 sec, also Manual Gate. -*hp*- 521C same as 521A except has greater accuracy, crystal controlled time base and 5-place (instead of 4-place) registration with count capacity of 99,999. -*hp*- 521C, $650.00. -*hp*- 521A, $475.00.

-hp- 522B Electronic Counter



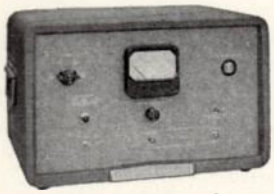
Compact, low cost, versatile instrument for frequency, period *or* time measurements. Measures frequency 10 cps to 120 KC, time interval 10 μsec to 10^5 sec. Reads direct in cps, KC, seconds or milliseconds. Count automatically reset, action repetitive. Stability of time base 5/1,000,000 per week. Easily used by untrained personnel. High quality, completely self-contained, bright, clear numerals; ideal industrial as well as lab instrument. $915.00△.

-hp- 523B Electronic Counter



Revolutionary all-purpose counter measures frequency 10 cps to 1.1 MC, time interval 3 μsec to 27.8 hours, period 0.00001 cps to 10 KC. Stability 2/1,000,000 per week. Results displayed in sec, msec, μsec or KC; automatic decimal. Display time variable 0.1 sec to 5 sec or indefinitely. Accuracy ± 1 count plus crystal stability, 5 gate times. Usable with 100 KC primary standard. High quality, completely self-contained, bright numerals, controls color-coded for simpler use by non-technical personnel. Pulse output for Z-axis oscilloscope modulation. $1,245.00.

Microwave Impedance Measuring Equipment



-hp- 416A Ratio Meter

Automatically combines forward and reverse signals and displays their ratio directly, irrespective of amplitude variations. Contains rf power monitor indicating proper power level. Rear terminal signal available to operate oscilloscope or recorder. Suitable for single and swept frequency operation. $450.00△.



-hp- 415B Standing Wave Indicator

For all waveguide and coaxial slotted sections. Gives readings in SWR or db. Single frequency operation; 315 to 2,000 cps. Low noise level, 0.1 μv (full scale) sensitivity, 60 db. calib. attenuator. $200.00.

-hp- 803A VHF Bridge



Provides direct impedance measurements in vhf range, 2 to 2,000 ohms, −90° to +90° phase angle. Wide frequency range 52 to 500 MC; makes measurements down to 5 MC and up to 1,000 MC. Fast, simple to use. $600.00.

-hp- 417A VHF Detector



Super-regenerative (AM) receiver covering all frequencies from 10 to 500 MC in 5 bands. Designed for use with -hp- 803A Bridge. 5 μv sensitivity full range. Single frequency control, reads direct in MC. $350.00.

Instrument	Primary Uses	Frequency Range	Characteristics	Price
-hp- 360A-D Low Pass Filters	Eliminates harmonic voltages from uhf systems	Cut-off frequencies A- 700 MC C-2,200 MC B-1,200 MC D-4,100 MC	50 db rejection at 1.25 cutoff freq.	$ 40.00
-hp- 415B Standing Wave Indicator	SWR indicator or null indicator	315 to 2,000 cps. Normal freq. 1,000 cps	0 to 70 db attn. Max. sensitivity 0.1 μv	200.00
-hp- 416A Ratio Meter	Reflection coefficient measurements	1,000 cps ±40 cps	Continuous swept frequency presentation; accuracy ±3%	450.00△
-hp- 417A vhf Detector	vhf bridge detector (for -hp- 803A)	10 to 500 MC	Approx. 5 μv sensitivity	350.00
-hp- 803A vhf Bridge	Measurement of vhf impedance, SWR	52 to 500 MC	2 to 2,000 ohms impedance −90° to +90° phase angle	600.00
-hp- 805A Coaxial Slotted Section	Measurement of SWR	500 to 4,000 MC	For Type N Connectors flexible cables	475.00
-hp- 805B Coaxial Slotted Section	Same as above	Same as above	For rigid 7/8" RG44/U line	475.00
-hp- 806B Coaxial Slotted Section	Same as above (mounts in 809B)	3,000 to 12,000 MC	For Type N Connectors flexible cables	200.00
-hp- 809B Universal Probe Carriage	G, J, H, X and P 810 Waveguide Sections Supports 806B section, also		Accepts 442B, 444A probes	160.00
-hp- 814B Universal Probe Carriage	Supports P, K and R 815B Waveguide Slotted Sections		Accepts Untuned Probe 446A	200.00

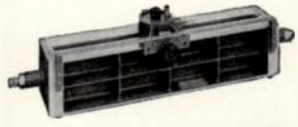
△ Rack mounted instruments $15.00 less.

-hp- 360 Low Pass Filters



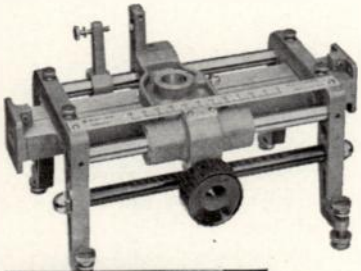
Isolating filters which speed microwave measurements by eliminating harmonics, permitting transmission at single, known frequency only. Particularly necessary in slotted line, filter characteristic, receiver response, similar measurements. Table above gives cut-off frequency; insertion loss not over 3 db; nominal impedance 50 ohms. -hp- 360A, B, C or D, $40.00.

-hp- 805A/B Slotted Lines

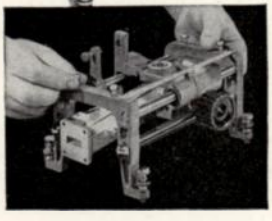


Exclusive -hp- "parallel-plane" design insures utmost mechanical rigidity, less leakage, greater accuracy, low SWR of 1.02 or 1.04 (depending on model). Range 500 MC to 4 KMC, reads in cm and mm to 0.1 mm. -hp- 805A, for 50 ohm Type N use, -hp- 805B, for 46.3 ohm RG 44/U stub supported 7/8" O.D. coax. -hp- 805A/B, $475.00.

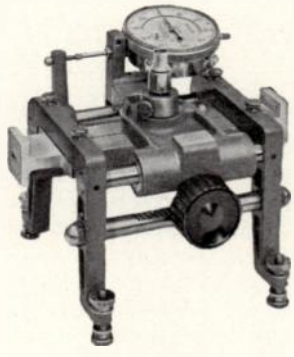
-hp- 809B/814B Universal Probe Carriages



-hp- 809B



Quick, easy waveguide interchange



-hp- 814B

Models 809B and 814B are precision built mechanical assemblies operating, respectively, with -hp- 810B and 815B series slotted sections.

Combination of the 809B carriage and 810B slotted sections covers 2.6 to 18.0 KMC. Combination of 814B carriage and 815B series sections covers 12.4 to 40.0 KMC.

On either carriage, waveguides can be interchanged in seconds for real savings on engineering time. Only one probe is required for each carriage to cover full frequency range. Manufacture is of highest quality to assure positive mechanical positioning of interchangeable waveguides and precise installation of mating -hp- probes (see page 12). -hp- 809B has a vernier scale reading to 0.1 mm and is equipped for dial gauge mounting. -hp- 814B has a cylindrical dial which may be read directly to 0.1 mm and interpolated at 0.01 mm.

-hp- 810B Slotted Sections. -hp- 810B, for mounting in 809B carriage, is a flanged, waveguide section with accurately machined slot. Slot is tapered at ends to minimize reflection. Available in 5 waveguide bands, 3.95 through 18.0 KMC.*

-hp- S810A. Complete slotted section assembly including probe carriage. In 2.6 to 3.95 KMC (S-band) size only.*

-hp- 815B Slotted Sections. For mounting in 814B carriage. Available P, K and R bands, 12.4 to 40.0 KMC. To insure positive positioning when mounting in carriage, these sections seat on two eccentric rods. Rods are factory-adjusted so longitudinal plane of guide is always parallel to probe travel.*

*For prices, see table page 14.

NEW! Microwave Power Measuring Equipment

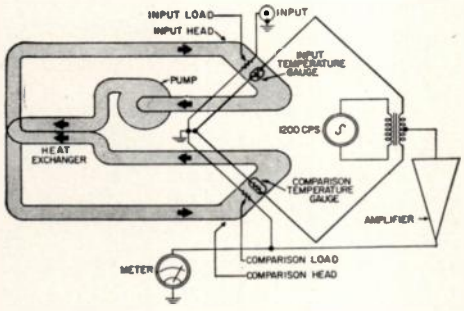


-hp- 434A Calorimetric Power Meter

Just connect and read powers 10 mw to 10 watts! Covers dc to 10 KMC. No barretter or thermistor needed. No external terminations or plumbing. Measures CW or pulsed power. Two simple controls; no technical skill required.

New *-hp-* 434A Calorimetric Power Meter is, factually, the fastest, easiest way yet devised to measure powers accurately from 10 milliwatts to 10 watts, dc to 10 kilomegacycles.

With the 434A, measurement is literally as simple as connecting to the 50 ohm, type N front panel terminal and reading power directly. Thus the instrument is particularly suited for use by non-technical people.



Circuitry, *-hp-* 434A

Compact, self-contained

-hp- 434A fills the range between bolometer microwave power meters (such as the popular *-hp-* 430C, below) and conventional calorimeters for powers above 10 watts. But unlike previous cumbersome equipment suggested for its range, the new *-hp-* 434A is compact, moderate in cost, completely self-contained, and needs no detectors or external plumbing whatsoever.

Brief Specifications

Input Power Range: 7 ranges; full scale readings 0.01 to 10 watts
Frequency Range: dc to 10 KMC
dc Input Impedance: 50 ohms ± 5 ohms at input jack
Input SWR: Less than 1.5 full range
Meter Response (full scale): Approx. 10 sec (high range)
Approx. 2 sec (lower ranges)
Controls: Zero Set, Meter Range
Accuracy: Within 5% of full scale
Price: $1,115.00 (cabinet); $1,100.00 (rack mount)

-hp- 430C Microwave Power Meter



No computations! Provides instantaneous, automatic power readings *direct* in dbm or mw at all frequencies for which there are suitable bolometer mounts. For CW measurements, uses either 1/100 amp. fuse or Sperry 821 barretter. Also measures CW or pulsed power with negative coefficient thermistor. Provides up to 16 ma bias current. Operates with all mounts in adjacent table. Range 0.02 to 10 mw. $250.00.

-hp- 477B Coaxial Thermistor Mount



For frequency range 10 MC to 10 KMC. SWR less than 1.5. Thermistor element is 200 ohm negative. No tuning required; not susceptible to burnout. $75.00 (including thermistor).

-hp- 764D-767D Dual Directional Couplers



New high directivity dual coaxial couplers make reflectometer measurements practical in vhf and uhf coax systems. Flat response, high power capacity, low insertion loss. Four models, covering 216 to 4,000 MC collectively. $125.00.

Instrument	Primary Uses	Frequency Range	Characteristics	Price
-hp- 430C Microwave Power Meter	Measurement of rf power	Depends on Bolometer Mount	0.02 to 10 mw ±5% accuracy	$250.00
-hp- 434A Calorimetric Power Meter	Measurement of rf power	dc to 10 KMC	Direct reading, no barretters, thermistors or terminations; CW, pulsed	1115.00
-hp- 475B Tunable Bolometer Mount	Measurement of rf power (with 430B/C)	1,000 to 4,000 MC	Matches 50 ohm line to 100 or 200 ohms	225.00
-hp- 476A Universal Bolometer Mount	Measurement of rf power (with 430B/C)	10 to 1,000 MC	No tuning required SWR less than 1.25	85.00
-hp- 477B Coaxial Thermistor Mount	Measurement of rf power (with 430C)	10 MC to 10 KMC	No tuning required SWR less than 1.5	75.00
-hp- 485 Waveguide Detector Mount	Measurement of rf power	2,600 to 18,000 MC	Full coverage of waveguide band	See Table page 12
-hp- 487B Waveguide Thermistor Mount	Measurement of rf power	3,950 to 26,500 MC	Full coverage, no tuning, 1.5 SWR except K487B 2.0	See Table page 12
-hp- 764D Dual Directional Coupler	Reflectometer and rf power measurements	216 to 450 MC	Coupling attenuation* 20 db, directivity 30 db	125.00
-hp- 765D Dual Directional Coupler	Reflectometer and rf power measurements	450 to 945 MC	Coupling attenuation* 20 db, directivity 30 db	125.00
-hp- 766D Dual Directional Coupler	Reflectometer and rf power measurements	940 to 1,975 MC	Coupling attenuation* 20 db, directivity 26 db	125.00
-hp- 767D Dual Directional Coupler	Reflectometer and rf power measurements	1,900 to 4,000 MC	Coupling attenuation* 20 db, directivity 26 db	125.00

*Power handling capacity all 764/767 series couplers 50 watts CW, 10 Kw peak.

-hp- Waveguide Test Equipment—2.6 to 40.0 KMC

Basic, low-cost elements offer utmost flexibility for assembly of exact instrumentation required. Each unit covers entire range of its waveguide size. Careful engineering, simple, sturdy mechanical design, highest quality manufacture insures accurate, multi-purpose operation.

Instrument	Coaxial Type N Conn.	"S" 3" x 1½" 2.6 - 3.95 KMC	"G" 2" x 1" 3.95 - 5.85 KMC	"J" 1½" x ¾" 5.2 - 8.2 KMC	"H" 1¼" x ⅝" 7.05 - 10.0 KMC	"X" 1" x ½" 8.2 - 12.4 KMC	"P" .702"x.391" 12.4 - 18.0 KMC	"K" .500"x.250" 18.0 - 26.5 KMC	"R" .360"x.220" 26.5 - 40.0 KMC
Adapter, Waveguide to Coax		S281A $50	G281A $40	J281A $35	H281A $30	X281A $25			
Cover to Choke Flange		S290A $65	G290A $50	J290A $35	H290A $25	X290A $15	P290A $20		
Attenuators, Fixed 3, 6, 10, 20 db		S370A $75	G370A $65	J370A $65	H370A $60	X370A $55	P370A $60		
Flap, 25 db max.		S375A $120	G375A $110	J375A $100	H375A $90	X375A $90	P375A $100	K375A $140	R375A $180
Calibrated, precision		S380A $260	G382A $500	J382A $350	H382A $350	X382A $250	P382A $275	K382A $425	R382A $450
Detector Mounts	420A $50				H421A $95	X421A $75	P421A $95		
	420B $75								
	440A† $85								
		S485D° $145	G485D $140	J485D° $135					
		S485A‡ $125	G485B† $95	J485B† $90	H485B† $85	X485B† $75	P485C■ $110		
Isolators						X365A $225			
Thermistor Mounts (Fixed tuned)■	477B $75		G487B $95	J487B $90	H487B $80	X487B $75		K487B $85	
Frequency Meters, Reaction				J530A/B**	H530A $120	X530A $120	P530A $150		
Waveguide						X532A $150	P532A $210	K532A $230	R532A $250
Directional Coupler, Cross Guide: 20, 30 db		S750 $130	G750 $120	J750 $70	H750 $60	X750 $50			
Directional Couplers, Multi Hole: 3, 10, 20 db		S752 $375	G752 $250	J752 $140	H752 $120	X752 $75	P752 $115	K752 $175	R752 $200
Slotted Sections, Waveguide		S810A* $450	G810B§ $110	J810B§ $110	H810B§ $110	X810B§ $90	P810B§ $110		
Slotted Sections, Waveguide							P815B $265	K815B $265	R815B $265
Tuners, Slide Screw		S870A $225	G870A $185	J870A $150	H870A $130	X870A $125	P870A $130	K870A $140	R870A $140
E-H						X880A $130	P880A $135	K880A $155	R880A $170
Waveguide Phase Shifter				J885A $400		X885A $300	P885A $350		
Terminations, Low Power		S910A $45	G910A $35	J910A $30	H910A $25	X910A $25	P910A $25	K910A $30	R910A $35
Terminations, High Power		S912A $160				X912A $50			
Moving Load		S914A $100	G914A $75	J914A $70	H914A $60	X914A $50	P914A $55	K914A $65	R914A $75
Standard Reflections						X916A $100			
Adjustable Shorts		S920A $100	G920A $70	J920A $60	H920A $50	X920A $40	P920A $55	K920A $140	R920A $150
Waveguide Shorting Switch						X930 $80			
Broad Band Probe	442B§ $35	All frequencies							
Broad Band Probe, Untuned		444A $35 2.4 to 18.0 KMC					446A $145 12.4 to 40 KMC		
Waveguide Clamps, Stands									

†For use with barretter or crystal.
■ Includes Thermistor, installed.
‡For use with barretter only.
**J530A, 5.85 to 8.2 KMC, $120; J530B, 5.20 to 7.05 KMC, $150.
*Complete assembly including carriage.
° Includes barretter; checked for square law characteristics.
§Mounts in 809B Carriage.

NEW! -hp- 382A Precision Attenuators



Previously offered for frequencies 3.95 through 18.0 KMC, popular *-hp-* 382A series precision attenuators are now available in "K" and "R" bands, 18.0 to 40.0 KMC. "K," "R" band attenuators are of new, space-saving design (see photo). Direct reading, one-control tuning, high power handling capacity. Attenuation 0 to 50 db full range, independent of frequency. Phase shift constant with attenuation. For prices G, J, H, X and P382A, see table above. *-hp-* K382A, $425.00. *-hp-* R382A, $450.00

-hp- 281A Waveguide - Coax Adapters

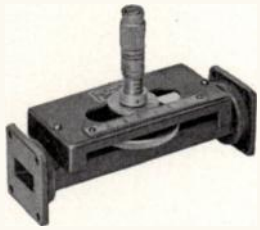


For convenient transition between waveguide and coax systems. Each unit covers a full waveguide range with SWR less than 1.25. Type N coax plug, AN waveguide flange. For S, G, J, H and X bands, 2.6 to 12.4 KMC. $25.00 to $50.00.

-hp-487B Thermistor Mounts



For fast, accurate waveguide power measurements. Each unit covers full range of its waveguide frequency. No tuning needed, SWR 1.5 max., except K487B, SWR 2.0 max. Max. power 10 mw. Rugged construction, high temperature coefficient thermistors virtually eliminate burnout. For G, J, H, X and K bands, 3.95 to 26.5 KMC. $75.00 to $95.00.



-hp- 870A Slide Screw Tuners

For flattening waveguide systems, matching, etc. Probe position and penetration adjusts to set up SWR cancelling existing SWR. Precision lead screw or micrometer varies probe insertion; vernier adjusts probe position. Corrects SWRs of 20 with accuracy of 1.02 SWR. For S, G, J, H, X, P, K, R bands, 2.6 to 40.0 KMC. $125.00 to $225.00.



-hp- 420A/B Crystal Detectors

Employs a silicon crystal to detect rf signals in Type N coaxial lines. Covers frequencies 10 MC to 12.5 KMC, sensitivity approx. 0.01 v/0.1 mw, frequency response ±3 db full range. Uses modified 1N26 crystal, max. SWR 3. $50.00 each. Also available in matched pairs as *-hp-* 420B, $150.00 pair.

-hp- 444A/446A Untuned Probes



-hp- 444A is modified crystal (1N76 or 1N26) plus small antenna in convenient housing. Probe penetration easily variable; may be locked in position. No tuning needed; sensitivity superior to most elaborate single or double tuned probes. Range 2.4 to 18 KMC; fits ¾" bore. *New -hp- 446A,* for *-hp-* 814 Probe Carriage, similar but covers P, K and R bands, 12.4 to 40.0 KMC. *-hp-* 444A, $35.00. *-hp-* 446A, $145.00.

For details, circle #14 on Reader Service Card

NEW! -hp- Noise Measuring Equipment



-hp- 340A Noise Figure Meter

Here is totally new equipment that makes it possible for a semi-skilled worker to do, in 5 minutes, receiver and component alignment jobs that once took skilled engineers a full hour. Receiver performance can often be *improved up to 3 db over the best adjustment previously possible. Improvement in receiver performance frequently equals doubling transmitter output.* Since accurate alignment is now easy, equipment is better maintained and peak performance enjoyed daily.

Model 340A is a revolutionary instrument making it possible, in 5 minutes, to optimize receiver performance and measure noise figure directly. *-hp-* 340A is direct reading in db, simple to use, automatic and needs no periodic calibration, operates over any frequency range for which there are noise sources, and has fast response to instantly track and present noise changes. In addition to usefulness in optimizing receiver and component performance, *-hp-* 340A is particularly helpful in designing circuit components such as IF amplifiers, crystal mixing circuits and traveling-wave tubes.

Brief Specifications

Frequency Range: Depends on noise source
Noise Figure Range: 3 to 30 db to ∞ with waveguide noise source
0 to 15 db to ∞ with IF noise source
Accuracy: ± 0.5 db, 10 to 25 db; ± 1 db, 3 to 30 db, waveguide noise source
± 0.5 db, 0 to 15 db, IF noise source
Required Rcvr or rf Amplifier Gain: Approx. 40 db (Waveguide Voice Source)
Approx. 50 db (IF Noise Source)
Input Frequency: 30 or 60 MC, selected by switch
Bandwidth: 1 MC minimum
Input Impedance: 50 ohms
Price: $715.00 (cabinet); $700.00 (rack mount)

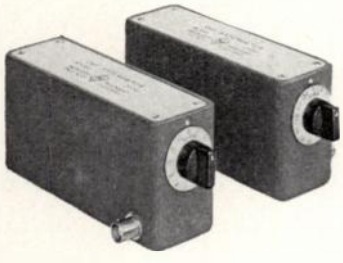
-hp- 347A Waveguide Noise Source

These new devices, Argon gas discharge tubes across a waveguide section provide uniform 15.2 (15.25 in S band) db excess noise level full range with maximum SWR of 1.2 even when noise source is cold. No temperature correction required. Available for S through P band, 2.60 to 18.0 KMC, (S, G bands), $190.00; (J, H, X and P bands), $180.00.

-hp- 345A IF Noise Source

Temperature-limited diode noise sources for IF amplifier noise measurement. Matches 50, 100, 200 or 400 ohms impedance. Center frequency either 30 or 60 MC. Noise level depends on cathode current, controlled and metered by *-hp-* 340A. *-hp-* 345A, $75.00.

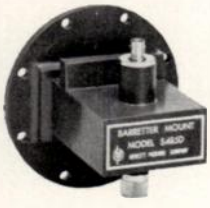
NEW! -hp- 355A/B Attenuators – 0 to 132 db



Here are two completely new design 50 ohm attenuators providing, together, 0 to 132 db attenuation in 1 db steps from dc to 500 MC! *-hp-* 355A provides 0 to 12 db attenuation in 1 db steps; *-hp-* 355B provides 0 to 120 db attenuation in 10 db steps. One simple control for each attenuator; overall full range accuracy is ± 0.25 db for *-hp-* 355A. For *-hp-* 355B, accuracy is ± 1 db to 250 MC; ± 2 db to 500 MC. Nominal impedance is 50 ohms, maximum SWR is 1.2 to 250 MC, 1.5 to 500 MC. Maximum insertion loss is 0 at dc, 0.4 db at 60 MC, 1 db at 250 MC and 1.5 db at 500 MC. Power dissipation is 0.5 watt average, 350 volts peak. The attenuators use BNC connectors. *-hp-* 355A or 355B, $125.00.

More -hp- equipment, available for most waveguide frequencies

-hp- 485 Detector Mounts



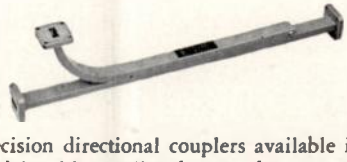
Three basic series offered; *S485A* for S band (no tuning, 1.35 SWR, 821 element); *485B*, for G, J, H, X bands (tunable, 1.25 SWR full range, 1N23, 1N21 or 821 element); *485D* for S, G, J bands (factory-installed 821 barretter). Also P485C, like 485B but for P band only, has installed 200 ohm 3 mw thermistor. $75.00 to $145.00.

-hp- 532A Waveguide Frequency Meters



New design for P, K, R bands. Wide band, direct reading, no interpolation or charts. Comprises a high Q resonant cavity tuned by choke plunger; no sliding contacts. Transmits almost full power at resonance; resonance indicated by 1.5 db dip in output. Precision tuning mechanism; no back-lash. Also similar model for X-band. $150 to $250.

-hp- 752 Multi-Hole Couplers



Precision directional couplers available in 3 models with coupling factors of 3, 10 and 20 db. Coupling accuracy ± 0.4 db except K, R bands which are ± 0.7 db. Directivity better than 40 db full range, coupling variation not over ± 0.5 db full range. Primary guide SWR less than 1.05. S, G, J, H, X, P, K, R bands, 2.6 to 40.0 KMC. $75.00 to $375.00.

Wide Band Amplifiers for Fast Circuit Work

-hp- Traveling-Wave Tube Amplifiers



-hp- offers Traveling-Wave Tube Amplifiers for all frequencies 2 to 12.4 KMC. *-hp-* 490B, 492A and 494A are low level, high gain amplifiers with 30 and 25 db gain; they offer amplitude, pulse, phase or FM modulation. *-hp-* 491A is a high power traveling-wave tube amplifier having a rated output of 1 watt, 2 to 4 KMC. All amplifiers have exclusive *-hp-* helical coupling system, and employ encapsulated traveling-wave tubes that can be readily replaced. *-hp-* 490B/491A, $1,400.00. *-hp-* 492A/494A, $1,500.00.

-hp- 460A/B Fast Pulse Amplifiers



-hp- 460A Wide Band Amplifiers, in cascade with *-hp-* 460B Fast Pulse Amplifiers, provide up to 90 db gain, 125 v open circuit. This permits direct connection to oscilloscope deflection plates. Rise time 0.0026 μsec. Will amplify millimicrosecond pulses. Over 100 MC band width for 'scopes. *-hp-* 460AR, $185.00. *-hp-* 460BR, $225.00.

Instrument	Primary Uses	Frequency Range	Characteristics	Price
-hp- 450A Amplifier, Stabilized	General purpose lab amplifier	10 cps to 1,000,000 cps	20 and 40 db gain, frequency response ±½ db	$ 140.00
-hp- 460AR Amplifier, Wide Band	Wide band, pulse amplification	100 KC to 140 MC	20 db gain, rise time 0.0026 μsec	185.00
-hp- 460BR Amplifier, Fast Pulse	Pulse amplification high output	100 KC to 140 MC	15 db gain, 125 peak volts	225.00
-hp- 490B Traveling-Wave Tube Amplifier	Amplification throughout "S" band	2 to 4 KMC	30 db gain; Millimicrosec rise time; 10 mw output	1,400.00
-hp- 491A Traveling-Wave Tube Amplifier	High power "S" band amplification	2 to 4 KMC	30 db gain; millimicrosec rise time; 1 watt output	1,400.00
-hp- 492A Traveling-Wave Tube Amplifier	Amplification through most of "G" and "J" bands	4 to 8 KMC	30 db gain; millimicrosec rise time; 10 mw output	1,500.00
-hp- 494A Traveling-Wave Tube Amplifier	Amplification throughout "X" band	7 to 12.4 KMC	25 db gain; millimicrosec rise time; 5 mw output	1,500.00

-hp- Regulated and Klystron Power Supplies

NEW! -hp- 721A Transistor Power Supply



New, completely transistorized, compact, regulated supply. Output 0 to 30 v, continuously variable. 150 ma maximum output, output impedance less than 0.2 ohms. Regulation, no load to full load, 0.3% or 30 mv whichever is greater. Line voltage change of ± 10% causes output change of less than 0.3% of ± 15 mv, whichever is greater. Front panel switch limits maximum output current preventing damage to transistors, etc., from accidental overload. Reads ma, v direct. $145.00.

-hp- 712B Power Supply



This *-hp-* instrument features high regulation of 50 mv no load to full load, 0.1 millisecond transient response, internal impedance 0.1 ohms in series with 25 μH; full-load maximum hum less than 500 μv, sealed transformers, chokes and condensers. 0 to 500 v, 200 ma supply and fixed —300 v tap providing a 50 ma, 300 to 800 v variable supply for klystron operation. $365.00△.

Instrument	Primary Use	Characteristics	Price
-hp- 710B Power Supply	General purpose regulated dc supply for lab and field use	100 to 360 volts @ 75 ma	$110.00
-hp- 711A Laboratory Power Supply	Same as 710B	0 to 500 volts @ 100 ma	225.00
-hp- 712B Power Supply	Same as 710B	0 to 500 volts @ 200 ma	365.00△
-hp- 715A Klystron Power Supply	Regulated beam, reflector source for low power klystrons	250 to 400 volts @ 50 ma	300.00
-hp- 717A Klystron Power Supply	Powering Type 5721 klystrons	800 to 1,000 volts @ 25 ma	425.00
-hp- 721A Transistor Power Supply	Powering transistors, similar applications	0 to 30 v, 150 ma	145.00

△Rack mounted instrument available for $15.00 less.

-hp- Signal Generators — 50 KC to 21 KMC

NEW! -hp- 606A Standard Signal Generator



New, ultra-modern; 50 KC to 65 MC. Output 3 v full range, continuous attenuation to 0.1 μv. MO-PA circuit with full feedback loop insures constant output full range. Low distortion, broad modulating capabilities. Typical *-hp-* speed, ease of operation; occupies ¼ bench space normally needed for generators of this frequency. $990.00△.

-hp- 608D vhf Signal Generator



10 to 420 MC. Highest stability. No incidental FM or frequency drift. Calibrated output 0.1 μv to 0.5 v throughout range. Built-in crystal calibrator provides frequency check accurate within 0.01% each 1 and 5 MC. Master-oscillator, intermediate and output amplifier circuit design. Premium quality performance, direct calibration, ideal for aircraft communications equipment testing. $1,050.00.

-hp- 608C vhf Signal Generator. High power (1 v max.) stable, accurate generator for lab or field use. 10 to 480 MC. Ideal for testing receivers, amplifiers, driving bridges, slotted lines, antennas, etc. $950.00.

-hp- 626A/628A shf Signal Generators



New instruments, bringing high power, wide range, convenience and accuracy to 10 to 21 KMC range. Frequencies, output voltage directly set and read. Output 10 to 20 db better than previous spot-frequency sets SWR better than 1.2 at 0 dbm and lower. Internal pulse, FM or square wave modulation; also external pulsing or FM'ing. *-hp-* 626A, 10 to 15.5 KMC, $3,250.00. *-hp-* 628A, 15 to 21 KMC, $3,250.00.

Instrument	Frequency Range	Characteristics	Price
-hp- 606A	50 KC to 65 MC	Output 0.1 μv to 3 v. Full feedback loop, low distortion	$ 990.00△
-hp- 608C	10 to 480 MC	Output 0.1 μv to 1 v into 50 ohm load. AM, pulse, or CW modulation. Direct calibration	950.00
-hp- 608D	10 to 420 MC	Output 0.1 μv to 0.5 v. Incidental FM 0.001% entire range	1,050.00
-hp- 612A	450 to 1,230 MC	Output 0.1 μv to 0.5 v into 50 ohm load. AM, pulse, CW or square wave modulation. Direct calibration	1,200.00
-hp- 614A	800 to 2,100 MC	Output 0.1 μv to 0.223 v into 50 ohm load. Pulse, CW or FM modulation. Direct calibration	1,950.00
-hp- 616A	1,800 to 4,000 MC	Output 0.1 μv to 0.223 v into 50 ohm load. Pulse, CW or FM modulation. Direct calibration	1,950.00
-hp- 618B	3,800 to 7,600 MC	Output 0.1 μv to 0.223 v into 50 ohm load. Pulse, CW, FM or square wave modulation. Direct calibration	2,250.00
-hp- 620A	7,000 to 11,000 MC	Output 0.1 μv to 0.223 v into 50 ohm load. Pulse, FM or square wave modulation. Direct calibration	2,250.00
-hp- 623B	5,925 to 7,725 MC	Output 70 μv to 0.223 v into 50 ohm load. FM or square wave modulation. Separate power meter and wave meter section	1,900.00
-hp- 624C	8,500 to 10,000 MC	Output 3.0 μv to 0.223 v into 50 ohm load. Pulse, FM or square wave modulation. Separate power meter and wave meter section	2,265.00△
-hp- 626A	10 to 15.5 KMC	Output 10 dbm to —90 dbm. Pulse, FM, or square wave modulation. Direct calibration	3,250.00
-hp- 628A	15 to 21 KMC	Output 10 dbm to —90 dbm. Pulse, FM, or square wave modulation. Direct calibration.	3,250.00

△ Rack mounted instrument available for $15.00 less.

-hp- 614A/616A UHF Signal Generators



Among most widely used signal generators. *-hp-* 614A, 800 MC to 2.1 KMC, *-hp-* 616A, 1.8 to 4.0 KMC. Direct reading, direct frequency set, no calibration charts, wide range. *-hp-* 614A SWR 1.6, output accuracy ± 1 db —10 dbm to —127 dbm. *-hp-* 616A, SWR 1.8, output accuracy ± 1.5 db, —7 dbm to —127 dbm. Both have constant internal impedance 50 ohms. Modulation is internal or external pulse, or FM. *-hp-* 614A or *-hp-* 616A, $1,950.00.

-hp- Swept Frequency Oscillators

-hp- 686A Electronic Sweep Oscillator



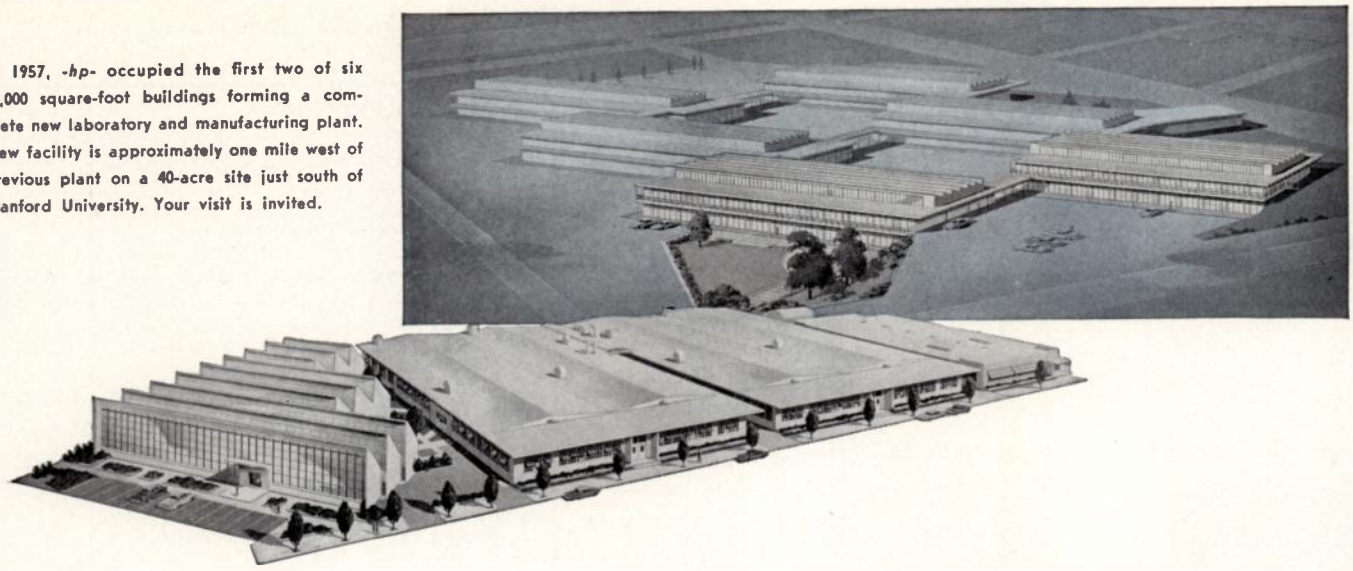
Totally new kind of backward-wave device eliminating sweep motors, tuning plungers, range limitations, etc. Covers all or part of X-band with flexible, *quiet* electronic sweep. Simple to operate, direct reading, continuously adjustable sweep width and rate, 10 mw output minimum, frequency sweep linear with time. Has slow sweep for recorders; fast for oscilloscope; single sweep manually started or externally triggered, external FM, AM modulation. Ultimate in X-band sweep oscillators, $2,615.00△.

Data subject to change without notice.
Prices f. o. b. factory.

Instrument	Frequency Range	Characteristics	Price
-hp- 670SM	2.6 to 4 KMC	Automatic adjustable motor-driven sweep, full frequency band coverage, output 10 mw full range, full modulation capabilities, direct-reading frequency dial.	$1,175.00 with motor
-hp- 670GM	4 to 6 KMC		1,175.00 with motor
-hp- 670JM	5.85 to 8.2 KMC		1,175.00 with motor
-hp- 670HM	7 to 10 KMC		1,175.00 with motor
-hp- 684A	3.7 to 5.9 KMC	Electronically swept; variable sweep rate, width. Output 10 mw, SWR 2.1 or less. Pulse, square wave, FM, AM modulation	2,265.00△
-hp- 685A	5.2 to 8.3 KMC		2,265.00△
-hp- 686A	8.2 to 12.4 KMC		2,615.00△
-hp- 687A	12.4 to 18.0 KMC		3,115.00△

△Rack mounted instrument available for $15.00 less.

In 1957, *-hp-* occupied the first two of six 85,000 square-foot buildings forming a complete new laboratory and manufacturing plant. New facility is approximately one mile west of previous plant on a 40-acre site just south of Stanford University. Your visit is invited.



COMPLETE COVERAGE

Won't you agree it is simple and more time-saving when you can turn to one source for your test equipment needs? *-hp-* engineers are continually working to produce new equipment that anticipates your future needs, yet functions smoothly with your existing *-hp-* instruments. At the 1958 I.R.E. Show 20 new, basic *-hp-* test instruments were introduced. Today, *-hp-* makes over 300 instruments; you can choose from the world's largest and most complete line just the equipment you need. In making this choice, you are assured of *-hp-* quality; today the standard of the world in electronic test instruments.

To give you personal help with measuring problems, you have available over 150 electronics specialists in every major U. S. metropolitan area, and around the world. These men, trained and annually re-trained by *-hp-*, are experts in applying as well as selling and servicing *-hp-* instruments. Call them when you can use personal, competent help, in your plant, today.

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MUtual 3-5848

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HAzelwood 7-7560

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New LAMBDA L-T TRANSISTORIZED POWER SUPPLIES



CONVECTION COOLED

No internal blowers • No moving parts

0-32 VDC 0-2 AMP

Model LT 2095	$365
Model LT 2095M (metered)	$395



GUARANTEED FOR FIVE YEARS

First in Lambda's new LT series of transistorized power supplies, Models LT 2095 and LT 2095M (metered) are conservatively designed to operate at maximum rating at 50°C ambient temperature without the use of internal blowers.

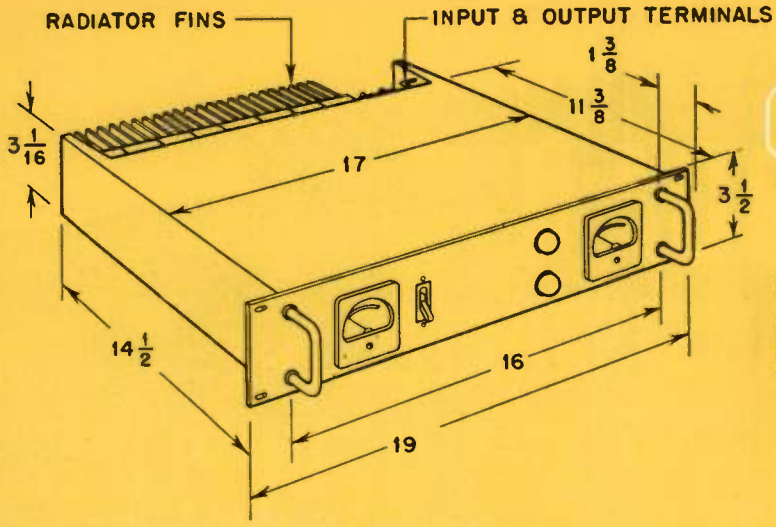
Models LT 2095 and LT 2095M have a combination of special features found in no other transistorized power supply. They are backed by Lambda's exclusive five-year guarantee—the only such guarantee provided by any manufacturer of power supplies.

SPECIAL FEATURES

Convection cooling. No internal blowers.
Ambient 50°C.
Specially designed, high efficiency radiator heat sinks.
All transistor. No tubes.
Silicon rectifier.
50-400 cycles input.
Protected by magnetic circuit breakers.
Short-circuit-proof.
Special, high-purity foil, long-life electrolytics.
Excess ambient thermal protection.
Fast transient response.
Hermetically-sealed transformer. Designed to MIL-T27A.
Remote sensing and DC vernier.
Excellent regulation. Low output impedance. Low ripple.
Compact. Only 3½" panel height.

LAMBDA Electronics Corp.

For details, circle #19 on Reader Service Card



OUTLINE DIMENSIONS



Preliminary and tentative SPECIFICATIONS

LAMBDA LT 2095 and LT 2095M TRANSISTORIZED POWER SUPPLIES

DC OUTPUT (regulated for line and load):

Voltage and Current

Model	Voltage Range[1]	Current Range[2]
LT-2095	0-32 VDC	0-2 A
LT-2095M	0-32 VDC	0-2 A

[1] *Voltage range for each model is completely covered in four continuously variable bands as follows:*

Model	Voltage Bands
LT-2095	0-8, 8-16, 16-24, 24-32
LT-2095M	0-8, 8-16, 16-24, 24-32

[2] *Current rating applies over entire voltage range.*

Regulation (line) ... Better than 0.15 per cent or 20 millivolts (whichever is greater). For input variations from 105-125 VAC.

Regulation (load) ... Better than 0.15 per cent or 20 millivolts (whichever is greater). For load variations from 0 to full load.

Transient Response (line) ... Output voltage is constant within regulation specifications for step-function line voltage change of plus (+) 10 volts or minus (−) 10 volts within the limits of 105-125 VAC.

Transient Response (load) ... Output voltage is constant within regulation specifications for step-function load change from 0 to full load or full load to 0 within 50 microseconds after application.

Internal Impedance ... Less than .025 ohms.

Ripple and Noise ... Less than 1 millivolt rms.

Polarity ... Either positive or negative may be grounded.

AMBIENT TEMPERATURE AND DUTY CYCLE ... Continuous duty at full load up to 50° C (122° F) ambient.

AC INPUT ... 105-125 VAC, 50-400 CPS. 200 watts[3].

[3] *With output loaded to full rating and input at 125 VAC.*

OVERLOAD PROTECTION:

Electrical ... Magnetic circuit breaker, front panel mounted. Unit cannot be injured by short circuit or overload.

Thermal ... Thermostat, manual reset, rear of chassis. Thermal overload indicator light front panel.

INPUT AND OUTPUT CONNECTIONS ... Heavy duty barrier terminal block, rear of chassis.

METERS ... Voltmeter and milliammeter on metered models.

CONTROLS:

DC Output Controls ... Band-switches and screw-driver adjusting vernier-control, rear of chassis.

Power ... Magnetic circuit breaker, front panel.

Remote DC Vernier ... Provision for remote operation of DC vernier.

Remote Sensing ... Provision is made for remote sensing to minimize effect of power output leads on DC regulation.

VOLTAGE REFERENCE ... Zener Diode.

PHYSICAL DATA:

Mounting ... Standard 19" rack mounting.

Size ... 3½" H x 19" W x 14⅜" D.

Weight ... 30 lb. Net 40 lb. Shipping Wt.

Panel Finish ... Black ripple enamel (standard). Special finishes available to customers' specifications at moderate surcharge.

ALL LAMBDA EQUIPMENT GUARANTEED FOR FIVE YEARS.

LAMBDA Electronics Corp.

For details, circle #20 on Reader Service Card

For all power supply needs through 1.5 amperes

LAMBDA Space-Saving COM-PAK® POWER SUPPLIES

THREE VOLTAGE RANGES: 0-200, 125-325, 325-525 VDC



MODEL C-1580M (with meters): 0-200 VDC, 0-1500 MA.....580.00
MODEL C-1581M (with meters): 125-325 VDC, 0-1500 MA.....605.00
MODEL C-1582M (with meters): 325-525 VDC, 0-1500 MA.....680.00

MODEL C-1580: ..... 0-200 VDC, 0-1500 MA.....550.00
MODEL C-1581: ..... 125-325 VDC, 0-1500 MA.....575.00
MODEL C-1582: ..... 325-525 VDC, 0-1500 MA.....650.00



MODEL C-880M (with meters): 0-200 VDC, 0-800 MA.....370.00
MODEL C-881M (with meters): 125-325 VDC, 0-800 MA.....345.00
MODEL C-882M (with meters): 325-525 VDC, 0-800 MA.....390.00

MODEL C-880: ..... 0-200 VDC, 0-800 MA.....340.00
MODEL C-881: ..... 125-325 VDC, 0-800 MA.....315.00
MODEL C-882: ..... 325-525 VDC, 0-800 MA.....360.00



MODEL C-480M (with meters): 0-200 VDC, 0-400 MA.....289.50
MODEL C-481M (with meters): 125-325 VDC, 0-400 MA.....274.50
MODEL C-482M (with meters): 325-525 VDC, 0-400 MA.....289.50

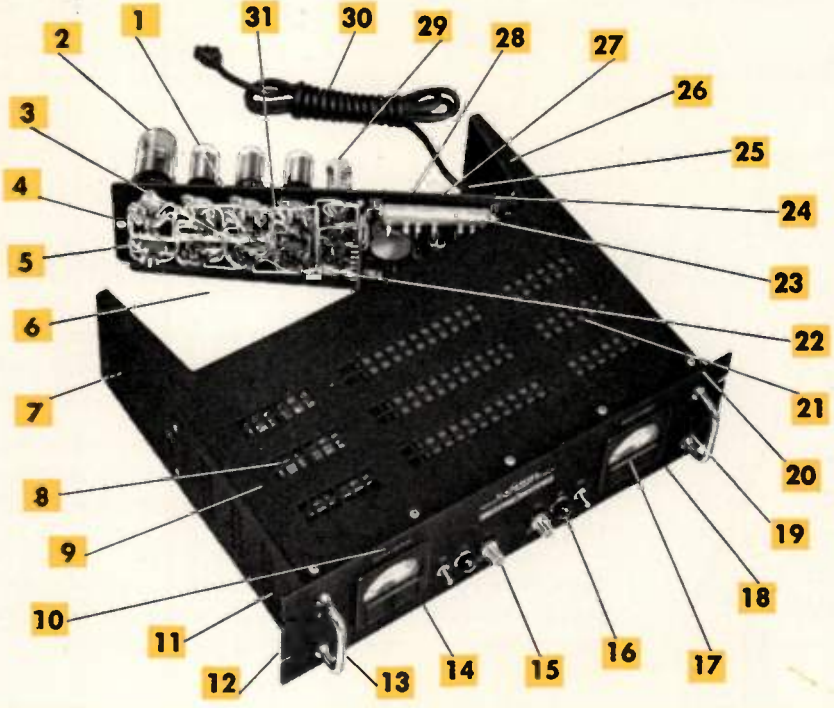
MODEL C-480: ..... 0-200 VDC, 0-400 MA.....259.50
MODEL C-481: ..... 125-325 VDC, 0-400 MA.....244.50
MODEL C-482: ..... 325-525 VDC, 0-400 MA.....259.50



MODEL C-280M (with meters): 0-200 VDC, 0-200 MA.....214.50
MODEL C-281M (with meters): 125-325 VDC, 0-200 MA.....189.50
MODEL C-282M (with meters): 325-525 VDC, 0-200 MA.....199.50

MODEL C-280: ..... 0-200 VDC, 0-200 MA.....184.50
MODEL C-281: ..... 125-325 VDC, 0-200 MA.....159.50
MODEL C-282: ..... 325-525 VDC, 0-200 MA.....169.50

31 IMPORTANT DESIGN AND PERFORMANCE FEATURES



1. All tubes and controls clearly identified and marked on chassis
2. All tubes readily accessible for replacement
3. Sturdy cable clamp anchors
4. Quarter-turn fasteners for easy access
5. Every connection and solder joint individually inspected and checked
6. Service access without removal from rack
7. Schematic diagram permanently attached for ready reference.
8. Oil-filled hermetically sealed capacitors
9. Rated for operation from 50-400 cycle source
10. Compact—only 5¼" panel height in C-200 and C-400 series; 7" in C-800 series; 8¾" in C-1500 series
11. Semi-conductor Rectifiers in C-400, C-800, and C-1500 series
12. Rated for 24-hour continuous duty
13. Sturdy gripping handles
14. Advanced packaging for optimum thermal and mechanical design
15. Overload protection with built-in blown-fuse indicators
16. Rated for full load over entire voltage range
17. Easy-to-read 3½" meters on M models
18. Every specification lab-checked before shipment
19. Transient-free output
20. Excellent regulation, low output impedance, low ripple
21. Hermetically sealed transformers and choke
22. Harness wiring
23. Stable, low-noise wire-wound reference networks and multipliers
24. Heavy-duty barrier-type terminal block located for convenient rack cabling
25. Heavy-duty filament output
26. Unit welded chassis and frame
27. Provision for remote power control
28. Provision for remote DC vernier voltage adjustment
29. Stable 5651 voltage reference tube
30. Heavy-duty extra-length industrial cord
31. Nylon jacketed vinyl wire

ALL LAMBDA EQUIPMENT GUARANTEED FOR FIVE YEARS.

LAMBDA Electronics Corp.

For details, circle #21 on Reader Service Card

Here are some other LAMBDA

1500 MA

Versatile, wide range, heavy duty component power supplies for original equipment



Wide range, continuous duty, hermetically-sealed transformers, high efficiency semi-conductor rectifiers. Available with and without meters.

(See check list on page 6)

Model 1500M:
0-400 VDC,
0-1500 MA,
with meters,
$760.00



Model 1500:
0-400 VDC,
0-1500 MA,
without meters,
$730.00

500 MA

Wide range power supplies in bench and rack models





Rack Model 50R: 0-500 VDC, 0-500 MA, $420.00

Bench Model 50: 0-500 VDC, 0-500 MA, $440.00

Lambda Model 50 is a general purpose, heavy duty power supply for bench use. It is housed in a compact cabinet provided with a rear access door and two sturdy carrying handles.

Rack Model 50R, intended for mounting in a standard 19" rack, is identical to Model 50 except that a ventilated dust cover is supplied in place of the cabinet.

(See check list on page 6)

200 MA PORTABLE

Wide range de luxe portable power supply for broad field and laboratory applications



Model 71:
0-500 VDC,
0-200 MA,
$310.00

Built for heavy-duty service, this versatile precision unit features maximum compactness and portability. Weight: 49 lbs. Only 13" high, 8¾" wide, 14½" deep.

Model 71 is mounted on rubber bumper feet and is equipped with a sturdy fold-down leather handle.

(See check list on page 6)



LAMBDA GIVES FIVE-YEAR GUARANTEE

Lambda Electronics is now giving an extended guarantee on Lambda power supplies which covers material and workmanship for five full years.

The new guarantee, by far the most liberal offered by any power supplies manufacturer, has been made possible by the outstanding record of field performance achieved by Lambda equipment.

Lambda has been a pioneer in the manufacture of power supplies, and one of the relatively few electronics organizations which has specialized entirely in this field.

ALL LAMBDA EQUIPMENT GUARANTEED FOR FIVE YEARS.

LAMBDA Electronics Corp.

For details, circle #22 on Reader Service Card

WRH

POWER SUPPLIES

(See Check List on page 6 for complete line)

300 MA SERIES

Wide range regulated power supplies in popular 300 MA range for rack mounting



Model 32M: 200-325 VDC, 0-300 MA, with meters, $169.50
Model 33M: 100-200 VDC, 0-300 MA, with meters, 184.50

Widely used power supplies for intermediate power requirements. Models 32 and 33 in this heavy-duty series are designed for standard 19" rack mounting. Models 32M and 33M are identical to 32 and 33, with the addition of 3½" rectangular voltmeters and milliameters.

(See check list on page 6)



Model 32: 200-325 VDC, 0-300 MA, without meters, $139.50

Model 33: 100-200 VDC, 0-300 MA, without meters, $154.50

100 MA SERIES

Complete power supply dependability



Model 28M: 200-325 VDC, 0-100 MA, with meters, $89.50
Model 29M: 100-200 VDC, 0-100 MA, with meters, 99.50

These long-lasting, dependable sources of power deliver "work-horse" service...yet cost as little as $59.50.

Intended primarily for fixed voltage use, they provide a convenient, low-cost power source for auxiliary equipment; also suited to production line applications.

(See check list on page 6)



Model 28: 200-325 VDC, 0-100 MA, without meters, $59.50

Model 29: 100-200 VDC, 0-100 MA, without meters, $69.50

ON POWER SUPPLIES *Guarantee retroactive to 1953*

The new five-year protection is tangible proof of the dependability and heavy-duty characteristics of Lambda equipment. The further step, unprecedented in the electronics industry, of making the new guarantee retroactive to cover all Lambda equipment bought since 1953 and now in use by the original purchasers, provides additional proof of the confidence the company has in the performance of Lambda power supplies.

Confirmed by engineers

Engineers who specify power supplies support this judgment. In every impartial study of power supply preference, these men choose Lambda above all other makes of supply. The most recent study shows Lambda specified by twice as many engineers as the next two combined.

Among more than three dozen manufacturers named, Lambda leads with an impressive 44 per cent preference. The nearest competing make received a 16.5 per cent vote.

Such companies as Bell Telephone, Consolidated Vultee, General Electric, General Motors, IBM, RCA and Remington Rand are among thousands who use Lambda power supplies.

ALL LAMBDA EQUIPMENT GUARANTEED FOR FIVE YEARS.

LAMBDA Electronics Corp.

For details, circle #23 on Reader Service Card

CONDENSED CHECK LIST

LAMBDA REGULATED POWER SUPPLIES including COM-PAK® series

Model	Style	Voltage Range (VDC)	Current Range (MA DC)	Regul'n Impedance Ripple (Table I)	6.3 VAC Output (Amps)	Meters	Output Voltage Control	Output Terminals	Size Weight (Table II)	Price (U.S. and Canada) F.O.B. Factory College Pt., N.Y.
REGULATED POWER SUPPLIES — RACK MOUNTING										
TRANSISTORIZED										
LT-2095	Rack	0-32	0-2000	R	–	None	Rear	Rear	S-13	365.00
LT-2095M	Rack	0-32	0-2000	R	–	2½" rect	Rear	Rear	S-13	395.00
TUBE REGULATED										
28	Rack	200-325	0-100	A	3A	None	Rear	Rear	S-2	59.50
28M	Rack	200-325	0-100	A	3A	3½" rect	Rear	Rear	S-2	89.50
29	Rack	100-200	0-100	B	3A	None	Rear	Rear	S-2	69.50
29M	Rack	100-200	0-100	B	3A	3½" rect	Rear	Rear	S-2	99.50
32	Rack	200-325	0-300	C	2 @ 5A	None	Rear	Rear	S-3	139.50
32M	Rack	200-325	0-300	C	2 @ 5A	3½" rect	Rear	Rear	S-3	169.50
33	Rack	100-200	0-300	C	2 @ 5A	None	Rear	Rear	S-3	154.50
33M	Rack	100-200	0-300	C	2 @ 5A	3½" rect	Rear	Rear	S-3	184.50
50-R	Rack	0-500	0-500	D	2 @ 5A	4½" rect	Front	Fr & rear	S-4	420.00
		0-50	Bias	E						
		0-200	High Imped.	F						
C-200	Rack	0-200	0-200	K	10A	None	Rear	Rear	S-9	184.50
C-200M	Rack	0-200	0-200	K	10A	3½" rect	Rear	Rear	S-9	214.50
C-201	Rack	125-325	0-200	K	10A	None	Rear	Rear	S-9	159.50
C-201M	Rack	125-325	0-200	K	10A	3½" rect	Rear	Rear	S-9	189.50
C-202	Rack	325-525	0-200	K	10A	None	Rear	Rear	S-9	169.50
C-202M	Rack	325-525	0-200	K	10A	3½" rect	Rear	Rear	S-9	199.50
C-400	Rack	0-200	0-400	L	15A	None	Rear	Rear	S-9	259.50
C-400M	Rack	0-200	0-400	L	15A	3½" rect	Rear	Rear	S-9	289.50
C-401	Rack	125-325	0-400	L	15A	None	Rear	Rear	S-9	244.50
C-401M	Rack	125-325	0-400	L	15A	3½" rect	Rear	Rear	S-9	274.50
C-402	Rack	325-525	0-400	L	15A	None	Rear	Rear	S-9	259.50
C-402M	Rack	325-525	0-400	L	15A	3½" rect	Rear	Rear	S-9	289.50
C-800	Rack	0-200	0-800	M	20A	None	Rear	Rear	S-10	340.00
C-800M	Rack	0-200	0-800	M	20A	3½" rect	Rear	Rear	S-10	370.00
C-801	Rack	125-325	0-800	M	20A	None	Rear	Rear	S-10	315.00
C-801M	Rack	125-325	0-800	M	20A	3½" rect	Rear	Rear	S-10	345.00
C-802	Rack	325-525	0-800	M	20A	None	Rear	Rear	S-10	360.00
C-802M	Rack	325-525	0-800	M	20A	3½" rect	Rear	Rear	S-10	390.00
C-1500	Rack	0-200	0-1500	N	30A	None	Rear	Rear	S-11	550.00
C-1500M	Rack	0-200	0-1500	N	30A	3½" rect	Rear	Rear	S-11	580.00
C-1501	Rack	125-325	0-1500	N	30A	None	Rear	Rear	S-11	575.00
C-1501M	Rack	125-325	0-1500	N	30A	3½" rect	Rear	Rear	S-11	605.00
C-1502	Rack	325-525	0-1500	N	30A	None	Rear	Rear	S-11	650.00
C-1502M	Rack	325-525	0-1500	N	30A	3½" rect	Rear	Rear	S-11	680.00
1500	Rack	0-400	0-1500*	P	2 @ 15A	None	Front Access	Rear	S-12	730.00
1500M	Rack	0-400	0-1500*	P	2 @ 15A	3½" rect	Front Access	Rear	S-12	760.00
REGULATED POWER SUPPLIES — PORTABLE AND BENCH										
25	Bench	200-325	0-100	A	3A	None	Front	Front	S-1	69.50
26	Bench	100-200	0-100	B	3A	None	Front	Front	S-1	79.50
50	Bench				See Model 50-R above				S-7	440.00
71	Portable	0-500	0-200	N	2 @ 5A	3½" rect	Front	Front	S-8	310.00
		0-50	Bias	I						
		0-200	High Imped.	J						

*Current rating of 0-1.5 amperes applies over entire voltage range except for voltages below 100 VDC where the rating of 0.1-1.5 amperes applies.

TABLE I DC OUTPUT VOLTAGE REGULATION, IMPEDANCE, RIPPLE

	Regulation: Line (105-125 VAC)	Regulation: Load (min to max)	Internal Impedance (ohms)	Ripple, rms (millivolts or %)
	Less than	Less than	Less than	Less than
A	1%	1%	10	10 mv
B	1%	1%	10	5 mv
C	1%	1%	4	10 mv
D	0.15% or 0.1V	0.5% or 0.3V	2	8 mv
E	0.1%	unregulated	3,300	2 mv
F	0.1%	unregulated	17,500	5 mv
H	0.15% or 0.3V	0.15% or 0.3V	4	5 mv
I	0.1%	unregulated	5,500	2 mv
J	0.1%	unregulated	25,000	5 mv
K	0.15% or 0.3V	0.25% or 0.5V	6	3 mv
L	0.15% or 0.3V	0.25% or 0.5V	3	3 mv
M	0.15% or 0.3V	0.25% or 0.5V	1.5	3 mv
N	0.15% or 0.3V	0.25% or 0.5V	0.75	3 mv
P	0.15% or 0.3V	0.15% or 0.3V	4	5 mv
R	0.15% or 20MV	0.15% or 20MV	0.025	1 mv

TABLE II SIZES AND WEIGHTS

	Size H x W x D (inches)	Weight Net (lbs.)	Weight Shipping (lbs.)
S-1	8 x 14 x 6	19	23
S-2	5¼ x 19 x 8	19	23
S-3	10½ x 19 x 9¼	42	52
S-4	10½ x 19 x 14¼	89	140
S-7	12½ x 22 x 15	110	158
S-8	13 x 8¾ x 14½	49	85
S-9	5¼ x 19 x 14⅜	53	80
S-10	7 x 19 x 14⅜	84	100
S-11	8¾ x 19 x 14⅜	120	140
S-12	12¼ x 19 x 16½	175	225
S-13	3½ x 19 x 14⅜	30	40

GUARANTEED FOR FIVE YEARS



SEND FOR LATEST CATALOG.

Complete specifications for all Lambda Power Supplies.

GENERAL SPECIFICATIONS

Sufficient tolerance is incorporated in the specifications to allow for normal commercial component and tube deviations. Tube replacements may be made with any equivalent tubes meeting RETMA specifications.

INPUT:

105-125 VAC, 50-60 CPS, single phase. Except for Com-Pak series (models with prefix C) and LAMBDA L-T transistor series (models with prefix LT) 105-125 V, 50-400 C.

DC OUTPUT:

Voltage Range: Continuously variable over ranges specified, except where otherwise noted.
Current Range: The current ranges given apply to the entire DC output voltage range, and for input voltages from 105 to 125 VAC. No "derating" is necessary.
Polarity: Either positive or negative terminal may be grounded.

AC OUTPUT:

The AC output is unregulated, isolated and ungrounded. It has a value of slightly higher than 6.3 V (when fully loaded) at an input of 115 VAC. This value allows for voltage drop in connecting leads. Dual outputs may be connected in series or parallel.

DUTY CYCLE:

Continuous duty at full load.

METERS:

Where meters are indicated, a separate voltmeter and milliammeter are provided.

OVERLOAD PROTECTION:

Ample protection is provided against external overload and internal failure conditions by means of fuses.
Circuit breakers of the magnetic, "trip-free" type are employed in Models 50, 50-R, 71, "1500" and LT series as protection against external overloads.

STYLE:

Rack Models are designed for mounting on standard 19" relay racks.
Bench Models are provided with compact, specially-designed, ventilated cabinets equipped with carrying handles. The power supply units may be removed from their cabinets for mounting in standard relay racks (except Models 25, 26 and 71).

RATINGS AND COMPONENTS:

All components used are of the highest quality and are operated well within manufacturers ratings. Hermetically-sealed, oil-filled capacitors are used exclusively, except in LT series, where special high purity foil, long-life electrolytics are used. Ample safety factors are provided in the design to insure the long life, and the dependable, trouble-free operation so desirable in industrial and laboratory applications.

All specifications and prices subject to change without notice.

LAMBDA
Electronics Corp.

11-11 131 STREET,
COLLEGE POINT 56, N Y.
INdependence 1-8500
CABLE ADDRESS: LAMBDATRON, NEW YORK

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SYLVANIA INDUSTRIAL & MILITARY
Special-Purpose Cathode Ray Tubes

TYPICAL OPERATING CONDITIONS

Type	Anode #2 Volts	Anode #1 Avg. Volts	Anode #3 Volts	Cutoff Voltage	Deflection E—Electrostatic M—Magnetic	Application
2AP1A	1,000	250	—	30-90	E	General-Purpose Oscilloscopes
3BP1A	2,000	575	—	30-90	E	General-Purpose Oscilloscopes
3FP7A	2,000	575	4,000	30-90	E	Radar Indicators
3JP1	2,000	400-690	4,000	30-90	E	General-Purpose Oscilloscopes
3JP2	—	—	—	—	E	Special Oscilloscopes & radar indicators
3JP7	—	—	—	—	E	Radar indicators
3JP12	1,500	300-515	3,000	22.5-67.5	E	Radar indicators
3RP1	2,000	330-620	—	135	E	General-Purpose Oscilloscopes
3RP4	2,000	330-620	—	135	E	General-Purpose Tube
5BP1A	2,000	450	—	20-60	E	General-Purpose Oscilloscope
5CP1A	2,000	575	4,000	30-90	E	General-Purpose Oscilloscope
5CP7A	2,000	575	4,000	30-90	E	Radar Indicators
5CP11A	2,000	575	4,000	30-90	E	Oscilloscopes for visual or photographic observation
5CP12	2,000	575	4,000	30-90	E	Radar Indicators
5ADP1	1,500	300-515	3,000	34-56	E	General-Purpose Oscilloscopes
5ADP2	"	"	"	"	E	Special Oscilloscopes & radar indicators
5ADP7	1,500	300-515	3,000	34-56	E	Radar Indicators
5ADP11	1,500	300-515	3,000	34-56	E	Oscilloscopes for visual or photographic observation
5UP1	2,000	340-640	—	90	E	General-Purpose Oscilloscopes
5UP7	2,000	340-640	—	90	E	Radar Indicators
5UP11	2,000	340-640	—	90	E	Oscilloscopes for visual or photographic observation
5ABP1	2,000	400-690	4,000	52-87	E	General-Purpose Oscilloscopes
5ABP4	—	—	—	—	E	General-Purpose Tube
5ABP7	2,000	400-690	4,000	52-87	E	Radar Indicators
5ABP11	2,000	400-690	4,000	52-87	E	Oscilloscopes for visual or photographic observation
5AQP1	2,500	0-300	—	34-56	E	General-Purpose Oscilloscopes
5AQP2	"	"	—	"	E	Special Oscilloscopes and radar indicators
5AQP7	"	"	—	"	E	Radar indicators
5AQP11	"	"	—	"	E	Oscilloscopes for visual or photographic observation
7JP1	6,000	1620-2400	—	72-168	E	General-Purpose Oscilloscopes
7VP1	3,000	800-1200	—	84	E	General-Purpose Oscilloscopes
7JP7	6,000	1620-2400	—	72-168	E	Radar Indicators
8CP1	2,000	540-800	4,000	24-56	E	General-Purpose Oscilloscopes
8CP7	2,000	540-800	4,000	24-56	E	Radar Indicators
8FP4	16,000	—	—	35-72	E	Video Monitors

TYPICAL OPERATING CONDITIONS

Type	Anode Volts	Accelerator Grid Volts	Cutoff Voltage	Deflection E—Electrostatic M—Magnetic	Application
5AHP4A	7,000	300	33-77	M	TV Monitor
5AHP7	7,000	300	33-77	M	Radar Indicators
5AHP7A	7,000	300	33-77	M	Radar Indicators
5AXP4	14,000	300	33-77	M	TV Receiver Test Picture Tube
5BNP16	14,000	300	33-77	M	TV Pick-Up of photographs by flying spot scanner
5FP4A	6,000	250	25-70	M	TV Monitor
5FP7A	6,000	250	25-70	M	Radar Indicators
5FP11A	"	"	"	M	Oscilloscopes for visual or photographic observation
5FP14	6,000	250	25-70	M	Radar Indicators
5ZP16	20,000	200	42-98	M	TV pick-up of photographs by flying spot scanner
7ABP7	7,000	300	33-77	M	Radar Indicators
7ABP7A	7,000	300	33-77	M	Radar Indicators
7ABP14	7,000	300	33-77	M	Radar Indicators
7ABP14A	7,000	300	33-77	M	Radar Indicators
7ABP19	7,000	300	33-77	M	Radar Indicators
7ABP19A	7,000	300	33-77	M	Radar Indicators
7BP2A	7,000	300	33-77	M	Special Oscilloscopes and radar indicators
7BP7A	7,000	250	25-70	M	Radar Indicators
7MP7	7,000	250	27-63	M	Radar Indicators
8XP4	16,000	300	33-77	M	TV Receiver Test Picture Tube
8YP4	16,000	300	35-72	M	TV Receiver Test Picture Tube
10KP7	9,000	250	27-63	M	Radar Indicators
10NP11	18,000	No Grid	65-125	M	Oscilloscopes for visual or photographic observation
10SP4	14,000	—	18-48	M	Video Monitors
10VP7	11,000	250	33-77	M	Radar Indicators
10VP15	11,000	250	33-77	M	TV pick-up of photographs by flying spot scanning
10WP7	10,000	300	33-77	M	Radar Indicators
12ABP7	10,000	300	33-77	M	Radar Indicators
12APB7A	10,000	300	33-77	M	Radar Indicators
12ABP14	10,000	300	33-77	M	Radar Indicators
12ABP14A	10,000	300	33-77	M	Radar Indicators
12ABP19	10,000	300	33-77	M	Radar Indicators
12ABP19A	10,000	300	33-77	M	Radar Indicators
12SP7	9,000	250	27-63	M	Radar Indicators

SYLVANIA TV PICTURE TUBES. In television picture tubes too, Sylvania stands out as a leading source for the widest variety of types. From conventional 90° tubes to the latest in 110° types, Sylvania, trendsetter in picture tube design, can supply your needs.

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SYLVANIA GERMANIUM TRANSISTORS

Transistor Type	Application	Type	Max. Diss. At 25°C Ambient	Max. VCB	Max. VCE(1)	Max. IC (ma)	Max. Junction Temp. (°C)	Current Gain hfe	Gain hFE	Cutoff Current (ua at rated VCB) ICBO	Cutoff Frequency fab (mc)	Cutoff Frequency fae (mc)	Circuit Power Gain db
RF-IF AMPLIFIER													
2N94	RF-IF Amplifier	NPN	50 mw	—	20	—	75	7.5	35	—	3	—	26
2N94A	RF-IF Amplifier	NPN	50 mw	20	20	50	75	25	—	25	6	—	27
*2N139	RF-IF Amplifier	PNP	35 mw	-16	—	15	70	45	—	6.0	6	—	30
2N216	IF Amplifier	NPN	50 mw	—	18	10	75	7.5	—	25	3	—	26
*2N229	IF-Audio	NPN	50 mw	6	—	40	75	15	—	100	3	—	—
*2N233	IF Amplifier	NPN	50 mw	10	10	50	75	4.5	—	50	Rb'Cc = 1200 — uuf		—
2N233A	IF Amplifier	NPN	50 mw	—	18	—	75	5	—	25	3	—	24
2N247	RF/IF Amplifier	PNP	35 mw	-35	VEB = -0.5	10	85	60	—	25	(1.5 mc operation)		27
2N370	20 Mc Amplifier	PNP	80 mw	-20	VEB = -1.5	10	85	105	—	25	—	—	13.5
2N373	IF Amplifier	PNP	80 mw	-12	VEB = -0.5	10	85	90	—	3	—	—	38
2N413A	IF Amplifier	PNP	150 mw	-30	-15	200	85	30	—	5	2.5	—	33
2N414A	IF Amplifier	PNP	150 mw	-30	-15	200	85	60	—	5	7	—	35
2N415A	IF Amplifier	PNP	150 mw	-30	-15	200	85	80	—	5	10	—	39
2N515	IF Amplifier	NPN	50 mw	—	18	10	75	7.5	—	25	3	—	25
2N516	IF Amplifier	NPN	50 mw	—	18	10	75	7.5	—	25	3	—	27
2N517	IF Amplifier	NPN	50 mw	—	18	10	75	7.5	—	25	3	—	28.5
2N544	RF/IF Amplifier	PNP	80 mw	-18	VEB = -1.0	10	85	100	—	25	(1.5 mc operation)		34
2N624	12.5 mc Amplifier	PNP	100 mw	-30	-20	—	100	30	—	15	(12.5 mc operation)		20
OSCILLATOR													
2N193	Oscillator	NPN	50 mw	—	18	50	75	7.5	—	25	3	—	—
2N211	Oscillator	NPN	50 mw	—	10	50	75	10	—	25	3	—	—
2N371	20 Mc Oscillator	PNP	80 mw	-20	VEB = -0.5	10	85	90	—	25	—	—	14.5
MIXER													
2N194	Mixer	NPN	50 mw	—	18	50	75	8	—	25	3	—	15
2N372	20 Mc Mixer	PNP	80 mw	-20	VEB = -0.5	10	85	90	—	27	—	—	14.5
2N409	Mixer	PNP	80 mw	—	-20	15	85	48	—	—	3	—	20
*2N410	Mixer	PNP	80 mw	—	-20	15	85	48	—	—	3	—	20
CONVERTER													
2N212	Converter	NPN	50 mw	—	12	50	75	20	—	25	6	—	30
2N140	Converter	PNP	35 mw	-16	—	15	85	—	—	5	5	—	30
2N374	Converter	PNP	80 mw	-12	VEB = -0.5	10	85	105	—	3	—	—	40
2N411	Converter	PNP	80 mw	-13	—	15	85	—	—	5	—	—	32
*2N412	Converter	PNP	80 mw	-13	—	15	85	—	—	5	—	—	32
AUDIO, DRIVER, AND MEDIUM POWER													
2N34	Audio	PNP	50 mw	-40	—	50	75	hfb = .950 min.		75	.400	—	35
2N35	Audio-Driver	NPN	50 mw	40	25	100	75	75	—	50	—	.010	37
2N68	Audio-Power	PNP	1.5 w	-30	-15	1.5A	75	—	40	5 ma	.400	—	23
2N95	Audio-Power	NPN	1.5 w	30	15	1.5A	75	—	40	5 ma	.400	—	23
2N101	Audio-Power	PNP	1w	-30	-15	—	75	—	40	5 ma	.400	—	23
2N102	Audio-Power	NPN	1 w	30	-15	800	75	—	40	5 ma	.400	—	23
2N109	Audio	PNP	50 mw	-25	—	70	85	—	70	5	—	—	—
2N141	Audio-Power	PNP	1.5 w	-60	-30	800	75	—	40	5 ma	.400	—	23
2N142	Audio-Power	NPN	1.5 w	60	-30	800	75	—	40	5 ma	.400	—	23
2N143	Audio-Power	PNP	1 w	-60	-30	800	75	—	40	5 ma	.400	—	23
2N144	Audio-Power	NPN	1 w	60	-30	800	75	—	30	5 ma	.400	—	23
2N213	Audio-Driver	NPN	50 mw	40	25	100	75	300	—	50	—	.010	40
2N214	Audio-Matched Pair	NPN	180 mw	40	25	100	75	—	75	25	—	.110	28
*2N217	Audio-Driver	PNP	50 mw	-25	—	70	85	—	70	5	—	—	33
2N228	Audio-Output	NPN	50 mw	40	25	—	75	60	70	50	.600	—	26
*2N241A	Audio	PNP	180 mw	-25	—	200	85	—	73	16	1.3	—	35
2N270	Audio-Power	PNP	150 mw	-25	—	75	85	—	75	—	—	.006	30
2N306	Audio-Driver	NPN	50 mw	20	15	—	75	75	—	25	.600	—	37
*2N321	Audio	PNP	200 mw	-20	—	200	85	—	73	16	1.3	—	35
2N381	Audio-Power	PNP	200 mw	—	-30	200	85	—	35	10	—	10	30
2N382	Audio-Power	PNP	200 mw	—	-30	200	85	—	60	10	—	10	34
2N383	Audio-Power	PNP	200 mw	—	-30	200	85	—	80	10	—	10	38
*2N406	Audio-Driver	PNP	150 mw	-12	—	70	85	35	—	14	—	—	43
*2N407	Audio	PNP	150 mw	-20	—	70	85	65	—	14	.400	—	—
*2N408	Audio	PNP	150 mw	-20	—	70	85	65	—	14	.400	—	—
HIGH POWER AUDIO													
*2N155	Audio-Power	PNP	8.5 w	-30	-25	3A	85	60	—	.5 ma	—	.006	—
*2N173	Audio-Power	PNP	55 w	—	-60	13A	95	—	50	.5 ma	—	.005	34
*2N174	Audio-Power	PNP	55 w	—	-80	13A	95	—	40	1.0 ma	—	.004	25
2N176	Audio-Power	PNP	10 w at 80°C	—	-30	3A	90	—	—	—	—	.006	—
*2N235A	Audio-Power	PNP	25 w	-40	—	3A	90	60	—	0.5 ma	—	.007	35
2N242	Audio-Power	PNP	25 w	-45	-45	2A	100	—	—	1.0	—	.007	35
*2N250	Audio-Power	PNP	12 w	-30	-30	2A	80	60	—	2.5 ma	—	.006	33
*2N255	Audio-Power	PNP	6.25 w	-15	—	3A	85	—	40	1.5 ma	.200	—	21
*2N257	Audio-Power	PNP	25 w	-40	—	2A	85	60	—	1.0 ma	—	.007	33
2N268	Audio-Power	PNP	25 w	-80	—	—	85	—	—	2.0 ma	—	.006	30
*2N278	Audio-Power	PNP	55 w	-50	-20	13A	95	—	50	.5 ma	—	.005	34
2N296	Audio-Power	PNP	25 w	—	-60	2A	85	—	30	1.0 ma	—	.004	—
2N301	Audio-Power	PNP	12 w at 55°C	-40	—	1A	85	—	—	0.5 ma	—	—	35
2N301A	Audio-Power	PNP	12 w at 55°C	-60	—	1A	85	—	—	0.5 ma	—	—	—
*2N307	Audio-Power	PNP	10 w	-35	-35	1A	75	—	30	7.5 ma	—	.003	—
2N307A	Audio-Power	PNP	17 w	-35	-35	2A	75	—	30	3.5 ma	—	.0035	25
2N325	Audio-Power	PNP	12 w	-35	-35	2A	85	—	35	250	.150	—	—
2N326	Audio-Power	NPN	7 w	35	35	2A	85	—	35	250	.150	—	—
2N350	Audio-Power	PNP	10 w at 80°C	-40	—	3A	90	30	40	1.5 ma	—	.005	31.5
2N351	Audio-Power	PNP	10 w at 80°C	-40	—	3A	90	45	55	1.5 ma	—	.005	33.5
COMPUTER													
2N312	Switching	NPN	100 mw	15	15	200	85	—	50	7	($t_r + t_d$ = 1.5 us max.)		—
2N356	Switching	NPN	100 mw	20	18	500	85	—	30	20	3	—	—
2N357	Switching	NPN	100 mw	20	15	500	85	—	30	20	6	—	—
2N358	Switching	NPN	100 mw	20	12	500	85	—	30	20	9	—	—
2N377	Switching	NPN	150 mw	25	20	200	100	—	40	6	6	—	—
2N385	Switching	NPN	150 mw	25	25	200	100	—	70	17	4	—	—
2N388	Switching	NPN	150 mw	25	20	200	100	—	110	10	8	—	—
2N404	Switching	PNP	120 mw	-25	-24	100	85	—	—	10	4	—	—
2N425	Switching	PNP	150 mw	-30	-20	400	85	—	15	10	4	—	—
2N426	Switching	PNP	150 mw	-30	-18	400	85	—	18	10	6	—	—
2N427	Switching	PNP	150 mw	-30	-15	400	85	—	20	10	11	—	—
2N428	Switching	PNP	150 mw	-30	-12	400	85	—	30	10	17	—	—
2N556	Switching	NPN	100 mw	25	20	200	85	—	50	10	($t_r + t_d$ = 3.5 us max.; t_o = 2.0 us max.)		—
2N557	Switching	NPN	100 mw	20	20	200	85	—	30	10	(t_r = 6.5 us max.; t_o = 2.5 us max.)		—
2N558	Switching	NPN	100 mw	15	10	200	75	—	75	10	($t_r + t_d$ = 3.5 us max.; t_o = 2.0 us max.)		—
2N576	Core Driver	NPN	200 mw	20	20	400	100	—	40	10	($t_r + t_d$ = 20 us max.; t_f = 1.0 us max.)		—
2N587	Switching	NPN	150 mw	40	20	200	85	—	30	25	(t_r = 2.0 us max.; t_o = 2.0 us max.)		—
2N625	Core Driver	NPN	2.5 w	40	30	—	100	—	30	50	(t_r = 0.5 us max.; t_f = 0.5 us max.)		—

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CRYSTAL DIODES, PHOTODIODES & VARISTORS

SYLVANIA CRYSTAL DIODES

***ABSOLUTE MAXIMUM RATINGS** — **CHARACTERISTICS AT 25° C:**

Type	Application or Description	Continuous Reverse Working Voltage (volts)	Average Anode Current (ma)	Forward Current at + 1 Volt (ma min.)	Reverse Current (ua max.)
1N34A	60 volt	60	50	5	30 at — 10v, 500 at — 50
1N35	Matched Pair	50	22.5	7	10 at — 10v
1N36	30 volt	30	16	4	100 at — 25v
1N38A	100 volt	100	50	4	6 at — 3v, 500 at 100v
1N38B***	100 volt	100	50	4 (25 max.)	6 at — 3v, 500 at 100v
1N39B	200 volt	200	50	4	100 at — 100v, 600 at 200v
1N40	Plug-in Varistor	25	22.5	12.7 at 1.5v	40 at 10v
1N41**	Packaged Varistor	25	22.5	12.7 at 1.5v	40 at 10v
1N42**	100 volt Varistor	100	22.5	12.7 at 1.5v	750 at — 100v
1N48**	70 volt	70	50	4	800 ua at — 50v
1N52A	50 volt	50	50	5 (25 max.)	100 at — 50v
1N54A	High Back Resistance	50	50	5	7 at — 10v, 100 at — 50v
1N55A***	150 volt	150	50	4	500 at — 150v
1N56A***	High Conduction	40	60	15	300 at — 30v
1N58A	100 volt	100	50	4	600 at — 100v
1N60	Video Detector	25	50		
1N63	High Back Resistance	100	50	4	50 at — 50v
1N64**	Video Detector	20		(45 mc I = 100 ua)	
1N65	70 volt	70	50	2.5	200 at — 50v
1N67A***	Miniature—High Back	80	30	4	5 at — 5v, 50 at — 50v
1N69	60 volt	60	40	5	50 at — 10v, 850 at — 50v
1N69A***	60 volt	60	40	5 (25 max.)	30 at 10v, 500 at — 50v
1N70	100 volt	100	30	3	25 at 10v, 300 at 50v
1N70A***	100 volt	100	30	3 (25 max.)	25 at 10v, 300 at 50v
1N71	Low Impedance Varistor	40	60	15	300 at — 30v
1N72	UHF Mixer	5	25	(N.F. = 14 — 19db)	
1N77A	Photodiode .093" dia. per		10	—	8 at — 10v, 30 at —50v (dark)
1N77B	Photodiode .077" dia. per		10	—	8 at —10v, 30 at —50v (dark)
1N81	Low Voltage	40	30	3	10 at — 10v
1N81A***	Low Voltage	40	30	3 (25 max.)	10 at — 10v
1N82	UHF Mixer	—		—	—
1N82A	UHF Mixer	—		—	—
1N90	Miniature—General Purpose	60	30	5	750 at —50v
1N98	Miniature—High Back	80	30	20	8 at —5v, 100 at —50v
1N100	Miniature—High Back	80	30	20	5 at —5v, 50 at —50v
1N111	60 volt Computer	60	25	5	—
1N112	60 volt Computer	60	25	5	—
1N115	60 volt Computer	60	25	2.5	—
1N118	Miniature—High Conduction	60	60	20	100 at —50v
1N119	60 volt—Computer	60	25	5	—
1N120	60-volt—Computer	60	25	5	—
1N126	Miniature—60 volt	60	30	5	50 at —10v, 850 at —50v
1N126A***	Miniature—60 volt	60	30	5 (25 max.)	50 at —10v, 850 at —50v
1N127	Miniature—100 volt	100	30	3	25 at —10v, 300 at —50v
1N127A***	Miniature—100 volt	100	30	3 (25 max.)	25 at —10v, 300 at —50v
1N128***	Miniature—High Back	40	30	3	10 at —10v
1N140	70 volt	70	85	40	300 at —50v
1N191	Miniature—Computer	90	30	5	—
1N193	High Temperature	50	30	1.0 at +2v	20 at —10v, 40 at —40v
1N194	High Temperature	40	30	1.5 at +2v	10 at —40v
1N194A	High Temperature	40	30	1.5	10 at —40v
1N195	High Temperature	40	30	2.0 at +2v	10 at —40v
1N196	High Temperature	50	30	1.0 at +2v	10 at —40v
1N198	Miniature—75°C	80	30	4	10 at —10v, 50 at —50v
1N198A***	Miniature—75°C	80	30	4 (25 max.)	10 at —10v, 50 at —50v
1N276***	50 volt	50	40	40	20 at —10v, 100 at —50v
1N279***	30 volt	30	80	100	200 at —20v
1N283	Miniature—High Conductance	20	100	200	80 at —10v
1N294	60 volt	60	50	5 (25 max.)	10 at —10v, 800 at —50v
1N295**	Video Detector	40	35	(50 mc lo = 375 ua)	—
1N355	High Back	80	500	4	5 at —5v, 50 at —50v
1N417	Computer	60	60	—	—
1N418	Computer	60	16	7	—
1N419	Computer	80	60	125	—
1N435	Varistor	40	60	—	300 at —30v
1N447**	VLI	30	60	25	60 ua at —30v
1N448	VLI	100	60	25	30 at —30v, 100 at —100v
1N449**	VLI	30	60	50	30 ua at —30v
1N450	VLI	100	60	50	30 at —30v, 100 at —100v
1N451**	VLI	150	60	50	150 ua at —150v
1N452**	VLI	30	80	100	30 ua at —30v
1N453**	VLI	100	80	100	100 ua at —100v
1N454**	VLI	50	100	200	50 ua at —50v
1N455**	VLI	30	100	300	30 ua at —30v
1N571	High Conductance	15	—	200	100 at —10v at 55°C.
1N634	Miniature—VLI	60	100	50	35 at —30v, 115 at —100v
1N636	60 volt	60	30	2.5 (25 max.)	10 at —10v, 20 at —20v
1N1093	Computer	15	50	—	25 at —5v and 75 at —14v at 55°C

*Ratings are limiting values assigned by the manufacturer to operating or storage conditions (electrical, mechanical, or environmental) under the control of the user. If values are exceeded, permanent impairment of the device and/or performance may result.

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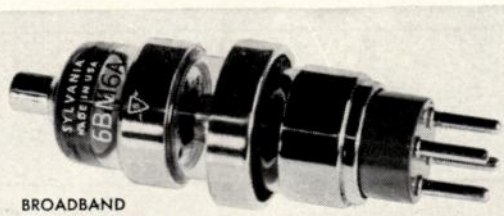
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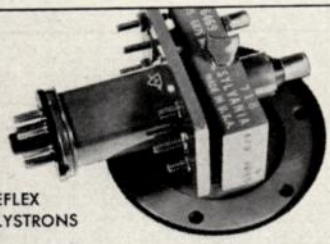
SYLVANIA MICROWAVE COMPONENTS



TRAVELING
WAVE AMPLIFIERS



BROADBAND
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FERRITE
DEVICES

Rugged, Reliable Traveling-Wave Amplifiers

Broadband amplifiers for airborne, shipboard, and ground based equipment. Fully tested to complete military-type specifications. Ideal for countermeasures, radar, communications and test equipment.

Lightweight Permanent Magnet Types

Type	Frequency (KMC)	Minimum Output
TW-4006	1-2	10 mw
TW-4007	1-2	1 watt
TW-4002	2-4	10 mw
7072	2-4	1 watt

Compact Solenoid Types*

Type	Frequency (KMC)	Minimum Output
6753	1-2	10 mw
6752	1-2	2 watts
TW-538	1-2	0.5-1 KW, pulse
6493	2-4	10 mw
6559	2-4	2 watts
6698	2-4	0.5-1 KW, pulse
TW-613	8-11.5	5 mw
TW-591	8-10.5	0.5 KW, pulse

Rugged, Reliable Backward Wave Oscillators*

Compact voltage-tuned broadband oscillators for wide-range search receivers and test equipment.

Type	Frequency (KMC)	Power Output
6699	1-2	20-150 mw
6496	2-4	20-150 mw
BW-623	4-8	20-150 mw

*Mating Solenoid available for all types.

Low-Cost, Long-Life Reflex Klystrons for Microwave Relays

These reliable klystrons are widely proven in microwave relay service. Fully tested to the equipment specification. Maximum frequency stability results from special tuner design.

Type	Frequency (KMC)	Power Output
6974*	4.6-5.0	1 watt
6468	5.3-6.6	0.07-1 watt
6469	5.8-7.125	0.07-1 watt
6470	6.3-7.5	0.07-1 watt
K-841B	6.125-6.425	1 watt
K-840B	6.575-6.875	1 watt
K-839B	7.125-7.425	1 watt

*Special Linear Tuner.

Broadband Reflex Klystrons

These versatile klystrons are ideal for search receivers, signal generators, and microwave relays. Extreme design flexibility achieved with external cavity design.

Type	Frequency (KMC)	Power Output
6BM6	0.55-3.8	50-175 mw
6BM6A*	0.55-3.8	50-175 mw
6BL6	1.6-6.5	60-250 mw

*Pulse type.

Ferrite Devices—For Better Radar and Microwave Relay Performance, Specify Sylvania Isolators and Duplexer Circulators

	Type	Frequency (KMC)	Isolation (db)	Insertion Loss (db)
BROAD BAND Type N Coaxial Isolators	FD-154	1.3-2.1	10	1
	FD-151	2-4	10	1
	FD-153	2-2.7	15	1
	FD-155	2.6-3.2	80	.5
	FD-152	2.7-3.6	15	1
BROAD BAND Waveguide Isolators	FD-492	3.95-5.85	18	1
	FD-502	5.85-8.2	20	1
	FD-512	7.05-10	24	1
	FD-522	8.2-12.4	30	1
	FD-911	12.4-18	24	1
	FD-531	18-26.5	24	1

	Type	Frequency (KMC)	Power	Isolation (db)	Insertion Loss (db)
High Power Waveguide Isolators	FD-483	2.8-3.6	3 KW, avg.	15	0.8
	FD-963	4.6-5	20 W, CW	25	1
	FD-977	5.3-5.5	120 KW, pk	15	1
	FD-503	5.925-6.425	20 W, CW	40	0.8
	FD-503A	5.925-6.425	20 W, CW	60	1
	FD-504	6.575-7.125	20 W, CW	60	1
	FD-962	7.1-8	20 W, CW	35	1
	FD-505	7.125-7.75	20 W, CW	60	1
	FD-525	8.2-10.2	100 KW, pk	30	1
	FD-524	8.5-9.5	100 KW, pk	20	1
	FD-1013	8.5-9.6	125 KW, pk	15	0.8
	FD-1037	8.5-9.6	125 KW, pk	25	1
	FD-523	9.5-10.5	100 KW, pk	15	0.5
Ferrite Circulator Duplexers	FD-C-501	5.925-6.425	150 W, avg.	25	0.5
	FD-C-502	6.425-6.875	100 W, avg.	25	0.5
	FD-C-503	7.125-7.75	100 W, avg.	25	0.5
	FD-C-521	8.2-10	100 W, avg.	29	0.5

Where quality counts, specify Sylvania Microwave Tubes. Many modifications of these types are available.

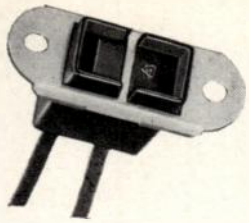
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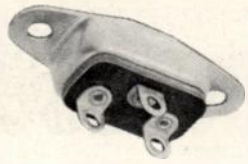
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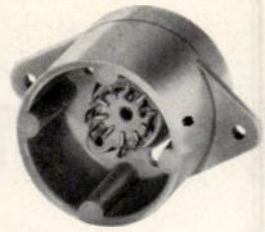
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A. C. Receptacle— Designed for economical installation



Interlock Plug—3-pin —positive grounding



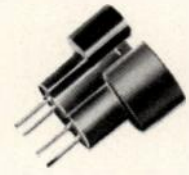
Anti-corona Sockets —Octal, 9-pin



Printed Circuit Sockets —Octal, 9-pin, 7-pin



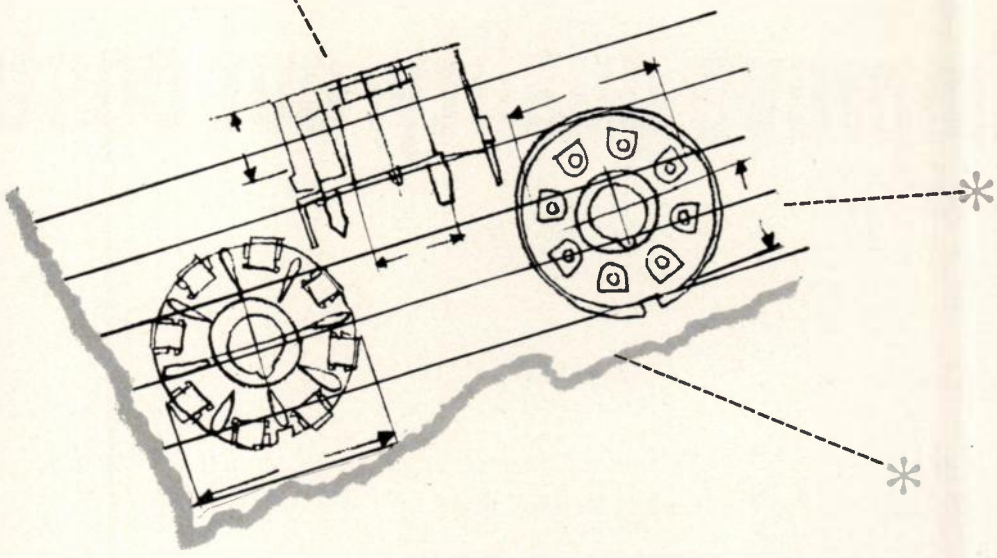
Counter Tube Socket —with built-in zero-adjust



"Class 30" Transistor Socket—for standard 100-mil grid



"In-line" Transistor Socket—with snap-in printed circuit contacts



Any one of these sockets could have been designed for you

IF YOU'RE building circuits . . . chances are you've come across at least one socketing problem. Maybe it was an entirely new problem like socketing the "class 30" transistor or perhaps a recurring bugaboo like high voltage arcing.

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If you haven't been checking Sylvania for your socket requirements, why not do it next time? Sylvania has produced millions of sockets in over 150 varieties to fit every need. Many are now standard items and may offer an immediate solution to your problem. Write for specification sheets on the above sockets or let us suggest the best socket for the application you have in mind.

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Where can you use these dependable Sylvania products ...to improve quality; cut costs

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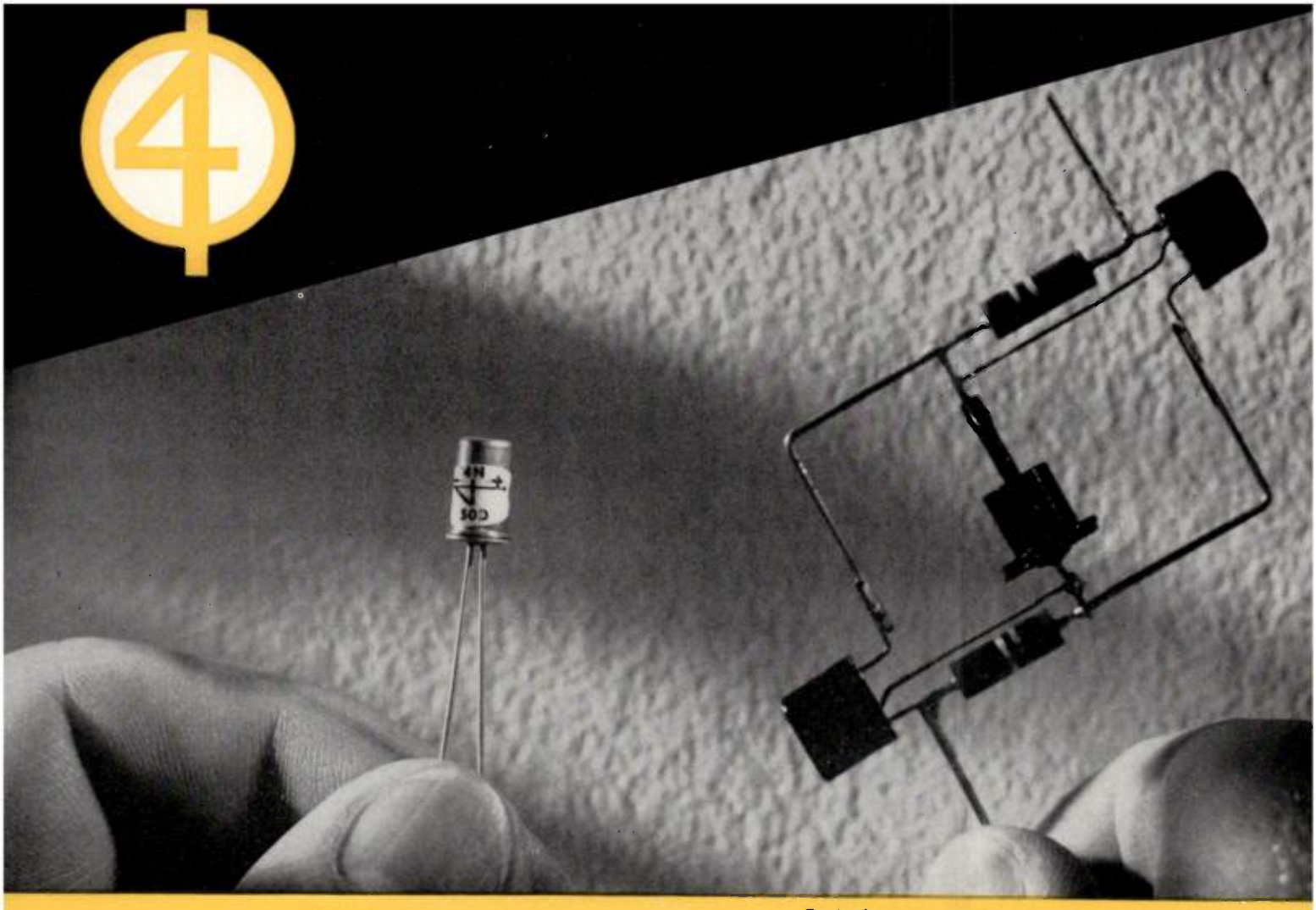
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Equivalent to a combination of five separate elements

the shockley
4-LAYER BISTABLE TRANSISTOR DIODE

for: computers
telephony
control
pulse circuitry

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Shockley / **Transistor Corporation**

Introduction

Transistor diodes of the four-layer bistable type, invented at Bell Telephone Laboratories, are semiconductor switches with functions based on the principles of transistor action. Because the switching properties so closely approach many of those demanded from an ideal switch, the four-layer diode finds many applications in the otherwise diverse fields of high-power switching, pulse generation, and pulse counting.

Basically, the unit is a two-terminal device which operates electrically in either of two states:

1) an 'open' or low-conductance state of 10 to 1,000 megohms, in parallel with about 50 $\mu\mu$f, and

2) a 'closed' or high-conductance state of 1 to 10 ohms. The resistance in this state depends on current and decreases in some units to values as low as 0.2 ohm at currents of 2 to 3 amperes.

The diode is switched from one state to the other through control of the voltage and current. When the voltage exceeds the breakdown level, the diode changes from 'open' to 'closed'—provided sufficient current is available to hold it in the 'closed' state. (Switching occurs very rapidly and is discussed in section on Switching Times.) When the current drops below a threshold value, the diode will switch back to 'open'.

Circuit Properties

As shown in Fig. 1 (below) the four-layer diode passes back and forth between its 'open' and 'closed' state through a negative-resistance transition region II located between region I ('open' or 'off') and region III ('closed' or 'conductive').

Action of the Four-Layer Diode

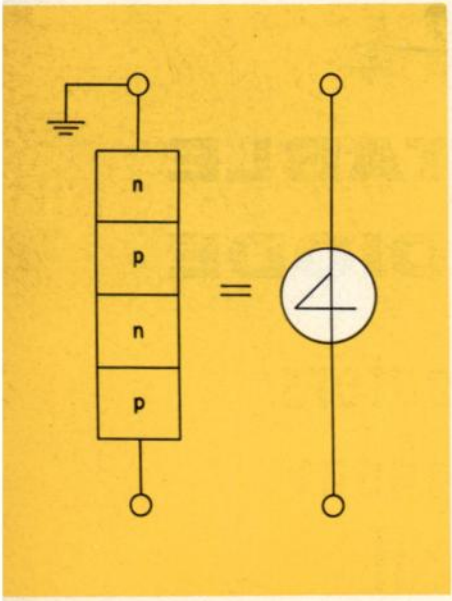
Visualize the voltage across the device being increased from zero with polarity shown in Fig. 2a. Junctions 1 and 3 are forward biased, and junction 2 reverse biased. Therefore junction 2 has a much higher impedance than junctions 1 and 3. Nearly the entire applied voltage will be developed across junction 2, and the current that flows will be largely that characteristic of a reverse-biased silicon junction.

Hence, the device will have a low-frequency impedance in this range of operation of possibly several hundred megohms. Since pn junctions also possess capacitance, the high-frequency impedance will be considerably lower.

As the voltage continues to be increased, the electric field produced within the silicon at junction 2 increases. The so-called avalanche current together with the increasing alphas of the emitter junctions then lead to the shape of the characteristic in region II.

Transistor Equivalent

The four-layer diode Fig. 2a can be regarded as two interconnected silicon-junction transistors. Current passing junc-



Schematic diagram of the four-layer transistor diode construction. Produced from single-crystal silicon, the four layers in the silicon unit are obtained by controlled diffusion of suitable impurities. Thickness is approximately 0.002 in.

Schematic symbol for the four-layer bistable transistor diode is a modified 4, identifying the diode type. At the same time, the slant line of the 4 indicates the forward direction of the device when in 'on' condition.

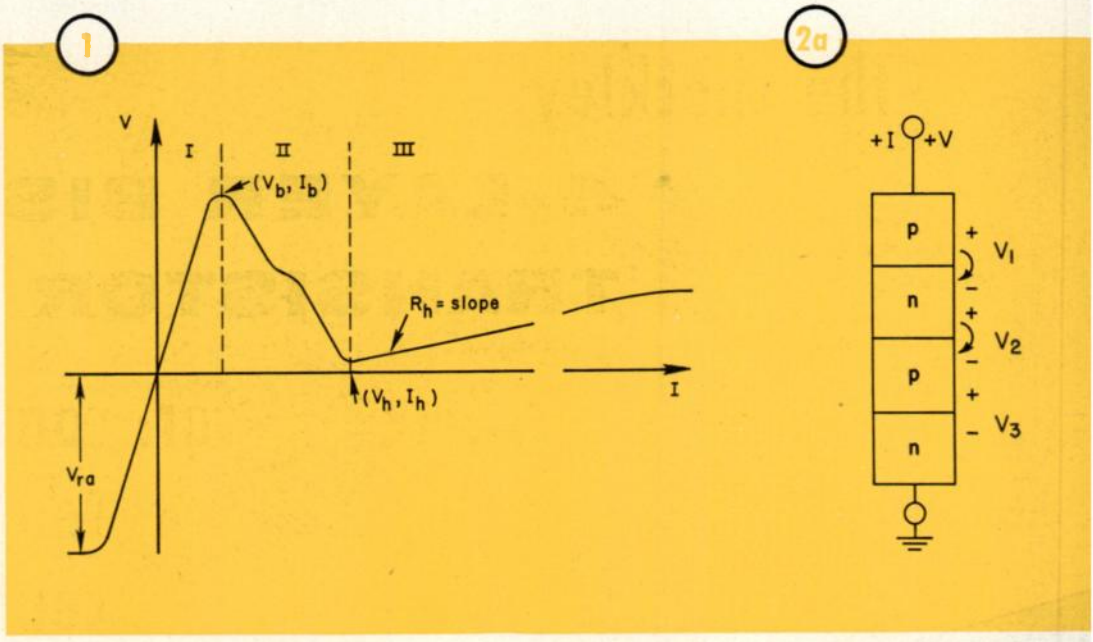


Fig. 1. Voltage-current characteristic for the four-layer diode shows the three essential operating regions: I 'open', II transition or negative resistance, and III 'closed'. Voltage and current conventions are shown in Fig. 2a (For illustration purposes, the current is not shown to scale.)

Fig. 2. One way of viewing four-layer diode operation is to regard the device as though it were two interconnected silicon-junction transistors, as shown here. This is

For details, circle #32 on Reader Service Card

tion 2 (which is also the total device current) arises from three components: (a) that which is thermally generated in and near junction 2 and multiplied there, (b) that injected by the p emitter and collected and multiplied at junction 2, and (c) that injected by the n emitter and collected and multiplied at junction 2.

Negative resistance arises in the transition region II as follows: For small current through the device, the alphas of the transistors of Fig. 2b are low, and a large avalanche multiplication M is necessary to account for device current at junction 2. As the current increases beyond I_b, however, the alphas of the transistors begin to increase rapidly and a decreasing value of M is required to keep charge from piling up at the center junction. Since M is dependent on the voltage drop across junction 2, a decreasing value of M implies a decreasing value of V. Hence beyond I_b, device current increases and device voltage decreases.

This finally results in a condition of zero voltage drop across the center junction, at which point it acts as an emitter as well as a collector. The device is then 'closed', the base layers are flooded with charge, and the device has low impedance. (In region II, proper design will permit the control of certain features of the negative-resistance characteristic, such as a widened flat portion or a modified slope and width of the transition region on the current axis.) At this point on the curve, the voltage drop is about 1 volt plus the voltage drop associated with the ohmic contacts. The 'closed' resistance is defined as the slope R_h of the characteristic in region III.

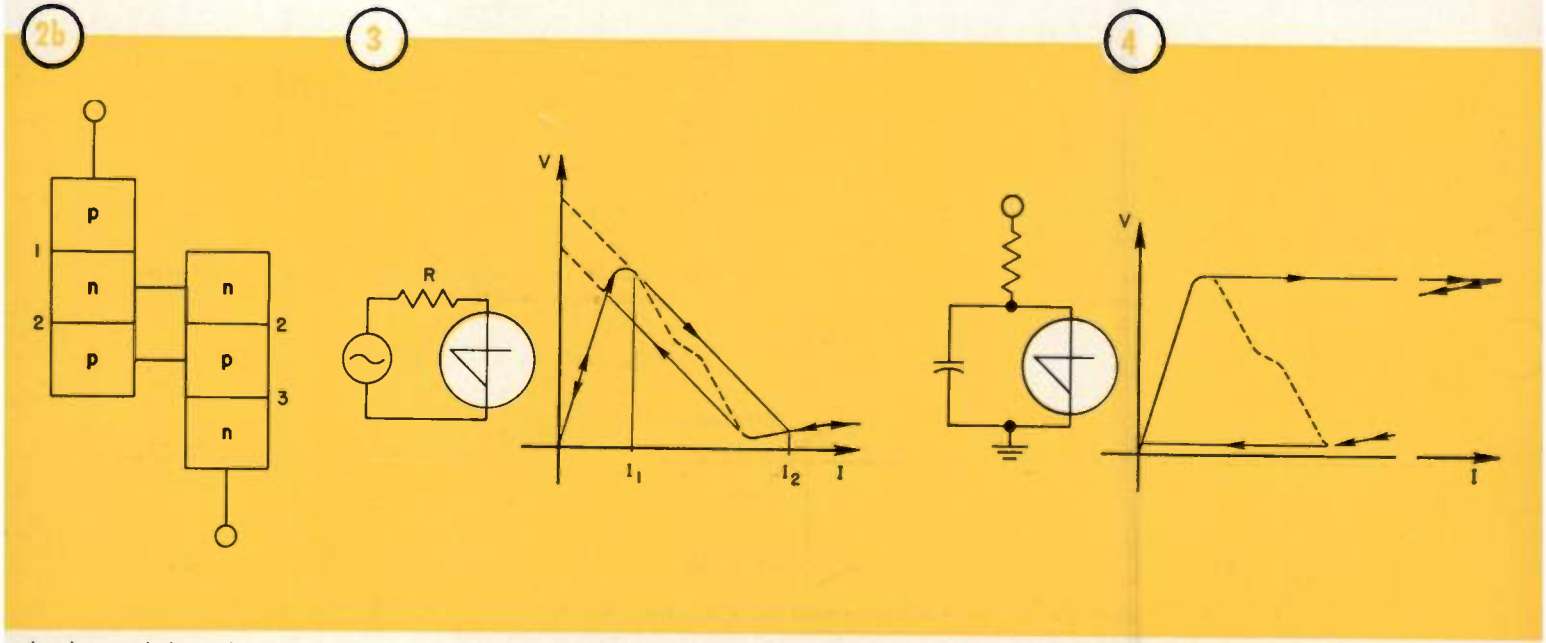
R_h is approximately constant for pulse currents in the neighborhood of 2 - 3 amps and equal to the ohmic contact resistance of one ohm or less. This characteristic permits high-power applications; i.e., switching 6 watts or, with proper heat sinking, 12 watts, at a power efficiency of nearly 100 per cent.

Switching Times

In many applications, it is desirable to calculate and predict switching times under a variety of boundary conditions. In one of these, the voltage is slowly increased to slightly higher than the switching voltage. A resistance in series with the voltage source makes intersections with the characteristic as shown in Fig. 3. When the upper load line is reached an exponential build-up with a time constant of the order of 0.1 μsec occurs until I increases from I_1 to I_2.

In another case, the voltage across the device is held constant as the switching proceeds, as in Fig. 4. The capacitor charges up to V_b. The device now switches 'closed' with essentially constant voltage across it to a current limited by its resistance and with initial time constants of the order of 30 or 40 millimicroseconds. By using only a portion of the current buildup, circuits can be made to generate rapidly rising pulses.

Consideration of the breakdown voltage point as a rigid threshold value should be modified somewhat with respect to the rate of the voltage rise. The capacitance of junction 2 permits passage of a displacement current proportional to the rate of change of the voltage across the device. Appearing at the two emitter junctions, this current, when large enough, acts to reduce the breakdown-voltage level. This effect, with rising drive frequency, approaches a limit as the device becomes a pure bilateral capacitor.



related particularly to the characteristic curve in the transition region between the 'open' and 'closed' conditions.

Fig. 3. Switching transient of the four-layer diode when a voltage is slowly increased to slightly greater than breakdown and held there. The arrows indicate the "hysteresis loop" traced by applying a-c voltage. (The current is not shown to scale.)

Fig. 4. Switching transient of the four-layer diode when voltage across the device is held constant as switching proceeds. The arrows show the path followed in discharging the capacitor. (The current is not shown to scale.)

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CHARACTERISTICS & TESTS

For application convenience, the following parameters of the four-layer diode are available within the ranges listed below:

No.	V_b Volts	I_b μa	V_h Volts	I_h ma	R_h ohms
4N20D	20±5	<500	<2	<50	<10
4N30D	30±5	<500	<2	<50	<10
4N40D	40±5	<500	<2	<50	<10
4N50D	50±5	<500	<2	<50	<10
4N20-50DL		<4v drop for 3-amp pulse			

For applications requiring more specific limits, please request information.

Since some of these parameters are, to some extent, dependent on the test circuit used, two suggested circuits are shown. See Figs. 5 and 6 (below).

Referring to Fig. 5, the 100 k limiting resistor (R_3) is used to measure the value of I_b, which is arbitrarily defined as the point where the trace disappears on the scope display (see Fig. 7a). The values of V_b, V_h, I_h, and R_h are measured with the 1 k resistor (R_1) as the limiting resistor, in which case the V-I plot appears as in Fig. 7b.

In this circuit, the diode switch S_3 in the 'In' position prevents the reverse avalanche current from heating the device and thus changing the values of the parameters being measured.

Holding current I_h and holding voltage V_h are read at the point on the plot where the trace disappears. This is marked B on Fig. 7b. For low current values, the 'closed' resistance is the slope of the line R_h.

This V-I plotter does not display the shape of the negative-resistance part of the four-layer diode characteristic, but the circuit shown in Fig. 6 will display the entire curve, as shown in Fig. 7c.

5

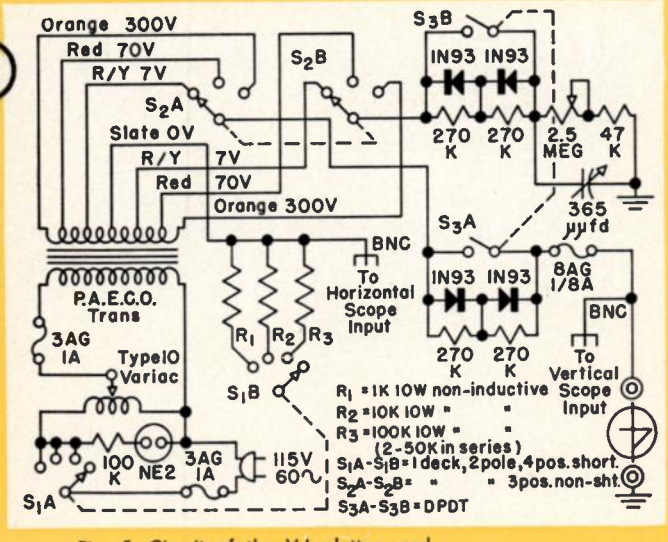


Fig. 5. Circuit of the V-I plotter used to measure four-layer-diode parameters.

6

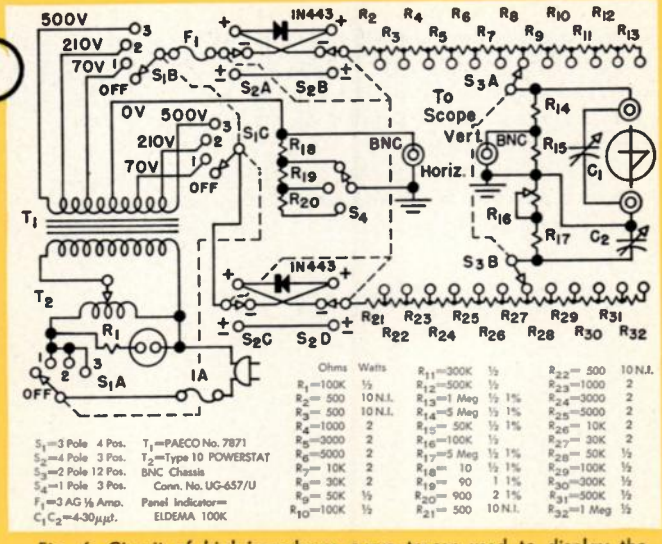


Fig. 6. Circuit of high-impedance curve tracer used to display the entire characteristic curve of the four-layer diode.

7

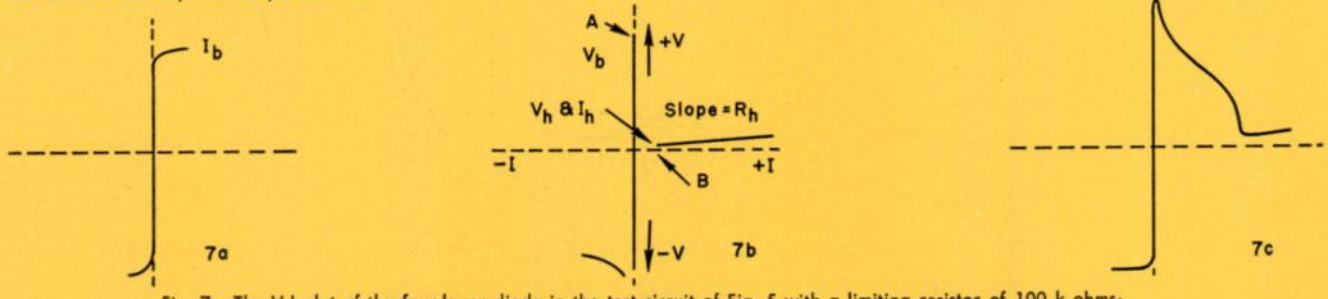


Fig. 7a. The V-I plot of the four-layer diode in the test circuit of Fig. 5 with a limiting resistor of 100 k ohms; 7b, same as (a) but with 1 k ohm limiting resistor; 7c, V-I plot of the four-layer diode in the test circuit of Fig. 6.

Data Sheets

Separate engineering sheets are produced and regularly kept up to date on numerical values and limits of four-layer-diode parameters including information on temperature effects.

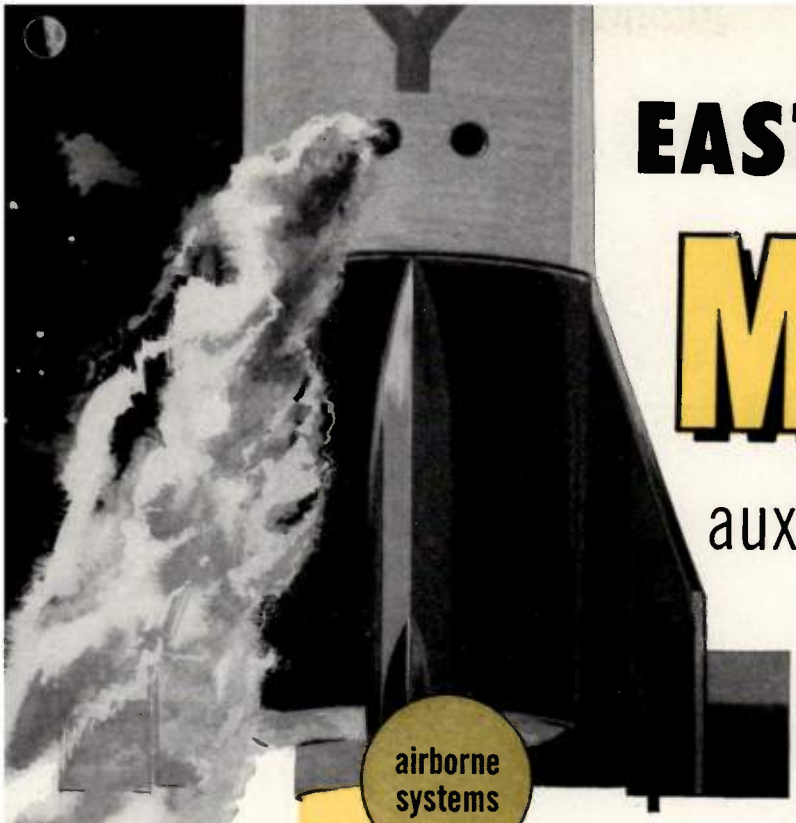
Similarly, information sheets on circuit application and design are made available.

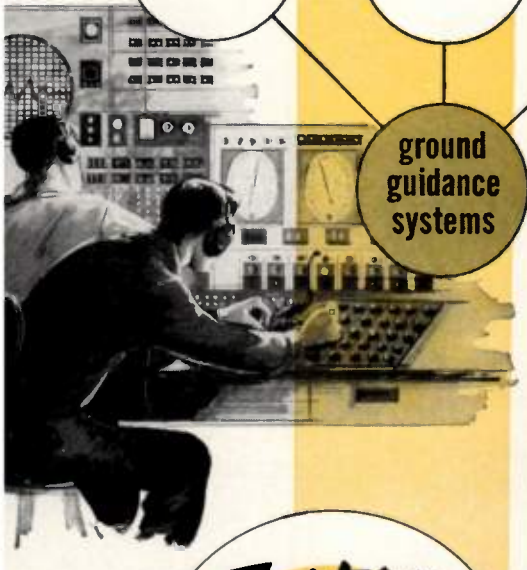
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Series	Maximum Amps	Maximum KVA	Line Volts
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20	3.0	.36-1.2	120-240
116	6.5-7.5	.78-3.6	120-240
117	8.5-13.0	1.5-5.4	120-240
216	2.6-3.0	.62-2.9	240-480
217	3.5-6.3	1.2-5.2	240-480
136	20.0-40.0	2.4-9.7	120-240
236	9.0	2.1-8.7	240-480
1156C	45.0-270	5.4-131	120-240
1256C	28.0-224	6.7-217	240-480

10 SERIES

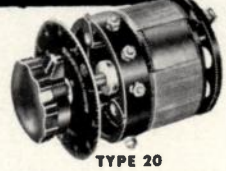


TYPE 10
INPUT: 120 volts, 60 cycles, 1 phase. OUTPUT: 0-120/132 volts, 1.25 amperes, .165 KVA. For back-of-panel.



TYPE 2PF10
INPUT: 120 volts, 60 cycles, 1 phase. OUTPUT: 0-132 volts, 1.0 amperes, .132 KVA.

20 SERIES

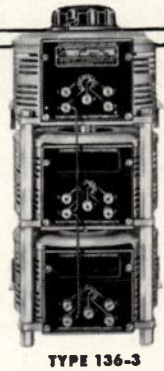


TYPE 20
INPUT: 120 volts, 60 cycles, 1 phase. OUTPUT: 0-120/140 volts, 3.0 amperes, .42 KVA. For back-of-panel.

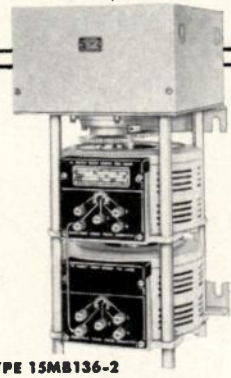
136, 236 SERIES



TYPE 136
INPUT: 120 volts, 50/60 cycles, 1 phase. OUTPUT: 0-120/140 volts, 20 amperes, 2.8 KVA.



TYPE 136-3
INPUT: 240 volts, 60 cycles, 3 phase. OUTPUT: 0-240/280 volts, 20 amperes, 9.7 KVA.



TYPE 15MB136-2
INPUT: 1 phase, 240 volts, 50/60 cycles. 3 phase, 120 volts, 50/60 cycles. OUTPUT: 1 phase, 0-240/280 volts, 5.6KVA. 3 phase, 0-120/140 volts, 4.8 KVA.

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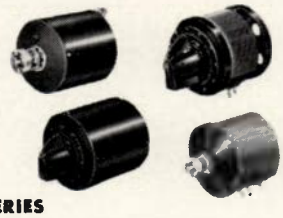
TYPE 0-116
INPUT: 120 volts, 50/60 cycles, 1 phase. OUTPUT: 0-120/140 volts, 15 amperes, 2.1 KVA. For oil-cooled operation.



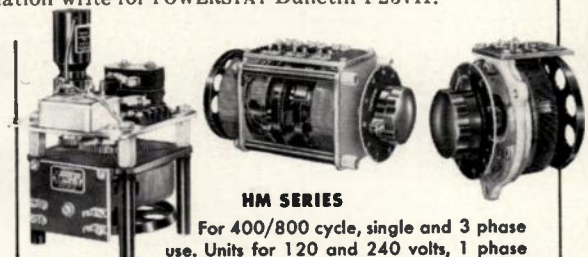
TYPE X-116
INPUT: 120 volts, 50/60 cycles, 1 phase. OUTPUT: 0-120/140 volts, 7.5 amperes, 1.0 KVA. Explosion-proof for hazardous locations.

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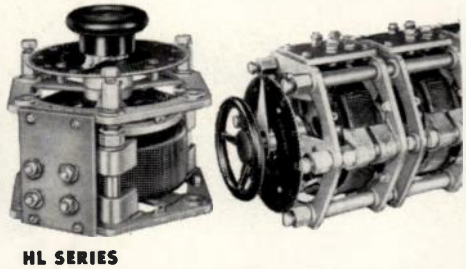
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HM SERIES
For 400/800 cycle, single and 3 phase use. Units for 120 and 240 volts, 1 phase ... 240 and 480 volts 3 phase service. All units with terminal connections to provide output voltages limited to input voltages, or output voltages above input voltages. Ratings from .42 to 3.6 KVA.



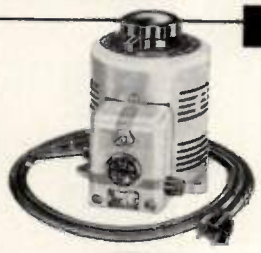
HL SERIES
For 400/800 cycle, single and 3 phase use. Manually operated and motor-driven models, single phase units operate from 120 and 240 volt lines. Three phase connected to 240 or 480 volt lines. Input terminals provide choice equal to or 17% higher than line voltage. Ratings from 2.1 to 8.7 KVA.

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STAT®

116, 117, 216 & 217 SERIES



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TYPE Q116U

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TYPE EN216-2

*Aluminum case provides dust-tight enclosure. INPUT: 1 phase, 480 volts, 50/60 cycles. 3 phase, 240 volts, 50/60 cycles. OUTPUT: 1 phase, 0-560 volts, 2.6 amperes. 3 phase, 0-280 volts, 2.6 amperes.



TYPE 117

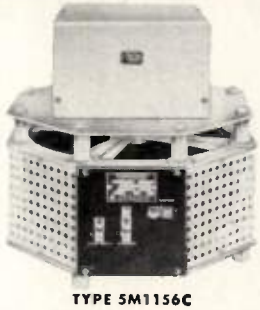
INPUT: 120 volts, 60 cycles, 1 phase. OUTPUT: 0-120 volts, 10.0 amperes, 1.2 KVA (constant-current); 0-120 volts, 13.0 amperes, 1.6 KVA (constant-impedance).

1156C, 1256C SERIES



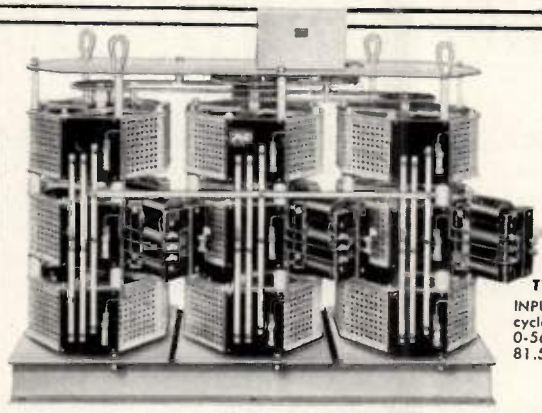
TYPE 1156C

INPUT: 120 volts, 50/60 cycles, 1 phase. OUTPUT: 0-140 volts, 45 amperes, 6.3 KVA.



TYPE 5M1156C

Motor driven. Speed for full range travel 5 seconds. Other characteristics similar to Type 1156C.



TYPE 30M1256C-9Y

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VOLTBOX A-C POWER SUPPLIES



TYPE UC1M

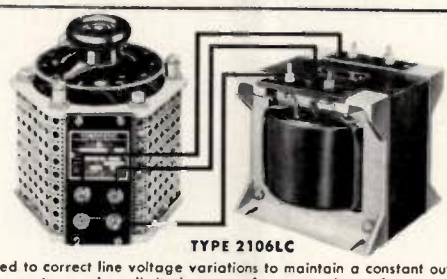
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OUTPUT: 115 volts, 52 amperes, 6.0 KVA.

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POWERSTAT high frequency types Bulletin P257H.
POWERSTAT variable transformer Bulletin P258G, 100 pages in 4-color giving dimensions, mounting instructions, construction details and ratings of POWERSTATS for 50/60 cycle service.

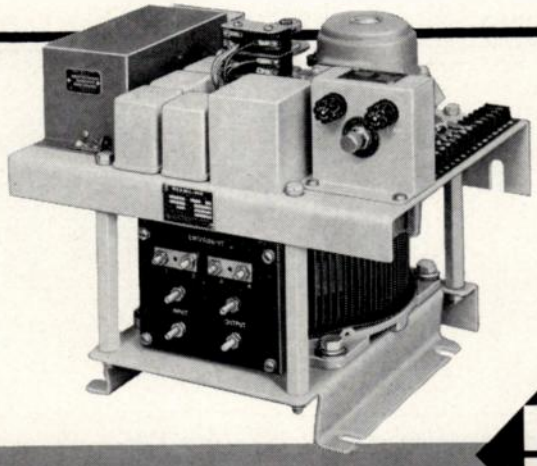
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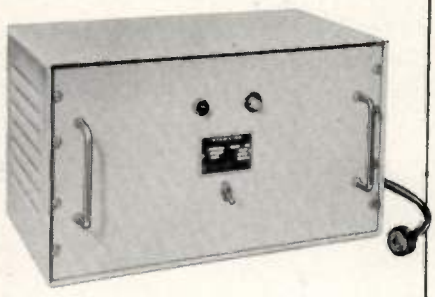
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For complete information, construction details and ratings write for a Bulletin.
Type IE — Bulletin S358IE
Type EMT — Bulletin S358EMT
Type TM — Bulletin S358TM

For details, circle #38 on Reader Service Card

STABILINE type IE
Instantaneous Electronic

Type IE is completely electronic without moving parts. It provides complete correction in 3 to 10 cycles in the smaller units . . . in 10 to 20 cycles in the larger units. Rated outputs range from .25 to 10 KVA.



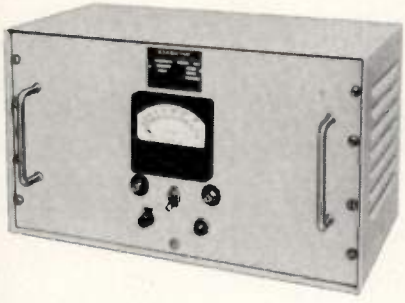
TYPE IE5101
INPUT: 95-135 volts, 60 cycles, 1 phase.
OUTPUT: 115 volts, 8.5 amperes, 1.0 KVA.



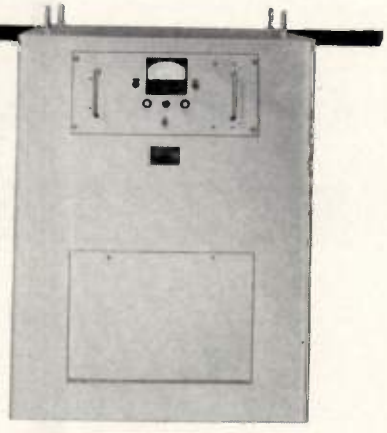
TYPE IE5102R
INPUT: 95-135 volts, 60 cycles, 1 phase.
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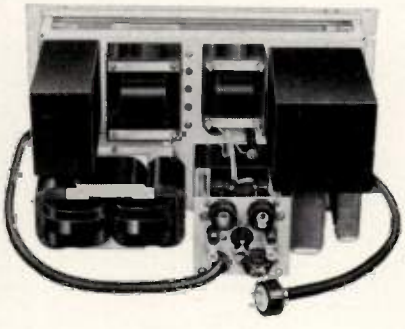
TYPE EMT4102
INPUT: 95-135 volts, 50/60 cycles, 1 phase.
OUTPUT: 115 volts, 17.5 amperes, 2.0 KVA.



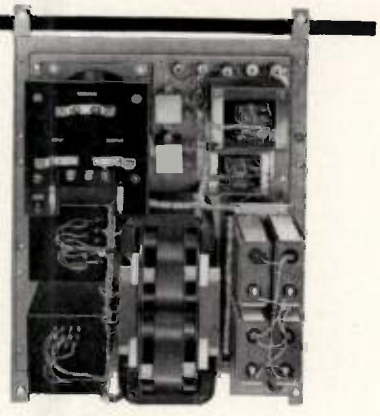
TYPE EMT6475Y
INPUT: 400-520 volts, 50/60 cycles, 3 phase.
OUTPUT: 460 volts, 100 amperes, 75 KVA.

STABILINE type TM
Tubeless Magnetic

Type TM has no tubes, transistors or moving parts. It is used in unattended locations or where failure cannot be tolerated. Its response time under ordinary changes is less than ½ second; always under 1 second.



TYPE TM7101R
INPUT: 95-135 volts, 60 cycles, 1 phase.
OUTPUT: 115 volts, 8.5 amperes, 1.0 KVA.
Rack mounting.



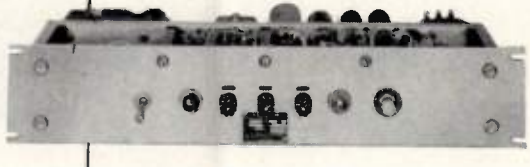
TYPE TM7105 (Cabinet removed)
INPUT: 95-135 volts, 60 cycles, 1 phase.
OUTPUT: 115 volts, 43.5 amperes, 5.0 KVA.

STABILINES for High Frequency Application

Stabiline models for high frequency use provide savings in size and weight. Built to meet military specifications.



TYPE IEH5101, TYPE TMH7101 — for high frequency
INPUT: 95-130 volts, 400 cycles, 1 phase.
OUTPUT: 115 volts, 1.0 KVA.



TYPE IEH5101R — for high frequency
INPUT: 95-130 volts, 400 cycles, 1 phase.
OUTPUT: 115 volts, 1.0 KVA. Rack mounting.

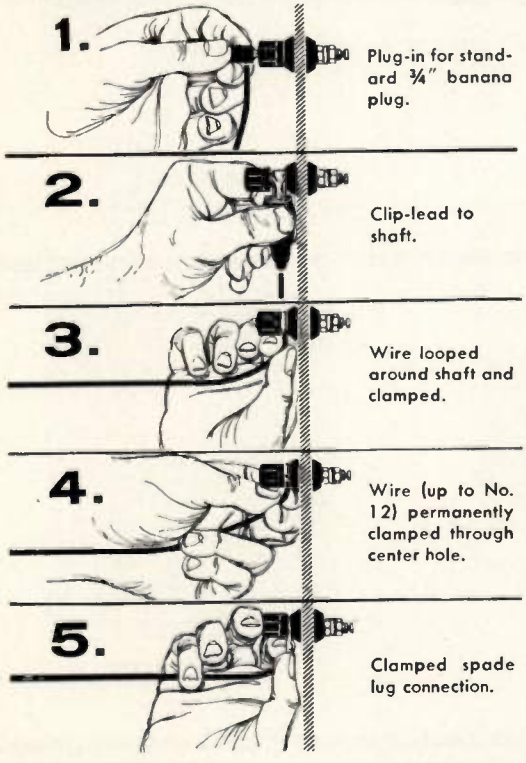


SUPERIOR 5-way BINDING POSTS

GOLD PLATED — *For quicker solder connections with maximum electrical contact . . . corrosion resistance.*

6 COLORS — *For more attractive panels, easier circuit identification.*

5 WAYS TO CONNECT



1. Plug-in for standard ¾" banana plug.
2. Clip-lead to shaft.
3. Wire looped around shaft and clamped.
4. Wire (up to No. 12) permanently clamped through center hole.
5. Clamped spade lug connection.



SHOWN 4 TIMES ACTUAL SIZE

These are the original SUPERIOR 5-WAY Binding Posts and are the first choice of makers of electrical and electronic equipment. Their 30 amperes current capacity and 1000 volts working voltage satisfy a wide range of requirements. They can be mounted and securely locked in any panel from 1/16 to 1/4 inch thick. Adapter spacers are available for mounting in thinner panels. Complete insulation from panel is provided.

TYPE	COLOR	TYPE	COLOR
DF30BC	Black	DF30GNC	Green
DF30BLC	Blue	DF30WTC	White
DF30RC	Red	DF30YC	Yellow

Precision Products of

THE SUPERIOR ELECTRIC COMPANY

8000 LEE AVE., BRISTOL, CONNECTICUT



Send for SUPERIOR 5-WAY Binding Post Bulletin BP958 for complete information and mechanical dimensions.

Bulletin
GC-114

Arnold Magnetic Materials

The most complete line in the industry... made by a fully integrated producer

Arnold magnetic materials can answer all your requirements. It is the most complete line in the industry; and in addition, Arnold maintains complete control over every production step from raw materials to finished products. Such a source can bring you advantages in long experience and undivided responsibility, and in unequalled facilities for quality production and control.

● **Let us supply your needs**

PERMANENT MAGNET MATERIALS

Cast Alnico • Sintered Alnico
Arnox • Vicalloy • Cunife

HIGH PERMEABILITY MATERIALS

Tape Wound Cores of Deltamax, Supermalloy, Permalloy and Supermendur • "C", "E" and "O" Cores of Silectron • Bobbin Wound Cores
Mo-Permalloy Powder Cores • Iron Powder Cores
Sendust Powder Cores • Special Magnetic Materials

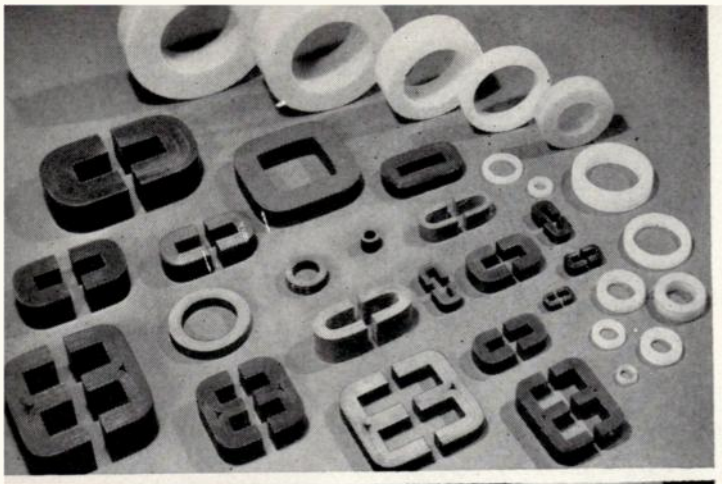
For details, circle #41 on Reader Service Card

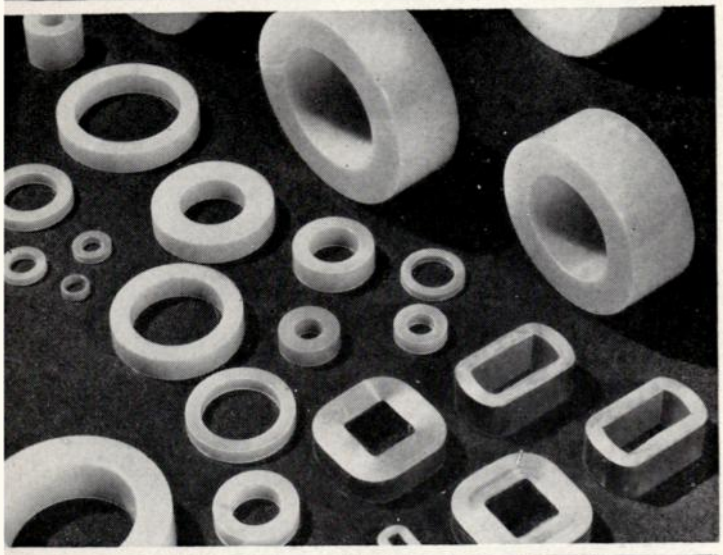
THE ARNOLD ENGINEERING COMPANY

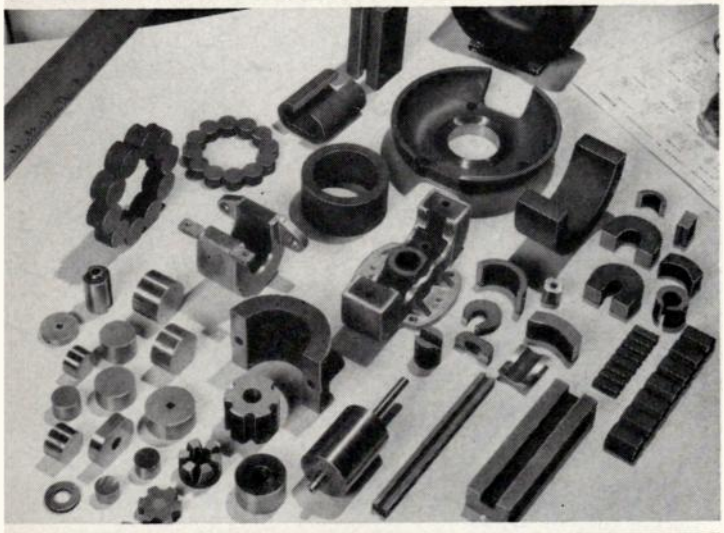
Main Office & Plant: Marengo, Illinois

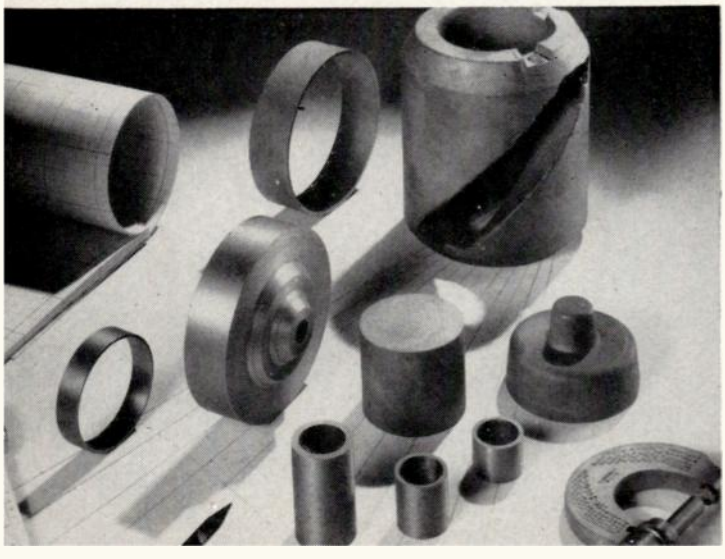
Repath Pacific Division Plant: 641 East 61st Street, Los Angeles, California

District Representation in all Principal Cities









TYPES "C" AND "E" CUT CORES AND TOROIDS OF SILECTRON

Available in more than 500 standard sizes and almost any special size, Arnold "C" and "E" Cores are made from precision-rolled Silectron strip (highly oriented silicon steel) in 1, 2, 4 or 12-mil thicknesses and a wide variety of window sizes and core areas, for high and low-frequency applications. Sizes range from a fraction of an ounce to hundreds of pounds.



Insulated strip of the proper width is wound on a mandrel, then heat treated, bonded and cut into halves. Careful control results in accurately dimensioned and matched core halves whose effective air gap at the butt joint is very small. Rigid standard tests are employed for both "C" and "E" types of cores, and special tests where required.

Write for Bulletin SC-107

TAPE WOUND CORES OF HIGH PERMEABILITY MATERIALS

Depending upon the specific properties required, Arnold Tape Wound Cores are available made of Deltamax, 4-79 Mo-Permalloy, Supermalloy, Mumetal, 4750 Electrical Metal, Silectron, or the new rectangular-loop material, Supermendur. All except Supermendur Tape Wound Cores are available in standard tape thicknesses of 1, 2, 4 or 12-mils and in ultra-thin gauges of ½ and ¼-mil where required. Standard tape thickness of Supermendur cores is 4 mils.

This gapless type of core construction results in maximum effective working permeability with minimum flux leakage. Practically any size core can be supplied, from a fraction of a gram to hundreds of pounds. Toroidal cores are made in 30 standard sizes with protective nylon or aluminum cases. Special sizes of toroidal cores, and all square or rectangular tape wound cores, are produced to individual requirements.

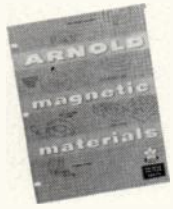


Standard sizes, properties, etc. of Supermendur Tape Wound Cores are contained in Bulletin TC-113A, available upon request.

Write for Bulletin TC-101A

ALNICO MAGNETS—Cast and Sintered

Arnold manufactures permanent magnets from all grades of Alnico, although Alnico V is usually the preferred type due to the high value of energy product of that alloy. Alnico magnets are quite hard and somewhat brittle and may be machined only by grinding. Most sizes and shapes are manufactured as sand castings and are made to the customer's drawings and specifications. Some types and shapes of Alnico magnets are carried in stock.



Some small sizes of magnets may be furnished in sintered Alnico, and a wide range of shapes are carried in stock for quick delivery. Special shapes made in this way, however, require rather expensive dies.

Write for Bulletin GC-106C

VICALLOY PERMANENT MAGNET ALLOY

Vicalloy is a carbon-free permanent magnet alloy containing about 10% vanadium, 50% cobalt and the balance iron. It belongs to the class of alloys which exhibit dispersion-hardening characteristics. As such, its magnetic properties have been attributed to the dispersion of a critical amount of the high temperature phase into the low temperature phase.



Vicalloy may be fabricated in the form of castings, hot rolled bars and forgings or cold rolled strip, wire and tubing. After suitable heat treatment, the material is quite readily machinable. The alloy finds its greatest usefulness in the form of forged rotors, stamped parts and special recording tape. The coercive force, Hc, is about 250 oersteds, the residual induction, Br, is about 7500 gausses and the energy product, (BH) max, is about 0.8 x 10^6.

Write for The Magneteer, Vol. 2, No. 1

When writing for product literature, please specify by Bulletin Number.

For details, circle #42 on Reader Service Card

WRH

BOBBIN CORES

These cores, fabricated by winding ultra-thin tape of high-permeability magnetic materials on ceramic bobbin cores, possess ideal qualities for use in electronic computer assemblies. Their desirable properties include quite rectangular hysteresis loops, relatively low coercive values and high saturation densities; plus temperature stability and the ability to shift in a few microseconds from negative remanence to positive saturation, and vice versa, under conditions of pulse excitation.

Arnold Bobbin Cores are available in a wide range of sizes, tape thicknesses, widths and number of wraps to suit the ultimate use of the core. Magnetic materials usually employed are Deltamax, Square Permalloy and Supermalloy, in standard thicknesses of 1, ½, ¼ and ⅛ mil. Special advantages derive from Arnold's position as a fully-integrated producer of wound cores, able to maintain precise control over every production operation . . . melting, rolling, winding, testing, etc.



Write for Bulletin TC-108A

MO-PERMALLOY POWDER CORES

These toroids provide high Q in a small volume, characterized by low eddy current and hysteresis losses.

Arnold Mo-Permalloy powder cores are supplied in four standard permeabilities: 125, 60, 26 and 14 Mu. They provide constant permeability over a wide range of flux density. The 125 Mu cores are recommended for use up to 15 kc; the 60 Mu at 10 to 50 kc; the 26 Mu at 30 to 75 kc; and the 14 Mu at 50 to 200 kc. Many of these cores may be furnished stabilized to provide constant permeability (±0.1%) over a specific temperature range.

Arnold Mo-Permalloy powder toroids are available in a wide range of sizes, to obtain nominal inductances as high as 281 mh/1000 turns. They are given various types of enamel and varnish finishes, some of which permit winding with heavy Formex insulated wire without supplementary insulation over the core.



Write for Bulletin PC-104B

IRON POWDER CORES

Arnold quality control of iron powder cores includes the maintaining of rigid electrical, physical and dimensional specifications unmatched in the industry. A wide selection of cores is available, from simple cylinders to special cores of complicated design. The line includes all standard types and sizes of threaded cores, cup, sleeve, slug and cylindrical insert cores: for use in antenna and RF coils, oscillator coils, IF coils, perm tuning, FM coils, television RF coils, noise filter coils, induction heating and bombarder coils, and other low frequency applications. A standard series of iron powder toroids is also manufactured, conforming to the standard sizes proposed by the Metal Powder Association.



Write for Bulletin PC-109

SENDUST POWDER CORES

Sendust Powder Cores are available in a wide selection of sizes, ranging from .800" O.D. to 3.346" O.D., and in permeabilities of 10, 13, 25, 30, 50 and 80, although not all sizes are available in all permeabilities.

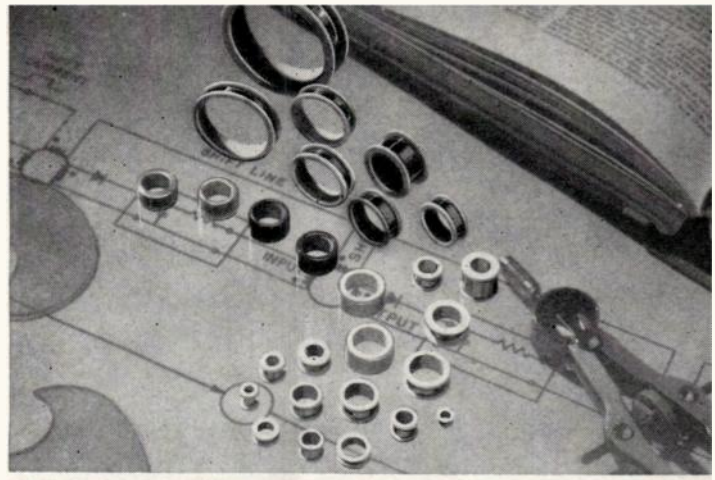
Sendust cores possess magnetic properties that are generally superior to iron powder cores, but inferior to Mo-Permalloy powder cores in the audio and carrier frequency range. The eddy current loss for Sendust cores is lower than that of Mo-Permalloy powder cores, but the hysteresis loss of Sendust cores is substantially higher, and they also have higher values of electrical resistivity. In other characteristics of powder cores, the two types are somewhat similar, but Sendust cores contain no scarce or strategic materials and can offer a core source in times of alloy shortage.



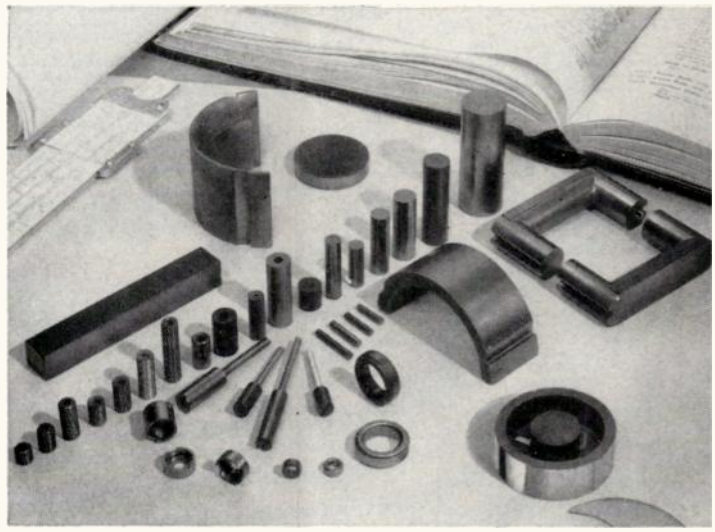
Write for Bulletin SDC-110

When writing for product literature, please specify by Bulletin Number.

For details, circle #43 on Reader Service Card.









SPECIAL MAGNETIC MATERIALS

Write for Technical Bulletins

Arnox is a molded type magnet having high coercive force and moderately low residual induction and energy product. Principal uses are for magnetic requirements which are not stringent, and for a relatively short magnet of reasonable cross section. Accurate dimensions and close tolerances can be economically obtained. These magnets can be premagnetized before assembly, and have very high resistance to demagnetization. Slightly better magnetic properties are obtained in the pressing direction than in other directions.

Cunife is a permanent magnet alloy of copper, nickel and iron which is malleable, ductile and machinable, even after it has been age hardened. The magnetic properties of Cunife are developed by cold working and are directional with the best magnetic properties found only in the smaller sizes of rods or wires.

Vibralloy is a permanent magnet alloy of nickel, molybdenum and iron whose temperature coefficient of elastic modulus is controllable over a wide range. It has high ferromagnetic permeability, and a rather high coefficient of magnetostriction. It is manufactured in the form of cold rolled strip and cold reduced rod and bar stock. It is used in those types of applications where a zero or controlled thermo-elastic coefficient is desired.

Specialists in Magnetic Materials



THE ARNOLD ENGINEERING COMPANY

Subsidiary of Allegheny Ludlum Steel Corporation

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AMPLIFIERS: *From 2.5 millivolts/inch. From DC to milli-microseconds.*

SWEEPS: *Trigger or repetitive. From μs to seconds.*

WEIGHTS: *From 5 pounds up.*

SIZE: *From 1/5 cubic foot.*

CONSTRUCTION: *Rugged through MIL itary.*

PRICE: *From $80.*

CATHODE RAY TUBES

SCREENS: *Rectangular from 3 x 1 1/2 inches. Round from 3 inches.*

LENGTH: *From 7 inches short.*

PHOSPHORS: *P1, P2, P7, P11.*

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PANELSCOPE* PANELPACK* POCKETSCOPE*
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. . . And Other Associated Equipment

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KÄHLE HAS CUSTOM-BUILT OVER 1,000 DIFFERENT TYPES OF MACHINES!

For Precision

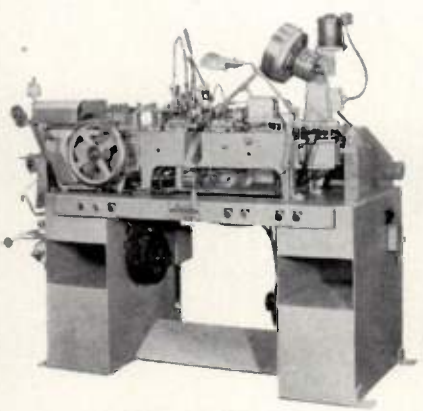


CRYSTAL GROWING MACHINES
- Produce single crystal billets.
- Sizes to 30" pull.
- Resistance or RF heating.

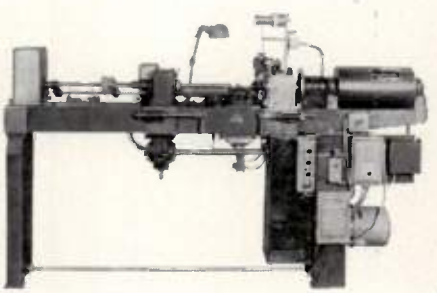


SEMI-AUTOMATIC GLASS DIODE SEALING MACHINES
- Use tungsten or molybdenum whiskers.
- Whisker tension set by sensitive weight.
- Production rates to 400 per/hr.

For Precision



AUTOMATIC LEAD WIRE WELDING MACHINES
- Produce 3-piece lead wires.
- Fully automatic.
- Production rates to 12,000 per/hr.



GRID WINDING MACHINES
- Make high precision grids.
- Constant and variable pitch.
- To 500 T. P. I. and over.

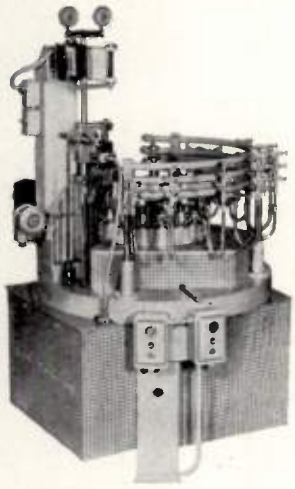
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KÄHLE
ENGINEERING COMPANY

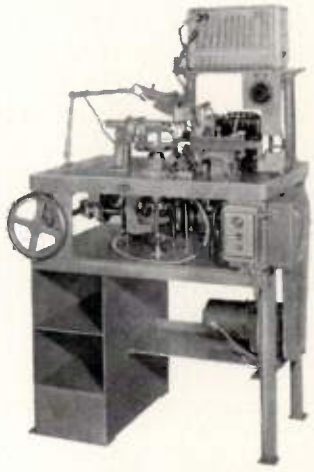
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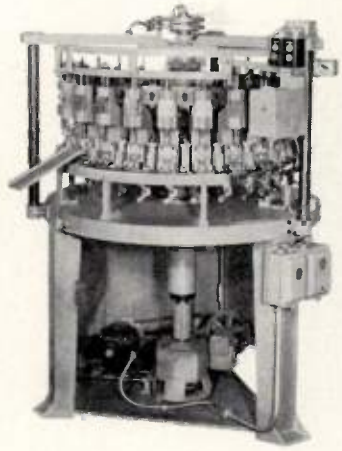
Semiconductor Production



GLASS DIODE BODY MAKING MACHINES
- Automatically make glass encapsulating bodies.
- Hold exact O.D., length, concentricity.
- Production rates to 1500 per/hr. and higher.



CAT WHISKER WELDING MACHINES
- Feed, cut, form, weld cat whiskers.
- Make either "S" or "C" forms.
- Production rates to 3000 per/hr.



AUTOMATIC GLASS DIODE SEALING MACHINES
- Make final assembly and seal.
- 24 head rotary turret-type machine.
- Production rates to 1500 per/hr.



GLASS DIODE BEADING MACHINES
- Produce concentric beaded leads.
- Fully automatic.
- Production rates to 1500 per/hr. and higher.

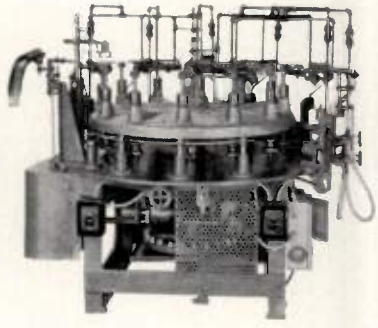
Electronic Tube Production



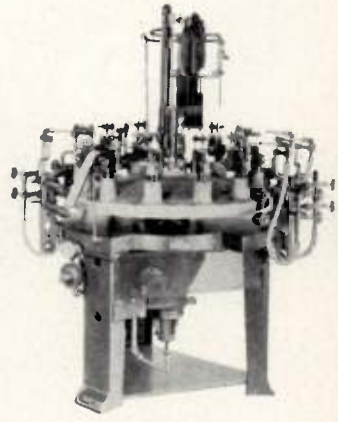
AUTOMATIC EXHAUST MACHINES
- Available with 16, 24, 32, 48 heads.
- One of complete line of exhaust machines.
- Production rates to 2000 per/hr.



BUTTON STEM MACHINES
- Produce stems with short lead wires.
- Dual motor drive.
- Production rates to 1000 per/hr.



HERMETIC SEAL MACHINES
- Make 2, 4, 8 terminal discs.
- 12 head double drive type illustrated.
- Production rates to 1500 per/hr.



BULB TUBULATING MACHINES
- Automatic tubulating and unloading.
- Loaded by hand.
- Production rates to 2400 per/hr.

For Printed Circuit Assembly and All Other Production Requirements

Precision is the keynote of all electronic production . . . and *precision performance* is the reason why more manufacturers rely on Kahle machines.

Kahle offers manufacturers a competent, experienced source . . . which will completely design, engineer and fabricate production machinery for any phase of electronic manufacturing. And Kahle offers an important *exclusive* . . . a "No-Risk" Machine Building Service . . . every Kahle machine must perform satisfactorily, under conditions simulating your actual production conditions, *before* it is shipped to you.

The scope of Kahle "know-how" is only barely indicated by the machines shown above . . . check with Kahle *first* before you decide to build or buy any electronic production machinery! Benefit from Kahle's "No-Risk" Machine Building Service!

Outline your production needs in a short letter . . . let Kahle's engineers do the rest.

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PLANTS: *Seventh Street, North Bergen N. J. • Hudson Avenue, Union City, N. J.*

ALLIED'S HERMETICALLY SEALED RELAYS



MECHANICAL SPECIFICATIONS										ELECTRICAL SPECIFICATIONS			
ALLIED TYPE	TYPE OF TERMINAL	MAXIMUM OUTLINE DIMENSIONS AA	A	B	C	WT. (OZ.)	MOUNTING DIMENSIONS D	E	TYPE MOUNTING	CONTACT RATING (AMPS.)	CONTACT FORM MAX.	COIL DATA MAX. D.C. OHMS	OPER
ASH	SOLDER	2 7/16	2 1/16	1 5/8	1 7/16	3.5	.938	1.187	(3)#6-32 Studs	5	SPDT	3500 3485	AC DC
ASHO	PLUG-IN	3	2 27/64	1 5/8	1 7/16	4			Octal Plug-in	5	SPDT	3500 3485	AC DC
BJHR	SOLDER	3 3/32	2 45/64	1 49/64	1 3/8	7.5	.875	1.625	(3)#6-32 Studs	5	DPDT	3700 5000	AC DC
BJHRO	PLUG-IN	3 5/16	2 3/4	1 49/64	1 3/8	7.5			Octal Plug-in	5	DPDT	3700 5000	AC DC
BOH	SOLDER	3 3/32	2 53/64	2 9/32	2 9/32	7.5	1.856	1.856	(4).206 Dia. Holes	10	DPDT	2675 5000	AC DC
BOHO	PLUG-IN	3 17/32	2 31/32	2 13/64	DIA.	8			Octal Plug-in	5	DPDT	2675 5000	AC DC
BOHR	SOLDER	3 1/16	2 11/16	1 51/64	1 43/64	8.5	1.250	1.250	(3)#8-32 Studs	10	DPDT	2675 5000	AC DC
BOHRO	PLUG-IN	3 13/64	2 41/64	1 51/64	1 43/64	8.5			Octal Plug-in	10	DPDT	2675 5000	AC DC
BOYH	SOLDER	3 3/32	2 53/64	2 9/32	2 9/32	8.5	1.856	1.856	(4).206 Dia. Holes	10	DPDT	10,000	DC
BOYHR	SOLDER	3 1/16	2 11/16	1 51/64	1 43/64	8.5	1.250	1.250	(3)#8-32 Studs	10	DPDT	10,000	DC
BOYHRO	PLUG-IN	3 13/64	2 41/64	1 51/64	1 43/64	8.5			Octal Plug-in	10	DPDT	10,000	DC
CNAH	SCREW	4 31/64	3 19/64	2 31/32	2 17/32	22	1.875	2.000	(3)#10-32 Studs	50	SPST	600 4460	AC DC
CH	SOLDER	2 7/64	1 3/4	1 1/2	1 7/16	5	1.187	1.268	(3)#6-32 Studs	10	4PDT	525	DC
DSHR	SOLDER	3 19/64	2 45/64	2 9/32	1 7/16	9.5	.687	1.750	(3)#8-32 Studs	5	DPDT	8,000	DC
KH-3-1D	PLUG-IN	1 1/16	2 7/32	4 9/64	2 3/64	0.33			7 Pin Plug-in	1/2	SPDT SPST NO	1,500	DC
KH-3-2D	PLUG-IN	1 1/16	2 7/32	4 9/64	2 3/64	0.33			7 Pin Plug-in	1/2	SPDT SPST NC	1,500	DC
KH-6D	PLUG-IN	1 7/64	2 3/64	.396	.800	0.33			8 Pin Plug-in	1/2	DPDT	5,000	DC
KHY-6D	SOLDER	1.096	.896	.797	.359	0.5	1.000	.125	(4).096 Dia. Holes	3	DPDT	10,000	DC
LKH-6C	SOLDER	3 19/32	3 13/64	2 25/32	2 25/32	8.5	1.375	1.500	(3)#6-32 Studs	2	6PDT	11,000	DC
LKH-4C	SOLDER	3 1/32	2 21/32	1 5/8	1 7/16	6	.938	1.187	(3)#6-32 Studs	2	4PDT	11,000	DC
LKHO	PLUG-IN	3 27/64	3	1 5/8	1 7/16	5.5			Octal Plug-in	2	DPDT	11,000	DC
MEH-6	SOLDER	2 5/64	1 27/32	1 3/8	1	3	.672	1.047	(3)#6-32 Studs	5	DPDT	1330 2930	AC DC
MEHG	PLUG-IN	2 7/32	1 27/32	1 3/8	1	3.5	.762	1.165	Note 1 (3)#4-40 Studs	5	DPDT	1330 2930	AC DC
MEHX	SOLDER	2 1/2	2 5/64	1 5/8	1 7/16	5.3	.938	1.187	Note 2 (3)#6-32 Studs	5	4PDT	7260	AC DC
MH-6D	SOLDER	1 53/64	1 23/64	1 3/64	.722	1	CTR CTR	.875	(2) Holes .125 Dia.	5	DPDT	15,900	DC
MH-12	SOLDER	1 23/32	1 23/64	1 43/64	1 1/64	2.5	CTR CTR	1.406	Note 3 (2)#6-32 Studs	5	4PDT	16,000	DC
MH-18	SOLDER	1 25/32	1 23/64	1 53/64	1 9/32	4	CTR CTR	1.562	Note 3 (2)#6-32 Studs	5	6PDT	22,100	DC
MHT-12	SOLDER	2 1/8	1 11/16	1 1/16	DIA.	3	CTR CTR	.625	Note 3 (2)#6-32 Studs	5	4PDT	16,000	DC
MHT-18	SOLDER	2 5/64	1 53/64	1 13/64	DIA.	4.5	CTR CTR	.625	Note 3 (2)#6-32 Studs	5	6PDT	22,100	DC
MHK-12	SOLDER	1 57/64	1 1/2	1 29/64	1 13/64	3.5	.938	1.187	(3)#6-32 Studs	5	4PDT	16,000	DC
MHUO-12	PLUG-IN	1 3/4	1 23/64	1 43/64	1 5/64	2.5	CTR CTR	1.406	Note 4 (2) .144 Dia. Holes	5	4PDT	16,000	DC
MHLO-12	PLUG-IN	1 3/4	1 23/64	1 53/64	1 7/64	2.5	CTR CTR	1.531	Note 4 (2) .125 Dia. Holes	5	4PDT	16,000	DC
MHUO-18	PLUG-IN	1 3/4	1 23/64	1 53/64	1 9/32	4.0	CTR CTR	1.562	Note 4 (2) .144 Dia. Holes	5	6PDT	22,100	DC
MHLO-18	PLUG-IN	1 3/4	1 23/64	2 1/64	1 9/32	4.0	CTR CTR	1.687	Note 4 (2) .125 Dia. Holes	5	6PDT	22,100	DC
*MHJ-12	SOLDER	1 23/32	1 23/64	1 43/64	1 5/64		CTR CTR	1.406	(2)#6-32 Studs	5	4PDT	16,000	DC
*MHJ-18	SOLDER	1 23/32	1 23/64	1 53/64	1 7/64		CTR CTR	1.562	(2)#6-32 Studs	5	6PDT	22,100	DC
MHY-12	SOLDER	1 43/64	1 23/64	1 53/64	1 9/32		CTR CTR	1.562	(2)#6-32 Studs	10	4PDT	22,100	DC
PBHW-6	SOLDER	2 37/64	2 13/64	1 51/64	1 43/64	6	CTR CTR	1.468	Note 3 (2)#6-32 Studs	10	DPDT	380 4800	AC DC
PBH-6	SOLDER	2 37/64	2 13/64	1 51/64	1 43/64	6	1.218	1.218	(4)#6-32 Studs	10	DPDT	380 4800	AC DC
PBH-9	SOLDER	2 45/64	2 13/64	1 51/64	1 43/64	6	1.218	1.218	(4)#6-32 Studs	10	3PDT	380 4800	AC DC
PBH-12	SOLDER	2 45/64	2 13/64	1 51/64	1 43/64	6.5	1.218	1.218	(4)#6-32 Studs	10	4PDT	380 4800	AC DC
PBHN-6	PLUG-IN	3 1/8	2 1/8	1 51/64	1 43/64	9	Note 3		"AN" CONNECTOR	10	DPDT	380 4800	AC DC
PBHN-9	PLUG-IN	3 1/8	2 1/8	1 51/64	1 43/64	9	Note 3		"AN" CONNECTOR	10	3PDT	380 4800	AC DC
PBHN-12	PLUG-IN	3 1/8	2 1/8	1 51/64	1 43/64	9.5	Note 3		"AN" CONNECTOR	10	4PDT	380 4800	AC DC
PDH-6	SOLDER	2 7/16	2 3/64	1 5/8	1 7/16	6	.938	1.187	(3)#6-32 Studs	2	DPDT	475 4800	AC DC
PDH-9	SOLDER	2 1/2	2 3/64	1 5/8	1 7/16	6	.938	1.187	(3)#6-32 Studs	2	3PDT	475 4800	AC DC
PDH-12	SOLDER	2 1/2	2 3/64	1 5/8	1 7/16	6.5	.938	1.187	(3)#6-32 Studs	2	4PDT	475 4800	AC DC
PDHG	PLUG-IN	2 53/64	2 5/16	1 5/8	1 7/16	6.5	Note 1		14 Pin Plug (3)#6-32 Studs	2	4PDT	475 4800	AC DC
POHR-9	SOLDER	3 3/8	3 13/64	2 29/32	2 25/32	12	1.375	1.437	(3)#8-32 Studs	10	3PDT	870 5000	AC DC
POHR-12	SOLDER	3 29/32	3 33/64	2 9/32	2 5/32	13.5	1.625	1.812	(3)#8-32 Studs	10	4PDT	870 5000	AC DC
POHRO-12	PLUG-IN	4 1/16	3 1/2	2 5/32	2 5/32	13.5			14 Pin Plug-in	10	4PDT	870 5000	AC DC
PRH	SOLDER	3 13/64	2 29/32	3 5/32	1 7/16	9.5	CTR CTR	2.687	(2) .161 Dia. holes	10	4PDT	620	DC
RSH-3D	SOLDER	2 7/64	1 41/64	1.233	.853	2.0	CTR CTR	.973	(2).125 dia. clearance holes	2	SPDT	14,000	DC
RSH-6D	SOLDER	2 7/64	1 41/64	1.233	.853	2.0	CTR CTR	.973	(2).125 dia. clearance holes	2	DPDT	14,000	DC
RSHO-6D	8 PIN PLUG-IN	2 5/16	1 41/64	1.233	.853	2.0	CTR CTR	.973	8 pin plug-in+keyway+ (2).125 dia. clearance holes	2	DPDT	14,000	DC
RSH-3D	7 PIN PLUG-IN	2 5/64	1 7/8	3/4	DIA.	2.0			7 Pin Plug-in	2	SPDT	14,000	DC
SKH	SOLDER	2 17/32	2 1/16	1 5/8	1 7/16	4.5	.938	1.187	(3)#6-32 Studs	2	4PDT	4,500	DC
SKHO	PLUG-IN	3	2 27/64	1 5/8	1 7/16	5			Octal Plug-in	2	DPDT	4,500	DC
SKHW	SOLDER	2 17/32	2 1/16	1 5/8	1 7/16	4.5	.938	1.187	Note 3 (3)#6-32 Studs	3	4PDT	4,500	DC
SKHG	PLUG-IN	2 37/64	2 5/16	1 5/8	1 7/16	5	Note 1		14 Pin Plug-in(3)#6-32 Studs	2	4PDT	4,500	DC
SKHN	PLUG-IN	3 5/16	2 1/64	1 5/8	1 7/16	6.8	Note 3		"AN" CONNECTOR	2	4PDT	4,500	DC
SWHO	PLUG-IN	2 41/64	2 5/64	1 5/8	1 7/16	5.5			Octal Plug-in	2	DPDT	13,800	DC
SWH	SOLDER	2 7/16	2 5/64	1 5/8	1 7/16	5.5	.938	1.187	(3)#6-32 Studs	2	DPDT	13,800	DC

NOTE 1: Use 14 pin miniature socket

NOTE 2: Two Relays in one enclosure

NOTE 3: Air Force approved

NOTE 4: Sockets available from Allied Control

*NOTE: MHJ type relays are available in all MH type mountings.

For details, circle #48 on Reader Service Card

TYPES OF MOUNTINGS AND TERMINALS



2 STUDS





3 STUDS



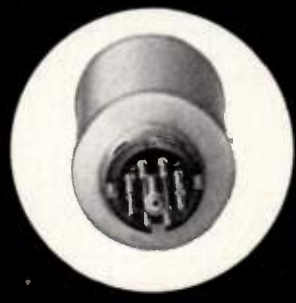
4 STUDS



"AN" PLUG-IN



2 HOLE



OCTAL PLUG



14 PIN PLUG-IN

TYPES OF HOUSINGS









For details, circle #49 on Reader Service Card









OUTLINE DIMENSIONS:



OCTAGON

RECTANGLE OR SQUARE



ROUND

SIDE VIEW

TYPE TERMINALS:



SOLDER TERMINAL

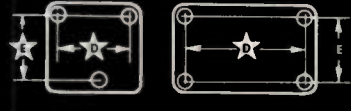
OCTAL 8 PIN PLUG



AN CONNECTOR

14 PIN PLUG-IN

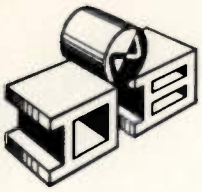
MOUNTING DIMENSIONS:



ALLIED CONTROL

ALLIED CONTROL COMPANY, INC., 2 EAST END AVENUE, NEW YORK 21, N.Y.

AL168



FIRST in MICROWAVE and

Effective Date March 15, 1957
Prices F. O. B. Pasadena, Calif.

Prices subject to change without notice.

Size Designation Frequency Band in KMC Waveguide Nomenclature	DBA 60-90 RG-99/U		DBB 50-75 RG-98/U		DBC 33-50 RG-97/U		DBD 26.5-40 RG-96/U		DBE 18-26.5 RG-53/U		DBF 12.4-18 RG-91/U		DBG 8.2-12.4 RG-52/U		DBH 7.05-10.0 RG-51/U		DBJ 5.85-8.2 RG-50/U		DBK 3.95-5.85 RG-49/U		DBL 2.6-3.95 RG-48/U	
	Cat. No.	Price	Cat. No.	Price	Cat. No.	Price	Cat. No.	Price	Cat. No.	Price	Cat. No.	Price	Cat. No.	Price	Cat. No.	Price	Cat. No.	Price	Cat. No.	Price	Cat. No.	Price
Tube Mounts																						
Klystron Tube Mount													DBG-111-1	$215	DBH-111-1	$225	DBJ-111-1	$260	DBK-111-1	$270	DBL-111-1	$285
Noise Tube Mount with Tube									DBE-140-T	$200			DBG-140-T	$200							DBL-140-T	$250
Transmission Line Components																						
Adaptors, Choke to Cover							DBD-010	$30	DBE-010	$20	DBF-010	$26	DBG-010	$23	DBH-010	$27	DBJ-010	$37	DBK-010	$46	DBL-010	$75
Tapered Transitions	DBAL-018	$225	DBBL-018	$225	DBCE-018	$125	DBDL-018	$225	DBEG-018	$55	DBFG-018	$55	DBGH-018	$65	DBHJ-018	$100	DBJK-018	$100	DBKL-018	$100	DBGL-018	$225
N to Waveguide Transformers											DBF-057	$50	DBG-057	$39	DBH-057	$50	DBJ-057	$55	DBK-057	$61	DBL-057	$83
*Straight Sections	DBA-210	$34	DBB-210	$34	DBC-210	$37	DBD-210	$37	DBE-210	$24	DBF-210	$25	DBG-210	$23	DBH-210	$30	DBJ-210	$37	DBK-210	$47	DBL-210	$73
90° E-Plane Elbows	DBA-224	$31	DBB-224	$34	DBC-224	$39	DBD-224	$39	DBE-224	$39	DBF-224	$33	DBG-224	$31	DBH-224	$39	DBJ-224	$49	DBK-224	$59	DBL-224	$98
90° H-Plane Elbows	DBA-234	$39	DBB-234	$39	DBC-234	$39	DBD-234	$39	DBE-234	$39	DBF-234	$33	DBG-234	$31	DBH-234	$39	DBJ-234	$49	DBK-234	$59	DBL-234	$98
Rotating Joints 90-90							DBD-266-1	$312	DBE-266-1	$312	DBF-266-1	$280	DBG-266-1	$260	DBH-266-1	$338	DBJ-266-1	$338	DBK-266-1	$388	DBL-266-1	$435
Rotating Joints 90-Col.							DBD-266-2	$312	DBE-266-2	$332	DBF-266-2	$311	DBG-266-2	$289	DBH-266-2	$376	DBJ-266-2	$400	DBK-266-2	$468	DBL-266-2	$615
Rotating Joints Col.-90							DBD-266-3	$312	DBE-266-3	$332	DBF-266-3	$311	DBG-266-3	$289	DBH-266-3	$376	DBJ-266-3	$400	DBK-266-3	$468	DBL-266-3	$615
Rotating Joints Col.-Col.							DBD-266-4	$312	DBE-266-4	$332	DBF-266-4	$336	DBG-266-4	$312	DBH-266-4	$376	DBJ-266-4	$400	DBK-266-4	$478	DBL-266-4	$795
90° Twisted Sections	DBA-274	$36	DBB-274	$36	DBC-274	$39	DBD-274	$39	DBE-274	$32	DBF-274	$33	DBG-274	$31	DBH-274	$39	DBJ-274	$49	DBK-274	$59	DBL-274	$110
Bulkhead Flanges	DBA-275	$50	DBB-275	$50	DBC-275	$60	DBD-275	$60	DBE-275	$40	DBF-275	$41	DBG-275	$37	DBH-275	$48	DBJ-275	$61	DBK-275	$74	DBL-275	$108
Bulkhead Flanges with Seals	DBA-275-1	$60	DBB-275-1	$56	DBC-275-1	$60	DBD-275-1	$88	DBE-275-1	$84	DBF-275-1	$80	DBG-275-1	$71								
Pressurizing Units	DBA-276	$49	DBB-276	$49	DBC-276	$49	DBD-276	$49	DBE-276	$41	DBF-276	$40	DBG-276	$38	DBH-276	$48	DBJ-276	$62	DBK-276	$80	DBL-276	$90
Crystal Mounts & Multipliers																						
Crystal Mounts	DBA-310	$83	DBB-310	$83	DBC-310	$83	DBD-310	$83	DBE-310	$83	DBF-310	$83	DBG-310	$65	DBH-310	$66	DBJ-310	$75	DBK-310	$88	DBL-310	$128
Crystal Mounts, Movable Short	DBA-313	$110	DBB-313	$110	DBC-313	$110	DBD-313	$110	DBE-313	$110	DBF-313	$110	DBG-313	$79								
Tunable Crystal Mounts	DBA-319	$214	DBB-319	$214	DBC-319	$214	DBD-319	$214	DBE-319	$214	DBF-319	$208	DBG-319	$170	DBH-319	$184	DBJ-319	$199	DBK-319	$225	DBL-319	$300
Crystal Multipliers			DBBW-350	$387	DBCA-350	$277	DBDB-350	$277	DBEC-350	$277	DBFC-350	$248	DBGE-350	$242	DBHF-350	$280	DBJF-350	$292	DBKG-350	$308	DBLJ-350	$352
Power Absorbing Units																						
Precision Attenuators	DBA-410	$358	DBB-410	$358	DBC-410	$356	DBD-410	$356	DBE-410	$358	DBF-410	$270	DBG-410	$250	DBH-410	$278	DBJ-410	$310	DBK-410	$335	DBL-410	$380
Variable Attenuators, Calibrated	DBA-430-1	$138	DBB-430-1	$138	DBC-430-1	$138	DBD-430-1	$138	DBE-430-1	$138												
Variable Attenuators	DBA-430	$110	DBB-430	$110	DBC-430	$110	DBD-430	$110	DBE-430	$110	DBF-430	$220	DBG-430	$200	DBH-430	$222	DBJ-430	$260	DBK-430	$275	DBL-430	$315
Fixed Attenuators	DBA-440A	$83	DBB-440A	$83	DBC-440A	$83	DBD-440A	$83	DBE-440A	$83	DBF-440A	$58	DBG-440A	$52	DBH-440A	$56	DBJ-440A	$66	DBK-440A	$75	DBL-440A	$120
Low Power Terminations	DBA-450	$45	DBB-450	$45	DBC-450	$45	DBD-450	$45	DBE-450	$45	DBF-450	$33	DBG-450	$28	DBH-450	$33	DBJ-450	$40	DBK-450	$49	DBL-450	$73
Movable Low Power Terminations	DBA-456A	$75	DBB-456A	$75	DBC-456A	$75	DBD-456A	$75	DBE-456A	$68	DBF-456A	$78	DBG-456A	$73	DBH-456A	$85	DBJ-456A	$96	DBK-456A	$110	DBL-456A	$140
Movable Term. with Extension	DBA-456	$92	DBB-456	$92	DBC-456	$92	DBD-456	$92	DBE-456	$85	DBF-456	$103	DBG-456	$93	DBH-456	$110	DBJ-456	$135	DBK-456	$155	DBL-456	$215
Movable Term. with Ext. & Vernier	DBA-456-1	$110	DBB-456-1	$110	DBC-456-1	$110	DBD-456-1	$110	DBE-456-1	$100	DBF-456-1	$127	DBG-456-1	$119	DBH-456-1	$139	DBJ-456-1	$157	DBK-456-1	$184	DBL-456-1	$237
Tunable Low Power Terminations	DBA-459	$175	DBB-459	$175	DBC-459	$175	DBD-459	$175	DBE-459	$175	DBF-459	$153	DBG-459	$143	DBH-459	$161	DBJ-459	$185	DBK-459	$198	DBL-459	$240
High Power Terminations	DBA-460	$90	DBB-460	$90	DBC-460	$90	DBD-460	$90	DBE-460	$90	DBF-460	$89	DBG-460	$73	DBH-460	$88	DBJ-460	$105	DBK-460	$129	DBL-460	$150
Horns																						
Pickup Horns	DBA-510	$83	DBB-510	$83	DBC-510	$83	DBD-510	$83	DBE-510	$83	DBF-510	$72	DBG-510	$71	DBH-510	$75	DBJ-510	$80	DBK-510	$89	DBL-510	$110
Standard Gain Horns, 10, 15 DB	DBA-520	$92	DBB-520	$92	DBC-520	$92	DBD-520	$92	DBE-520	$92	DBF-520	$84	DBG-520	$84	DBH-520	$88	DBJ-520	$95	DBK-520	$116	DBL-520	$140
Standard Gain Horns, 20 DB	DBA-520	$106	DBB-520	$106	DBC-520	$106	DBD-520	$106	DBE-520	$106	DBF-520	$96	DBG-520	$94	DBH-520	$99	DBJ-520	$121	DBK-520	$146	DBL-520	$255
Tees, Junctions and Mixers																						
E-Plane Tees	DBA-610	$50	DBB-610	$50	DBC-610	$58	DBD-610	$57	DBE-610	$51	DBF-610	$41	DBG-610	$38	DBH-610	$46	DBJ-610	$61	DBK-610	$74	DBL-610	$110
Waveguide Switches, 2 Way	DBA-616	$554	DBB-616	$554	DBC-616	$554	DBD-616	$554	DBE-616	$554	DBF-616	$537	DBG-616	$537	DBH-616	$554	DBJ-616	$561	DBK-616	$590	DBL-616	$660
Waveguide Switches, 4 Way	DBA-617	$554	DBB-617	$554	DBC-617	$554	DBD-617	$554	DBE-617	$554	DBF-617	$537	DBG-617	$530	DBH-617	$546	DBJ-617	$554	DBK-617	$561	DBL-617	$647
H-Plane Tees	DBA-620	$50	DBB-620	$50	DBC-620	$58	DBD-620	$57	DBE-620	$51	DBF-620	$41	DBG-620	$38	DBH-620	$46	DBJ-620	$61	DBK-620	$74	DBL-620	$110
Basic Directional Couplers	DBA-630	$110	DBB-630	$110	DBC-630	$110	DBD-630	$110	DBE-630	$77	DBF-630	$61	DBG-630	$50	DBH-631	$67	DBJ-630	$82	DBK-630	$110	DBL-630	$177
Directional Couplers, Flg. to Term.	DBA-631	$139	DBB-631	$139	DBC-631	$139	DBD-631	$139	DBE-631	$89	DBF-631	$68	DBG-631	$57	DBH-631	$76	DBJ-631	$94	DBK-631	$119	DBL-631	$195
Directional Couplers, Coax. to Term.											DBF-632	$100	DBG-632	$80	DBH-632	$107	DBJ-632	$134	DBK-632	$166	DBL-632	$215
Directional Couplers, Xtal. to Flg.	DBA-633	$170	DBB-633	$170	DBC-633	$170	DBD-633	$170	DBE-633	$150	DBF-633	$126	DBG-633	$95	DBH-633	$116	DBJ-633	$140	DBK-633	$170	DBL-633	$258
Directional Couplers, Xtal to Term.	DBA-634	$180	DBB-634	$180	DBC-634	$180	DBD-634	$180	DBE-634	$159	DBF-634	$132	DBG-634	$108	DBH-634	$124	DBJ-634	$145	DBK-634	$179	DBL-634	$241
Magic Tees	DBA-650	$83	DBB-650	$83	DBC-650	$83	DBD-650	$83	DBE-650	$66	DBF-650	$56	DBG-650	$52	DBH-650	$66	DBJ-650	$90	DBK-650	$100	DBL-650	$160
Balanced Crystal Mixers	DBA-665	$305	DBB-665	$305	DBC-665	$305	DBD-665	$290	DBE-665	$276	DBF-665	$300	DBG-665	$227	DBH-665	$292	DBJ-665	$305	DBK-665	$305	DBL-665	$365
Frequency Meters																						
Precision Cavity Wavemeters, Reaction Type	DBA-715-1	$500	DBB-715-1	$506	DBC-715-1	$509	DBD-715-1	$500	DBE-715-1	$509	DBF-715-1	$473	DBG-715-1	$457	DBH-715-1	$495	DBJ-715-1	$534	DBK-715-1	$583	DBL-715-1	$809
Absorption Type	DBA-715-2	$530	DBB-715-2	$530	DBC-715-2	$530	DBD-715-2	$530	DBE-715-2	$540	DBF-715-2	$506	DBG-715-2	$490	DBH-715-2	$525	DBJ-715-2	$567	DBK-715-2	$616	DBL-715-2	$855
Transmission Type	DBA-715-3	$518	DBB-715-3	$525	DBC-715-3	$518	DBD-715-3	$518	DBE-715-3	$518	DBF-715-3	$512	DBG-715-3	$496	DBH-715-3	$531	DBJ-715-3	$578	DBK-715-3	$627	DBL-715-3	$864
Reference Cavity, Reaction Type	DBA-715-1A	$490	DBB-715-1A	$490	DBC-715-1A	$490	DBD-715-1A	$490	DBE-715-1A	$490	DBF-715-1A	$457	DBG-715-1A	$440	DBH-715-1A	$479	DBJ-715-1A	$517	DBK-715-1A	$562	DBL-715-1A	$770
Reference Cavity, Absorption	DBA-715-2A	$525	DBB-715-2A	$525	DBC-715-2A	$525	DBD-715-2A	$525	DBE-715-2A	$525	DBF-715-2A	$490	DBG-715-2A	$473	DBH-715-2A	$512	DBJ-715-2A	$550	DBK-715-2A	$600	DBL-715-2A	$814
Reference Cavity, Transmission	DBA-715-3A	$530	DBB-715-3A	$530	DBC-715-3A	$530	DBD-715-3A	$530	DBE-715-3A	$530	DBF-715-3A	$495	DBG-715-3A	$479	DBH-715-3A	$517	DBJ-715-3A	$561	DBK-715-3A	$611	DBL-715-3A	$835
Impedance Meters																						
Precision Standing Wave Detectors, Complete	DBA-825	$560	DBB-825	$560	DBC-825	$560	DBD-825	$514	DBE-825	$514	DBF-825	$500	DBG-825	$440	DBH-825	$445	DBJ-825	$494				
Carriage Units Only	DB-820	$302	DB-820	$302	DB-820	$302	DB-820	$302	DB-820	$302	DB-820	$303	DB-820-1	$248	DB-820-1	$252	DB-820-1	$269				
Waveguide Sections	DBA-821	$181	DBB-821	$181	DBC-821	$181	DBD-821	$154	DBE-821	$184	DBF-821	$152	DBG-821	$138	DBH-821	$157	DBJ-821	$166				
Broadband Probes	DBA-822	$94	DBB-822	$94	DBC-822	$94	DBD-822	$75	DBE-822	$75	DBF-822	$61	DBG-822	$61	DBH-822	$61	DBJ-822	$61				
Phase Shifters, Tuners & Shorts																						
Phase Shifters	DBA-915	$110	DBB-915	$110	DBC-915	$110	DBD-915	$110	DBE-915	$110	DBF-915	$220	DBG-915	$200	DBH-915	$225	DBJ-915	$260	DBK-915	$275	DBL-915	$315
Calibrated Phase Shifters	DBA-915-1	$140	DBB-915-1	$140	DBC-915-1	$140	DBD-915-1	$140	DBE-915-1	$140	DBF-915-1	$270	DBG-915-1	$250	DBH-915-1	$276	DBJ-915-1	$310	DBK-915-1	$335	DBL-915-1	$380
Variable Slab Tuners	DBA-919	$148	DBB-919	$148	DBC-919	$148	DBD-919	$148	DBE-919	$148	DBF-919	$192	DBG-919	$167	DBH-919	$182	DBJ-919	$199	DBK-919	$199	DBL-919	$210
Fixed Shorts	DBA-960	$6.00	DBB-960	$6.00	DBC-960	$6.00	DBD-960	$6.00	DBE-960	$6.00	DBF-960	$6.00	DBG-960	$6.00	DBH-960	$7.00	DBJ-960	$8.00	DBK-960	$9.00	DBL-960	$11.00
Movable Shorts	DBA-969A	$48	DBB-969A	$48	DBC-969A	$48	DBD-969A	$48	DBE-969A	$48	DBF-969A	$53	DBG-969A	$50	DBH-969A	$60	DBJ-969A	$72	DBK-969A	$92	DBL-969A	$110
Movable Shorts with Extension	DBA-969	$58	DBB-969	$58	DBC-969	$58	DBD-969	$58	DBE-969	$58	DBF-969	$77	DBG-969	$72	DBH-969	$94	DBJ-969	$105	DBK-969	$135	DBL-969	$178
Movable Shorts with Ext. & Vernier	DBA-969-1	$82	DBB-969-1	$82	DBC-969-1	$82	DBD-969-1	$82	DBE-969-1	$82	DBF-969-1	$101	DBG-969-1	$96	DBH-969-1	$116	DBJ-969-1	$134	DBK-969-1	$140	DBL-969-1	$202
E-H Plane Tuners	DBA-979	$150	DBB-979	$150	DBC-979	$150	DBD-979	$150	DBE-979	$135	DBF-979	$158	DBG-979	$148	DBH-979	$183	DBJ-979	$200	DBK-979	$242	DBL-979	$345
E-H Plane Tuners with Vernier	DBA-979-1	$198	DBB-979-1	$198	DBC-979-1	$198	DBD-979-1	$198	DBE-979-1	$183	DBF-979-1	$208	DBG-979-1	$196	DBH-979-1	$231	DBJ-979-1	$257	DBK-979-1	$280	DBL-979-1	$398
Accessories																						
Standard Plain Flange	DBA-1000	$2.45	DBB-1000	$2.45	DBC-1000	$2.45	DBD-1000	$2.00	DBE-1000	$2.00	DBF-1000	$1.50	DBG-1000	$1.05	DBH-1000	$1.90	DBJ-1000	$3.85	DBK-1000	$5.25	DBL-1000	$6.15
Standard Choke Flange							DBD-1001	$3.80	DBE-1001	$3.60	DBF-1001	$3.50	DBG-1001	$2.15	DBH-1001	$3.70	DBJ-1001	$5.70	DBK-1001	$8.75	DBL-1001	$13.15
Aluminum Plain Flange													DBG-1002	$1.95							DBL-1002	$6.60
Aluminum Choke Flange													DBG-1003	$2.40							DBL-1003	$14.00
Special Round Flange							DBD-1004	$2.45	DBE-1004	$2.45												
Screw Plain Flange									DBE-1005	$9.05												
Screw Choke Flange									DBE-1006	$8.35												
Adjustable Waveguide Supports, Ultramicrowave	DB-1010	$6.00	DB-1010	$6.00	DB-1010	$6.00	DB-1010	$6.00	DB-1010	$6.00												
Adjustable Waveguide Supports, Microwave											DBF-1010-1	$14	DBG-1010-1	$14	DBH-1010-1	$14	DBJ-1010-1	$14	DBK-1010-2	$14	DBL-1010-2	$14
Waveguide Chassis Mounting Stands	DBA-1012	$10	DBB-1012	$10	DBC-1012	$10	DBD-1012	$10	DBE-1012	$10	DBF-1012	$10	DBG-1012	$11	DBH-1012	$12	DBJ-1012	$14	DBK-1012	$15	DBL-1012	$17
Waveguide Fastening Screws, Pr.	DBA-1020	$1.10	DBB-1020	$1.10	DBC-1020	$1.10	DBD-1020	$1.10	DBE-1020	$1.10	DBF-1020	$1.10	DBG-1020	$1.10	DBH-1020	$1.20	DBJ-1020	$1.50	DBK-1020	$1.40	DBL-1020	$1.65
Waveguide Window Seals	DBA-1100	$33	DBB-1100	$33	DBC-1100	$33	DBD-1100	$33	DBE-1100	$33	DBF-1100	$33	DBG-1100	$33								
Electronic Equipment																						
Noise Diode Power Supplies									DB-2140	$140												
CW-DC AFC Amplifiers									DB-2328	$800												
I.F. Amplifiers									DB-2340	$940												

*Sections One Foot Long or Shorter.
All instruments sizes A through E solid coin silver waveguide.

For details, circle #50 on Reader Service Card

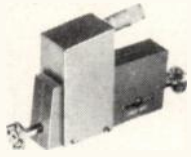
ULTRAMICROWAVE equipment



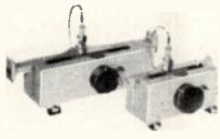
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Here's the newest equipment for 2.6 to 140 KMC—by DeMornay-Bonardi, leaders in microwave instrumentation for 16 years. This advanced line offers you the ultimate in precision, dependability and operating ease. Major items are shown. Deliveries on most items are running 30 days. Ask for latest catalogue containing complete data.



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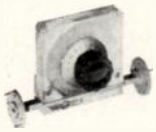
DB-460 High Power Termination



DB-520 Standard Gain Horn



DB-715 Cavity Wavemeter Sealed, Temperature Compensated



DB-915 Phase Shifter 180° Minimum



DB-919 Variable Stub Tuner



DB-969 Movable Short



DB-979-1 E-H Plane Tuner

DE MORNAY BONARDI

780 South Arroyo Parkway, Pasadena, California, U.S.A.

How US SEMCOR assembles a Silicon Diode with ALL STAINLESS STEEL FUSITE TERMINAL



1. *Terminal as supplied by Fusite. V-24 glass and all stainless steel.*



2. *Inside end of straight wire electrode is crimped to a hollow open top shell. (See photo A)*



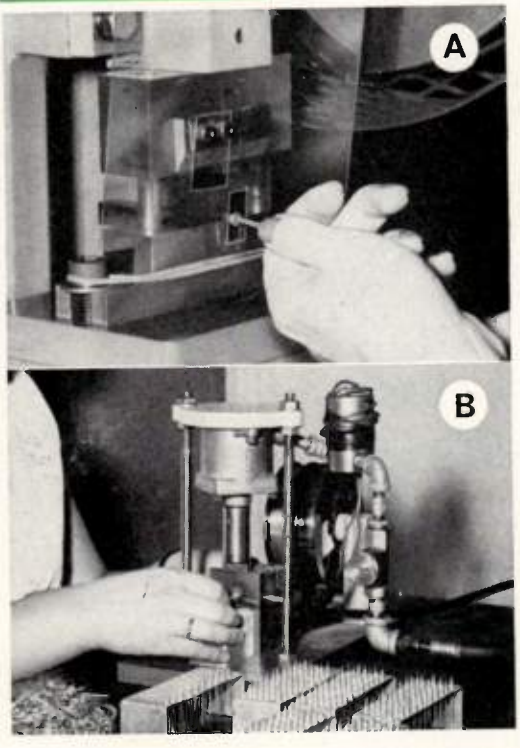
3. *Fraction of an inch of gold wire and aluminum wire are inserted and crimps folded over tight. (See photo B)*



4. *Precision bit of silicon crystal is fused with heat to ends of wire inserts.*



5. *Assembly is enclosed in miniature can and projection welded closed.*



This application is typical of the hundreds of electronic components whose continuing operation is assured by the safety factor of a terminal with electrodes fused into the glass. The resulting rigidly fixed position of the electrode guards against damage to the finished assembly through movement of an electrode depending only on compression for its position in the glass.

Robert A. Rutherford, Vice President of U. S. Semiconductor Products, permits us this direct quotation.

"The Fusite header provides us with a very satisfactory solution to the problem of the lead wires turning in the header. The fused glass to steel has solved this very troublesome problem. The stainless steel material also provides excellent corrosion resistance. Aside from receiving a superior product from Fusite, we have also received very excellent service and a great deal of cooperation from both the company and their representative."

Test samples of any style terminal available on request. Stainless steel available on most Fusite Standard Headers.

Write Dept. H-1

INSULATE ELECTRICALLY · GLASS TO METAL · SEAL HERMETICALLY

FUSITE TERMINALS
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THE FUSITE CORPORATION

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For details, circle #52 on Reader Service Card

HUGHES SEMICONDUCTORS



A COMPLETE LINE
DIODES • TRANSISTORS
RECTIFIERS • CAPACITORS

Hughes is an acknowledged leader in the development and manufacture of semiconductor devices. Today the line is extensive, encompassing all major categories plus literally hundreds of individual types.

Significantly the approach is dynamic, the line ever-changing. Each phase of the Hughes program is devoted to vigorous development of new devices and to improvement of those already in existence. New techniques are incorporated; modern equipment is used throughout; and all persons involved are carefully chosen for the highly specialized work they must do. In no other way can Hughes continue to anticipate and meet the increasing requirements of industry.

The types listed on the following three pages are representative only. If your particular requirements demand a type which does not appear, ask for descriptive literature or a call from one of our sales engineers. Please write:

Hughes Products
Semiconductor Division
International Airport Station
Los Angeles 45, California

FIRST OF ALL, FOR RELIABILITY

HUGHES DIODES



All types are rugged, thermally stable, tiny. They can withstand severe shock and vibration while operating successfully over a wide range of ambient temperatures. And they are packaged in the famous Hughes glass envelope. This envelope of one-piece, fusion-sealed construction was developed at Hughes to provide complete protection from contamination and moisture penetration. Maximum body dimensions: .107" x .265". Leads: .020" x 1", nominal. EIA, JAN, and special types are available to fulfill practically any circuit requirement. Both Germanium point-contact (see below) and Silicon Junction (see right) types available.

STANDARD GERMANIUM

	Forward Current @ +1V (mA min.)	WIV (V max.)	Reverse Current at Specified Test Voltage (μA max.)	(Volts)
1N67A	4.0	80	50	50
1N68A	3.0	100	625	100
1N89	3.5	80	100	50
1N90	5.0	60	500	50
1N95	10.0	60	500	50
1N96	20.0	60	500	50
1N97	10.0	80	100	50
1N98	20.0	80	100	50
1N99	10.0	80	50	50
1N100	20.0	80	50	50
1N116	5.0	60	100	50
1N117	10.0	60	100	50
1N118	20.0	60	100	50
1N126A*	5.0	60	50	10
1N127A*	3.0	100	300	50
1N128*	3.0	40	10	10
1N191	5.0	(Back resistance between −10 and −50V greater than 400 K ohms @ 55°C)		
1N192	5.0	(Back resistance between −10 and −50V greater than 200 K ohms @ 55°C)		
1N198#*	5.0	80	250	50

Storage temperature range: −78°C to +150°C
Operating temperature range: −78°C to +90°C
All measurements @ 75°C. * JAN diodes

TRANSISTORIZED COMPUTER GERMANIUM

These diodes have been developed specifically for use in transistorized digital computers.

	Forward Current @ 0.5V (mA min.)	Reverse Current at 25°C at Specified Test Voltage (μA max.)	(Volts)	Reverse Recovery*
HD2102	5	100	3	.25 μsec From +1mA to −2 Volts
HD2106	1	10	5	
		100	20	
HD2109	3	50	10	.3 μsec From +1mA to −1 Volt

* Measured in Bell Telephone Laboratories test circuit

STANDARD SILICON

	Forward Current @ +1V (mA min.)	E_B** (V max.)	Reverse Current at Specified Test Voltage (μA max.) @ 25°C	@ 150°C	Volts
1N456	40	30	.025	5	25
1N456A	100	30	.025	5	25
1N457*	20	70	.025	5	60
1N457A	100	70	.025	5	60
1N458*	7	150	.025	5	125
1N458A	100	150	.025	5	125
1N459*	3	200	.025	5	175
1N459A	100	200	.025	5	175
1N461	15	30	.5	30	25
1N461A	100	30	.5	30	25
1N462	5	70	.5	30	60
1N462A	100	70	.5	30	60
1N463	1	200	.5	30	175
1N463A	100	200	.5	30	175
1N464	3	150	.5	30	125
1N464A	100	150	.5	30	125

A full forward current range (including higher currents) is available in each voltage class. Storage and operating temperature range: −78°C to +200°C
* JAN diodes
** Breakdown voltage at current of 0.100 mA

QUICK RECOVERY SILICON

	Forward Current @ 1.5V (mA min.)	E_B* (V min.)	Reverse Current at Specified Test Voltage (μA max.) @ 25°C	@ 100°C	Volts
1N625	4	30	1.0	30	20
1N626	4	50	1.0	30	35
1N627	4	100	1.0	30	75
1N628	4	150	1.0	30	125
1N629	4	200	1.0	30	175
HD6642	6	50	1.0	30	35
HD6648	6	100	1.0	30	75
HD6573	6	150	1.0	30	125
HD6649	6	200	1.0	30	175
HD6635	15	50	1.0	30	35
HD6651	15	100	1.0	30	75
HD6641	15	150	1.0	30	125
HD6652	15	200	1.0	30	175

All types recover to 400 K ohms minimum in less than 1 μsec switching 30 mA forward to −35V reverse in the modified IBM "Y" circuit. Also comparable performance under different switching conditions.
Operating temperature range: −78°C to +150°C
Storage temperature range: −78°C to +200°C
* Breakdown voltage at current of 0.100 mA

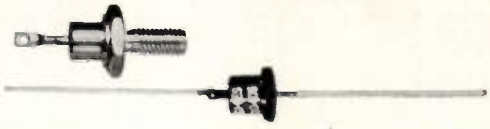
HIGH CONDUCTANCE SILICON

	Average Forward Current @ 25° C	Maximum Forward (mA max.) @ 150°C	Voltage @ 100mA (Volts)	Reverse Current at Specified Test Voltage (μA Max.) @ 25°C	@ 150°C	Volts
1N482	100	25	1.1	.25	30	30
1N482A	200	50	1.0	.025	15	30
1N482B	200	50	1.0	.025	5	30
1N483	100	25	1.1	.25	30	60
1N483A	200	50	1.0	.025	15	60
1N483B	200	50	1.0	.025	5	60
1N484	100	25	1.1	.25	30	125
1N484A	200	50	1.0	.025	15	125
1N484B	200	50	1.0	.025	5	125
1N485	100	25	1.1	.25	30	175
1N485A	200	50	1.0	.025	15	175
1N485B	200	50	1.0	.025	5	175
1N486	100	25	1.1	.25	50	225
1N486A	200	50	1.0	.05	25	225
1N487	100	25	1.1	.25	50	300
1N487A	200	50	1.0	.1	25	300
1N488	100	25	1.1	.25	50	380
1N488A	200	50	1.0	.1	25	380

Operating temperature range: −65°C to +200°C

For details, circle #54 on Reader Service Card

RECTIFIERS



LOW POWER SILICON SERIES

These are efficient rectifiers with voltage ratings up to 975 volts, a low forward voltage drop, and low back leakage. They are capable of handling power values which are large for their size (.107" x .265" maximum, the famous diode package). Typical application: electronic power supplies where they can replace many vacuum tube rectifiers.

MEDIUM POWER SILICON SERIES

Hughes medium power rectifiers provide more power to the load at lower junction temperatures. They also feature a combination of high forward conductance and high breakdown voltage which permits rectifier performance never before achieved in the standard JETEC Group 20 stud mount package (7/16" hex). Lead-mount types are available also.

LOW POWER SILICON RECTIFIERS

	Reverse Working Voltage (VDC max.)	Average Rectified Forward Current (mA max.)
HR10251	175	200
HR10252	225	200
HR10253	275	200
HR10254	325	200
HR10255	375	200
Operating temperature range: −78°C to +150°C Derate average rectified current 1 mA/°C above 25°C		
HR10311	475	200
HR10312	575	200
HR10313	675	200
HR10314	775	200
HR10315	875	200
HR10316	975	200
Operating temperature range HR10311 and HR10312: −65°C to +150°C HR10313 thru HR10316: −65°C to +100°C Derate average rectified current 1.5 mA/°C above 25°C		

CAPACITORS



Hughes silicon capacitors are tiny, reliable devices whose capacitance is determined by the applied DC voltage. They are characterized by high Q and a wide capacitance range. Typical applications: remote control tuning, automatic frequency controls, frequency modulators. Once again, Hughes famous glass envelope is utilized.

SILICON CAPACITORS

	Capacity ±20%* @ −4VDC (μμfd)	Maximum Voltage# (VDC)	Typical Capacity Range (0.1V to Max. Voltage) (μμfd)	Typical Q** @ 5Mc and Max. Voltage	Typical Q** @ 50Mc and Max. Voltage
HC7001	35	130	6 to 88	360	39
HC7002	50	80	12 to 120	330	36
HC7004	70	60	20 to 170	270	30
HC7005	100	25	46 to 240	200	23
HC7006	35	25	14 to 88	175	20
HC7007	50	25	22 to 120	175	20
HC7008	70	25	32 to 170	175	20

Operating Temperature Range: −65°C to +150°C

Maximum Leakage Current (From Bias Voltage Supply): 1.0μA at 25°C; 50μA at 150°C

Capacitance Variation Over Rated Temperature Range: 200 Parts Per Million/°C Max.

* Measured with Tektronix model 130 L.C. meter

** Measured with Boonton Q meter Model 260A

\# Maximum safe biasing voltage which may be applied with the correct polarity only.

MEDIUM POWER SILICON SERIES

Stud-Mount Types					Lead-Mount Types				
	Peak Inverse Voltage (Volts)	Average Rectified Current @ Specified Case Temperature (Amps max.)	(Degrees C)	Average Inverse Current (mA, max.)*		Peak Inverse Voltage (Volts)	Average Rectified Current @ Specified Ambient Temperature (mA max.)	(Degrees C)	Average Inverse Current (mA, max.)*
1N253	95	1.0	135	0.1	1N536	50	250	150	0.4
1N254	190	0.4	135	0.1	1N537	100	250	150	0.4
1N255	380	0.4	135	0.15	1N538	200	250	150	0.3
1N256	570	0.2	135	0.25	1N539	300	250	150	0.3
HR10671	100	3.0	150	0.5	1N540	400	250	150	0.3
HR10673	200	3.0	150	0.5	1N547	600	250	150	0.3
HR10675	300	3.0	150	0.5	HR10422	100	350	100	0.1
HR10677	400	3.0	150	0.5	HR10423	200	350	100	0.1
HR10679	500	2.0	135	0.5	HR10424	300	350	100	0.1
HR10681	600	2.0	135	0.5	HR10425	400	350	100	0.1

* Averaged over one cycle at full rated conditions of current, voltage, and temperature with a resistive load.

HUGHES TRANSISTORS



This is a PNP silicon fused-junction series intended for audio applications at medium power levels. All types have another Hughes first, the metal package with coaxial leads particularly suited for automatic assembly. Because of the unique internal construction of this package, heat is dissipated very efficiently, and each unit can withstand severe vibration, centrifuge, and shock tests. Transistors with the TO-5 package are available.

SILICON TRANSISTORS

	BV_{CEO} @ I_C = −100μA (Volts)	BV_{CBO} @ I_C = −100μA (Volts)	BV_{EBO} @ I_E = −100μA (Volts)	I_{CBO} @ V_{CB} = −5V (μAdc max.)	I_{EBO} @ V_{EB} = −5V (μAdc max.)	F = 270cps, V_{CB} = −5Vdc, I_E = 1mAdc $-h_{fb}$ (min.)	F = 270cps, V_{CB} = −5Vdc, I_E = 1mAdc $f_{\alpha b}$ (mc min.)
HA7501	− 50	− 60	−60	−0.1	−0.1	.800	0.5
HA7502	− 50	− 60	−60	−0.1	−0.1	.930	0.5
HA7503	−110	−110	−20	−0.1	−0.1	.930	0.5
HA7505	− 20	− 20	−20	−0.5	−0.5	.800	0.5
HA7506	− 35	− 35	−35	−0.5	−0.5	.910	0.5
HA7507	− 20	− 20	−20	−0.1	−0.1	.900	1.5
HA7508	− 50	− 60	−20	−0.1	−0.1	.930	0.5
HA7510	− 35	− 35	−35	−0.5	−0.5	.950	0.5

Total transistor power dissipation in free air (derate 4mW per°C above 25°C)	500mW
Total transistor power dissipation with base mounted in a clip attached to an infinite heat sink (derate 16 mW per °C above 25°C)	2W
Junction temperature range	−55°C to +150°C
V_{BE} max. (I_C = 100mAdc, V_{CE} = −2Vdc max.)	3V
V_{CE} max. sat. (I_C = −100mAdc)	2V
h_{ib} max. (F = 270 cps, V_{CB} = −5Vdc, I_E = 1mAdc)	60 ohms
h_{rb} max. (F = 270cps, V_{CB} = −5Vdc, I_E = 1mAdc)	.001
h_{ob} max. (F = 270cps, V_{CB} = −5Vdc, I_E = 1mAdc)	2μmhos

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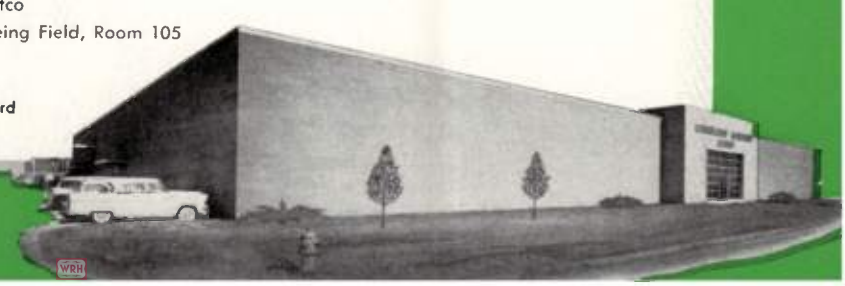
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C-A-C Toroidal Inductors



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Standard and custom designed, open construction. Available on short delivery basis. Utilizing molydenum permalloy, iron, ferrite and tape cores. Sizes range from 1/8-in. I.D. to 6-in. O.D.

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Highly stable, precisely tuned to production tolerances 1% (0.5% on request) at zero D.C. Exceptionally high Q and low dissipation factors. Thermocycled and Hermetically sealed to MIL-T-27A. Stocked for immediate delivery.

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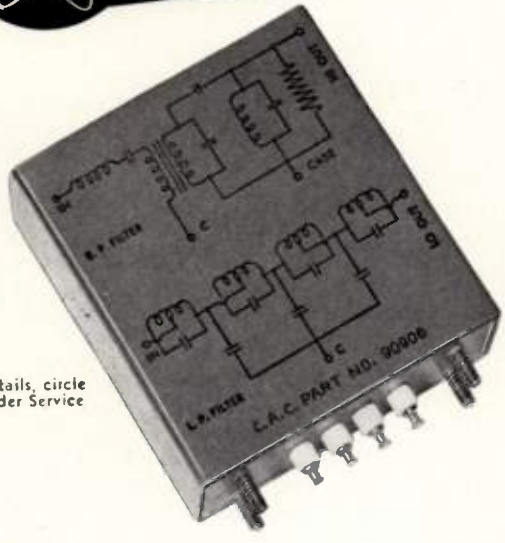
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MPF and HSD for printed circuits are available off the shelfs for frequencies from 1kc to the low megacycle range. Inductances to 4 Henries on high permeability cores. Exhibit comparable characteristics to larger types. Employ both molybdenum and iron cores. Epoxy cast units in many shapes and lead out arrangements from our short order department on custom basis.

Specify C-A-C for your designs.

C-A-C LC Filters



For details, circle #58 on Reader Service

C-A-C offers a wide variety of ready-designed and standard filters of the low-pass, high-pass and band-pass types. C-A-C filters cover frequencies from the low audio to low megacycle ranges. Custom designs feature temperature compensation, matched phase, or impedance characteristics and miniaturization.

Specify C-A-C for your designs.

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• LOW PASS • TELEGRAPH TONE
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Amplifier's operation is substantially same as electrical position servo. At steady state, negligible power is drawn from signal. Power drawn only during signal voltage transition. External behavior dependant on feedback impedance selection and largely independent of line voltage, frequency or temperature.

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• RELAY ACTUATOR



Isolated control inputs facilitate economical logic circuit design. Nearly unlimited combinations of control signals and relay contact arrangements available. Operation can be of the fixed or variable operating point, differential, or multi-input type.

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A sensitive differential magnetic amplifier for use in controlling the temperature of gyro housings and similar airborne devices. Responds to variations in resistance of a wire type sensor. Includes fail safe feature by reducing output when sensor resistances change abnormally high or low. Operates directly from 115 volt, 400 cps supply. Time response less than 0.5 sec. to a 1 ohm step.

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For details, circle #59 on Reader Service Card

• HIGH POWER

• TRANSISTOR DRIVE, HIGH SPEED

• SERVO MOTOR DRIVE

(The above types, as well as a full line of inverters are available. DC to DC and DC to AC, regulated or non-regulated. High power keying units which are a rugged, efficient means of performing critical switching and driving functions are designed for single and polyphase versions.)

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C-A-C Laminated Transformers

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- Filament
- Audi
- Transistor
- Filter Choke
- Saturable Reactor



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Variety of types, sizes and means of packaging is illustrated in the above photograph. The line includes the specific types standardized by the Armed Services Standards Agency as well as a group of standard types for 400 cycle power supplies.

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Specify C-A-C for your designs.

Have you a special design problem? Write for additional technical information or application data.

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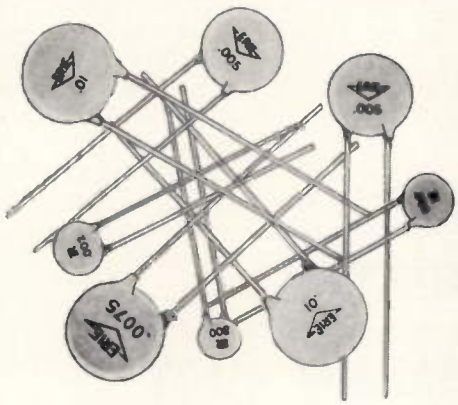
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ERIE *Electronic Components*

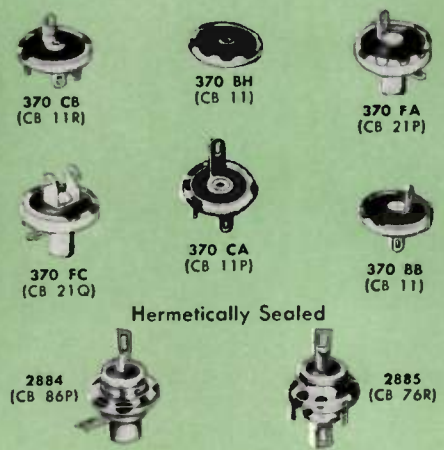
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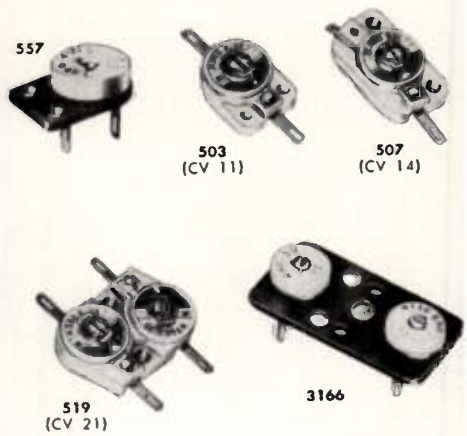
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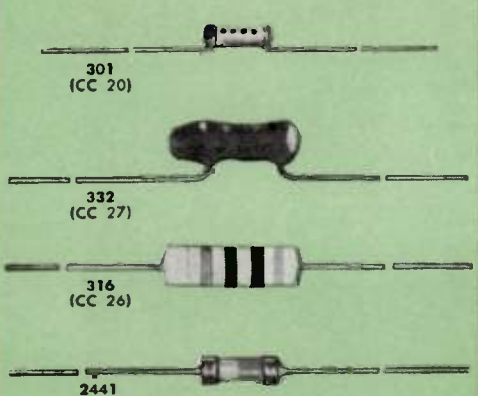


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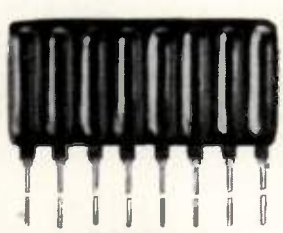


Available in many sizes

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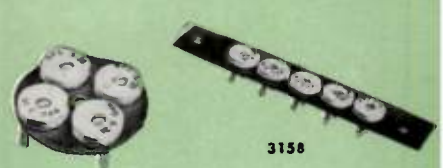


Wire Leads

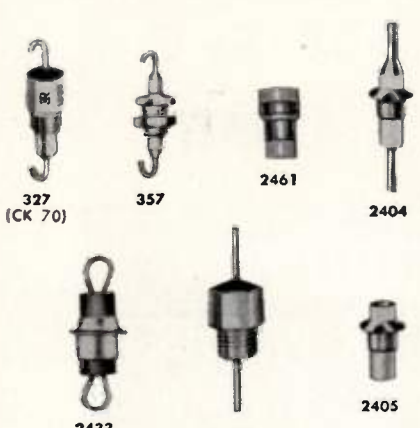
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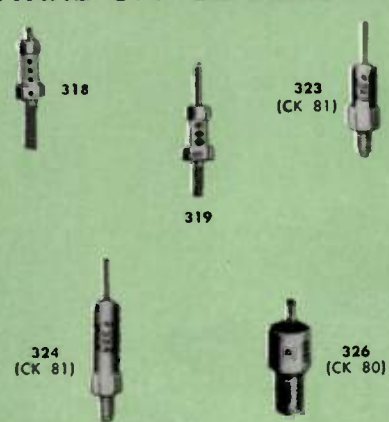
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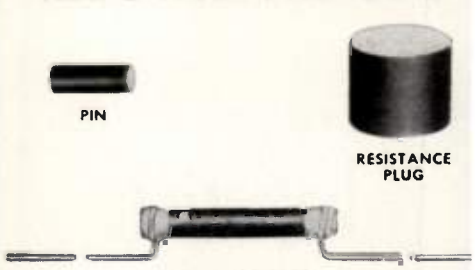


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Featuring Glow Transfer Tube Decade Counters

MODEL 210: TIME INTERVAL METER



MEASURES time intervals directly up to 9.999 seconds in increments of 100 μs or 1000 μs with an accuracy of ± .005% ± 1 count provided by crystal stabilization.
COUNTS random or regular events from 0 p.p.s. to 50,000 p.p.s.
STANDARD FREQUENCIES of 1 KC and 10 KC available from front panel jack.
FEATURES compact size (19" x 3½" x 5") and weighs only 12 pounds.
PRICE: $395.00 f.o.b. factory

MODEL 130: EVENTS PER UNIT TIME METER

MEASURES frequency from 0 to 50,000 c.p.s. with gate times of .1 sec. and 1 sec. (10 sec. optional). The 60 cycle line provides the reference standard with accuracies of about ± .1%.
COUNTS random or regular events from 0 p.p.s. to 50,000 p.p.s.
FEATURES electronic reset, variable display time. 25 m.v. r.m.s. sensitivity. Compact design (19" x 3½" panel, 5" deep). Weighs only 12 pounds.
PRICE: $395.00 f.o.b. factory



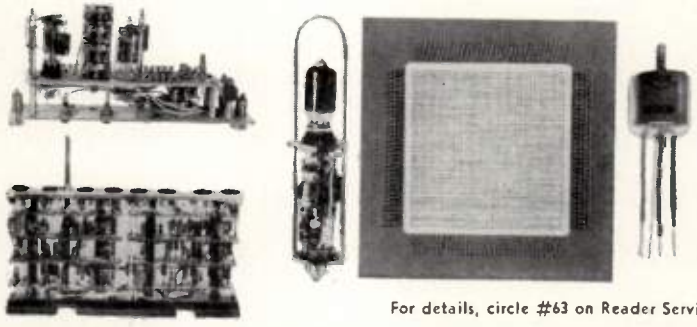
MODEL 400: UNIVERSAL COUNTER TIMER



MEASURES frequency from 1 c.p.s. to 100 KC.
Period of signals up to 1000 c.p.s. (1 or 10 cycles).
Time intervals from 500 μs to 1,000,000 seconds.
COUNTS random or regular events to 100,000 p.p.s.
STANDARD FREQUENCIES—every decade multiple from .1 c.p.s. to 100 KC.
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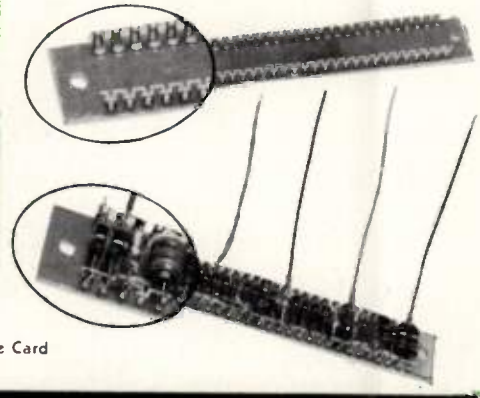
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MINIATURE PULSE TRANSFORMERS



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The ERIE Strip Package System

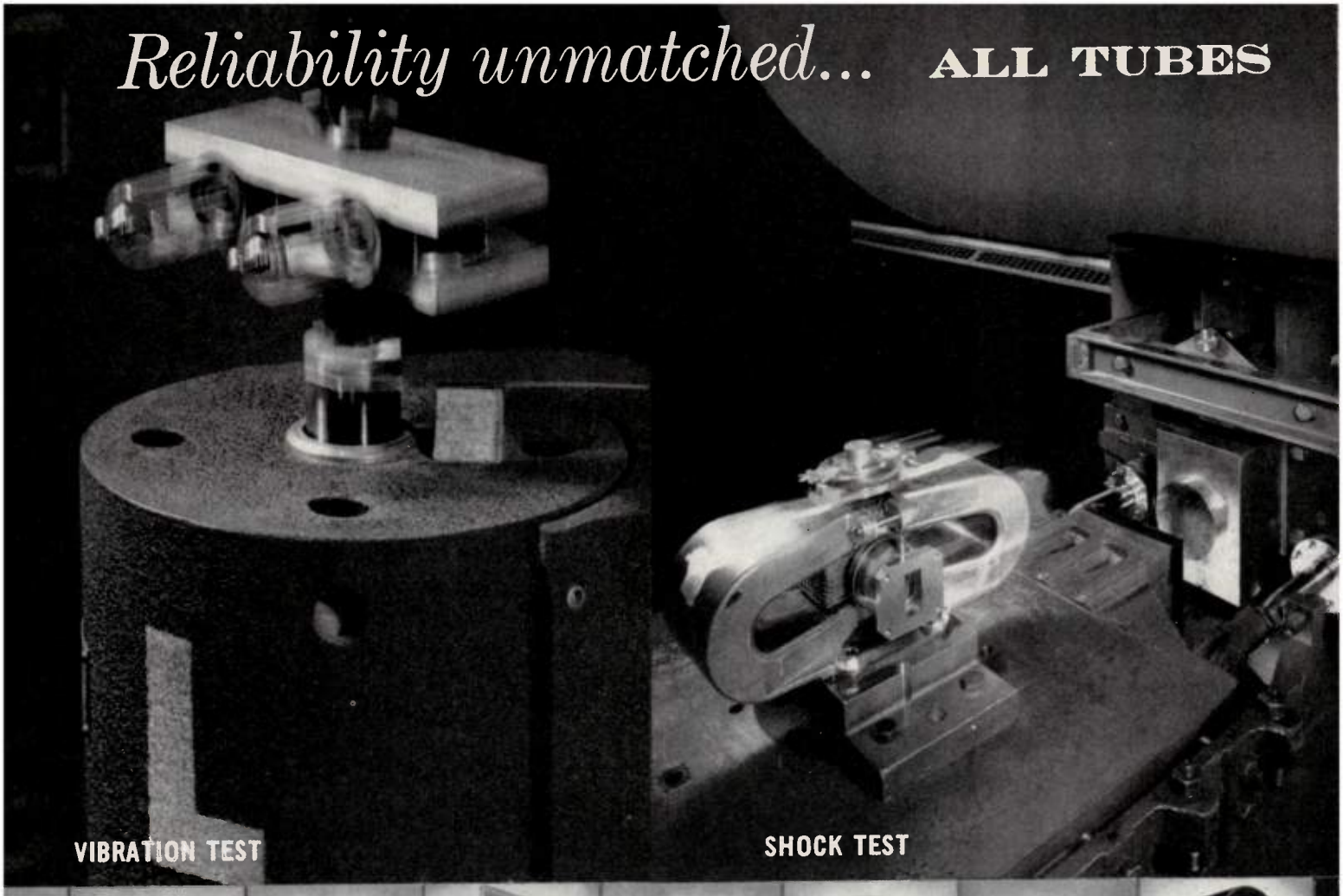


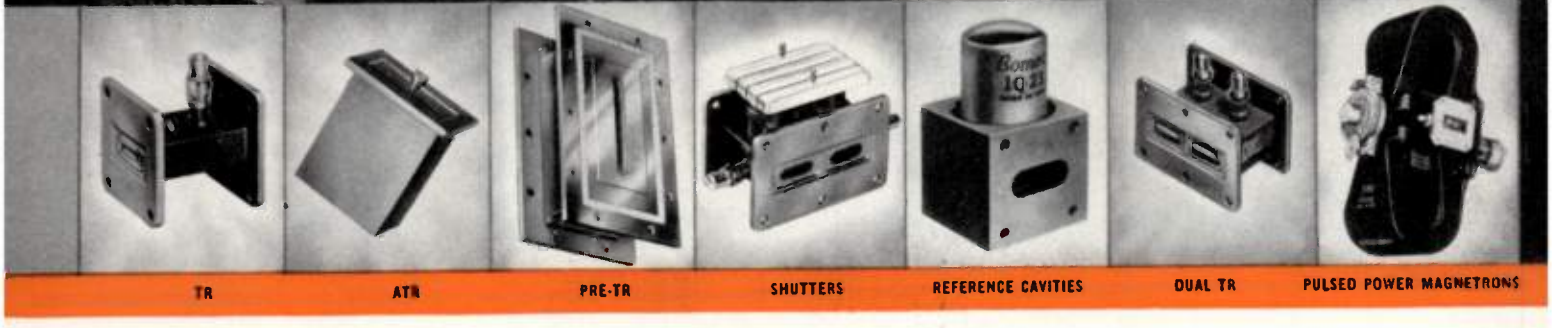
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COILS FOR TRAVELING WAVE TUBES — precision wound for minimum transverse magnetic fields. High temperature windings are a CELCO engineering development —

Unit illustrated is 12" long.



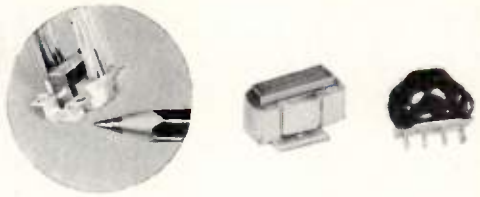
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PRECISION TRANSFORMERS — CELCO develops Precision Transformers for such applications as Computer Components with high accuracy of turns ratio and output voltages.



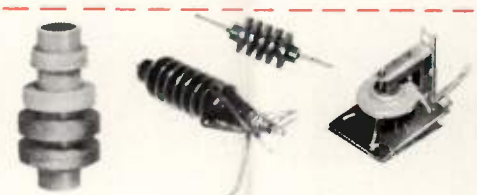
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HERMETICALLY SEALED MAGNETIC AMPLIFIERS & TRANSFORMERS — with various types of terminations, evacution and inert gas pressurization give CELCO components minimum weight with high-breakdown voltage resistance.



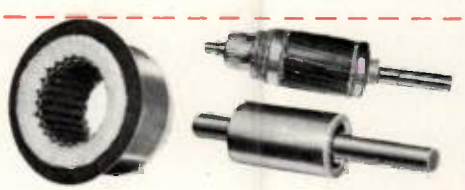
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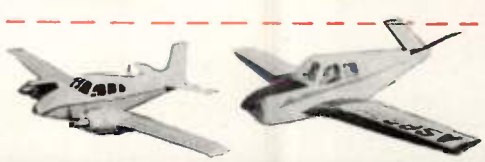


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AMPLIFIER KLYSTRONS

	U.S.A. PRICE	TYPICAL OPERATION: Output Power, Watts CW	TYPICAL OPERATION: Output Power, Watts Pulse	TYPICAL OPERATION: Power Gain db	Frequency Range Mc	MAXIMUM RATINGS: Beam Voltage Volts	MAXIMUM RATINGS: Beam Current Amps
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3K2500SG	2,950.00	1000	.....	25	1700-2400	7000	0.6
3K3000LQ	2,360.00	2000	.....	30	720-985 620-900	9000	0.75
3K50,000LA	4,200.00	10,000	12,000[7]	25	470-580	20,000	2.5
3K50,000LF	4,200.00	10,000	12,000[7]	25	580-720	20,000	2.5
3K50,000LQ	4,200.00	10,000	12,000[7]	25	720-985	20,000	2.5
3KM2500LT	1,880.00	.....	30,000	30	955-1220	24,000	3.3
3KM3000LA	2,470.00	2000	.....	30	375-570	9000	0.75
3KM50,000PA	11,000.00	20,000	50,000	30	225-400	30,000	2.5
4K50,000LQ	4,560.00	10,000	.....	50	720-985	20,000	2.5
4KM3000LQ	.....	2000	.....	40	720-985	10,000	.75
4KM50,000SG	10,000.00	10,000	.....	40	1700-2400	18,000	2.0
4KM170,000LA	23,500.00	75,000	 200,000	50 50	300-500 300-500	33,000 50,000	5.5 11.0
6K50,000LQ	8,250.00	10,000	.....	55	720-985	20,000	2 5

REFLEX KLYSTRONS

	U.S.A. PRICE	MAXIMUM RATINGS: Resonator Voltage Volts	MAXIMUM RATINGS: Resonator Dissipation Watts	MAXIMUM RATINGS: Cathode Current ma	MAXIMUM RATINGS: Reflector Voltage Volts (Typical)	ELECTRICAL CHARACTERISTICS: Heater Voltage Volts	ELECTRICAL CHARACTERISTICS: Heater Current Amps	ELECTRICAL CHARACTERISTICS: Frequency Range Mc
1K015CA[2]	$ 295.00	350	15	50	—250	6.3	0.8	5400-6000
1K015CG[1]	295.00	350	15	50	—250	6.3	0.8	5400-6000
1K015XA[2]	295.00	350	15	50	—170	6.3	0.8	8400-9600
1K015XG[1]	295.00	350	15	50	—170	6.3	0.8	8400-9600
1K125CA[1]	235.00	1000	125	110	—285	6.3	1.5	3700-4400
1K125CB[1]	235.00	1000	125	110	—335	6.3	1.5	4400-5000
1K20KA[1]	475.00	350	20	50	—190	6.3	0.8	10,700-11,700
1K20XD[1]	475.00	350	20	50	—175	6.3	0.8	10,000-10,800
1K20XK[1]	475.00	350	20	50	—160	6.3	0.8	9200-10,000
1K20XS[1]	475.00	350	20	50	—140	6.3	0.8	8500-9300

TETRODES

	U.S.A. PRICE	MAXIMUM RATINGS: Plate Dissipation Watts	MAXIMUM RATINGS: Plate Voltage Volts	MAXIMUM RATINGS: Plate Current ma	MAXIMUM RATINGS: Grid Dissipation Watts	MAXIMUM RATINGS: Screen Voltage Volts	MAXIMUM RATINGS: Screen Dissipation Watts	ELECTRICAL CHARACTERISTICS: Filament Voltage Volts	ELECTRICAL CHARACTERISTICS: Filament Current Amps	ELECTRICAL CHARACTERISTICS: Amplification Factor
4-65A	$ 20.00	65	3000	150	5	400	10	6.0	3.5	....
4-125A	30.25	125	3000	225	5	400	20	5.0	6.5	....
4-250A	41.25	250	4000	350	10	600	35	5.0	14.5	....
4-400A	48.00	400	4000	350	10	600	35	5.0	14.5	....
4-1000A	132.00	1000	6000	700	25	1000	75	7.5	21.0	....
4CX250B	45.00	250	2000	250	2	300	12	6.0	2.6	....
4CX250K	54.00	250	2000	250	2	300	12	6.0	2.6	....
4CX250M	54.00	250	2000	250	2	300	12	26.5	0.57	....
4CX300A	48.00	300	2500	250	2	400	12	6.0	3.0	....
4CX1000A	156.00	1000	3000	1000	0	350	12	6.0	12.5	....
4CX5000A	450.00	5000	7500	3000	75	1500	250	7.5	75.0	....
4W300B	42.50	300	2000	250	2	300	12	6.0	2.6	....
4W20,000A	1,850.00	20,000	8000	15,000	60	1500	200	10.0	30.0[9]	....
4X150A	38.95	150	1250	250	2	300	12	6.0	2.6	....
4X150D	38.95	150	1250	250	2	300	12	26.5	0.57	....
4X150G	54.00	150	1250	250	2	300	15	2.5	7.0	....
4X250B	42.50	250	2000	250	2	300	12	6.0	2.6	....
4X250F	42.50	250	2000	250	2	300	12	26.5	0.57	....
4X500A	121.00	500	4000	350	10	500	30	5.0	13.5	....
4X500F	121.00	500	4000	350	10	500	30	5.0	13.5	....

PENTODE

4E27A/5-125B	40.00	125	4000	200	5	750	20	5.0	7.50	....

TRIODES

2C39A	$ 22.50	100	1000	125[5]	2	....	...	6.3	1.0	100
2C39B	32.15	100	1000	125[5]	2	....	...	6.3	1.0	100
2C39WA	30.00	100	1000	125[5]	2	....	...	6.3	1.0	100
3C24	15.00	25	2000	75	7	....	...	6.3	3.0	24
3CPN10A5	36.65	10	....	.....	2	....	...	6.0	1.0	100
3CX100A5	32.15	100	1000	125[5]	2	....	...	6.0	1.0	100
3W5000A1	198.00	5000	6000	2500	50	....	...	7.5	51.0	5
3W5000A3	198.00	5000	6000	2500	150	....	...	7.5	51.0	20
3W5000F1	198.00	5000	6000	2500	50	....	...	7.5	51.0	5
3W5000F3	198.00	5000	6000	2500	150	....	...	7.5	51.0	20
3X100A5	25.00	100	1000	125[5]	2	....	...	6.3	1.0	100
3X2500A3	198.00	2500	6000	2500	150	....	...	7.5	51.0	20
3X2500F3	198.00	2500	6000	2500	150	....	...	7.5	51.0	20
3X3000A1	198.00	3000	6000	2500	50	....	...	7.5	51.0	5
3X3000F1	198.00	3000	6000	2500	50	....	...	7.5	51.0	5
25T	15.00	25	2000	75	7	....	...	6.3	3.0	24
35T	20.00	50	2000	150	15	....	...	5.0	4.0	39
35TG	24.00	50	2000	150	15	....	...	5.0	4.0	39
75TH	28.00	75	3000	225	16	....	...	5.0	6.25	20
75TL	28.00	75	3000	225	13	....	...	5.0	6.25	12
100TH	20.50	100	3000	225	20	....	...	5.0	6.3	38
100TL	20.50	100	3000	225	15	....	...	5.0	6.3	14
152TH	50.00	150	3000	450	30	....	...	5 or 10	12.5 or 6.25	20
152TL	50.00	150	3000	450	25	....	...	5 or 10	12.5 or 6.25	12
250TH	33.00	250	4000	350	40	....	...	5.0	10.5	37
250TL	33.00	250	4000	350	35	....	...	5.0	10.5	14
304TH	60.50	300	3000	900	60	....	...	5 or 10	25 or 12.5	20
304TL	60.50	300	3000	900	50	....	...	5 or 10	25 or 12.5	12
450TH	77.00	450	6000	600	80	....	...	7.5	12.0	38
450TL	77.00	450	6000	600	65	....	...	7.5	12.0	18
592/3-200A3	37.50	200	3500	250	25	....	...	10.0	5.0	25
750TL	137.50	750	10,000	1000	100	....	...	7.5	21.0	15
1000T	137.50	1000	7500	750	80	....	...	7.5	15.5	35
1500T	245.00	1500	8000	1250	125	....	...	7.5	24.0	24
2000T	340.00	2000	8000	1750	150	....	...	10.0	23.5	23

For details, circle #68 on Reader Service Card

in Power Electron Tubes

HIGH VACUUM RECTIFIERS

	U.S.A. PRICE	Filament Voltage Volts	Filament Current Amps	Peak Inverse Voltage Volts	Peak Plate Current Amps	Average Plate Current ma	Plate Dissipation Watts
2-01C	$ 15.25	5.0	0.35	1,000	0.010	1	0.1
2-25A	12.50	6.3	3.0	25,000	1.0	50	15
2-50A	15.00	5.0	4.0	30,000	1.0	75	30
2-150D	25.00	5.0	13.0	30,000	3.0	250	90
2-240A	40.00	7.5	12.0	25,000	4.0	500	150
2-450A	94.00	7.5	26.5	25,000	8.0	1000	450
2-2000A	214.50	10.0	25.0	75,000	12.0	750	1200
250R	28.00	5.0	10.5	60,000	2.5	250	150
253	20.50	5.0	10.0	15,000	2.5	350	100
8020(100R)	15.00	5.0	6.5	40,000	1.5	100	60
2CL40A	32.00	6.0	2.7	16,000	10.0[4]	120[4]	40[4]
2X1000A	120.00	26.5	2.2	25,000	25.0[5]	1250[5]	1000
2X3000F	140.00	7.5	51.0	25,000	20.0	3000	3000
MERCURY-VAPOR RECTIFIERS							
KY21A	25.00	2.5	10.0	11,000	3.0	750	....
RX21A	24.00	2.5	10.0	11,000	3.0	750	....

PREFORMED CONTACT FINGER STOCK

A prepared strip of silver-plated spring material, slotted and formed into a series of fingers designed to make sliding contact.

Single Edge	Width
CF-100	17/32"
CF-300	31/32"
CF-500	1 3/8"
Double Edge	**Width**
CF-200	13/16"
CF-400	1 17/32"
CF-600	2 1/4"
Klystron Types	**Width**
CF-700	17/32"
CF-800	13/32" x 3/16"

Used as contact between klystrons and externally-tuned cavities.

PULSE MODULATORS

	U.S.A. PRICE	Plate Dissipation Watts	Plate Voltage Volts	Plate Current ma	Grid Dissipation Watts	Screen Voltage Volts	Screen Dissipation Watts	Filament Voltage Volts	Filament Current Amps	Amplification Factor
4PR60A	$90.00	60	20,000	18,000[3]	..	1500	8	26.0	2.25	..
6C21	77.00	300	30,000	15,000[3]	50	....	..	8.2	17.00	30

HEAT-DISSIPATING CONNECTORS

Type	Hole Diameter
HR-1	.052
HR-2	.062
HR-3	.072
HR-4	.102
HR-5	.127
HR-6	.367
HR-7	.127
HR-8	.575
HR-9	.569
HR-10	.510

SK-601 TUBE EXTRACTOR

A spring steel extractor for use with the 4X150 series, 4X250 series and 2C39 series tubes.

VACUUM SWITCHES

Single-pole double-throw switch within a high vacuum adaptable for high-voltage switching. Contact spacing .015". Switch will handle R-F potentials as high as 20 Kv. In D-C switching will handle approximately 1.5 Amps. at 5 Kv.

Type	Coils
VS-2	12V
VS-4	24V
VS-5	
VS-6	

100IG IONIZATION GAUGE

For measuring pressures from 10^{-3} to less than 10^{-8} mm of mercury.

HV-1 DIFFUSION PUMP

Triple-jet, air-cooled vacuum pump of the oil-diffusion type. Capable of reaching an ultimate vacuum of 4×10^{-7} mm of mercury when used with suitable forepump.

AIR SYSTEM SOCKETS

CHIMNEYS

	U.S.A. PRICE	Tube	Screen By Pass Capacitor uuf	Special Characteristics
SK-100	$123.00	4KM3000LQ; 3KM3000LA; 3K3000LQ	....	Cathode Socket
SK-110	123.00	3K50,000LA,F,Q; 3KM50,000PA; 4K50,000LQ; 4KM50,000SG; 6K50,000LQ	....	Cathode Socket
SK-200	60.00	3K2500SG; 3K2500LX; 3KM2500LT	....	Cathode Socket
SK-300	41.00	4CX5000A	none	
SK-400	12.00	4-400A; 4-250A; 4-125A	none	
SK-500	17.00	4-1000A	none	
SK-600	15.25	4X150A; 4X150D; 4X250B; 4X250F; 4CX250B; 4W300B	2700	No terminals grounded.
SK-610	17.10	4X150A; 4X150D; 4X250B; 4X250F; 4CX250B; 4W300B	2700	Cathode terminals grounded.
SK-620	15.75	4X150A; 4X150D; 4X250B; 4X250F; 4CX250B; 4W300B	1100	No terminals grounded. Screen by-pass capacitor plastic sealed.
SK-630	17.60	4X150A; 4X150D; 4X250B; 4X250F; 4CX250B; 4W300B	1100	Cathode terminals grounded. Screen by-pass capacitor plastic sealed.
SK-640	5.00	4X150A; 4X150D; 4X250B; 4X250F; 4CX250B; 4W300B	none	No terminals grounded.
SK-700	20.00	4CX300A	1100	No terminals grounded.
SK-710	20.00	4CX300A	1100	Cathode terminals grounded.
SK-740	On Request	4CX300A	none	No terminals grounded.
SK-760	On Request	4CX300A	none	Integral chimney. No terminals grounded.
SK-770	On Request	4CX300A	none	Integral chimney, screen terminals grounded.
SK-800	40.00	4CX1000A	1450	Cathode terminals grounded.
SK-900	48.00	4X500A	650	
SK-1000	On Request	4KM170,000LA	....	Cathode socket.

CHIMNEYS

	U.S.A. PRICE
SK-306	$11.48
SK-406	6.00
SK-506	9.00
SK-606	.60
SK-626	.70
SK-636	6.00
SK-806	8.00
SK-906	10.00

[1] Waveguide Output Fitting
[2] Coaxial Output Fitting
[3] Pulse
[4] Convection liquid cooled
[5] Cathode Current
[6] Pulse-clipper service only
[7] TV Peak-Synchronizing Level
[8] Plus 2250 watts bombarder power

All prices subject to change without notice

EITEL-McCULLOUGH, INC.
SAN BRUNO, CALIFORNIA

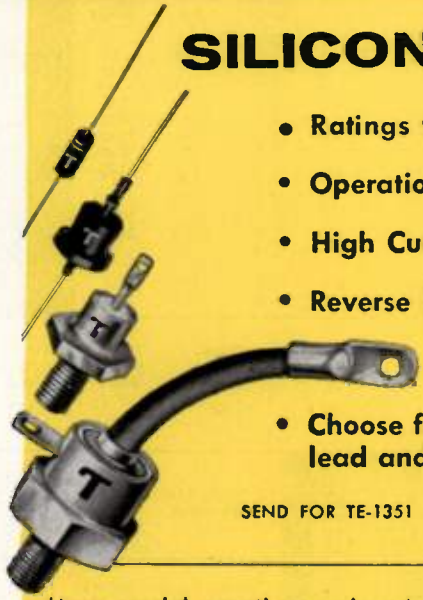
Eimac®

Transitron... leadership

SILICON RECTIFIERS

Type	Maximum Average Forward Current (Amps)	Peak Recurrent Inverse Voltage (Volts)	Maximum Inverse Current (ma)
	Ratings at 150°C		
1N684	.15	400	.2
1N689	.15	600	.2
1N683	.075	400	.2
1N687	.075	600	.2
1N538	.25	200	.35
1N540	.25	400	.35
1N547	.25	600	.35
2W20A†	.075	2000	.2
1N253*	1.0	95	.1
1N254*	0.4	190	.1
1N255*	0.4	380	.15
1N256*	0.2	570	.25
TM47	3	400	.5
TM67	3	600	.5
TM104	1	1000	.5
TM155	0.4	1500	.5
1N250A	20	200	5
TR402	20	400	5
1N412B	50	100	5
1N413B	50	200	5
TH402B	50	400	5

*JAN types Rated at 135°C Case Temperature
†Rating at 125°C



- Ratings to 1500 volts
- Operation to 175° C
- High Current Ratings
- Reverse Polarity Types available
- Choose from subminiature, axial lead and stud mounted packages

SEND FOR TE-1351

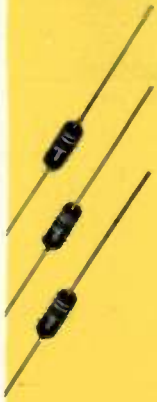


Many special mountings and packages are available, including stacks, encapsulated and epoxy potted quads and circuits. Your inquiries are invited.

SILICON DIODES

Type	Maximum Inverse Operating Voltage (volts)	Maximum Average Forward Current (ma)	Maximum Inverse Current (μa) @ V
	Ratings at 150°C		
1N486A	225	50	25 @ 225
1N488A	380	50	25 @ 380
1N457*	60	25	5 @ 60
1N458*	125	25	5 @ 125
1N459*	175	25	5 @ 175
	Ratings at 125°C		
1N251*	30	30	10 @ 10
1N252	20	40	10 @ 5
	Recovery time .15 μsec		
	Ratings at 100°C		
SG213	200	12	50 @ 175
	Recovery time .3 μsec		
SG223	200	25	50 @ 175
	Recovery time .5 μsec		

*JAN types



- Operation to 200° C
- High Forward Conductance
- High Voltage Ratings
- Fast Switching Time
- Low Shunt Capacitance
- Subminiature Size

SEND FOR TE-1350

GERMANIUM DIODES

Type	Forward Current at + 1V (ma)	Inverse Current at Specified Voltage (μa @ V)	Maximum Operating Voltage (volts)	Description
1N270	200	100 @ −50	80	
1N277	100	250 @ −50 @ 75°C 75 @ −10	100	
1N276	40	100 @ −50	50	JAN Types
1N281	40	500 @ −50 30 @ −10	60	
1N127A	5	300 @ −50 25 @ −10	100	
1N198	5	250 @ −50 @ 75°C 75 @ −10	50	
1N283	200	20 @ −10	20	Computer Types
1N191	5	125 @ −50 @ 55°C 25 @ −10	60	
1N278	20	125 @ −50 @ 75°C	50	Hi Temperature Types
T22G	40	20 @ −10	15	
T9G	100	20 @ −50 2 @ −10	60	Hi Resistance Types
T13G	40	2 @ −10	20	
1N67A	5	50 @ −50 5 @ −5	80	



- High Forward Conductance
- Fast Switching Time
- Low Inverse Currents
- Excellent Stability
- Small Size

SEND FOR TE-1300 AND TE-1319

For details, circle #70 on Reader Service Card

CRystal 9-4500

Transitron

in semiconductors

SILICON TRANSISTORS

High Power

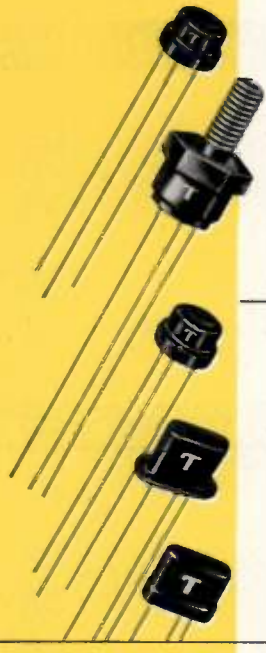
- Ratings to 85 watts
- Operation to 5 amps
- Low R_{CS}, 1.5 ohms typical
- Voltage Ratings to 60V
- High Current Gain
- High Speed Switching



Type	Maximum Power Dissipation at 25°C case (watts)	Minimum D.C. Common Emitter Current Gain B	Typical Collector Saturation Resistance (ohms)	Maximum Collector Voltage Vc (volts)
ST400	85	15 @ 2 amps	1.5 @ 2 amps	60
ST401	85	20 @ 2 amps	1.5 @ 2 amps	45
ST402	50	15 @ 2 amps	3.5 @ 2 amps	60
ST403	50	15 @ 2 amps	2.5 @ 2 amps	45

Medium Power

- Operation to 500 ma
- Ratings to 5 watts
- Low R_{CS}, 6 ohms typical
- High Speed Core Driving
- Heat Sink Mountings available



Type	Maximum Power Dissipation at 100°C case (watts)	Max. Collector Voltage VcMax (volts)	Minimum D.C. Common Emitter Current Gain B	Typical Collector Saturation Voltage (volts)
2N545*	5	60	15 @ 500 ma	3V @ 500 ma
2N547	5	60	20 @ 500 ma	3V @ 500 ma
2N498	2.5	100	12 @ 200 ma	4V @ 200 ma
2N497	2.5	60	12 @ 200 ma	4V @ 200 ma
2N551	5	60	20 @ 50 ma	1V @ 50 ma

*Fast Switching Type

Small Signal

- Operation to 175° C
- Low I_{C0} at Rated V_C max.
- High Current Gain
- 3 Package sizes available

SEND FOR TE-1353

Type	Minimum Common Emitter Current Gain, β	Maximum Collector Voltage Vcc Peak (Volts)	Typical Cut-off Frequency (MC)	Maximum Collector Cut-off Current at 25°C at Vc Max (μa)
2N543	80	45	15	.5
2N480	40	45	11	.5
2N475	20	45	10	.5
2N336	78	45	13	50
2N334	18	45	11	50
2N118*	18	30	4	10
2N119*	36	30	4	10
ST904	18	30	4	10
ST905	36	30	4	10

*USN type

SILICON VOLTAGE REGULATORS

- Excellent Long-Term Stability
- High Current Handling ability
- Operation to 150° C
- Extended Operating Current Range



Type	Voltage Range (volts)	Maximum Dynamic Resistance (ohms)	Maximum Current @ 25°C (ma)	Maximum Current @ 125°C (ma)
SV-5	4.3- 5.4	55	50	10
SV-7	6.2- 8	8	30	6
SV-15	13.5-18	120	14	3
SV-804	4.3- 5.4	55	150	30
SV-806	6.2- 8	8	90	18
SV-815	13.5-18	120	40	8
			(amps)*	(ma)*
SV-904	4.3- 5.4	.5	2.0	500
SV-906	6.2- 8	.8	1.2	300
SV-924	20 -27	8	.4	100

*Case temperature ratings

SILICON VOLTAGE REFERENCES

- Excellent Long Term Stability
- Controlled Temperature Coefficients
- Wide Temperature Range
- Small Size

SEND FOR TE-1352

Type	Voltage Range (volts)	Temp. Coeff. (%°C)	Dynamic Resistance (ohms)
1N429	5.9- 6.5	.01	20
SV3171	6.7- 7.4	.01	10
SV3175	8.0- 8.8	.002	15
SV3207	16.0-17.6	.001	30

For details, circle #71 on Reader Service Card

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Amperex®


AX5868


DX151


6961


6757


5551-A

RADIATION DETECTION • SPECIAL PURPOSE


2N282 IN478-9


5894



0G3/85A2


5870


6252

INDUSTRIAL • ELECTRO-MEDICAL


6507



6360

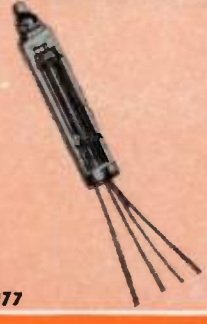

6800



6939


230N 240N

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6977



6688


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6693

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Write for CONDENSED TUBE CATALOG, information at a glance, rapid tube data reference tables, 26 pages of condensed information arranged for quick reference. Address your distributor or Amperex direct.

Amperex ELECTRONIC CORPORATION

230 DUFFY AVENUE, HICKSVILLE, LONG ISLAND, N. Y.

In Canada: Rogers Electronic Tubes & Components, 11-19 Brentcliffe Road, Leaside, Toronto 17.

For details, circle #72 on Reader Service Card

ELECTRON TUBES

Detailed Data Sheets
on any of these tubes, and applications engineering service are yours for the asking.

Type No.	Price
BEAM POWER TUBES	
813	$22.65
829B	16.25
6146	4.90
VACUUM CONDENSERS	
VC25/20	20.00
VC25/32	23.25
VC50/20	24.25
VC50/32	27.50
VC100/20	30.00
VC100/32	33.00
VC250/32	70.00
DECADE COUNTER	
EIT/6370	16.50
GEIGER COUNTERS	
75N	10.00
75NB3	10.00
85NB3	10.00
90NB	20.00
100C	35.00
100N	35.00
100NB	37.50
120C	75.00
120N	75.00
120NB	77.50
150N	50.00
150NB	52.50
153C	65.00
200C	45.00
200CB	47.50
200N	45.00
200NB	47.50
230N	30.00
240C	35.00
240N	35.00
912NB	35.00
CLIPPER DIODE	
6339	35.00
TWIN DIODE	
5726	2.10
HEPTODE	
E91H/6687	1.45
IGNITRONS	
§5551-A/652	65.00
§5552-A/651	99.00
§5553-B/655	216.00
5555/653B	316.00
5822	116.00
§5822-A	116.00
INDICATOR TUBES	
EM34/6CD7	2.55
DM70/1M3	1.95
DM71	2.00
EM80/6BR5	2.45

Type No.	Price
INDICATOR TUBES (cont'd)	
EM81/6DA5	$2.45
EM84/6FG6	2.95
INDICATOR TRIODE	
6977	3.50
REFLEX KLYSTRON	
2K25	39.50
KLYSTRONS	
DX122	**
DX123	**
DX124	**
MAGNETRONS	
2J42	160.00
2J48	250.00
2J55	165.00
2J56	165.00
4J47	500.00
4J57	270.00
4J58	270.00
4J59	270.00
JP9-15	260.00
5586	417.00
5657	417.00
5780A	**
6507	**
6589	**
6972	325.00
PENTODES	
6AU6	2.00
E81L/6686	5.00
E83F/6689	4.50
UL84/45B5	2.65
EL86/6CW5	2.85
E180F/6688	8.00
828	27.50
5654	3.90
5847	20.00
6083/AX9909	14.25
6084/E80F	3.75
6227/E80L	3.75
PENTODES—HI-FI	
6CA7/EL34	4.35
EL84/6BQ5	2.40
EF86/6267	2.75
PENTODES Secondary Emission	
EFP60	8.75
PENTODES—Subminiature	
6007/5913	1.50
6008/5911	1.50
HI-FI VACUUM RECTIFIERS	
GZ34/5AR4	3.50
EZ80/6V4	1.50
EZ81/6CA4	1.60

Type No.	Price
MERCURY RECTIFIERS	
575A	$22.15
673	22.15
857B	218.50
866AX	2.65
869B	138.00
869BL	138.00
872AX	9.35
6508	80.00
6693	25.00
7136	25.00
8008AX	9.35
VACUUM RECTIFIERS	
5R4GY	2.65
8020AX	15.00
XENON RECTIFIERS	
3B28	7.60
4B32	12.00
VOLTAGE REFERENCE TUBES	
OE3/85A1	2.50
OG3/85A2	2.50
5651	2.50
VOLTAGE REGULATORS	
OA2	1.75
OB2	1.90
90C1	2.50
6354/150B2	3.00
TETRODES	
4X150A	38.95
4X150D	38.95
4X250B	42.50
4X500A	121.00
807	2.90
6075/AX9907	250.00
6076/AX9907R	305.00
6079/AX9908	60.00
6155/AX4-125A	30.25
6156/AX4-250A	41.25
6979	42.50
TWIN TETRODES	
832A	14.26
DX140	**
5894/AX9903	25.00
6252/AX9910	25.00
6360	4.00
6907	25.00
6939	14.00
THYRATRONS	
C3J/5632	15.50
C3JA/5684	19.80
3C23	11.98
AX260	150.00
632B	28.00

Type No.	Price
HYDROGEN THYRATRONS	
§6268/AX9911	$32.50
§6279/AX9912	45.00
INERT GAS THYRATRONS	
2D21	1.61
5727	2.90
MERCURY THYRATRONS	
AX105/FG105	49.50
678	47.00
FG17/1701/ 967/5557	8.50
5559	22.00
5560/FG95	28.00
5869/AGR9950	25.00
5870/AGR9951	100.00
6786	200.00
XENON THYRATRONS	
2050	2.55
5544	32.50
5545	29.40
5865/C6J	26.40
TRIODES	
2C39A	22.50
6Q4/EC80	3.25
6R4/EC81	2.50
HF200	47.50
HF201A/468	33.00
250TH	33.00
250TL	33.00
HF300	39.50
450TH	77.00
450TL	77.00
501R/5759	225.00
502/5760	210.00
502R/5760	235.00
504R	245.00
508/6246	500.00
750TL	137.50
805	20.00
810	25.55
811A	5.65
812A	5.65
833A	55.00
834	19.75
838	20.00
845	20.85
849	145.00
849A	145.00
880	565.00
889A	221.00
889RA	347.00
891	275.00
891R	430.00
892	270.00
892R	425.00
ZB3200	385.00
5604	570.00
5619	423.00

Type No.	Price
TRIODES (cont'd)	
5658	$565.00
5666	265.00
5667	347.00
5736	170.00
5771	600.00
5866/AX9900	20.00
5867/AX9901	30.00
5868/AX9902	55.00
5923/AX9904	165.00
5924/AX9904R	231.00
5924A	275.00
6077/AX9906	1675.00
6078/AX9906R	1900.00
6333	260.00
6445	420.00
6446	305.00
6447	305.00
6756	388.00
6757	535.00
6758	173.00
6759	206.00
6800	350.00
6801	505.00
6960	150.00
6961	210.00
7092	125.00
GLOW DISCHARGE TRIODE Miniature	
5823	2.50
HI-FI TWIN TRIODES	
ECC81/12AT7	2.85
ECC82/12AU7	2.30
ECC83/12AX7	2.30
TWIN TRIODES	
ECC85/6AQ8	2.60
E88CC/6922	4.75
ECC88/6DJ8	4.55
ECC91/6J6	2.65
E92CC	1.75
5920/E90CC	2.00
6085/E80CC	3.75
6201	4.75
7962	2.40
7119/E182CC	2.95
TRIGGER TUBE	
Z8040	4.30
MISC. SPECIAL PURPOSE TUBES	
ECF80/6BL8	3.10
6U8	3.15
ECL82/6BM8	2.75
UCL82	3.45
EA52/6923	13.00
6218/E80T	15.00
EY81/6R3	2.00
DY87/1S2A	2.75
EBF89/6DC8	2.65

§The AMPEREX types 6268 and 6279 are not only improved versions but completely interchangeable in every respect with the Types 4C35 and 5C22 respectively. They have a minimum guaranteed life of 1,000 hours due to the self-contained, self-regulating sources of hydrogen.

‡Includes sensing plate. For thermostatic control, ordered separately either—

(a) "Water Saver" Thermostat Assembly, Cat. No. S-17024, Price $5.25.

(b) "Overload Protection" Thermostat Assembly, Cat. No. S-17025, Price $5.25.

**Price on request.

Prices subject to change without notice.

RADIATOR CREDIT FOR FORCED AIR-COOLED TUBES

TUBE TYPE	USERS ALLOWANCE
889RA	$20.00
891R, 892R	30.00
5604	45.00
5667	20.00
6445	30.00
6447	30.00
6757	75.00
6801	75.00

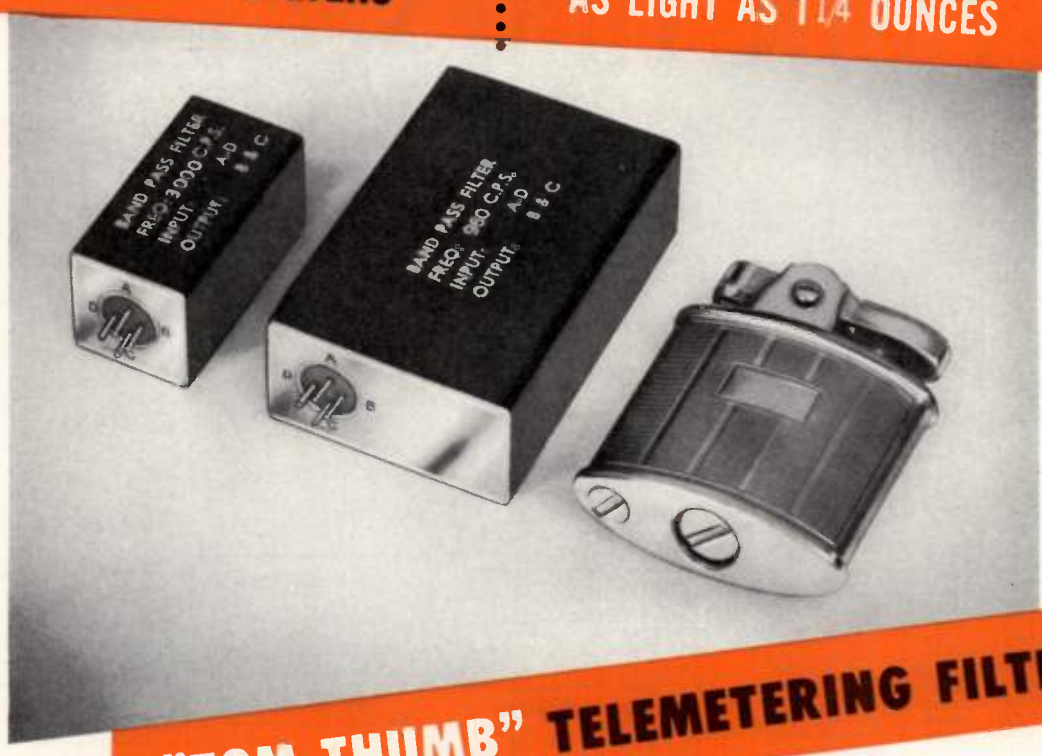


ask Amperex

about electronic tubes and semiconductors for every industrial and communications application.

Burnell SUBMINIATURE FILTERS

AS SMALL AS 3/4" x 3/4" x 1 3/8"
AS LIGHT AS 1 1/4 OUNCES



"TOM THUMB" TELEMETERING FILTERS

CHAN. #	FREQ.	IMP. 100K P/N	B. W.	SIZE	WT.
1	400 cps.	S-60001	±7½%	¾ x 1½ x 2¼ H	4 oz.
2	560 cps.	S-60002	±7½%	¾ x 1½ x 2¼ H	4 oz.
3	730 cps.	S-60003	±7½%	¾ x 1½ x 2¼ H	4 oz.
4	960 cps.	S-60004	±7½%	¾ x 1½ x 2¼ H	4 oz.
5	1300 cps.	S-60005	±7½%	¾ x 1½ x 2¼ H	4 oz.
6	1700 cps.	S-60006	±7½%	¾ x 1½ x 2¼ H	4 oz.
7	2300 cps.	S-60007	±7½%	¾ x ¾ x 1⅜ H	1¼ oz.
8	3 KC	S-60008	±7½%	¾ x ¾ x 1⅜ H	1¼ oz.
9	3.9 KC	S-60009	±7½%	¾ x ¾ x 1⅜ H	1¼ oz.
10	5.4 KC	S-60010	±7½%	¾ x ¾ x 1⅜ H	1¼ oz.
11	7.35 KC	S-60011	±7½%	¾ x ¾ x 1⅜ H	1¼ oz.
12	10.5 KC	S-60012	±7½%	¾ x ¾ x 1⅜ H	1¼ oz.
13	14.5 KC	S-60013	±7½%	¾ x ¾ x 1⅜ H	1¼ oz.
14	22 KC	S-60014	±7½%	¾ x ¾ x 1⅜ H	1¼ oz.
15	30 KC	S-60015	±7½%	¾ x ¾ x 1⅜ H	1¼ oz.
16	40 KC	S-60016	±7½%	¾ x ¾ x 1⅜ H	1¼ oz.
17	52.5 KC	S-60017	±7½%	¾ x ¾ x 1⅜ H	1¼ oz.
18	70 KC	S-60018	±7½%	¾ x ¾ x 1⅜ H	1¼ oz.
A	22 KC	S-60019	±15%	¾ x ¾ x 1⅜ H	1¼ oz.
B	30 KC	S-60020	±15%	¾ x ¾ x 1⅜ H	1¼ oz.
C	40 KC	S-60021	±15%	¾ x ¾ x 1⅜ H	1¼ oz.
D	52.5 KC	S-60022	±15%	¾ x ¾ x 1⅜ H	1¼ oz.
E	70 KC	S-60023	±15%	¾ x ¾ x 1⅜ H	1¼ oz.

Designed and tested to specification #MIL-T 26985

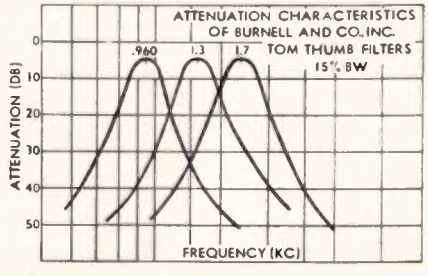
Supplied in two principal case sizes:

1. For RDB channels 1 through 6, case size is ¾ x 1½ x 2¼ inches high; weight: 4 ounces.
2. For channels 7 and up, case size is ¾ inches square and 1⅜ inches high; weight: 1¼ ounces.

These cases are generally equipped with a 4-pin plug to match the small Winchester socket.

ATTENUATION CHARACTERISTICS

Impedance: 100 K ohms in and out.
Insertion loss: less than 6 db.
At ± 7.5% band width is less than 3 db.
At ± 25% band width is greater than 15 db.
At 1.75 f attenuation is 40 db or more.
At .57 f attenuation is 40 db or more.



Dept. P-3

Burnell & Co., Inc.

EASTERN DIVISION: 10 PELHAM PARKWAY, PELHAM, N. Y.
PELHAM 8-5000 • TELETYPE: PELHAM 3633

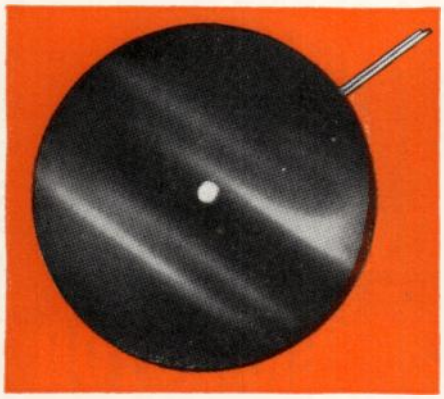
PACIFIC DIVISION: 720 MISSION STREET, SOUTH PASADENA, CALIFORNIA
RYAN 1-2841 • TELETYPE: PASACAL 7578

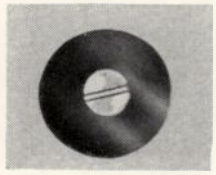
For details, circle #74 on Reader Service Card

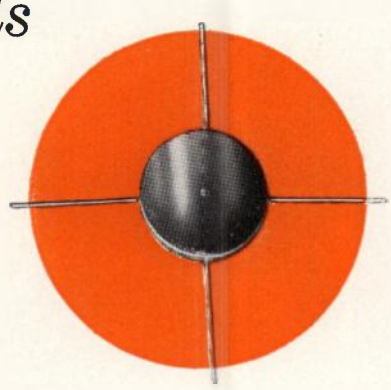
Burnell offers

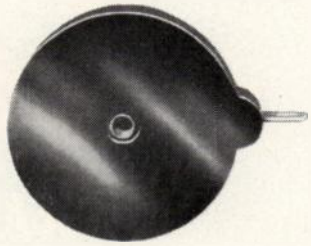
THE MOST

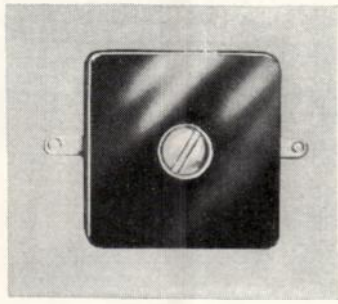
complete line of encapsulated toroids to meet your circuit needs

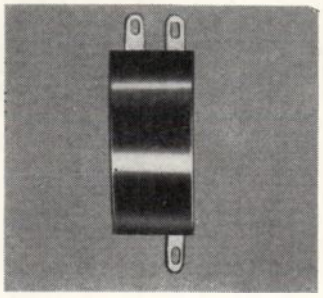


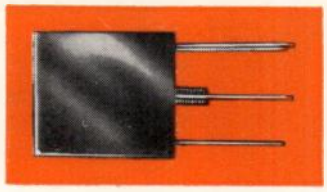












All components shown actual size.

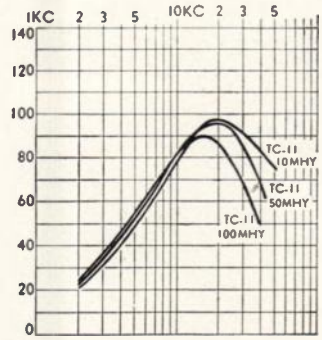
Burnell & Co., pioneers in the development of toroids, filters and related networks now offer the most complete—the most reliable line of encapsulated toroids.

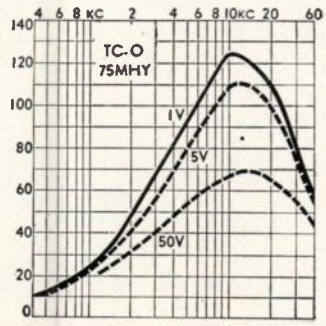
Burnell encapsulated toroids include the only encapsulated adjustoroids available anywhere—satisfy the toughest circuit demands in service-ability—light weight—miniaturization.

Burnell encapsulated toroids are particularly useful in guided missile and similar miniaturization fields where space and mounting are highly critical factors. Send for free, new Catalogue No. 104 covering scores of applications with schematics and performance curves.

COIL CHART

TYPE	NOMINAL UNCASED DIMENSIONS	WEIGHTS UNCASED (OUNCES)	MOULDED DIMENSIONS
TC 0	1" x 13/32"	5/8	1 1/16" OD x 1/2" H
TC 1	1 5/8" x 5/8"	less than 3	1 3/4" OD x 3/4" H
TC 2	2 9/32" x 15/16"	10	2 3/4" OD x 1/8" H
TC 3	1 1/2" x 5/8"	2 1/2	1 3/4" OD x 3/4" H
TC 4	1 7/32" x 19/32"	less than 2	1 5/16" OD x 23/32" H
TC 5	1 7/32" x 19/32	less than 2	1 5/16" OD x 23/32" H
TC 6	1" x 13/32"	5/8	1 1/16" OD x 1/2" H
TC 7	1" x 13/32"	5/8	1 1/16" OD x 1/2" H
TC 8	1 9/16" x 5/8"	less than 2	1 3/4" OD x 3/4" H
TC 9	1" x 3/8"	less than 1/2	1 1/16" OD x 1/2" H
TC 10	1 3/32" x 15/32"	1	1 1/4" OD x 5/8" H
TC 11	5/8" x 9/32"	1/4	3/4" OD x 1/2" H
TC 12	5/8" x 9/32"	1/4	3/4" OD x 1/2" H
TC 13	5/8" x 9/32"	1/4	3/4" OD x 1/2" H
TC 14	5/8" x 9/32"	less than 1/4	3/4" OD x 1/2" H
TC 15	1 7/8" x 7/8"	5	2" OD x 1" H
TC 17	1 3/32" x 15/32	less than 1	1 1/4" OD x 5/8" H
TC 20	1 3/32" x 15/32"	1	1 1/4" OD x 5/8" H
TC 27	1 9/16" x 11/16"	2 1/4	1 3/4" OD x 3/4" H





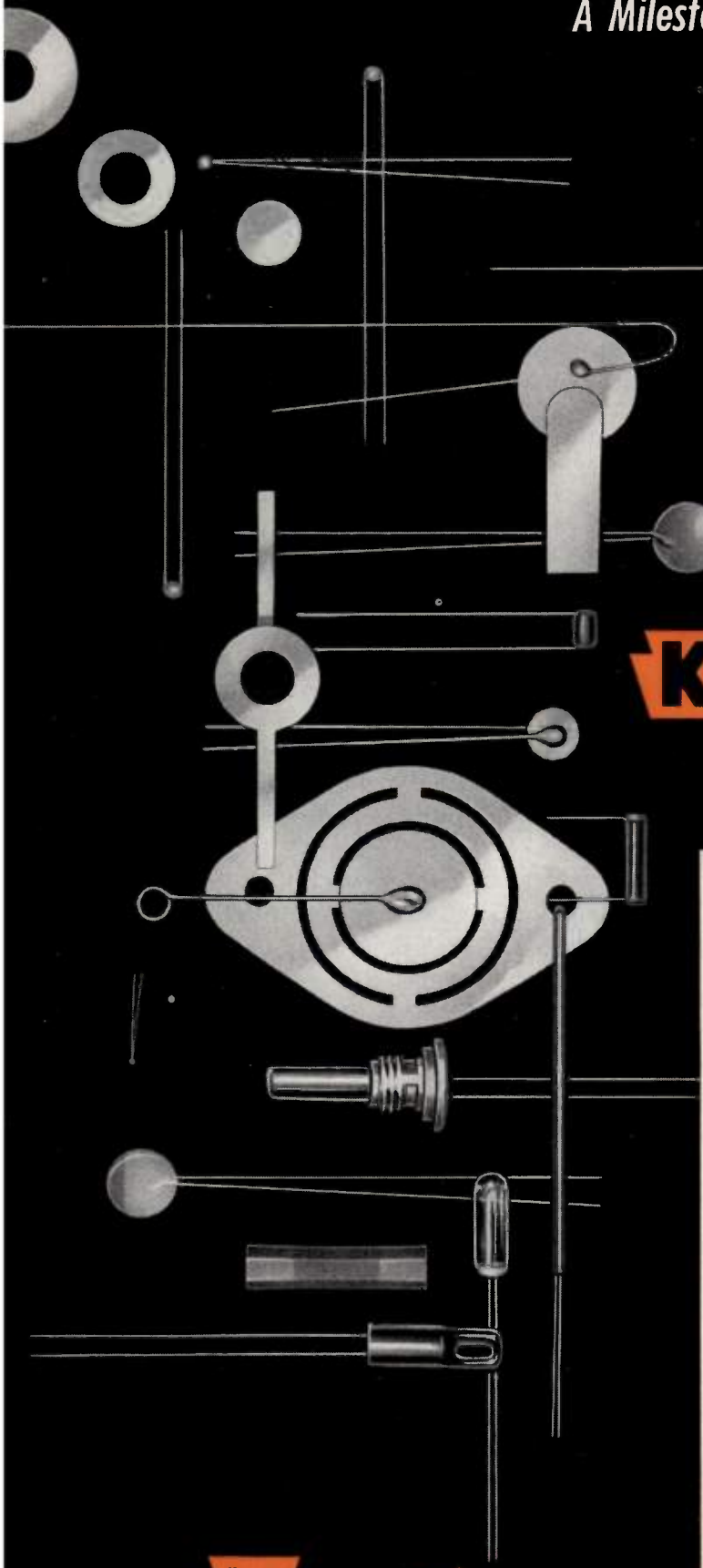
Dept. P-2

Burnell & Co., Inc.
PIONEERS IN TOROIDS, FILTERS AND RELATED NETWORKS

EASTERN DIVISION
10 PELHAM PARKWAY
PELHAM N. Y.
PELHAM 8-5000
TELETYPE: PELHAM 3633

PACIFIC DIVISION
720 MISSION STREET
SOUTH PASADENA, CALIFORNIA
RYAN 1-2841
TELETYPE: PASACAL 7578

A Milestone in Electronics 1938 • 1958



20 YEARS OF Keystone THERMISTOR*

RESEARCH and PRODUCTION

Within the brief span of two decades, Keystone Carbon Company pioneered the development and commercial introduction of *negative temperature coefficient resistance thermistors, and has become the principal supplier of these remarkable units to American industry, in the widest variety of forms.

It is an historic fact that the first thermistor shipment from Keystone, totalling 5000 units, occurred early in 1941 after three years of laboratory and pilot work. These units were for bomber intervalometers—a temperature compensation application. Later that year, 125,000 thermistors were supplied as sensing units for tank engine water temperatures—and the production flood began.

Since then, Keystone Thermistors have been supplied to the great names in American manufacturing for many measurement, control, and temperature compensation applications, including such uses as automobile temperature gauges, in meat probes for modern ovens, clinical thermometers, aircraft liquid fuel level indicators, and surge reducers in radio and TV circuits.

Today, some of the most interesting and promising new applications for Keystone Thermistors are in the very low temperature ranges, where stability and workable resistance values as low as −250°C are necessary.

Let us suggest that you bring your temperature sensing and compensation problems to KEYSTONE—thermistor headquarters for 20 years. Our full cooperation is always available.

For details, circle #76 on Reader Service Card

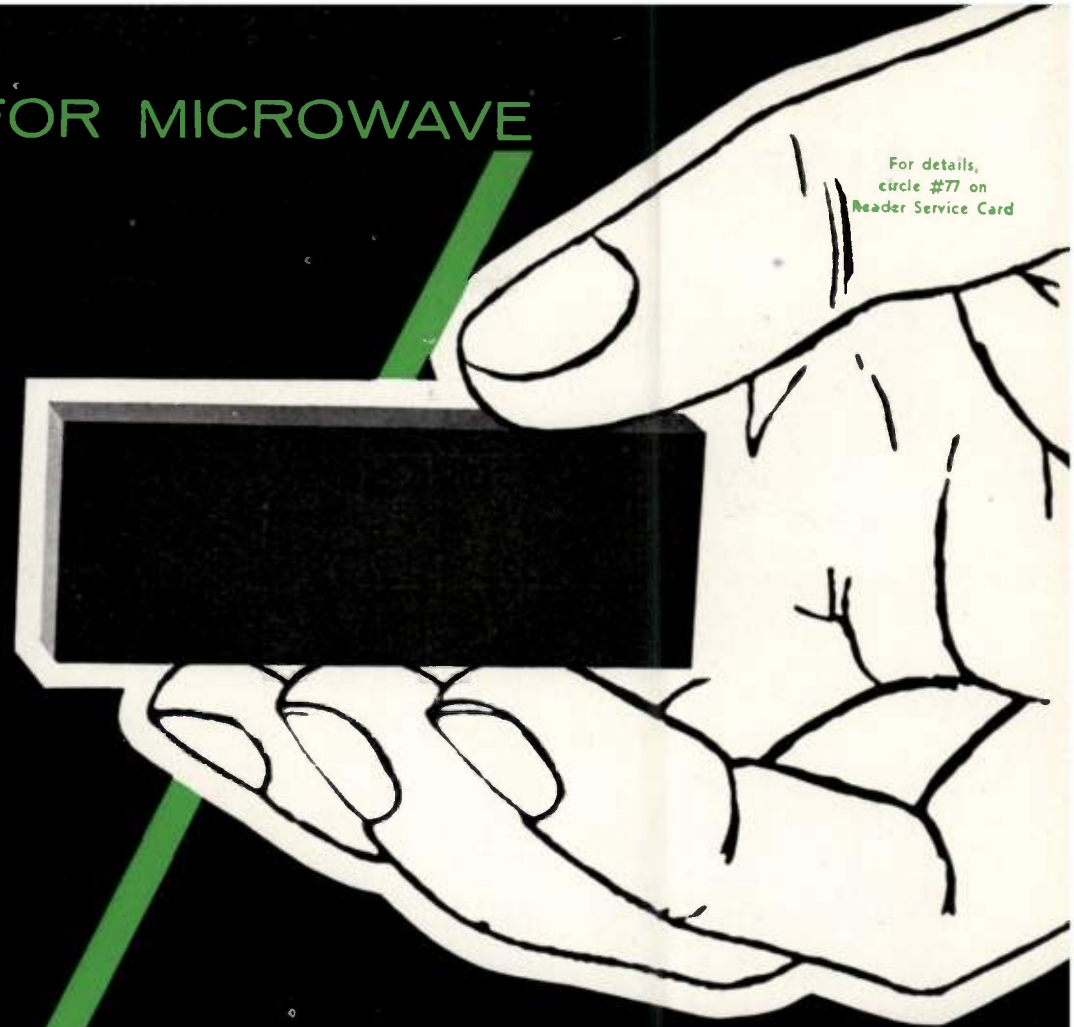
Keystone

CARBON COMPANY

ST. MARYS, PA.

GARNETS FOR MICROWAVE

For details, circle #77 on Reader Service Card



Polycrystalline YIG
(Yttrium-Iron Garnet)

for

ISOLATORS, ROTATORS, PARAMETRIC AMPLIFIERS and Other Microwave Applications!

- **Lower loss than ferrites in the microwave region.**
- **Typical Line Widths — 55 oersteds at 9,000 mc.; 30 oersteds at 3,000 mc.**
- **100% Ultrasonic Inspection.**
- **Available in Rectangular or Cylindrical Shapes.**

YIG (Yttrium-Iron Garnet), one of a group of rare earth polycrystalline materials, has been found far superior to conventional microwave ferrites in certain applications where extremely low-loss characteristics and a narrow resonance line-width are advantageous. Results heretofore unobtainable can now be commercially achieved.

Microwave Chemicals Laboratory, Inc. also custom produces garnets to meet specific requirements.

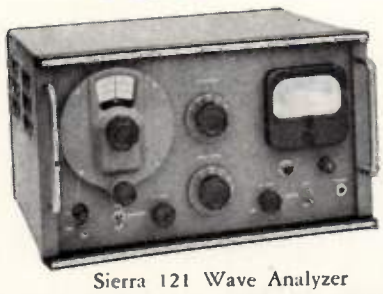
Write for Details!

MICROWAVE CHEMICALS LABORATORY, INC.

WRH

sierra

TRADE MARK



Sierra 121 Wave Analyzer

LINE BRIDGING TRANSFORMER

Converts voltmeter and wave analyzer inputs from single-ended to balanced operation. Model 130D bridges both 135 and 600 ohm balanced lines. Frequency range 3 KC to 500 KC. Write for details.

WAVE ANALYZERS

Model	Frequency Range—kc	Selectivity		Accuracy		Direct Reading in dbm	
		Down 3db	Down 45db	Frequency	Measuring	Balanced	Unbalanced
121A	15 KC-500 KC	± 100 cps	± 1000 cps	± 3 KC	± 2 db	Note D	600 ohms
158A	500 KC- 10 MC	± 2000 cps	± 5000 cps	± 0.08 MC	± 2 db	—	600 ohms

CARRIER FREQUENCY VOLTMETERS

101C	20-500	± 550 cps	± 2900 cps	Note A	± 3 db	Note D	600 ohms
103B†	3- 40	± 400 cps	± 3000 cps	± 0.5 KC	± 3 db	Note D	600 ohms
104A	5-150	± 300 cps	± 1500 cps	± 1 KC	± 3 db	Note D	600 ohms
108B	15-500	± 550 cps	± 2900 cps	± 3 KC Note B	± 2 db Note C	135 ohms Note D	600 ohms
114A	100-800	± 550 cps	± 2900 cps	Note A	± 3 db	Note D	600 ohms
121Y	15-500	± 100 cps	± 1000 cps	± 3 KC	± 2 db	135,600Ω	—

All Sierra Carrier Frequency Voltmeters feature built-in calibration oscillators and circuits for level calibration, have aural monitoring jacks, and (except 103B) are furnished with Sierra Model 149A Precision Spiral Scale Dials. New Sierra 121Y CFVM, similar to Model 121A Analyzer but has special 20-pin connectors and selector switch for rapid patching to carrier racks.

†Contains carrier re-insertion oscillator for monitoring suppressed carrier systems. Furnished with planetary drive dial. Note A. Ranges from ± 2 KC at low end of dial to ± 3 KC at upper end. Note B. ± 1 KC in the 48 KC to 256 KC region. Note C. ± 1 db for + 30 db to —40 db attenuator steps on 135 ohm balanced measurements. Note D. All models may be converted for 135 and 600 ohm balanced line measurements by convenient plug-in bridging transformer, Model 130D.

LINE FAULT ANALYZER



Sierra 124A Line Fault Analyzer

Designed for rapid location of faults on cables, transmission lines. Instantly pin-points shorts, opens, grounds; indicates nature of fault as well as exact location. Easy to use, high resolution.

Model 124A Line Fault Analyzer operates on most OPEN WIRE power, communications lines. Direct reading, range ½ to 200 miles. Sweep marker continuously adjustable from 5 to 100 miles, locates faults with accuracy of ¼ mile. Request Bulletin 102.

New model 199A Cable Fault Analyzer designed for multi-conductor cables. Ideal for quality control in cable manufacturing! Operates with wide variety of cable types. Range to 2500 feet, accuracy ± 5%. Request Bulletin.

IMPEDANCE METER

Sierra Model 166 Carrier Systems Impedance Meter is specifically designed for the measurement of impedances on circuits with high noise levels at any frequency over the range 30 KC to 300 KC. Either high or low power signal sources may be used. Measurements may be made on "hot" power lines through a series carrier coupling capacitor. Request Bulletin 112.

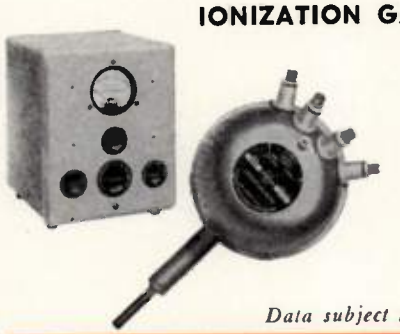
COAXIAL READOUT DEVICES

Insure sensitive readout for Sierra vhf-uhf Directional Couplers. Model 148 Crystal Detector, low VSWR, higher sensitivity to 1200 MC. Incorporates 50 ohm input impedance and filtered output. Type N input, BNC output connectors. Request Bulletin.

DOUBLE STUB TUNERS

New tuners match to a 50 ohm line any load having a 2:1 VSWR. Three models: 151 (155 MC to 300 MC); 152 (380 MC to 825 MC); 153 (900 MC to 1750 MC). Operates up to 1.5 KW peak power. Request Bulletin 110.

IONIZATION GAUGE AND AMPLIFIER



Model 193A Ionization Gauge and Model 192A Ionization Gauge Amplifier provide convenient, dependable and accurate monitoring of pressures during processing from 10^{-4} to 10^{-7} mm Hg. Monel-encased Phillips type ion gauges operate for months without attention; amplifier includes high voltage rf power supply, VTVM, heater transformer and low voltage supply. Request Bulletin 118.

Data subject to change without notice.

LOW PASS FILTERS



Model 184 Series Low Pass Filters have an insertion loss of not more than 0.4 db in pass band, sharp cut-off, 1.5 VSWR or less, and rejection greater than 60 db from 1.25 to 10 times cut-off frequency. Five models: for cut-off frequencies of 44, 76, 135, 230, 400 MC. Power range 250 watts in pass band, 25 watts in rejection band. Request Bulletin 115. *(Also higher frequency models. Request Bulletin M-23.)*

WIDEBAND DIRECTIONAL COUPLERS

Coupling Factor: (in db ± 1 db)

Model	10 KC	3 MC	10 MC	30 MC	100 MC	300 MC	1000 MC	2000 MC	Primary Line Connectors
137, 137A				73	63	53	43	37	Type N
138, 138A				59	49	39	29		Type N
145		52	42	32	22	12			Type N
150				53	43	33	23		Type N
212A				50	40				Type LC Female
213A				68	58	48			Type LC Female
214A					81	71			Type LC Female
139B	50	50							None

Directivity: 12 db ± 3 db greater than coupling factor at each frequency. e.g.: Model 145 at 100 MC has directivity of 34 db (22 + 12).

Impedance: Models 137 and 138 are 51.5 ohms. Models 137A, 138A, 145, 150, 212A, 213A and 214A are 50.0 ohms. Model 139B may be matched to most impedances encountered on open wire lines.

Power: Models 137, 137A, 138, 138A, 145, and 150 usable to 1000 watts. Models 212A, 213A and 214A usable to 150 KW peak. Model 139B usable to 50 KW or higher under certain conditions. See Bulletin 101.

Connectors: See table for primary line. Secondary line, type N, male, except 139B. Model 139B for open wire transmission lines.

THERMOPILE

Model 189A Differential Thermopile converts differential temperatures in flowing liquids to electrical energy. Internal resistance approx. 5 ohms, output voltage approx. 1 mv per °C, max. pressure 75 psi. Request Bulletin 119.

SIERRA ELECTRONIC CORPORATION

A Subsidiary of Philco Corporation

3753R-2

FIELD, LAB POWER MEASURING INSTRUMENTS

Sierra



Sierra 185A-15FN
Termination Wattmeter

TERMINATION WATTMETERS

Sierra 185A Series Average-Reading Termination Wattmeters and Sierra 195A Series Peak-Reading Termination Wattmeters are broadly useful, dependable new instructments for terminating rf coaxial transmission systems and measuring rf powers. All models are ruggedly built, conservatively rated, and ideal as dummy loads for testing and adjusting transmitters and oscillators. Request Bulletins 120 (average-reading) and 121 (peak-reading).

Model 185A Average-Reading Wattmeters

Model Number	Connector	Frequency Range, MC	Power Range, Watts	Accuracy % of F. S.	Max. Power Dissipation	Max. VSWR
185A-15FN	N	20-1000	0-5/15	± 5%	15 watts	1.2
185A-100FN	N	20-1000	0-30/100	± 5%	100 watts	1.2
185A-500FN	N	20-1000	0-150/500	± 5%	500 watts	1.2

Model 195A Peak-Reading Wattmeters

Model Number	Connector	Frequency Range, MC	Peak Power Range, KW	Max. Average Power	Pulse Width, μsec	Repetition Rate, PPS
195A-W*	N	950-1250	0-1 and 0-3	15 watts	3.0 to 5.0	48 to 300
195A-U*	HN	950-1250	0-5 and 0-15	500 watts	3.0 to 5.0	300 to 7200

NOTE: Female connectors are standard. *Available on special order only.

BI-DIRECTIONAL POWER MONITORS



Sierra 164
Power Monitor

Model 164 Series. Two plug-in elements cover 25 MC to 1,000 MC, measure incident and reflected power of 10, 50, 100 and 500 watts full scale. Also four lower power elements covering same range at 1, 5, 10 and 50 watts full scale. Power is read direct on linear scale accurate within ± 5%. Insertion VSWR less than 1.08 (Type N connectors) except on 1 watt ranges where VSWR is 1.15. 50 ohm impedance. Model 164 available with Type N or UHF connectors, male or female. Request Bulletin 111.

Plug-In Elements for Model 164

(Note: Model 164 does not include plug-ins. Order separately as needed.)

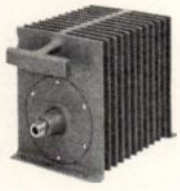
180 Series—1, 5, 10, 50 watts full scale
180–52: 25 MC to 52 MC
180–148: 50 MC to 148 MC
180–470: 144 MC to 470 MC
180–1000: 460 MC to 1,000 MC

270 Series—50, 100, 500, 1,000 watts full scale
270–75: 10 MC to 75 MC

181 Series—10, 50, 100, 500 watts full scale
181–250: 25 MC to 250 MC
181–1000: 200 MC to 1,000 MC

Accessories Available: Model 164-LS Equivalent Transmission Line Section; Model 164-CC Carrying Case.

50 OHM COAXIAL TERMINATIONS



New compact, light weight Model 160 series coaxial terminations feature stable operation over a wide frequency range and up to high ambient temperatures. High surface to volume ratio provide a very low VSWR from dc to 4,000 MC. Model 160–1: 1 watt; Model 160–5: 5 watts; Model 160–20: 20 watts; Model 160–100: 100 watts; Model 160–500: 500 watts. Request Bulletin 114.

CALORIMETER, X-BAND WATER LOAD





Model 190A Calorimeter and XB187A Water Load provide fast, accurate power measurement from a few watts to kilowatts. Accuracy ±2%. Calorimeter ranges 300, 600, 1,500, 3,000 watts, max. 50 psi, sensitivity 1.5 mv. Water Load range 7 KMC to 10 KMC, VSWR less than 1.2, power 1 Kw CW, 300 Kw peak. Request Bulletin 116.



MODEL 194A-A PEAK-READING POWER MONITOR

Model 194A-A quickly measures incident and reflected powers on radar and other pulsed systems. Measures peak power directly, independently of duty cycle. 200 MC to 1,215 MC. 1, 3, 10 and 30 Kw peak. ±5% full scale. From 1 μsec pulses, 400 pps up. HN connectors. Request Bulletin 122.

NEW! LIQUID-COOLED COAXIAL LOAD

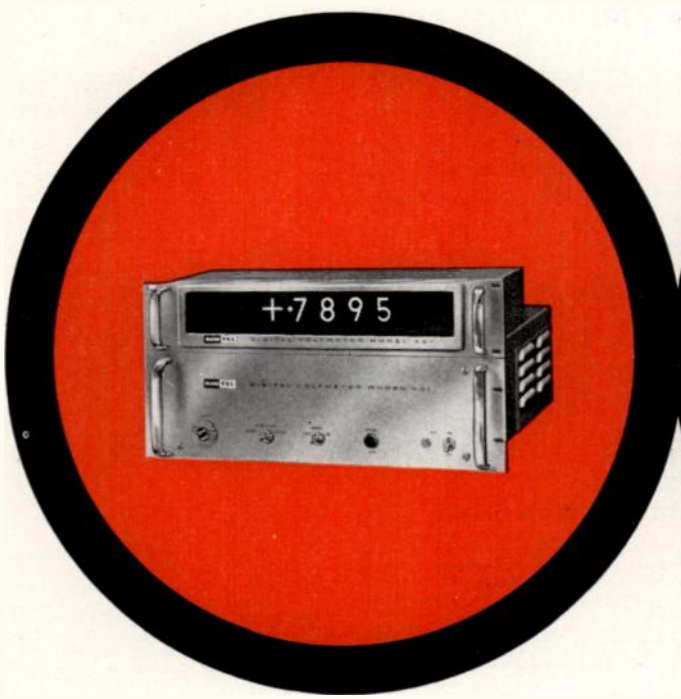


Completely new design! Model 186A-Z Coaxial Load comprises tapered coaxial section and film resistor on ceramic tube. For use with Sierra 190A Calorimeter in power measuring work on 1⅝" rigid line. UG-49/U connector. Ratings DC to 1500 MC with water coolant; DC to 4000 MC with oil coolant. VSWR less than 1.2. Power: Up to 2 Kw. Request bulletin.

MENLO PARK, CALIFORNIA, U. S. A.

Engineering Sales Representatives in all principal areas

Canada: Atlas Instrument Corp., Ltd., Toronto, Montreal, Vancouver, Winnipeg • Export: Frazar & Hansen, Ltd., San Francisco, New York, Los Angeles





DC DIGITAL VOLTMETER

OFFERS MAXIMUM RELIABILITY
0.01% ACCURACY...
SINGLE-PLANE READOUT...
AND MANY OTHER ADVANCED FEATURES
FOR ONLY $2100

The Model 401 offers four-digit display with automatic polarity indication and decimal placement . . . Measures .0001 to 999.9 volts with 0.01% ±1 digit accuracy . . . Adjustable least digit sensitivities of .1, 1, 10 mv . . . Average reading time of one second...Continuous, automatic standard cell calibration...10 megohms input impedance...Built-in printer drive...10 times longer readout bulb life...No circuitry in readout for easy remote mounting...Extra long relay life assured by DC drive.

KIN TEL manufactures an exceptionally complete line of digital instruments. These "digital building blocks" permit measurement of AC, ohms, ratios, and automatic scanning of multiple inputs. Preamplifiers increase digital voltmeter sensitivity to 1 microvolt DC and 10 microvolts AC. Buffers permit driving typewriters, tape punches, printers. Complete digital systems for data logging, missile checkout and production testing are available. Reliability and accuracy are assured by KIN TEL's experience in manufacturing more than 10,000 "standard cell accuracy" DC instruments. Sales and service are available nationwide.

ALL-ELECTRONIC DIGITAL VOLTMETER

MEASURES
MILLIVOLT TO KILOVOLT
WITH 0.1% ACCURACY
...COSTS ONLY $960

Four ranges: 0.000 to 1.599; 00.00 to 15.99; 000.0 to 159.9; 0000. to 1000 volts (manual ranging and polarity)...No moving parts...Digital in-line readout...70 millisecond conversion time...Adjustable display time ...0.1% of full scale accuracy...Direct voltage conversion circuit...Wide range of models.

KIN TEL's Model 801A all-electronic digital voltmeter measures DC from 0.001 to 1000 volts of 0.1% of full scale accuracy . . . and in less than 1/10 second, presents the measured voltage in clear numerical form on an in-line digital readout that even unskilled personnel can read with ease. *Direct* voltage measurement by successive approximation provides accuracy and sensitivity previously obtainable only in delicate, complex and expensive instruments. Extremely stable operation – continuous calibration against an internal reference. (Input impedance of the Model 801A is 20,000 ohms per volt. The Model 802, priced at $1190, has an input impedance of 10 megohms on all ranges. In other special models, the binary coded decimal and decimal outputs are externally available.)

KIN TEL – world's largest manufacturer of precision, chopper-stabilized DC instruments.

For details, circle #80 on Reader Service Card

WIDEBAND SINGLE ENDED DC AMPLIFIER

AMPLIFIES DATA SIGNALS FROM DC TO 40 KC WITH 2 MICROVOLT STABILITY

±2 microvolt stability... <5 microvolt noise... 40 kc bandwidth... 100 KΩ input, <1 ohm output impedance ...Gain of 20 to 1000 in ten steps with continuous one to two times variation of each step... ±45 V, ±40 ma output... 1.0% gain accuracy... 0.1% gain stability and linearity... Integral power supply.

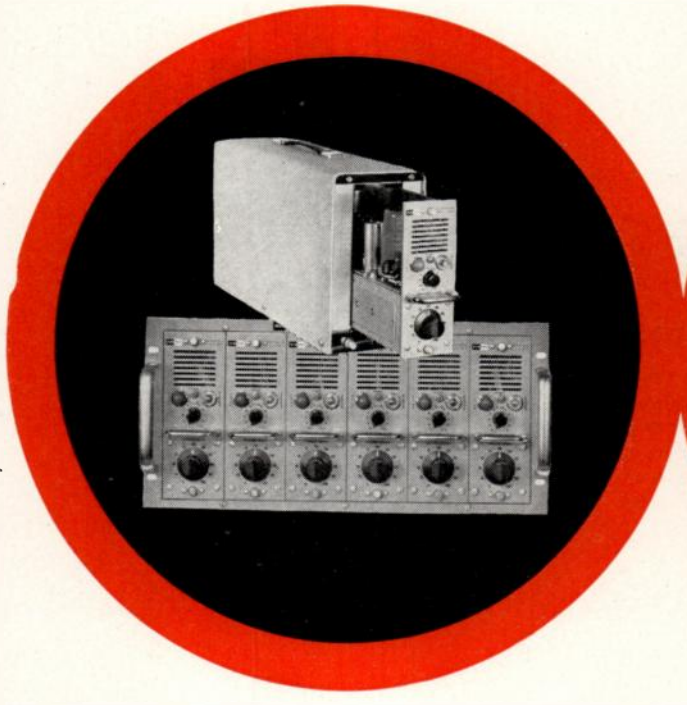
Millions of cumulative hours of operation have proved KIN TEL 111 series amplifiers to be the basic component for all data transmission, allowing simple, reliable measurement of strain, temperature and other phenomena. DC instrumentation systems–with their inherently greater accuracy, simplicity, and reliability than AC or carrier systems – are made entirely practical by the excellent dynamic performance, stability and accuracy of KIN TEL DC amplifiers. Price: 111BF – $575; six amplifier module – $200; single amplifier cabinet – $125.

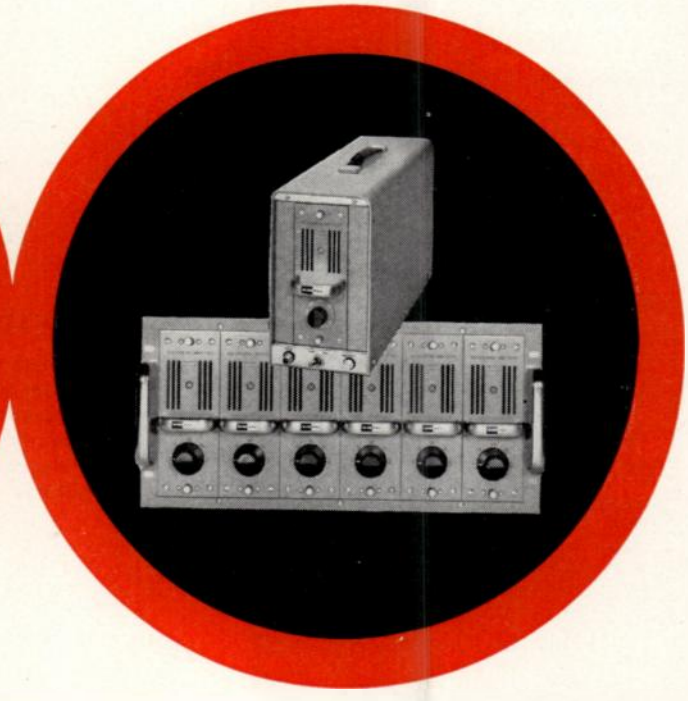
NEW...TRUE DIFFERENTIAL DC AMPLIFIERS

ELIMINATE GROUND LOOP PROBLEMS... RESCUE MICROVOLT SIGNALS FROM VOLTS OF NOISE

160 db DC, 120 db 60 cycle common mode rejection with balanced or unbalanced input... Input completely isolated from output... Input and output differential and floating... 5 microvolt stability for thousands of hours... 0.05% linearity, 0.1% gain stability... Gain of 10 to 1000 in five steps... >5 megohms input, <2 ohms output impedance... 10 volt at 10 ma output... 120 cycle bandwidth... Integral power supply.

Ideal for thermocouple amplification, the 114A eliminates ground loops; allows the use of a common transducer power supply; drives grounded, ungrounded or balanced loads; permits longer cable runs; and can be used inverting or non-inverting. The 114A can be mounted in either single amplifier cabinets or six amplifier 19″ rack adapter modules. Price: 114A – $675; Six amplifier module–$200; single amplifier cabinet–$125.





KIN TEL also manufactures DC microvoltmeters; microvolt-ammeters; "standard cell accuracy" DC power supplies and meter calibrators; electronic galvonometers; secondary DC standard and null voltmeters; digital instruments such as analog-to-digital converters and plug-in logic units; and an exceptionally complete line of industrial television equipment.

5725 KEARNY VILLA ROAD
SAN DIEGO 11, CALIFORNIA

KIN TEL
A Division of Cohu Electronics Inc.

Representatives in all major cities – Write today for detailed literature or demonstration.

Progress Through Increased Service

. . . to the electronics industry! This spirit spearheaded Tung-Sol's dynamic growth over the years. Today, it shows in Tung-Sol's constant effort to diversify, to make new and better components.

Underscoring Tung-Sol's steady diversification and product development, is rigid adherence to uniformly high standards of quality control. Tung-Sol has maintained these standards without compromise. They are your assurance of product performance . . . let you specify Tung-Sol, confident you specify the "best that can be made."

TUNG-SOL ELECTRIC Inc.
NEWARK 4, N. J.

* Products of CHATHAM ELECTRONICS, Division of Tung-Sol Electric Inc., Livingston, N. J.

INDUSTRY

Tung-Sol makes a wide range of tube types . . . tailors selenium rectifiers for diversified application throughout industrial and military electronic equipment.



AVIATION

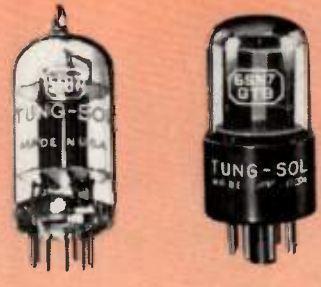
Tung-Sol's hydrogen thyratrons and power supplies meet the aircraft industry's exacting demand for precision performance both in airborne and ground control.



ts

ENTERTAINMENT

You can fill virtually every entertainment socket with Tung-Sol Blue Chip Quality tubes—cathode ray, series string, hybrid auto radio, TV, hi-fi and radio.



SEMICONDUCTORS

For reliability, long life of electronic equipment and manufacturing economies, specify Tung-Sol transistors in the JETEC 30 (TO-5 OUTLINE) package.



For details, circle #82 on Reader Service Card



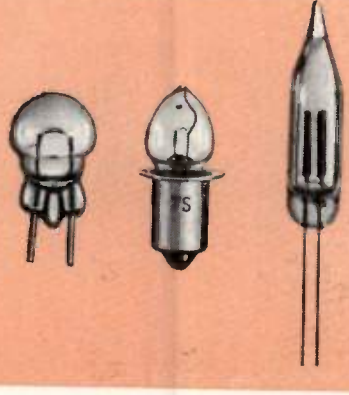
TUNG-SOL®



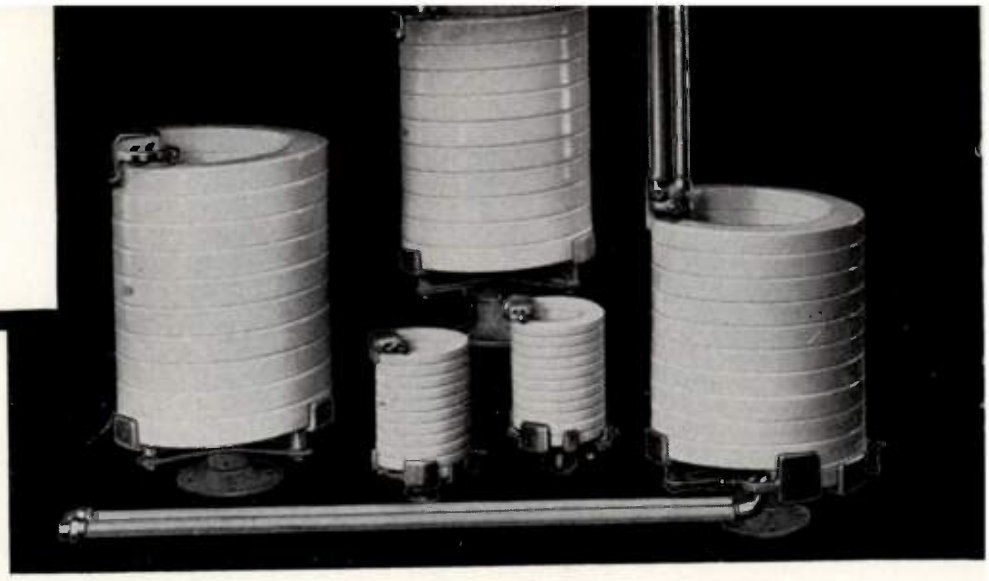


LAMPS

Neon glow and miniature incandescent lamps are two areas of Tung-Sol lamp leadership that dates from 1907 and development of the first successful electric automotive headlight.



Lapp





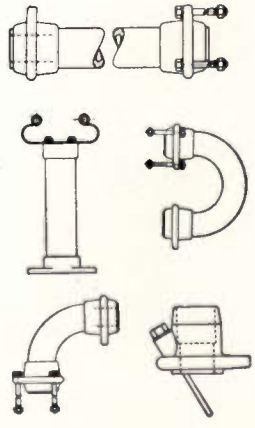
TUBE SUPPORTS
for air-cooled tubes

No longer is it necessary for equipment manufacturers to design supports for forced-air-cooled tubes. After producing many such special designs, Lapp has engineered and built a complete series of insulating supports for air-cooled tubes. Use of these supports facilitates design of transmitter and other high-power circuits. Simple, compact, efficient and attractive in appearance, in porcelain or steatite, they make for economical production, easy interchangeability, and availability of replacement units. Write for Bulletin 301, with complete description and specification data.

For details, circle #84 on Reader Service Card

INSULATION FOR WATER-COOLED SYSTEMS

For carrying cooling water which must undergo a change in potential, use of Lapp porcelain eliminates troubles arising from water contamination and conductivity, sludging and electrolytic attack of fittings. Permanent cleanness and high resistance of cooling water is assured—for positive cooling and long tube life.

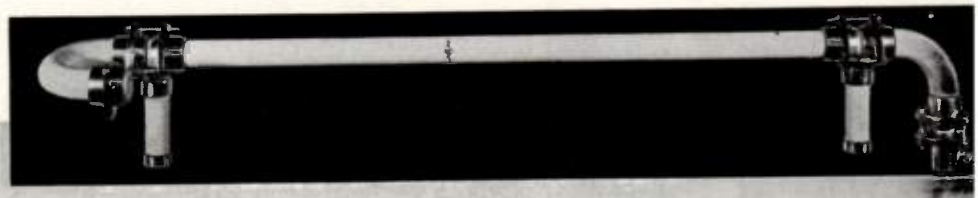


LAPP PORCELAIN WATER COILS

Twin-hole and single-hole models in sizes to provide flow of cooling water from 2 to 90 gallons per minute. Cast aluminum mounting bases, lead pipe or flexible metal hose for attachment.

LAPP PORCELAIN PIPE

Inside diameters ¾″ to 3″, in straight, 90° and 180° elbows, fittings. Swivel-type connections. Standoff insulators attach directly to fitting bolts. *Write for Bulletin 301 with specifications for Lapp Porcelain Water Coils and Porcelain Pipe.*





LAPP GAS-FILLED CONDENSERS

Capacitance for high-voltage, high-current duty

The record of more than 18 years' service, in thousands of installations, proves the reliability of the Lapp Gas-Filled Condenser. For duty at high voltages and high currents, this unit offers the advantages of extreme compactness . . . low loss . . . high safety factor . . . constant capacitance under temperature variation . . . grounded tuning shaft . . . and rugged sturdiness. Units available in four tank diameters, 7″ to 18″ . . . in fixed or variable capacitance . . . capacitances to 30,000 mmf; current ratings to 390 amps at 1 mc; voltages to 85 Kv peak. Write for Bulletin 302.



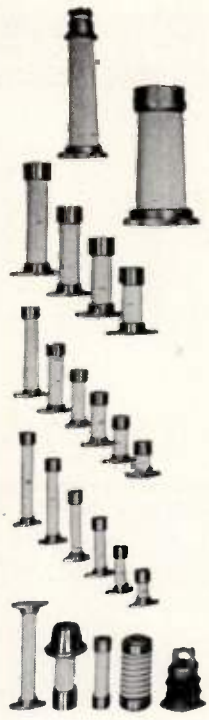
ENTRANCE INSULATORS

To eliminate losses which occur in ordinary types of bushings at radio frequency, Lapp units use air as major insulation, porcelain path being lengthened by its "bowl" shape. In wide variety of types for most electrical and mechanical requirements.

STAND-OFF INSULATORS

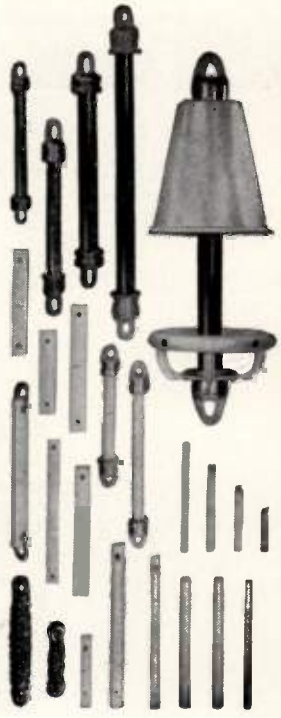
Dependable mechanical and electrical performance—and trim good looks. Hundreds of standard and special types available.

Write for Bulletin 301, listing entrance and stand-off insulators.

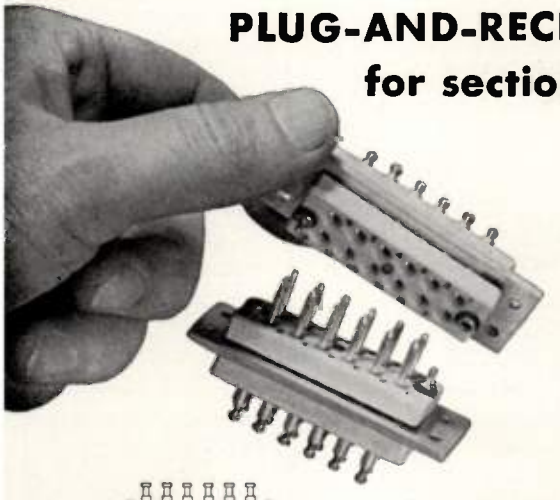


ANTENNA STRAIN INSULATORS

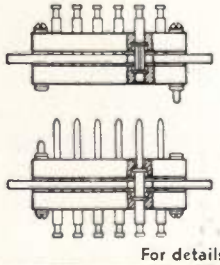
The largest of the porcelain rod insulators shown develops 12,000 lb. strength. Available, as specified, with rain shield and/or corona rings. Smaller units, in porcelain or steatite, for all strain or spreader use. Engineering and production facilities also available for special performance units See catalog 301.



PLUG-AND-RECEPTACLE UNITS for sectionalizing circuits

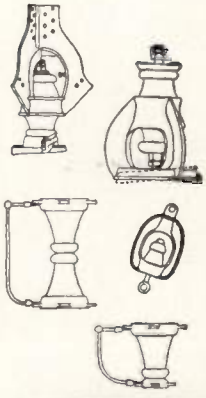


For panel-rack or other sectionalized circuits, Lapp offers a variety of plug-and-receptacle units. Any number of contacts can be provided (in multiples of twelve). Male and female contacts are full floating, for easy alignment and positive contact. Contacts silver plated, terminals tinned for soldering. Insulation is steatite, the low-loss ceramic . . . non-carbonizing even under leakage flashover resulting from contamination, moisture or humidity. Write for complete electrical and mechanical specifications and recommendations.



For details, circle #85 on Reader Service Card

ANTENNA TOWER INSULATORS



Most of the world's radio towers are supported by Lapp insulators, including the tallest guyed mast ever built. Through the Lapp "compression cone," immense loads can be carried by electrical porcelain. Write for data on Lapp footing insulators for self-supporting radiators, mast-base insulators, or guy insulators.



SPECIAL ASSEMBLIES

Lapp business is electrical porcelain, its application, design, manufacture, and assembly. Our skill is in our knowledge of the capabilities, and limitations, of ceramic insulation . . . in engineering ingenuity to meet specified requirements . . . and in efficient production. If you have need for insulating parts and associated sub-assemblies, we may be able to show you how they can be made most economically, to perform most efficiently.

Lapp

LAPP INSULATOR CO., INC.
RADIO SPECIALTIES DIVISION
150 SUMNER ST., LEROY, N. Y.

YOUR IRE DIRECTORY TO SEMICONDUCTOR

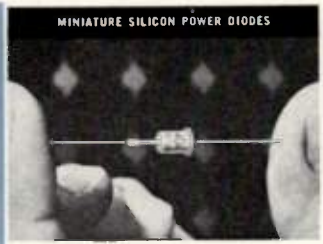
A PARTIAL LISTING OF INTERNATIONAL ...THE MOST EXTENSIVE

ELECTRONIC TYPES FOR INDUSTRIAL AND MILITARY APPLICATIONS

SILICON AND SELENIUM LOW CURRENT TYPES TO 1 AMP.

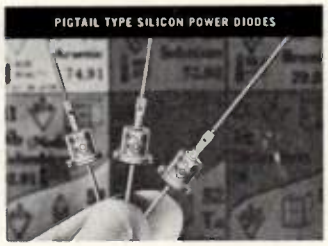
***SPECIAL MILITARY TYPES**
Special configurations and high reliability rectifiers for military applications may be obtained under our "Prescribed Reliability" Program. Address your inquiry to: Military Products Dept.

MINIATURE SILICON POWER DIODES



Ratings: 100 to 600 PIV, Up to 500 ma.
Specifically designed for missile and airborne equipment applications where miniaturization and reliability are prime factors. Hermetically sealed, all-welded, pigtail lead construction. Manufactured to meet the most rigid military requirements. Request **Bulletin SR-203**

PIGTAIL TYPE SILICON POWER DIODES



Ratings: 50 to 600 volts PIV • 250 to 750 ma.
An extensive line of silicon power diodes for military and industrial applications featuring all-welded, hermetically sealed construction. All designed and manufactured to meet the most rigid military requirements. For information on types for your application **Contact Factory**

STUD MOUNTED SILICON POWER DIODES



Ratings: 50 to 600 volts PIV • 400 ma. to 1 amp.
Industrial and military types including the 1N253, 1N254 and 1N255. Stud mounted, hermetically sealed, all-welded construction. Operating temperature range: –55°C to +150°C. Designed and manufactured to meet most rigid military specifications. **Bulletin SR-135C**

SUB MINIATURE SELENIUM DIODES



Ratings: 20 to 160 volts • 100μa to 11 ma.
Ideal components for bias supplies, sensitive relays, computers etc. High resistance, (10 megohms and higher at –10 volts). Excellent linear forward characteristics. Extremely small, low in cost. Encapsulated to resist adverse environmental extremes. Specify **Bulletin SD-1B.**

SELENIUM RECTIFIER STACKS



Ratings: From 100 ma. to 50 Amps.
Low forward voltage drop and low leakage characteristics make this series ideal for a wide variety of power applications. For details request **Bulletin C-439,** (26 volt cells); **Bulletin SR-160,** (45 to 52 volts per cell) and **Bulletin SR-152,** on high current density cells.

SELENIUM TV AND RADIO RECTIFIERS



Ratings: 25 to 156 volts AC, 50 to 1,200 ma. DC
The widest range in the industry! Designed for Radio, Television, TV booster, UHF converter and experimental applications. Input ratings from 25 to 156 volts AC and up. DC output current 50 to 1,200 MA. Write for application information. **Bulletin ER-178-A**

SILICON TV RECTIFIERS



Ratings: 400 PIV, up to 750 ma.
SD-500. A hermetically sealed, all-welded silicon junction rectifier offering maximum reliability in the high temperatures encountered in TV applications. Pigtail leads eliminate the need for brackets, blocks, etc., simplify installation. For complete data: **Contact Factory.**

HIGH Q VOLTAGE VARIABLE CAPACITOR



Ratings: Q of 1000, 200 PIV DC
Semicap's small size, light weight, high reliability and low power requirements make it ideal for automatic frequency control, frequency modulation oscillators and filter networks. All-welded hermetically sealed, shock-proof housing. Request **Bulletin SR-205.**

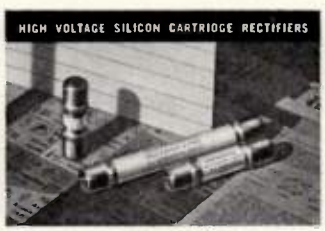
SILICON AND SELENIUM HIGH VOLTAGE TYPES

HIGH VOLTAGE SILICON POWER DIODES



Rating: 600 to 2400 volts PIV • 100 to 125 ma.
Three types available. Hermetically sealed, pigtail construction. Style J rated at 600 to 1000 volts PIV at 125 ma. **Bulletin SR-138E** Styles K and L with PIV ratings from 600 to 2400 volts at 100 ma. dc output current are described in technical detail—**Bulletin SR-157.**

HIGH VOLTAGE SILICON CARTRIDGE RECTIFIERS



Ratings: 1500 to 16,0000 volts PIV @ 45 to 440 ma.
Especially suited for miniaturized military equipment where optimum reliability is a prime factor. Standard types for normal convection cooling and high current types for forced air or oil cooling. Hermetically sealed, metallized ceramic housing. Request **Bulletin SR-225**

SELENIUM HIGH VOLTAGE CARTRIDGE RECTIFIERS



Ratings: 20 to 20,000 volts • 0.2 to 195 ma.
Designed for long life and reliability in half-wave, voltage doubler, bridge, center-tap circuits, and 3-phase circuit types. Phenolic cartridges and hermetically sealed types available. Operating temperature range: –65°C to +100°C. For details specify **Bulletin H-2.**

SPECIAL HIGH VOLTAGE TYPES



Rating: 12,500 volts PIV at 5 Amps.
Illustrated above is a typical rectifier of advanced design produced by International Rectifier Corporation for military application. Data on ruggedized silicon substitutes for many standard vacuum tubes may be obtained from our Military Products Department.

For details, circle #86 on Reader Service Card

International

EXECUTIVE OFFICES: EL SEGUNDO, CALIF.

The World's Largest Supplier of Industrial Metallic Rectifiers • Selenium • Germanium • Silicon

WRH

RECTIFIERS FOR ALL DC REQUIREMENTS...FROM MICROWATTS TO MEGAWATTS!

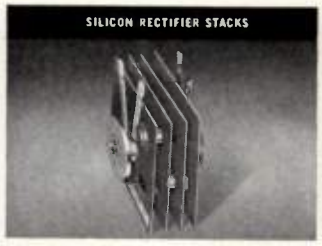
RECTIFIER CORPORATION PRODUCTS

LINE OF QUALITY RECTIFIERS ON EARTH!

All designed and manufactured to meet the most rigid military requirements!

POWER TYPES FOR INDUSTRIAL AND MILITARY APPLICATIONS

SILICON AND SELENIUM MEDIUM CURRENT TYPES TO 150 AMPS.



Utilizing junctions rated to 1.25 amps DC output
These stacks consist of hermetically sealed junction diodes mounted on copper cooling fins, stacked to include the interconnections required for specific circuits. Junction ratings: 1.25 amps. DC output: 70 to 350 AC input volts rms. Request **Bulletin SR-137A**



Conservatively rated to provide a substantial safety factor in industrial applications. Hermetically sealed, all-welded case construction provides reliability over a long life. Types available in a wide voltage range. For details **Contact Factory.**

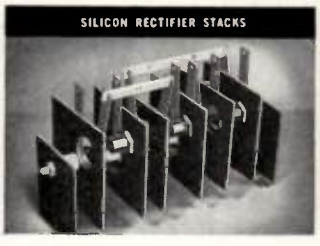


Rating: 50 to 500 volts PIV • 25 to 45 Amps.
Advanced ceramic techniques assuring excellent thermal characteristics and mechanical stability are used in the production of these highly reliable, hermetically sealed rectifiers for military or industrial applications. For complete technical data, request **Bulletin SR-304**



Ratings: 50 to 800 volts PIV • 45 to 150 Amps.
An extensive series of standard and reverse polarity types. Optional mounting bases including machine thread and pipe thread types. Machine thread base types: **Bulletin SR-300,** Pipe thread base types. **Bulletin SR-301,** Complete stack assemblies: **Bulletin SR-302**

SILICON, SELENIUM AND GERMANIUM HIGH CURRENT TYPES TO 670 AMPS. PER JUNCTION



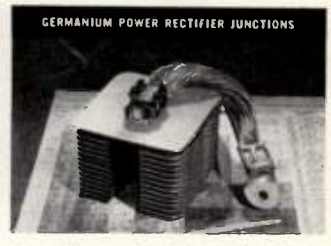
Ratings: 45 to 150 Amperes per Junction
Consisting of hermetically sealed junction diodes mounted on aluminum or copper cooling fins, stacked to include the interconnections required for specific circuits. Junction ratings: 45 to 150 amps average DC. Write for application data.



Ratings: 50 to 500 volts PIV • 75 to 250 Amps.
Standard and reverse polarity types offered in a series of machine thread and pipe thread mounting styles. Complete assemblies in all circuit configurations also available. Rugged construction and hermetic sealing assure long life and reliability. Ask for **Bulletin SR-305**



Ratings: 6 to 30,000 volts • 50 to 2,300 Amps.
Specifically designed for industrial DC power needs. Patented construction features assure long life. Descriptive bulletins available are: **Bulletin C-349,** (26 volt cells); **Bulletin SR-160,** (45 to 52 volts per cell) and **Bulletin SR-152,** on high current density cells.

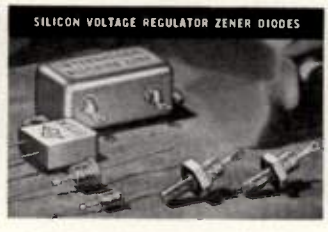


Ratings: 500 amperes • 26 to 66 volts rms
High capacity junctions especially designed for high-current, low-voltage electrochemical installations. Air cooled, these hermetically sealed junctions provide efficiency to 98.5%. Cast aluminum airfoil housing effects maximum heat transfer. For details **Contact Factory.**

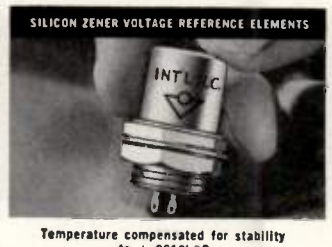
SPECIAL SEMI-CONDUCTOR DEVICES



Complete series of AC and DC types.
Designed to eliminate arcing and erosion across the contacts of relays, switches, etc. A complete series in each of three basic types: diode type, cartridge type and hermetically sealed types for industrial application. For complete data: **Bulletin SR-150-A**



Ratings: From 600 milliwatts to 10 watts
A complete series in 6 types. Miniature single junction types, multiple junction types and double anode units. 750 milliwatt and 1 watt types: **Bulletin SR-251,** 3.5 and 10 watt types: **Bulletin SR-252,** Multiple junction 5 watt types: SR-253, Double anode types: SR-254



Temperature compensated for stability to ±.001% °C
Extremely precise units for power supplies and voltage sources. Temperature compensated for excellent stability over a temperature range of from −55°C to +150°C. Manufactured to meet the most rigid military requirements. Types 1N430, 1N430A, 1N430B. **Bulletin SR-255**



(Wide range of silicon and selenium types.)
Self-generating cells available in standard and custom sizes, mounted or unmounted. For details on wide selection of selenium types, request **Bulletin PC-649.** Silicon solar cells in mounted and unmounted types are described in technical detail—specify **Bulletin SR-156.**

For details, circle #87 on Reader Service Card

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REPRESENTATIVES THROUGHOUT THE WORLD

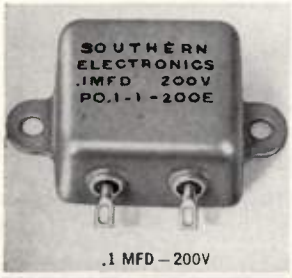
WRH

where precision counts—it's S.E.C. first!

PLASTIC PRECISION CAPACITORS



Tubular .1 MFD—200V



.1 MFD—200V


10 MFD ± 1% 200V
(4 7/16 x 3 1/16 x 2 1/8)


5 MFD—100V (1¾ x 1¼ x 1⅛)


1 MFD—200V


Adjustable
(1 3/16 x 1 1/16 x 11 1/16)


Plug in (1 MFD—150V)

1. POLYSTYRENE

with these outstanding properties:

- Tolerances as close as **0.1%**
- Insulation Resistance as HIGH as 1 x 10^{12}
- Dielectric Absorption as LOW as .0001
- Dissipation Factor as LOW as .0002
- Temperature Coefficient...100PPM per °C
- Stability as close as .05% drift in 1 yr.
- Voltage Derating...none to 170°F.
- **Hermetically sealed for enduring accuracy!**

also available:

- Many other case styles or mounting brackets
- Any capacitance from .001 to 50 MFD (incl. special values)
- Voltages from 50 to 5000

2. POLYESTER

with these outstanding properties:

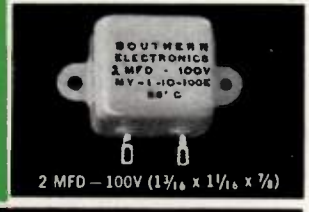
- Tolerances as close as 1%
- Insulation Resistance as HIGH as 1 x 10^{11}
- Dielectric Absorption as LOW as .001
- Dissipation Factor as LOW as .003
- Temperature Coefficient...800 PPM per°C
- Temperature range.....to 150°C.
- **Hermetically sealed for enduring accuracy!**


4 MFD—300V (2 x 2 x 1)


120 MFD ± 10% 50V



Plug in (4 MFD—150V)



2 MFD—100V (1 3/16 x 1 1/16 x ⅞)



1 MFD—400V (1¾ x 1¼ x 1)

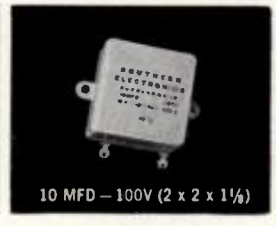


.01 Tubular (.175 x ¾)

.1 Tubular (.312 x 1)



Printed Circuit Small .11 MFD—50V


10 MFD—100V (2 x 2 x 1⅛)



3. RC NETWORKS

- Close tolerances
- Hi-grade precision resistors
- Potted units
- Meet mil specs

Many other types of precision RC Networks available!

S.E.C. PRODUCTS HAVE BEEN SPECIFIED IN SEVERAL MISSILE APPLICATIONS!

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PIONEERS IN CUSTOM PRECISION CAPACITOR ENGINEERING

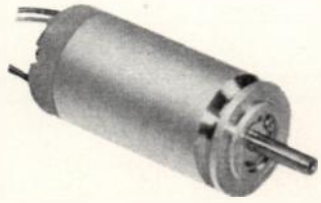
For details, circle #88 on Reader Service Card

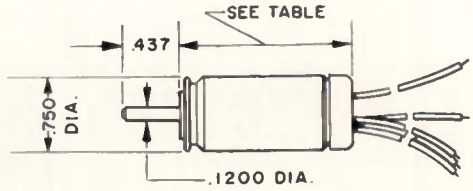
Bendix Supermarket



For details, circle #89 on Reader Service Card

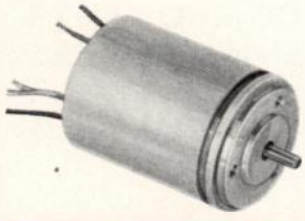
AUTOSYN® SYNCHROS

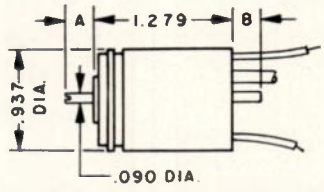




		CORROSION RESISTANT	
AY-300 SERIES SIZE 8 FRAME	**FUNCTION**	**STANDARD HOUSING Length — 1.692"**	**SHORT HOUSING Length — 1.241"**
	Receiver	AY-300- 2-A1*	AY-300S-12-A1
	Control Transformer	AY-300-25-A1	AY-300S-15-A1
	Transmitter	AY-300-26-A1	AY-300S-16-A1
	Control Transformer (HI-Z)	AY-300-38-A1	AY-300S-18-A1
	Resolver	AY-320-25-A1	AY-320S-17-A1
	Differential	AY-330-25-A1	AY-330S-15-A1

*Receiver not normally furnished in corrosion resistant construction.

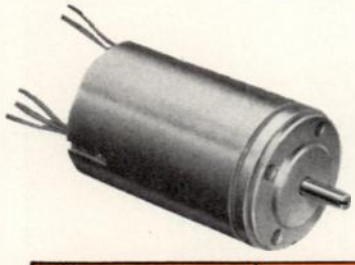


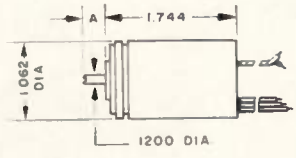


TYPICAL NO.	DIMENSION A	DIMENSION B
AY-500-2	¼	0
AY-502-2	¼	¼
AY-503-2	⅜	0

	FUNCTION	STANDARD CONSTRUCTION	CORROSION RESISTANT	HIGH TEMPERATURE
AY-500 SERIES SIZE 10 FRAME	Receiver	AY-50□- 2-A1		
	Receiver		AY-50□F-20-A1	
	Control Transformer	AY-50□- 3-A1	AY-50□ -25-A1	
	Transmitter	AY-50□- 4-A1	AY-50□ -26-A1	AY-50□-8-A1
	Transmitter		AY-50□F-19-A1	
	Control Transformer (HI-Z)	AY-50□- 5-A1	AY-50□ -38-A1	
	Linear	AY-51□-10-A1		
	Resolver	AY-52□- 3-A1	AY-52□ -25-A1	
	Differential	AY-53□- 3-A1	AY-53□ -25-A1	
	Resolver (HI-Z)	AY-54□- 5-A1	AY-54□ -38-A1	
	Resolver (HI-Frequency)	AY-55□-24-A1	AY-55□ -39-A1	

Units listed can be furnished with terminal lugs.





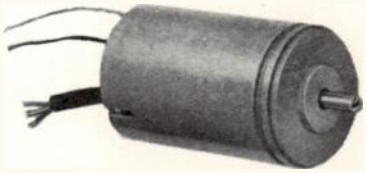
TYPICAL NO.	DIMENSION A
AY-600-1	5/16
AY-601-1	½
AY-935-A1	½

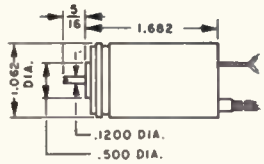
	FUNCTION	STANDARD CONSTRUCTION	CORROSION RESISTANT	HIGH TEMP. AND CORROSION RESISTANT
AY-600 SERIES SIZE 11 FRAME	Multi-Power Transmitter	AY-60□- 1-A1	AY-60□- 6-A1	
	Control Transformer	AY-60□- 3-A1	AY-60□- 5-A1	AY-60□-12-A1
	Control Transformer (Med. Z)		AY-60□-11-A1	AY-60□- 9-A1
	Single-Power Transmitter	AY-60□- 8-A1		
	Receiver	AY-60□-10-A1		
	Resolver	AY-62□- 3-A1	AY-62□- 5-A1	
	Resolver (HI-Z)		AY-62□-18-A1	
	Differential		AY-63□- 5-A1	AY-63□-12-A1
	Control Transformer (HI-Z)		AY-935-A1	

Units listed have loose leads. Can also be furnished with terminal boards.

For details, circle #90 on Reader Service Card

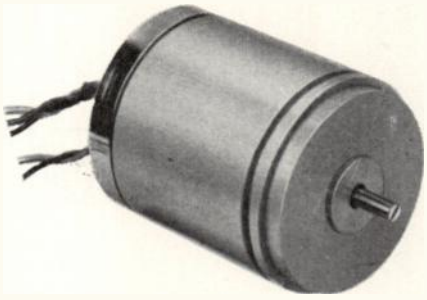
AUTOSYN® SYNCHROS

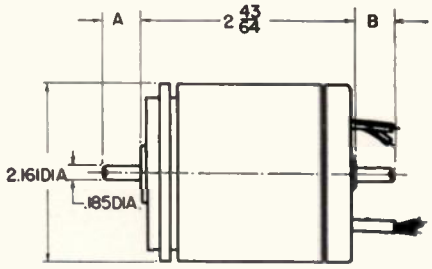




AY-190 SERIES SIZE 11 FRAME	FUNCTION	CORROSION RESISTANT
	Transmitter	AY-190-A1
	Control Transformer	AY-191-A1
	Resolver	AY-192-A1
	Differential	AY-193-A1
	Receiver	AY-194-A1*

*Receiver not normally furnished in corrosion resistant construction.

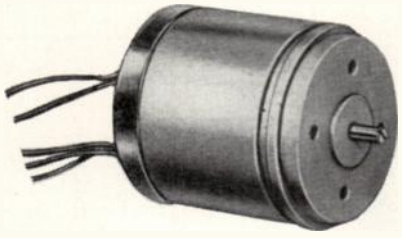


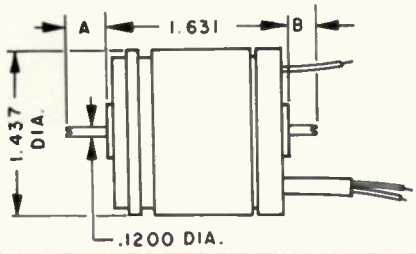


AY-400 SERIES SIZE 22 FRAME	FUNCTION	STANDARD CONSTRUCTION	CORROSION RESISTANT
	Transmitter	AY-40□-1-A	AY-40□-2-A
	Differential	AY-43□-1-A	AY-43□-2-A

TYPE NO.	DIMENSION A	DIMENSION B
AY-401-1	½	0
AY-402-1	½	½

Units listed have loose leads. Can also be furnished with terminal boards.





TYPICAL NO.	DIMENSION A	DIMENSION B
AY-200-1	¼	0
AY-201-1	½	0
AY-202-1	7/16	3/8
AY-910	19/32	0
AY-920	½	0

AY-200 SERIES SIZE 15 FRAME	FUNCTION	STANDARD CONSTRUCTION	CORROSION RESISTANT	HIGH TEMPERATURE
	Multi-Power Transmitter	AY-20□S- 1-B	AY-20□S-44-B	
	Receiver	AY-20□S- 2-B	AY-20□S-52-B	
	Control Transformer	AY-20□S- 3-B	AY-20□S-25-B	
	Single-Power Transmitter	AY-20□S- 4-B	AY-20□S-26-B	AY-20□S-31-B
	Control Transformer (HI-Z)	AY-20□S- 5-B	AY-20□S-38-B	
	Linear		AY-21□S-42-B	AY-21□S-48-B
	Resolver (HI-Z)	AY-22□S- 5-B	AY-22□S-38-B	
	Resolver	AY-22□S-27-B	AY-22□S-25-B	
	Resolver (HI-Accuracy)		AY-22□S-51-B	
	Differential (Servo Application)	AY-23□S- 3-B	AY-23□S-25-B	
	Differential (Synchronous Application)	AY-23□S- 4-B		
	Resolver (Omni Application)	AY-24□S- 5-B		
	Resolver (HI-Frequency)	AY-25□S-24-B	AY-25□S-39-B	
	Resolver, Control Transformer	AY-26□S- 3-B		
	Variable Transformer	AY-27□S-43-B	AY-27□S-46-B	AY-27□S-46-B
	Resolver (Feedback)		AY-910-A-1	
	Control Transformer (HI-Z)		AY-920-A1	

Units listed have loose leads. Can also be furnished with terminal boards. AY-910 is furnished with terminal board.

For details, circle #91 on Reader Service Card

For details, circle #92 on Reader Service Card

MOTORS AND GENERATORS

LOW INERTIA SERVO MOTORS



TYPE NO.	RATED VOLTAGE PHASE 1	RATED VOLTAGE PHASE 2	MAX. POWER INPUT TOTAL (WATTS)	NO LOAD SPEED (RPM)	STALL TORQUE (OZ. IN.)	TORQUE TO INERTIA RATIO (RADIANS-SEC.^{2})	FRAME SIZE	REMARKS
CK-1018-7-A1	18	18	5.0	10,000	0.13	18,400	10	Tapered Shaft
CK-1018-16-A1	26	26	6.0	10,000	0.3	40,000	10	125°C Ambient Temp. Corrosion Resistant, Tapered Shaft
CK-1025-13-A1	115	115/57.5	12.0	4,800	1.45	31,000	15	MK 7 Mod. 1
CK-1031-18-A1	26	55	9.0	6,175	0.35	10,000	10	Corrosion Resistant
CK-1038-17-A1	26	50	4.75	5,500	0.39	14,500	15	Pinion on Tapered Shaft
CK-1041-19-A1	26	65	6.6	3,600	0.7	3,500	15	Drag Cup
CK-1043-17-A1	26	50	4.75	5,500	0.39	14,500	15	Tapered Shaft
CK-1045-16-A1	26	26	6.0	10,000	0.3	40,000	10	125°C Ambient Temp. Corrosion Resistant, Splined Shaft
CK-1048-24-A1	18	18	3.0	6,300	0.15	21,300	8	Splined Shaft
CK-1048-31-A1	26	26	4.5	6,300	0.20	28,300	8	Splined Shaft
CK-1049-25-A1	26	26	6.5	5,800	0.35	19,000	8	Splined Shaft
CK-1066-40-A1	26	26	3.2	9,500	0.11	35,000	5	Tapered Shaft
CK-2006-5-A1	115	115	30.0	6,600	3.0	5,700	20	
CK-2006-13-A1	115	115	26.0	6,000	2.5	41,500	20	Corrosion Resistant, Tapered Shaft with Threaded End
CK-2011-13-A1	115	115	26.0	6,000	2.5	41,500	20	Corrosion Resistant, Pinioned Shaft
CK-3004-4-A1	115	230	70.0	3,700	14.5	5,800	28	

TACHOMETER GENERATORS



TYPE NUMBER	FRAME SIZE	GENERATOR EXCITATION (VOLTS)	GENERATOR OUTPUT (VOLTS)	LINEARITY	POWER INPUT (WATTS)	PHASE SHIFT	INERTIA	TEMPERATURE RANGE	REMARKS
FT-102-4-A1	10	26	0.5/1000	0.5% to 4000 rpm	1.75	Less than 10°	0.5 gm-cm^2	−55°C to +125°C	Damping
FT-102-5-A1	10	18	0.34/1000	0.5% to 4000 rpm	3.5	Less than 10°	0.4 gm-cm^2	−55°C to +95°C	Damping
FT-104-6-A1	11	115	0.55/1000	0.5% to 4000 rpm	2.4	20°	0.6 gm-cm^2	−55°C to +95°C	Damping
FT-2000-1-A1	20	115	2/1000	0.15% to 3000 rpm	8	0 ± 0.1°	100 gm-cm^2	15°C to 75°C	Integrating
X1290426-1	10	26	0.30/1000	0.5% to 4000 rpm	6	12° ± 10°	0.4 gm-cm^2	−55°C to +95°C	Damping, Temp Compensated

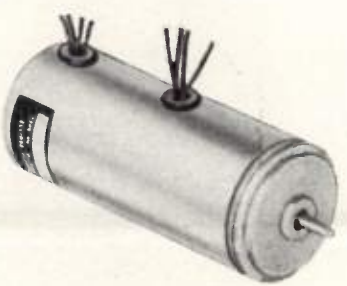
For details, circle #93 on Reader Service Card

MOTOR GENERATORS — CENTER TAPPED CONTROL WINDINGS



TYPE NUMBER	FRAME SIZE	CONT. PHASE VOLT.	CENTER TAPPED CONTROL PHASE TOTAL			POWER CONT. PHASE	FIXED PHASE VOLT.	FIXED PHASE			POWER FIXED PHASE	EFFECTIVE RESISTANT CONTROL PHASE	TORQUE
			Z	R	X			Z	R	X			
FV100-12-A1	10	33	241	175	167	3.3	26	146	105	101	3.3	335	.3
1265271	8	55	750	597	450	3.19	26	170	142	93	3.25	960	.3
1265272	10	52	584	419	405	3.3	26	146	105	101	3.3	830	.3
1265273	11	40	263	151	215	3.5	115	2175	1250	1780	3.5	460	.63
1269605	8	26	290	240	158	2.2	26	290	240	158	2.2	310	.2
1269606	10	26	290	240	158	2.2	26	290	240	158	2.2	310	.2
1269702	8	52	680	568	372	3.25	26	170	142	93	3.25	830	.3

MOTOR GENERATORS



TYPE NO.	RATED VOLTAGE		MAX. POWER INPUT TOTAL (WATTS)	NO LOAD SPEED (RPM)	STALL TORQUE (OZ. IN.)	TORQUE TO INERTIA RATIO (RADIANS-SEC.²)	GEN. EXCIT. (VOLTS)	GENERATOR OUTPUT (VOLTS)	FRAME SIZE	REMARKS
	PHASE 1	PHASE 2								
FV-10 □-5-A1	26	26	7.0	10,000	0.28	20,000	18	0.3/1000	10	Corrosion Resistant
FV-10 □-7-A1	26	26	9.7	6,000	0.50	22,000	26	0.5/1000	11	High Temperature Corrosion Resistant
FV-103-6-A1	115	115/57.5	7.0	6,200	0.60	25,500	115	0.5/1000	11	
FV-105-15-A2	26	26	7.0	10,000	0.28	6,000	18	0.34/1000	10	High Inertia Rotor
FV-109-10-A1	26	26	7.0	10,000	0.28	14,000	18	0.3/1000	10	Includes Permanent Magnet Generator for Speed Measurement
FV-110-12-A1	33	52	7.0	10,000	0.28	20,000	26	0.5/1000	10	Corrosion Resistant
FV-110-9-A1	26	52/26	7.0	10,000	0.28	20,000	26	0.5/1000	10	Corrosion Resistant
FV-112-11-A1	18	18	3.0	6,300	0.15	13,000	18	0.25/1000	8	Corrosion Resistant
FV-120-14-A1	26	26	6.0	20,000	0.16	11,400	26	0.25/1000	10	Two Pole Motor
FV-124-16-A1	26	26	7.0	10,000	0.28	20,000	26	0.25/1000	10	Temperature Compensated Generator —55°C to +125°C
FV-125-17-A1	26	26	7.0	10,000	0.28	14,000	26	0.3/1000	10	Includes Permanent Magnet Generator, Temperature Compensated Generator, —55°C to +95°C
FV-2005-5-A1	115	115/57	26.0	6,000	2.5	39,000	115	0.5/1000	20	Corrosion Resistant
FV-3005-5-A1	115	230/115	70.0	3,700	14.5	4,200	115	0.5/1000	28	

For details, circle #94 on Reader Service Card

PRECISION GYROS FOR ALL APPLICATIONS

Eclipse-Pioneer . . . the nation's foremost supplier of panel indicator gyros . . . offers a complete line of gyros to meet all applications. This group includes all the basic vertical, rate, free, and directional types used as reference components in complete navigation, radar, compass, automatic flight control, and guidance systems.



CAGEABLE FREE GYRO TYPE NUMBER 17224-1-A

FEATURES: Designed specifically for missile application where maximum operating temperature of 350°F. allows location near missile skin. Caging time of 8 secs. achieved through solenoid-link mechanism, thus replacing standard motor-gear train caging mechanisms.

MOTOR: 115 volts, 400 cps, 3 phase with rated speed of 22,000 rpm and a rotor moment of inertia of 1260 gram-cm².

DRIFT RATE: Will not exceed 4° per hour when subjected to Scorsby test at amplitude of ± 15° and rate of approximately 6 cpm (corrected for earth's rotation).

PICKOFF: Potentiometer pickoff available on inner and outer gimbal axes. May be excited by either dc or ac source potential. 360° freedom on outer axis and ± 85° on inner axis.

CAGING AND UNCAGING: Can be caged and uncaged remotely by applying 28 volts dc. Positive mechanical locking in cage position. Dynamic caging up to roll rates of 30°/sec. Will cage consistently from any position within 8 secs. with gyro rotor at full speed. Application of 28 volts dc will uncage within 0.1 seconds.

WARM-UP TIME: 90% of rated speed in one minute.

ENVIRONMENTAL CHARACTERISTICS: Maximum operating temperature of 350°F. and a minimum of —55°F. Maximum allowable shock is 60 g. with maximum operating vibration of 7 g. (from 10 to 550 cps). Maximum excursion not to exceed 0.5 in. Positive hermetic seal.

OPERATING LIFE: Minimum of 1000 hours.

OVERALL SIZE: 4 inches x 5 inches (less connector).

WEIGHT: Approximately 4.2 lbs.



RATE GYRO TYPE NUMBER 15823

FEATURES: Integral heater for temperature compensation. Hermetically sealed. Null reset externally accessible.

MOTOR: 26 volts, 400 cps, 3 phase with rated speed of 22,000 rpm and a rotor moment of inertia of 175 gram-cm².

PICKOFF: 26 volts, 400 cps, single phase with "E" type variable coupling. With resistive load of 10,000 ohms tuned output is 6 to 7 volts at maximum rate. Null is 30 millivolts with an armature travel of 2½° to 3° either side of null.

DAMPING: Accomplished by fluid flotation of gimbal. Heater and thermostat provided for controlling the viscosity of the damping fluid. Damping factor is 0.5 to 0.7 of critical, but values up to and including 1.0 of critical can be provided.

RUN-UP TIME: 45 seconds.

RANGE: Maximum rate obtainable 250°/second. Variations in range rates less than 250°/second are available.

ENVIRONMENTAL CHARACTERISTICS: —54°C. to +71°C. operating temperature range. Positive hermetic seal.

SIZE: 2 23/64" diameter x 3¼" long.

WEIGHT: Approximately 1 lb.



VERTICAL GYRO TRANSMITTER TYPE NUMBER 14126-1-A

This Vertical Gyro Transmitter provides roll and pitch displacement signals which will operate remote indicating devices or which can be used wherever attitude information could be applied. It consists of an electrically driven, torquer erected, vertical-seeking gyro enclosed in a hermetically sealed case with separate Autosyn synchro transmitter pick-offs on the roll and pitch axis. An outstanding feature of this instrument is the use of the newly developed Eclipse-Pioneer Electrolytic Switch which provides precise erection and has long serviceability. Besides being rugged, of simple design, and easily serviceable, the transmitter also features a quick erection to true vertical instead of vertical in relation to the instrument case; a sensitive measuring vertical detection system with an accuracy of better than ¼°; and an improved gimbal construction resulting in greater operational stability. Provisions have been made for the use of external switches so that the pitch and roll erection systems can be cut out. This gyro is completely self-contained and requires no erection amplifier.

SIZE: 4¾" diameter, 8 21/32" in length.

WEIGHT: Approximately 6 lbs. without shockmount.

POWER REQUIREMENTS: Gyro Motor and Erection System — 115 volts, 400 cycles, 3 phase. Autosyn Synchro — 26 volts, 400 cycles, single phase.

VERTICAL GYRO: Non-pendulous. Momentum: 4,000,000 gm cm²/sec. Freedom: 360° in roll, Controlled tumbling near ± 82° in pitch with stops set to provide minimum loop error at 10°/sec. rate of loop.

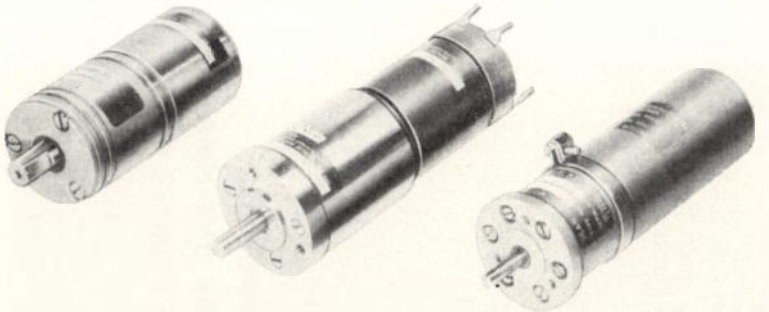
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For details, circle #95 on Reader Service Card

COMPONENT PACKAGING

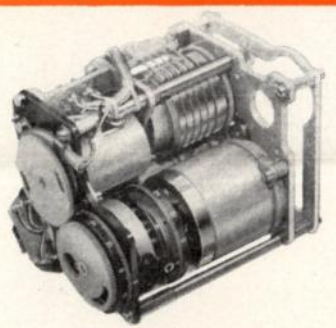
GEAR HEAD MOTORS AND MOTOR GENERATORS

One-source engineering of complete package • Volume-production prices • Wide range of frame sizes with immediate delivery on size 8s • 18 standard size 8 gear ratios from 10:1 to 5250:1 — lower, higher, and intermediate ratios available on special order • High operating torque capacities • Compact, lightweight package • Corrosion-resistant gears • Ball bearing — ABEC 5, or better • AGMA precision 2 gears, or better.

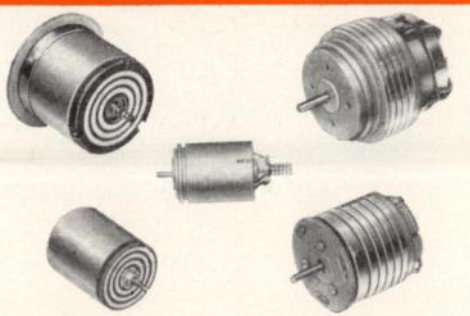


In addition to supplying catalog component items such as — synchros, motors, gyros, etc.—Eclipse-Pioneer is in an excellent position to offer a premium in the way of customer service and accommodation on component packaging. We may have already solved a problem similar to yours, thus enabling our system specialists to adapt from our extensive line, existing production packages to meet your systems requirements.

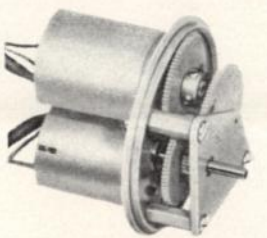
Should your problem turn out to be entirely new, we can — and will — design, develop, and produce a component or complete system to solve your specific problem.
No package is too small or too large for Eclipse-Pioneer, and may be as simple as an Autosyn synchro mounting clamp or be more complex as a complete servo follow-up sub-assembly from a production computer.



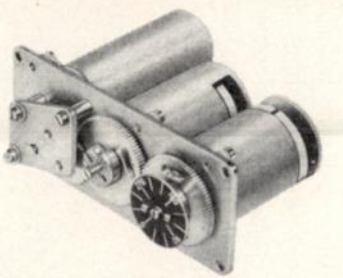
SERVO FOLLOW-UP PACKAGE



EXTERNAL SLIP RING AUTOSYN SYNCHROS



DUAL SPEED SYNCHRO



OMNI-BEARING

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RADAR ANTENNA DEVICES

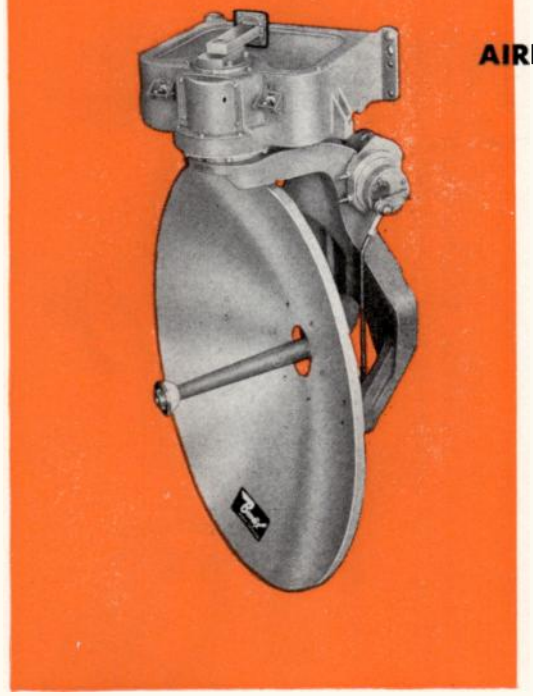
Vast experience in servo-mechanisms and in latest packaging techniques plus the use of light-weight castings throughout, enables Eclipse-Pioneer to manufacture smaller and lighter radar antenna devices of unsurpassed quality. Airborne or ground radar antenna devices can be supplied to include the electro-mechanical drive unit only or to include the complete reflector assemblies and feed systems.



GROUND ANTENNA PEDESTAL
TYPE NUMBER 40101-1-A

Specifications

Weight	700 lbs.
Data accuracy	0.5 mil.
Slewing rates (in azimuth and elevation)	12 rpm.
Operating temperature range	−54°C. to +66°C.
Elevation and azimuth	Two-speed 60 cps synchro data systems are used, having ratios of 1:1 and 16.1
Servo drives	¾ hp motors (dc) for use with an amplidyne servo system
Wind loading	50 mph (full operating performance) 100 mph (no structural damage).



AIRBORNE WEATHER RADAR ANTENNA
TYPE NUMBER 40023-□-A

Specifications

Standard frequency range	9345 to 9405 mc/s. This permits beacon operation at 9310 mc/s.
Optional frequency range	9215 to 9275 mc/s.
Operation	Up to 60 kw peak with a 0.001 duty cycle.
Beam width	4° maximum in E and H planes
Side lobes	At least 18 db below main lobe peak.
Polarization	Horizontal.
Weight	24 lbs. (approximate).
Operating temperature range*	−40°C. to +55°C.
Storage temperature range	−65°C. to +55°C.
Humidity	10% to 95%.

*These temperature ranges can be extended for specific applications.

Supermarket volume makes Eclipse-Pioneer the ideal place to shop for synchros, motors, gyros, radar antenna devices, and component packages.

Premium precision, minimum cost, and fast delivery have made Eclipse-Pioneer the "buy word" for precision components.

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For details, circle #96 on Reader Service Card

THE Bendix® ELECTRON TUBE YOU NEED IS HERE!

GROUP I—RECEIVING TUBES

HY-G-200®

EIA Type No.	JAN Type No.	PROTO-TYPE	BENDIX Type No.	DESCRIPTION
5838		6X5	TE-3	RECTIFIER. Full-wave
5839	5839	6X5	TE-2	RECTIFIER. Full-wave
5852	5852	6X5	TE-5	RECTIFIER. Full-wave
5992	5992	6V6	TE-8	AMPLIFIER. Beam power
5993	5993	6X4	TE-10	RECTIFIER
6106	6106	5Y3	TE-22	RECTIFIER
6385		2C51/ 5670	TE-21	MINIATURE TWIN TRIODE
6486		6AS6	TE-11	MINIATURE PENTODE
6582		6AK5	TE-35	MINIATURE PENTODE

HY-G-300®

(Reliable, hard glass, ceramic spacers, 300°C Bulb Temperature Rating)

6080WB		6AS7	TE-46	TWIN TRIODE
6082A		6082	TE-55	TWIN TRIODE
6094	6094	6AQ5/ 6005/ 6095	TE-18	MINIATURE AMPLIFIER
6384	6384	6AR6/ 6098	TE-27	AMPLIFIER Beam power
6486A		6AS6	TE-43	MINIATURE RF PENTODE
6582A		6AK5	TE-44	MINIATURE RF PENTODE
6754		412A	TE-36	RECTIFIER. Full-wave
6851		5751	TE-42	MINIATURE TWIN TRIODE
6853		5Y3	TE-45	BANTAM RECTIFIER. Full-wave
6854		2C51/ 5670	TE-47	MINIATURE TWIN TRIODE
6877		½ 6080	TE-48	MINIATURE TRIODE
6889		Top Cap 6384	TE-52	AMPLIFIER. Beam power
6900		5687	TE-54	MINIATURE TWIN TRIODE

COMPUTER TUBES

6888		7AK7	TE-40	GATED PENTODE

GROUP II—MICROWAVE TUBES

EIA Type No.	JAN Type No.	BAND	BENDIX Type No.	DESCRIPTION
2K50	2K50	K	TE-4	REFLEX KLYSTRON
6116	6116	X	TE-62	REFLEX KLYSTRON
6541		K	TE-30	REFLEX KLYSTRON
6584		C	TE-38	REFLEX KLYSTRON
		Ka	TE-37	REFLEX KLYSTRON
		Ka	TE-53	REFLEX KLYSTRON
6845	6845 (US Navy)	X	TE-59	REFLEX KLYSTRON
6940		X	TE-58	REFLEX KLYSTRON
		K	TE-60	REFLEX KLYSTRON
		X	TE-61	REFLEX KLYSTRON
		V	TE-67	BACKWARD-WAVE OSCILLATOR
		C	RXB-103401	TRAVELLING-WAVE TUBE AMPLIFIER
		V	TE-66	BACKWARD-WAVE OSCILLATOR

GROUP III—GAS AND SPECIAL TUBES

SPECIAL PURPOSE GAS TUBES

EIA Type No.	JAN Type No.	BENDIX Type No.	DESCRIPTION
5643	5643	TD-17	SUBMINIATURE XENON THYRATRON (MIL SPEC)
5643		TD-37	SUBMINIATURE XENON THYRATRON (COMMERCIAL SPEC)
5947		TT-2	TEMPERATURE LIMITED DIODE
5960		TD-1	COLD CATHODE DISCHARGE
		TD-45	COLD CATHODE DISCHARGE
		TD-28	COLD CATHODE TETRODE THYRATRON
6142		TD-9A	GAS DIODE VOLTAGE REGULATOR
		TD-19	GAS DIODE VOLTAGE REGULATOR
6144		TT-1	NOISE DIODE
6352		TT-29	SUBMINIATURE TEMP LIMITED DUAL-DIODE
6361		TT-25	SINGLE CONVECTRON
5845		TT-30	MINIATURE TEMPERATURE-LIMITED DIODE

GROUP IV—GAS NOISE SOURCE TUBES

Frequency Range KMC	Band	Waveguide Number	Bendix Type Number	EIA Type Number	Mount Type	Recommended Mode of Operation	Anode Current MA	Tube Drop Volts	Tube Excess Noise Ratio DB
1.12-1.70	L	RG-69/U	TD-21	6881	90°H	D.C.	250	65	15.2
			TD-29	7101	90°H	A.C. & D.C.	250	130	18.0
2.6-3.95	S	RG-48/U	TD-12	6358	10°E	D.C.	250	80	15.2
			TD-22	6782	90°H	A.C. & D.C.	250	45	15.2
3.30-4.90	S	WR-229	TD-24	6852	10°E	A.C. & D.C.	250	65	15.2
3.95-5.85	C	RG-49/U	TD-10	6356	10°E	D.C.	250	70	15.2
5.85-8.20	X	RG-50/U	TD-10	6356	10°E	D.C.	250	70	15.2
8.20-12.40	X	RG-52/U	TD-11	6357	10°E	D.C.	200	75	15.2
			TD-23	6882	10°E	D.C.	200	115	18.0
12.4-18.00	KU	RG-91/U	TD-18	6684	10°E	D.C.	200	70	15.2
18.0-26.5	K	RG-53/U	TD-13	6359	10°E	D.C.	200	65	15.2

GROUP V—SPARK GAPS

Type No.	DC Breakdown KV	Initial Pulse Breakdown KV	Repetitive Pulse Breakdown KV	Watts Maximum Dissipation	Peak Discharge Watt-Second	Fault Surge Current Amps	Isotope Stabilization	Initial Equipment Usage	Configuration
TG-25	0.400			3	2		Yes	Safety	1
TG-26	0.75			5	2	1000	Yes	Safety	2
TG-27	1.0			5	5	1000	Yes	Safety	2
TG-30	2.0	3.0	2.7	5	14	2000	Yes	Safety	2
TG-34	5.0	8.5	5.5	5	19	3000	Yes	Safety	2
TG-37	10.0	20.0	15.0	5	22	4000	Yes	Safety	2
TG-56	20.0	23.0		7.5	30	5000	Yes	Safety	4
TG-60	50.0			7.5	50	6000	Yes	Safety	4

Many other models of Bendix gas noise source and spark gap tubes besides those shown here are available. There is also a HY-G-500 line of metal ceramic receiving tubes. For a completely up-to-date list, write BENDIX AVIATION CORPORATION, EATONTOWN, NEW JERSEY.

West Coast Sales & Service: 117 E. Providencia Ave., Burbank, Calif.
Export Sales & Service: Bendix International Division,
205 E. 42nd St., New York 17, N.Y.
Canadian Distributor: Computing Devices of Canada, Ltd., P.O. Box 508, Ottawa 4, Ontario

Red Bank Division

Bendix AVIATION CORPORATION

For details, circle #97 on Reader Service Card

cppc

for ALL Types

SIZE 8



Weight 32 gms.
Dia. .750 in.

Actual Size

SIZE 10



Weight 50 gms.
Dia. .937 in.

Actual Size

SIZE 11



Weight 82 gms.
Dia. 1.062 in.

Actual Size

SIZE 15



Weight 126 gms.
Dia. 1.437 in.

Actual Size

For details, circle #98 on Reader Service Card

STANDARD UNITS — ROTOR AS PRIMARY — STATOR AS PRIMARY

SYNCHRO FUNCTION	CPPC TYPE	Input Voltage (400 ~)	Input Current (Amps.)	Input Power (Watts)	Output Voltage (Volts)	Sensitivity (MV/deg.)	Phase Shift (deg. lead)	Input Voltage (400 ~)	Input Current (Amps.)	Input Power (Watts)	Output Voltage (Volts)	Sensitivity (MV/deg.)	Phase Shift (deg. lead)
Torque Transmitter	CGC 8 A 7	26	.100	.54	11.8	206	8.5	—	—	—	—	—	—
Control Transformer	CTC 8 A 1	—	—	—	—	—	—	11.8	.087	.21	23.5	411	9
Control Transformer	CTC 8 A 4	—	—	—	—	—	—	11.8	.030	.073	23.5	393	8.5
Torque Receiver	CRC 8 A 1	26	.100	.54	11.8	206	8.5	—	—	—	—	—	—
Electrical Resolver	CSC 8 A 1	26	.038	.39	10.8	189	20	11.8	.080	.25	23.5	411	11
Control Differential	CDC 8 A 1	—	—	—	—	—	—	11.8	.087	.21	11.5	204	9
Vector Resolver	CVC 8 A 1	26	.100	.54	11.8	206	8.5	—	—	—	—	—	—

STANDARD UNITS — ROTOR AS PRIMARY — STATOR AS PRIMARY

SYNCHRO FUNCTION	CPPC TYPE	Input Voltage (400 ~)	Input Current (Amps.)	Input Power (Watts)	Output Voltage (Volts)	Sensitivity (MV/deg.)	Phase Shift (deg. lead)	Input Voltage (400 ~)	Input Current (Amps.)	Input Power (Watts)	Output Voltage (Volts)	Sensitivity (MV/deg.)	Phase Shift (deg. lead)
Torque Transmitter	CGC 10 AS 4	26	.145	.66	11.8	206	5	—	—	—	—	—	—
Control Transformer	CTC 10 AS 1	—	—	—	—	—	—	11.8	.080	.19	23.5	411	8.5
Control Transformer	CTC 10 AS 4	—	—	—	—	—	—	11.8	.021	.05	23.5	411	9
Control Differential	CDC 10 AS 1	—	—	—	—	—	—	11.8	.080	.19	10.8	189	8.5
Torque Receiver	CRC 10 AS 1	26	.090	.44	11.8	206	6.5	—	—	—	—	—	—
Electrical Resolver	CSC 10 AS 1	26	.036	.35	11.3	197	10	11.8	.072	.21	22.5	393	10
Vector Resolver	CWC 10 AS 1	26	.040	.28	11.8	206	10	11.8	.072	.21	22.5	393	10
Vector Resolver	CVC 10 AS 1	26	.052	.27	11.8	206	8	11.8	.100	.35	22.8	398	13.5

STANDARD UNITS — ROTOR AS PRIMARY — STATOR AS PRIMARY

SYNCHRO FUNCTION	CPPC TYPE	Input Voltage (400 ~)	Input Current (Amps.)	Input Power (Watts)	Output Voltage (Volts)	Sensitivity (MV/deg.)	Phase Shift (deg. lead)	Input Voltage (400 ~)	Input Current (Amps.)	Input Power (Watts)	Output Voltage (Volts)	Sensitivity (MV/deg.)	Phase Shift (deg. lead)
Torque Transmitter	CG-11-B-2	26	.170	.70	11.8	206	4	—	—	—	—	—	—
Torque Transmitter	CG-11-B-7	26	.095	.37	11.8	206	3.8	—	—	—	—	—	—
Torque Transmitter	CG-11-B-6	115	.039	.64	11.8	206	3.8	—	—	—	—	—	—
Control Transformer	CT-11-B-2	—	—	—	—	—	—	11.8	.138	.29	23.5	411	5
Control Transformer	CT-11-B-8	—	—	—	—	—	—	11.8	.098	.18	23.5	411	5
Control Transformer	CT-11-E-7	—	—	—	—	—	—	11.8	.035	.073	24	420	5
Control Differential	CD-11-B-2	—	—	—	—	—	—	11.8	.138	.29	11.0	192	5
Torque Receiver	CR-11-B-2	26	.095	.37	11.8	206	3.8	—	—	—	—	—	—
Electrical Resolver	CS-11-B-2	26	.050	.32	12.6	220	8.5	12.6	.092	.23	23.5	411	5.5
Vector Resolver	CVC-11-B-2	26	.095	.37	3.1	54	3.8	—	—	—	—	—	—

STANDARD UNITS — ROTOR AS PRIMARY — STATOR AS PRIMARY

SYNCHRO FUNCTION	CPPC TYPE	Input Voltage (400 ~)	Input Current (Amps.)	Input Power (Watts)	Output Voltage (Volts)	Sensitivity (MV/deg.)	Phase Shift (deg. lead)	Input Voltage (400 ~)	Input Current (Amps.)	Input Power (Watts)	Output Voltage (Volts)	Sensitivity (MV/deg.)	Phase Shift (deg. lead)
Torque Transmitter	CG 15 D 1	26	.221	.80	11.8	206	3.0	—	—	—	—	—	—
Torque Transmitter	CG 15 D 4	26	.100	.35	11.8	206	3.5	—	—	—	—	—	—
Torque Transmitter	15CX4a	115	.069	.80	90	1570	2.5	—	—	—	—	—	—
Torque Transmitter	CG 15 MS 1	115	.069	.80	90	1570	2.5	—	—	—	—	—	—
Control Transformer	CT 15 D 1	—	—	—	—	—	—	11.8	.120	22	23.4	409	4.7
Control Transformer	CT 15 D 4	—	—	—	—	—	—	11.8	.032	.06	23.0	402	4.5
Torque Receiver	CR 15 D 1	26	.100	.35	11.8	206	3.5	—	—	—	—	—	—
Electrical Resolver	CS 15 D 1	26	.049	.27	11.8	206	8.5	11.8	.095	.20	23	402	5.5
Vector Resolver	CW 15 D 1	32	.005	.03	15	260	5.0	15	.010	.03	24.5	495	5.5
Control Differential	CD 15 D 1	—	—	—	—	—	—	11.8	.120	.22	11.0	192	4.7

CLIFTON PRECISION PRODUCTS

of SYNCHROS

D.C. RESISTANCE		IMPEDANCE			ACCURACY			
Rotor (Ohms)	Stator (Ohms)	Zro (Ohms)	Zso (Ohms)	Zrss (Ohms)	Max. Null Voltage (MV)	Max. Error (Min.)	Max. Error Spread (Min.)	Length in Inches
37	12	54 + j260	12 + j45	80 + j20	30	7	14	1.240
143	24	210 + j690	28 + j114	250 + j73	30	7	14	1.240
365	64	1470 + j1770	81 + j330	590 + j190	30	7	14	1.240
37	12	54 + j260	12 + j45	80 + j20	—	—	30	1.240
230	27	270 + j630	39 + j142	340 - j67	30	7	14	1.240
36	24	38 + j122	28 + j114	47 + j13	30	7	14	1.240
37	16.5	54 + j260	19 + j60	80 + j20	30	7	14	1.240

D.C. RESISTANCE		IMPEDANCE			ACCURACY			
Rotor (Ohms)	Stator (Ohms)	Zro (Ohms)	Zso (Ohms)	Zrss (Ohms)	Max. Null Voltage (MV)	Max. Error (Min.)	Max. Error Spread (Min.)	Length in Inches
16.6	7.3	32 + j180	7.5 + j31	47 - j16	30	—	12	1.241
140	25	195 + j760	29 + j124		30	—	15	1.241
560	100	800 + j2900	115 + j470		30	—	15	1.241
32	25	34 + j119	29 + j124		30	—	15	1.281
33	11.6	54 + j285	13 + j50		30	—	30	1.241
215	28	270 + j670	41 + j159	330 + j74	1 mv/v	—	15	1.281
110	28	177 + j625	41 + j159	215 + j70	1 mv/v	—	15	1.241
68	28	100 + j390	34.5 + j113		1 mv/v		15	1.241

D.C. RESISTANCE		IMPEDANCE			ACCURACY			
Rotor (Ohms)	Stator (Ohms)	Zro (Ohms)	Zso (Ohms)	Zrss (Ohms)	Max. Null Voltage (MV)	Max. Error (Min.)	Max. Error Spread (Min.)	Length in Inches
10.5	3.6	24 + j150	4.9 + j25		30	—	12	1.600
18	7.5	42 + j270	10 + j46	53 + j23	30	—	12	1.600
185	3.6	420 + j2930	4.9 + j25	486 + j227	100	—	12	1.600
45	8.5	94 + j436	15 + j72	81 + j40	30	—	12	1.600
50	13	110 + j610	19 + j100		30	—	12	1.600
185	34	400 + j1700	60 + j285		30	—	12	1.600
12	8.5	14 + j67	15 + j72		30	—	12	1.640
18	7.5	42 + j270	10 + j46	53 + j23	—	—	30	1.600
80	13.6	128 - j503	27 + j136	126 + j43	1 mv/v	—	12	1.640
18	.65	42 + j270	.93 + j4.3	53 + j23	1 mv/v	—	12	1.600

D.C. RESISTANCE		IMPEDANCE			ACCURACY			
Rotor (Ohms)	Stator (Ohms)	Zro (Ohms)	Zso (Ohms)	Zrss (Ohms)	Max. Null Voltage (MV)	Max. Error (Min.)	Max. Error Spread (Min.)	Length in Inches
6.5	3	12 + j115	3.9 + j19	19 + j10	30	—	10	1.600
15.5	5.7	35 + j260	7.1 + j40	40 + j23	30	—	10	1.600
65	161	180 + j1650	175 + j894		125	12	24	2.000
65	161	180 + j1650	175 + j894		75	—	10	2.000
37	9.2	80 + j490	15 + j84	74 + j50	30	—	10	1.600
180	37	360 + j1870	63 + j320	358 + j263	30	—	10	1.600
15.5	5.7	35 + j260	7.1 + j40	40 + j23	—	—	30	1.600
74	13	110 + j520	22 + j123		1 mv/v	—	10	1.640
540	156	1100 + j6300	300 + j1600	1180 + j602	1 mv/v	—	10	1.600
17	9.2	22 + j81	15 + j84	27 + j13	30	—	10	1.640

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★ Extreme Reliability ★ Light Weight
★ Highest Accuracy ★ Tight Coupling
★ Environmentally Qualified ★ Low Nulls
★ Low Phase Shift ★ High Torque
★ Matched Impedances ★ Low Friction
★ Low Heat Rise ★ Early Delivery
★ Special Units ★ Cost No More

SYNCHROS *are our business*

In addition to the wide variety of standard units shown, we also produce an equally large number of special units on special order in production quantities for which we are already tooled.

For more complete information on our synchros including Typical System Measurements, write for booklet SC-3 or phone MAdison 6-2101 (Suburban Philadelphia).

NAVY BuOrd SYNCHROS



½ Actual Size

Contact Clifton Precision for standard Navy BuOrd units. If your specification requires conformance to BuOrd drawings and your system can take advantage of exceptional accuracy, CPPC can hold extra close error spread and accuracy tolerances. See CG-15-MS-1 in the tables.

PRECISION RESOLVERS

Precision Computing Resolvers with functional accuracies of the order of .1% and transformation ratios 1:1 are currently being constructed in the size 15 class for special applications. Contact CPPC for applications involving the use of Precision Resolvers in all sizes.



½ Actual Size

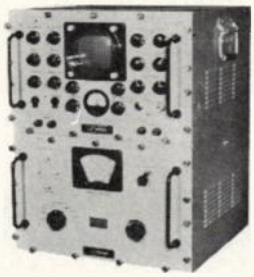
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four roads to precision analysis

In the field of precision analysis, Lavoie Laboratories has combined bold theory and proven techniques to evolve many promising concepts. Such concepts continue to yield new laboratory instruments of predicted accuracy and reliability. The four quality instruments shown are acknowledged the most recently recorded triumphs in the field of precision analysis. They represent trails blazed by Lavoie research, development, and engineering know-how to aid you in solving test problems of the present and to improve your efficiency in approaching problems in the future.





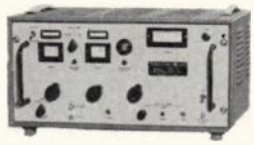
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Superior units for every day use in laboratory and shop which cover the entire 10-44,000 mc range with one simplified band-switch (LA-18A: 10-21,000 mc; LA-19: 10-44,000 mc; LA-20: 1 Kmc —21 Kmc). Single RF head, triple shielding plus comprehensive human engineering. Unitized subassemblies for rapid maintenance.



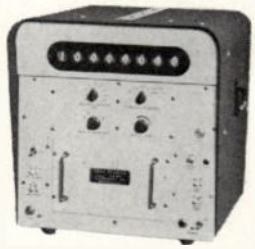
LA-302 ROBOTESTER

Makes possible unprecedented ranges of economy, speed, and accuracy in volume equipment checking through time-tested comparator techniques refined and accelerated to meet today's analytic requirements. Automatic circuit analysis from pre-programmed tape, punched by your engineers.



LA-70 FREQUENCY METER

For generation and measurement in frequency range 10 KC to 3000 MC (direct reading) with accuracy to one cycle per megacycle. Thermostatically controlled 1 MC precision quartz crystal for oscillator stability. Weight of 42 lbs. stresses application for mobile service.



LA-80 ELECTRONIC COUNTER

Frequency range from ten cycles to ten megacycles. Plug-in frequency converter extends range to 220 mc. Time interval range from one usec to 100 days. Magnetic beam switching tubes used for decade dividers and scalers eliminate germanium diodes, reduce circuit complexity and overall size. Stable operation from —40°C to +55°C. MIL spec conformance for high reliability.

Lavoie Laboratories, Inc.

MORGANVILLE, N. J.

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at commercial prices

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4-stage service



HUDSON precision quality metal components are produced by cost-reducing mass production methods. The HUDSON production department is equipped with batteries of standard and special presses ranging up to 300 tons. HUDSON performs a wide range of operations to meet your needs.

4 STANDARD PRECISION DRAWN INSTRUMENT CASES

Standardized cases include over 1400 different sizes, with both inside and outside covers, in six standard metals. Hudson offers the engineer a range of closures unequalled in the industry.

3 MIL-T-27A CLOSURES FROM AF TO OA

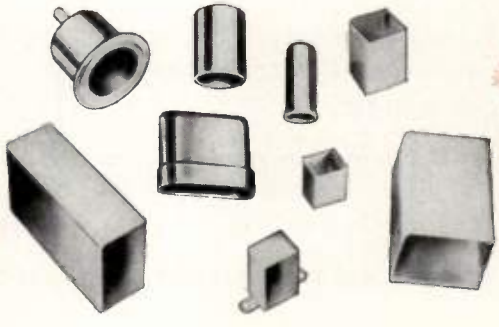
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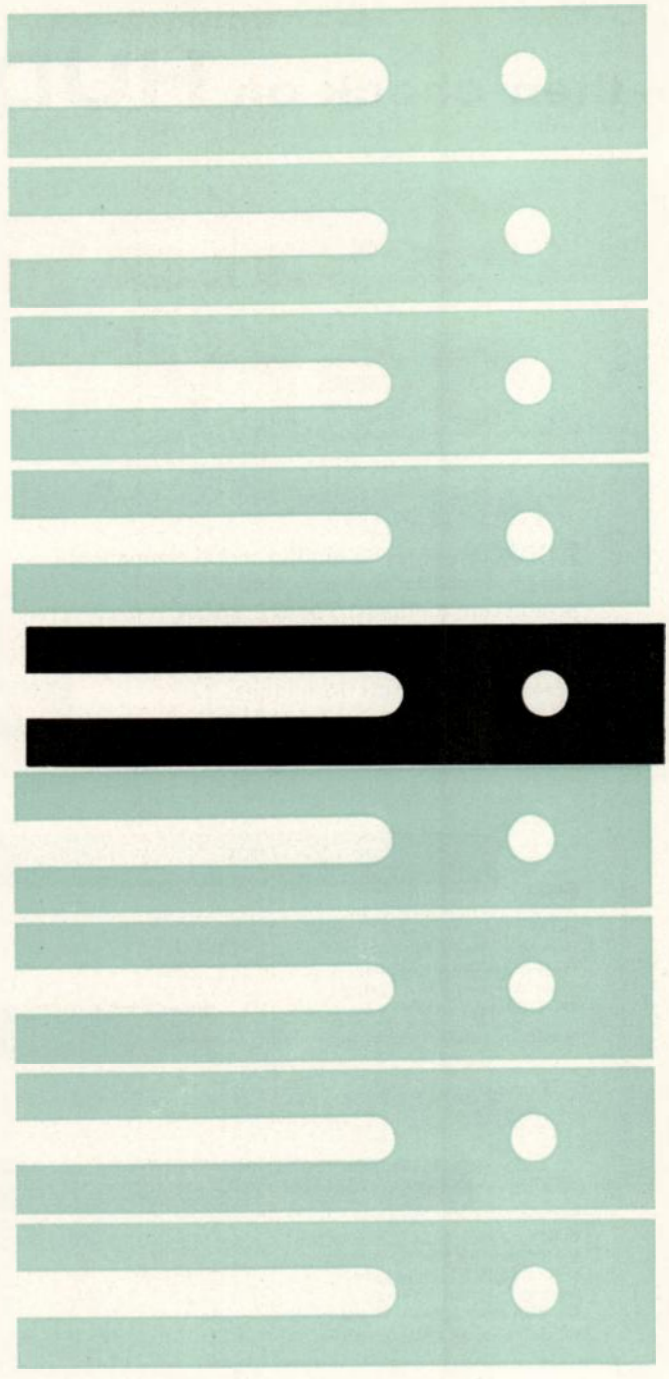
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For details, circle #102 on Reader Service Card

POLARAD MICROWAVE · ELECTRONICS

FOR MICROWAVE SIGNAL GENERATION 650 to 50,000 mc

All Polarad microwave signal generators and sources feature single-dial tuning control, direct reading frequency dial accurate to 1%, continuous tuning in each range, high stability, low harmonic content, and non-contacting short-type klystron cavity chokes for noiseless tuning and accurate calibration.



Model MSG-1

MICROWAVE SIGNAL GENERATORS

Model MSG-1
950 to 2,400 mc
Model MSG-2
2,150 to 4,600 mc



Model PMX

MICROWAVE SIGNAL GENERATOR

Model PMX
4,450 to 11,000 mc
Basic Unit Model GB-2
(Modulator, Keyer, Power Supplies)
Tuning Unit G-48:
4,450 to 8,000 mc
Tuning Unit G-711:
6,950 to 11,000 mc



Model MSG-34

MICROWAVE SIGNAL GENERATOR

Model MSG-34
4,200 to 11,000 mc all in one unit



Model PMK

MICROWAVE SIGNAL GENERATOR

Model PMK
10,000 to 21,000 mc
Basic Unit Model GB-3
(Modulator, Keyer, Power Supplies)
Tuning Unit G-1015:
10,000 to 15,500 mc
Tuning Unit G-1521:
15,000 to 21,000 mc

Model SG-1218 Signal Generator and Model SS-1218 Source are available to cover the frequency range 12,400 to 17,500 mc.

MICROWAVE SIGNAL SOURCES

Tuning Unit	Frequency Range	Power Output Range
SSR	650 to 1,300 mc	100 to 700 mw
SSL	1,050 to 2,250 mc	80 to 400 mw
SSS	2,140 to 4,600 mc	40 to 250 mw
SSM-A	4,450 to 8,000 mc	15 to 50 mw
SSX-A	7,850 to 10,750 mc	14 to 40 mw
SSX-E	7,850 to 11,500 mc	14 to 40 mw

Klystron Power Supply, Model KX-B, available to provide stable, high-voltage power with low ripple content for microwave signal sources.



Model SSS

EHF Generator



Model ESG

EHF MICROWAVE GENERATORS AND SOURCES
9 plug-in units cover 18,000 to 50,000 mc

SIGNAL GENERATORS Basic Unit Model HU-2	FREQUENCY RANGE	SIGNAL SOURCES Basic Unit Model HU-1
Plug-In Tuning Unit Model No.		Plug-In Tuning Unit Model No.
G1822-1	18,000 — 22,000 mc	S1822-1
G2225-1	22,000 — 25,000 mc	S2225-1
G2427-1	24,700 — 27,500 mc	S2427-1
G2730-1	27,270 — 30,000 mc	S2730-1
G2933-1	29,270 — 33,520 mc	S2933-1
G3336-1	33,520 — 36,250 mc	S3336-1
G3540-1	35,100 — 39,700 mc	S3540-1
	37,100 — 42,600 mc	S3742-1
	41,700 — 50,000 mc	S4150-1



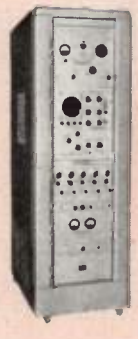
MICROWAVE SWEEP GENERATOR
Model ESG
1,000 to 15,000 mc
Basic Unit: Model E-B or E-B1
7 Interchangeable Tuning Units:

Tuning Unit	Frequency Range	Power Output
Model E-L1	1,000 to 2,000 mc	70 to 900 mw
Model E-L2	1,600 to 3,200 mc	70 to 900 mw
Model E-S1	2,000 to 4,000 mc	70 to 750 mw
Model E-C1	3,600 to 7,200 mc	20 to 350 mw
Model E-C2	4,800 to 9,600 mc	15 to 125 mw
Model E-X1	6,500 to 11,000 mc	15 to 80 mw
Model E-X2	7,500 to 15,000 mc	10 to 35 mw

Sweep Rate: Model E-B 50-60 cps.
Model E-B1 1,000 sec./sweep—30 sweeps/sec.

PULSE CODE MODULATED MICROWAVE SIGNAL GENERATOR
With Precision Oscilloscope
Model B
950 to 10,750 mc
4 Interchangeable Tuning Units

Frequency Range:
BL-1— 950 to 2,400 mc
BS-1—2,150 to 4,600 mc
BC-1—4,450 to 8,000 mc
BX-1—7,850 to 10,750 mc
Provides 5 independently adjustable pulse channels.



Model B

FOR MICROWAVE RECEPTION



EXTENDED RANGE MICROWAVE RECEIVER
Model R
400 to 46,700 mc

Four instruments in one:

- AM-FM receiver
- Field intensity receiver
- Pulse, pulse-time or pulse-position demodulator
- Sensitive power meter

Basic Unit Model R-B

8 Interchangeable Plug-in Tuning Units*

Model RR-T	400- 1,000 mc	Model RX-T	7,300-11,260 mc
Model RL-T	950- 2,040 mc	Model RKS-T	9,500-15,600 mc
Model RS-T	1,900- 4,340 mc	Model RKU-T	14,700-22,000 mc
Model RM-T	4,200- 7,740 mc	Model RQ-T	20,260-46,700 mc

*U. S. Patent 2,774,243

CALIBRATED FIELD INTENSITY METER



Power Supply



Monitor Unit

Model FIM 1,000-10,000 mc

A highly sensitive instrument for field intensity and r-f interference measurements, antenna pattern analysis. Used as null detector and r-f voltmeter. Highly accurate frequency and power calibration.

Four Interchangeable Tuning Units*	
FIM-L	1,000 to 2,240 mc
FIM-S	2,140 to 4,340 mc
FIM-M	4,190 to 7,740 mc
FIM-X	7,360 to 10,000 mc

*U. S. Patent 2,774,243



Calibrated Antennas Supplied with Model FIM

Test Antennas (not calibrated): 1,000 to 39,700 mc.
Antenna Pattern Recording System:
Automatic Antenna Drive — Model AD-1
Synchronized Antenna Pattern Recorder — Model PR-1

MICROWAVE ACCESSORIES



MICROWAVE ATTENUATOR
Model SIJ
Covering
4,000 to 12,400 mc
Continuously variable, stub-tuned.

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Each Covering
2,750 to 3,000 mc



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1,600 to 6,500 mc

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DIRECT-READING SPECTRUM ANALYZER

Model TSA 10 to 44,000 mc

FEATURES:

- Direct-reading UNI-DIAL control
- High accuracy, resolution and sensitivity
- Stable, accurate frequency marker

To test missile, radars, microwave components, telemetering, multi-pulse transmissions.

Model DU
Spectrum Display and Power Unit

Five Interchangeable Tuning Units

STU-1	10 — 1,000 mc
STU-2A	910 — 4,560 mc
STU-3A	4,370 — 22,000 mc
STU-4	21,000 — 33,000 mc
STU-5	33,000 — 44,000 mc



COMBINATION SYNCHROSCOPE SPECTRUM ANALYZER

Model TSA-S 10 to 44,000 mc



Time Display: Pulsed signal as seen in synchroscope operation.



Frequency Display: Same signal as seen in spectrum analyzer operation.

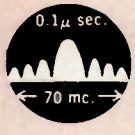
Selector switch determines function instantly.
Tuning Units: Same as Model TSA above.



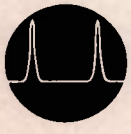
VERY WIDE DISPERSION SPECTRUM ANALYZER

Model TSA-W 10 to 44,000 mc

Narrow and Wide Pulse Analysis



70 mc frequency dispersion displays pulses as narrow as 0.1 μsec. For wide pulse analysis, dispersion may be adjusted to as narrow as 100 kc.



Wide dispersion permits simultaneous observation of two or more signals separated by relatively large frequency difference.

Resolution: 7 kc narrow bandwidth, 50 kc wide bandwidth.
Tuning Unit Frequency Ranges: Same as Model TSA above.





MULTI-BAND, SINGLE UNIT SPECTRUM ANALYZER

Model SA-84

Complete frequency coverage, 10 to 40,880 mc, all in one self-contained unit. No additional tuning units required.



MULTI-PULSE SPECTRUM SELECTOR

Model SD-1

Permits spectrum analysis of individual microwave pulses in a pulse group. Any pulse in a complex coded signal may be isolated and intensified for examination.

For details, circle #104 on Reader Service Card

FOR GENERAL LABORATORY USE

PULSE JITTER TESTER

Model PJ-1

Measures:

— Relative jitter
— Pulse width jitter
— Repetition rate jitter

Displays:

— Jitter magnitude
— Jitter waveform



TRANSISTOR MICROWAVE POWER METER

Model P-3 10-39,000 mc

Measures absolute r-f power level instantly without tuning. Line or internal-battery operated. Rugged, weighs only 6 pounds.



RAPID SCAN RATIO-SCOPE

Model VS-2

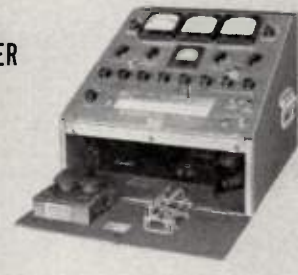
Used with sweep generator (ESG, opposite side). Displays ratio of two input signals, visual plot VSWR or response-frequency on 7" CRT.



KLYSTRON TUBE TESTER

Model K-200

Tests all microwave tubes as easily as ordinary vacuum tubes.



5-PULSE, CODED MULTI-PULSE GENERATOR

Model MP-1A

Generates 5 separate pulses each with independently variable width and delay for missiles, beacons, and other systems.



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These accurately made components represent products available to you that meet rigid industrial or military requirements.

Choppers—A variety of Airpax choppers enables you to select the appropriate type for each application. They are manufactured on precision machines to assure you of uniformly high quality. These choppers are used in instruments and automatic control. Contacts are rated for 0 to 2 milliamperes at up to 100 volts. Drive is 6.3 RMS volts.

Typical Signal Choppers

Frequency (CPS)	7-Pin Base Type	Octal Base Type	Miniature Solder Lug Type
	Standard Environment		
60	175, 176	170, 586	178, 179, 800*
400	300, 400	520, 580	302 thru 304, 600*
	High Temperature		
400	150, 310, 320	100	311 thru 314
	High Vibration		
400	350		351 thru 354

*Double-pole double-throw, split reed

400-CPS Chopper Drivers—Chopper drivers enable you to use 400-CPS choppers even if 400-CPS drive power is not otherwise available. There are two types: Series 202 is for use in 60-CPS powered equipment with conventional heater and plate voltages. Series 220 is for use in battery powered equipment.

Low Noise Choppers—Airpax choppers Types 2400 (60-CPS) and 2300 (400-CPS) are specifically designed for use in low-level modulators. In most cases the chopper noise is well below the instrument background noise level.

Vibrators—Airpax pioneered high-frequency power vibrators because of reduced size and weight of associated transformers and chokes.

Type 500 vibrator is a 400-CPS interrupter unit for use with moderate continuous or heavy intermittent loads. It is hermetically sealed, operates in any position. This vibrator and variations are used in airborne transceivers, guidance equipments, and portable sets.

Inverters—Using 400-CPS vibrators, Airpax custom designs and manufactures compact low-power inverters. By way of example, Type 512 is hermetically sealed, weighs 14 ounces, occupies 7.5 cubic inches, withstands accelerations of more than 50 G, and has an efficiency of 75%. Its output is essentially a square wave, 15 watts at 110 RMS volts, 400 CPS. Input is 6, 12 or 24 DC volts.

Pulse Transformers—For preferred blocking oscillator circuits, use Airpax Pulsite transformers. These compact, hermetically sealed units are available as a kit covering many requirements of pulse circuits.

Characteristics of Pulsite Transformers

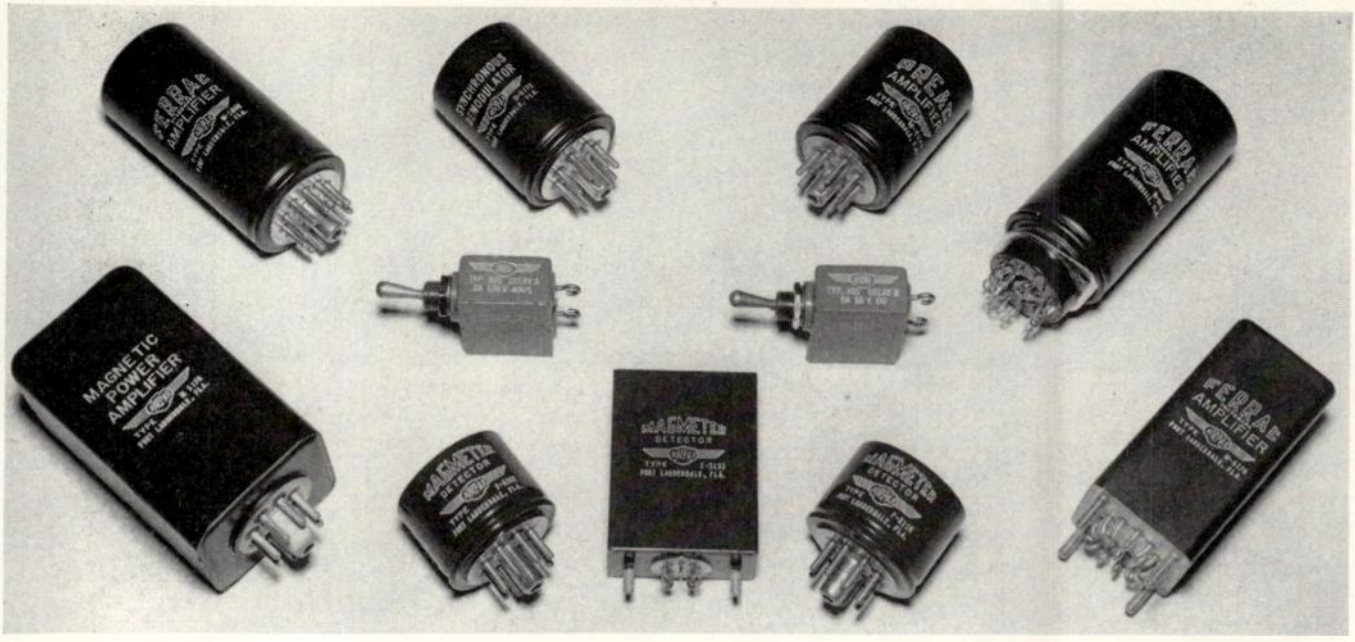
Pulse Width (usec)	Loc (mh)	LI (uh)	Cd (uuf)	Type
0.1	0.08	6	7	PT-1081
0.2	0.13	14	7	PT-1082
0.3	0.30	25	8	PT-1083
0.5	0.80	30	8	PT-1084
1.0	2.4	35	9	PT-1085
2.0	7.8	125	10	PT-1086
5.0	28	400	10	PT-1087
10.0	153	1,000	12	PT-1088

Custom Transformers—Airpax designs and manufactures custom transformers. The largest Fosterite facility in the country is at Airpax; units 3 x 3 x 4 feet can be baked and vacuum impregnated, or large batches of small units can be processed quickly. In addition to vacuum impregnated and molded units for airborne equipment, Airpax manufactures hermetically sealed MIL-T-27A units. Airpax has supplied transformers in quantity for operation in ambients to 175 C.

Sheet Metal Facilities—A complete machine and sheet metal shop complements the transformer production. The shop has sufficient capacity to fabricate custom metal parts, such as chassis and cases.

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Thorough testing and inspection assure you that these Airpax components meet critical requirements for control and guidance.

Magnetic Amplifiers—Ferrac magnetic amplifiers are highly stable and linear DC amplifiers. You can use them in analog computer portions of guidance and control equipment. Several types are available to meet usual applications. Each amplifier has two input windings; output is electrically isolated from input and power supply. At stand-by, amplifier draws about 1.5 watts; with full signal, 2.5 watts at 115 RMS volts. These amplifiers are available in either 60 CPS or 400 CPS units.

Instrument Magnetic Amplifiers

Application	*400-CPS*	*60-CPS*
General Purpose	M-943	M-5284
Integrator	M-1039	M-5267
Thermocouple	M-1040	M-5285
High Gain	M-1057	M-5268

Synchronous Demodulators—So that 400-CPS synchros can be used with DC control circuits, Airpax developed highly accurate ring demodulators.

Type D-5170 has a highly accurate null for use in zero-seeking equipments. A null accuracy (exclusive of the synchro) of 9 minutes can be obtained with it.

Type D-5171 has a wider linear range for proportional control equipments. It presents about 20,000 ohms to the control transformer. Synchronous Demodulators are also available in 60-CPS units.

Servo Amplifiers—Airpax magnetic power amplifiers control current to both phases of 400-CPS instrument servo motors. As a result, they draw little stand-by power. This characteristic results in up to 60% saving in stand-by power, compared with some other servo amplifiers. Standard units deliver 3.5, 6, or 10 watts per phase.

Typical Ratings, Type M-5178

Input—Two identical control windings of about 125 DC ohms each

Sensitivity—7.5 DC milliamperes into either control winding produces 6 watts output to each phase

Power—115 to 150 RMS volts at 400 CPS, approximately 21 watts at maximum output, only 3 watts during stand-by

Connections—Octal plug-in base, hermetically sealed

Dimensions (Max.)—1½" square base, 2⅞" seated height

Weight—Approximately 11 ounces

Frequency Detectors—Magmeter frequency detectors convert AC signals to DC outputs. The output is linearly proportional to input frequency. These detectors are relatively insensitive to changes in signal amplitude and wave shape. They are used in telemetering, tachometers, and for pulse-rate measurement. Standard Magmeter detectors require about 1 watt of signal input. They can be driven directly from 120-volt power lines, from vacuum tubes or transistors. Plug-in units fit octal sockets; bolt-down units have solder lugs.

Narrow band units with expanded-scales are also available.

Magmeter Frequency Detector

Frequency (CPS)	*Line or Tube Drive*		*Transistor Drive*
	Plug-In	*Bolt-Down*	*Plug-In*
0-50	F-945	F-5121	F-5156
57-63		F-5132	
0-100	F-5319	F-5122	F-5157
0-200	F-5345	F-5123	F-5158
375-425	F-992	F-5133	
0-500	F-5146	F-5124	F-5159
0-1000	F-980	F-5125	F-5160
0-2000	F-981	F-5126	F-5161
0-5000	F-947	F-5127	F-5162
0-10000	F-5116		F-5330
0-20000	F-5230		F-5331

Circuit Breakers—Electronic circuits can be protected by Airpax miniature magnetic time delay circuit breakers. Trip level is unaffected by temperature. Units are rated up to 50 DC volts or up to 120 RMS volts; the latter either for 60 or for 400 CPS. Trip sensitivities are as low as 50 milliamperes; current ratings are available up to 10 amperes. There are two standard time delays: Rapid response A for protecting conventional electronic equipments, and slow response B for equipments that draw substantial starting surges.

Miniature Circuit Breakers

Rating	*Series Type*	*Shunt Type*	*Relay Type*
50 DC volts	401-	402-	403-
120 RMS volts at 60 CPS	410-	411-	412-
120 RMS volts at 400 CPS	420-	421-	422-

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VA-87



VA-203B



VA-94



VA-221H

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TUBE	TYPE	TUNER	BASING	FREQUENCY RANGE kMc	TYPICAL POWER OUTPUT MILLIWATTS	MAXIMUM RATINGS	
						RESONATOR VOLTAGE	RESONATOR CURRENT
X-12	Reflex	Micro.	3-Pin	12.4—17.5	100	600 V	65 mA
X-13	Reflex	Micro.	3-Pin	8.2—12.4	300	500	65 mA
X-13B	Reflex	Micro.	3-Pin	7.5—11.0	300	500	65 mA
V-23	2-Res. Osc.	Lock Nut	Molded Leads	9.1—11.0	5 watts	1350	125 mA
V-24B	4-Res. Pulse Amp.	55 db gain 0.75% DU		9.35—9.40	40 kW pk	36 kV pk	10 A pk
X-26B	Reflex	Single Screw	Octal	6.3—7.5	1.3 watts	750	80 mA
X-26D	Reflex	Single Screw	Octal	5.8—7.125	1.4 watts	750	80 mA
X-26E	Reflex	Single Screw	Octal	5.3—6.6	1.3 watts	750	80 mA
X-26F	Reflex	Single Screw	Octal	5.3—6.0	1.4 watts	750	80 mA
V-27	2-Res. Amp.	Lock Nut	Molded Leads	9.1—11.0	6 W @ 8 db	1350	125 mA
V-27B	2-Res. Amp.	Lock Nut	Molded Leads	8.5—10.0	6 W @ 8 db	1350	125 mA
VA-28	2-Res. Osc.	Lock Nut	Molded Leads	13.35—13.65	10 watts	3300	74 mA
V 39B	Reflex	External Cavity	Molded Leads	10—15.5	50	750	42 mA
V-39C	Reflex	External Cavity	3-Pin	10—15.5	60	750	42 mA
V-40B	Reflex	External Cavity	Molded Leads	15—21	55	750	42 mA
V-40C	Reflex	External Cavity	3-Pin	15—21	65	750	42 mA
V-42B	3-Res. CW Amp.	27 db gain		.375—.425	12 kW	18 kV	3.25 A
V-45	Fr. Multiplier 5X	Screw	Octal	1.8—2.0/9.0—10.0	280 @ —6 db	1000	80 mA
V-53	Reflex	Single Screw	3-Pin	10.7—11.7	200	500	70 mA
V-53B	Reflex	Single Screw	3-Pin	10.7—11.7	200	500	70 mA
V-54	Reflex	Lock Nut	Molded Leads	10.5—12.2	215	450	70 mA
V-55	Reflex	Lock Nut	3-Pin	8.2—11.5	700	500	70 mA
V-55B	Reflex	Lock Nut	Molded Leads	8.2—11.5	700	500	70 mA
V-58	Reflex	Single Screw	3-Pin	8.5—10.0	620	500	70 mA
V-63	2-Res. Osc.	Lock Nut	Molded Leads	8.5—10.0	6 W	1350	125 mA
VA-67B	2-Res. Osc.	Lock Nut	Molded Leads	13.35—13.65	1 watt	1700	35 mA
V-82	4-Res. Pulse Amp.	57 db gain 3% DU		9.225—9.375	7 kW pk	18 kV pk	2.9 A pk
VA-87B	4-Res. Pulse Amp.	57 db gain 0.3% DU		2.7—2.9	1.5 Meg W pk	110 kV pk	64 A pk
VA-87C	**VA-87B** 2.7-2.8 kMc; **VA-87C** 2.8-2.9 kMc						
VA-92	Reflex	Single Screw	Molded Leads	14.0—17.5	30	600	65 mA
VA-92C	Reflex	Single Screw	3-Pin	12.4—14.5	150	600	65 mA
***VA-94**	Reflex	Single Screw	Molded Leads	16.0—17.0	40	350	45 mA
***VA-94B**	Reflex	Single Screw	Molded Leads	15.8—16.2	30	350	45 mA
VA-96	Reflex	Lock Nut	Molded Leads	22.0—25.0	35	850	40 mA

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TUBE	TYPE	TUNER	BASING	FREQUENCY RANGE kMc	TYPICAL POWER OUTPUT MILLIWATTS	MAXIMUM RATINGS	
						RESONATOR VOLTAGE	RESONATOR CURRENT
***VA-97**	Reflex	Single Screw	Molded Leads	34.0—35.6	18	425	50 mA
***VA-98**	Reflex	Single Screw	Molded Leads	23.6—24.4	25	400	45 mA
VA-121B	TWT Amp. 35 db gain 1% DU			2.0—4.0	40 W pk	2300 V pk	190 mA pk
V-152B	Reflex	External Cavity	Molded Leads	8.8—9.6	70	350	60 mA
V-154	Reflex	Lock Nut	3-Pin	10.5—12.2	215	450	70 mA
V-155	Reflex	External Cavity	Molded Leads	8.8—9.6	55	350	60 mA
VA-161	BWO	Electronic	Molded Leads	8.2—12.4	40	650	30 mA
***VA-201B**	Reflex	Single Screw	Molded Leads	8.5—9.6	90	350	55 mA
***VA-203B**	Reflex	Single Screw	3-Pin	8.5—9.6	40	350	52 mA
VA-210B	Reflex	External Cavity	Molded Leads	9.6—10.8	25	350	55 mA
VA-214	Reflex	Single Screw	3-Pin	8.0—11.2	25	500	70 mA
***VA-220A-F,Z**	Reflex	Single Screw	Octal	5.925—7.750	1.2 watts	750	80 mA
VA-220A 7.425-7.750 kMc; **VA-220B** 7.125-7.425 kMc; **VA-220C** 6.875-7.125 kMc; **VA-220D** 6.575-6.875 kMc; **VA-220E** 6.125-6.425 kMc; **VA-220F** 5.925-6.225 kMc; **VA-220Z** 7.75-8.1 kMc							
***VA-220J**	Reflex	Single Screw	Octal	4.9—5.2	1 watt	750	80 mA
***VA-221B** to	Reflex	Single Screw	Octal	5.985—7.555	40	330	35 mA
VA-221F	**VA-221B** 7.225-7.555 kMc; **VA-221C** 6.955-7.255 kMc; **VA-221D** 6.705-7.005 kMc; **VA-221E** 6.285-6.585 kMc; **VA-221F** 5.985-6.285 kMc						
***VA-221H**	Reflex	Single Screw	Octal	5.250—5.560	40	330	35 mA
***VA-222B** to	Reflex	Single Screw	Octal	5.925—7.725	1.2 watts	750	80 mA
VA-222F	**VA-222B** 7.125-7.425 kMc; **VA-222C** 6.875-7.125 kMc; **VA-222D** 6.575-6.875 kMc; **VA-222E** 6.125-6.425 kMc; **VA-222F** 5.925-6.225 kMc						
***VA-222R**	Reflex	Single Screw	Octal	5.8—6.0	2 watts	750	80 mA
VA-800	4-Res. CW Amp. 50 db gain (one tube covers entire range)			1.7—2.4	10 kW	20 kV	2.5 A
VA-804 Ser.	4-Res. CW Amp. 45 db gain			4.4—5.0	2 kW	10 kV	1 A
VA-805 Ser.	4-Res. CW Amp. 45 db gain			5.925—6.425	2 kW	10 kV	1 A
VA-806 Ser.	4-Res. CW Amp. 45 db gain			7.125—8.5	2 kW	10 kV	1 A
VA-808	4-Res. Pulse Amp. 60 db gain 1.6% DU			5.3—5.9	24.5 kW pk	23 kV pk	4.5 A pk
VA-820B,C	4-Res. Pulse Amp. 50 db gain 0.2% DU			2.7—2.9	5 Meg W pk	150 kV pk	100 A pk
VA-833	4-Res. CW Amp. 40 db gain (one tube covers entire range)			.685—.985	10 kW	20 kV	2.5 A
VA-6237 to	3-Res. CW Amp. 27 db gain			.470—.890	15 kW	18 kV	3.25 A
VA-6242	**VA-6237** 470-530 Mc; **VA-6238** 530-584 Mc; **VA-6239** 584-656 Mc; **VA-6240** 656-728 Mc; **VA-6241** 728-806 Mc; **VA-6242** 806-890 Mc.						
VA-6310/V-260	Reflex	Single Screw	3-Pin	8.5—10.0	70	350	42 mA
VA-6312/V-270	Reflex	Single Screw	Molded Leads	8.5—10.0	70	350	42 mA
VA-6314/V-290	Reflex	Lock Nut	Molded Leads	8.5—10.5	120	385	74 mA
VA-6315/V-153	Reflex	Single Screw	Molded Leads	8.5—10.0	50	385	74 mA
VA-6316/V-151	Reflex	Lock Nut	Molded Leads	8.5—10.0	25	350	52 mA

Brazed-on external cavity.* ***Bold face type numbers indicate recommended microwave tubes for new equipment design.*

For details, circle #109 on Reader Service Card

CINCH SOCKETS...

NEW DEVELOPMENTS IN PRINTED CIRCUIT SOCKETS:

These sockets for the three types of receiving tubes. Miniature, Flat Press and Button.

The contacts are so spaced that they can be mounted in an incremental drill pattern. This fact together with the exact precision and uniformity of Cinch sockets make them ideal for automatic assembly.



No. 22920

No. 22920—7 contact miniature molded vertically mounted socket with JAN type shield base. Mica insulation. Silver plated phosphor bronze contacts drop through .062" dia. clearance holes arranged on a .1" X and Y axis.



No. 24255

No. 24255 — 8 contact button base subminiature molded, vertically mounted socket. Mica insulation. Silver plated beryllium copper contacts drop through .070" dia. clearance holes arranged on a .1" X and Y axis.

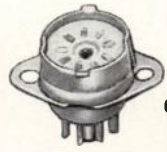
No. 24255A–Same as above except insulation to withstand temperatures above 200° Centigrade.



No. 22024

No. 22024—7 contact flat press subminiature molded, vertically mounted socket for conventional wiring. Assembled with a special shield base to accept a subminiature shield with the "J" lock. Flat sided retaining nuts and screws are provided for mounting. Mica insulation. Silver plated beryllium copper contacts.

No. 22023—Same as above except insulation to withstand temperatures above 200° Centigrade.

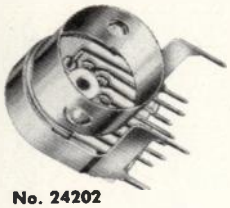


No. 22022

No. 22022 — 8 contact button base subminiature molded vertically mounted socket for conventional wiring. Assembled with special shield base to accept a subminiature shield with the "J" lock. Mica insulation. Silver plated beryllium copper contacts.

No. 22021—Same as above except insulation to withstand temperatures above 200° Centigrade.

No. 24202–7 contact miniature molded right angle mounted socket with JAN shield base. Mica insulation. Silver plated beryllium copper contacts drop through .062" dia. clearance holes arranged on a .1" X and Y axis.



No. 24202

No. 24257 — 7 contact flat press subminiature molded right angle socket. Mica insulation. Silver plated beryllium copper contacts drop through .046" dia. clearance holes arranged on a .1" X and Y axis.

No. 24257A–Same as above except insulation to withstand temperatures above 200° Centigrade.



No. 24257

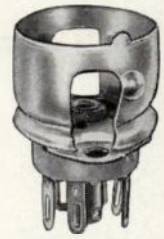
No. 24308–8 contact button base subminiature molded, right angle mounted socket. Mica insulation. Silver plated beryllium copper contacts drop through .046" dia. clearance holes arranged on .1" X and Y axis.



No. 24308

No. 24308A — Same as above except insulation to withstand temperatures above 200° Centigrade.

CINCH MIL SOCKETS MEET AND SURPASS RIGID MILITARY REQUIREMENTS

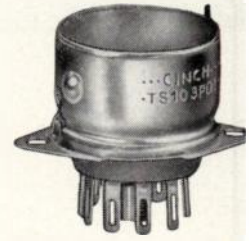


MINIATURE SOCKETS

Saddles and shield base of these Cinch miniature sockets are brass, nickel plated. All contacts are silver plated; tails are hot tin dipped. Molded castings are type MFE material; ceramic castings are grade L4B material or better.

NOVAL SOCKETS

The saddles and shield bases of Cinch noval sockets are brass, nickel plated. Contacts are silver plated; tails are hot tin dipped. Molded castings are type MFE material; ceramic castings are grade L4B or better.





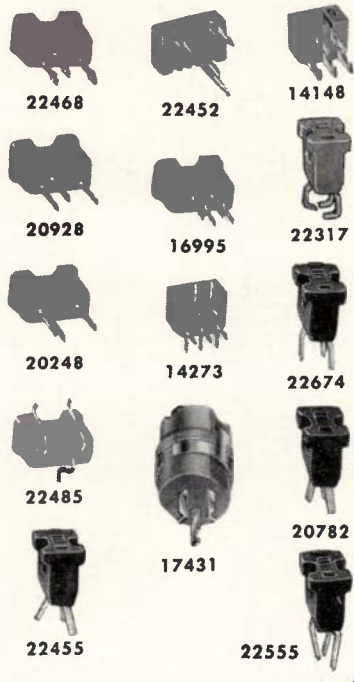
22384

CINCH MIL SOCKET SHIELDS:

CINCH MIL shields are made of brass, nickel plated. Springs are non-magnetic stainless steel. Heat-reducing inserts are available for these shields.

Descriptive circular with complete information on CINCH MIL sockets, shields and shield inserts available on request.

QUICK, EASY ASSEMBLY WITH CINCH TRANSISTOR SOCKETS:

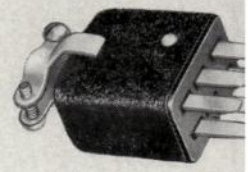


22468 · 22452 · 14148
20928 · 16995 · 22317
20248 · 14273 · 22674
22485 · 17431 · 20782
22455 · 22555

JONES

JONES PLUGS AND SOCKETS

Jones 300 Series are small in size with good separation between contacts. Made in two to thirty three contacts. Plugs and sockets are polarized. A popular, inexpensive connector adaptable to a thousand uses. Phosphor bronze "knife switch" socket contacts engage both sides of heavy brass plug contacts for positive connections. Molded Bakelite insulation. Can also be supplied with contacts that will take the Faston or Quick Connect solderless terminals.



Jones 2400 Series are designed for highest electrical and mechanical efficiency. Ideal for Public Address, Radio, Electronic Controls, Vending Machines, or wherever a quality connector is required. Maximum creepage distances between contacts and contact to ground makes this series a must when Underwriter label is required. Made in 2, 4, 6, 8, 10 and 12 contact. Molded Bakelite insulation. Caps are of steel with black wrinkle finish.

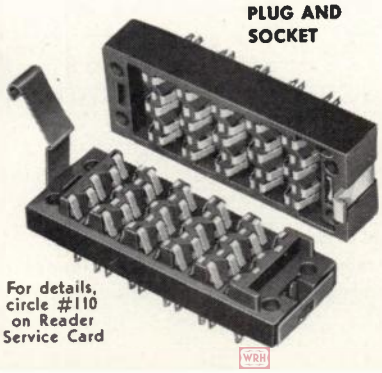






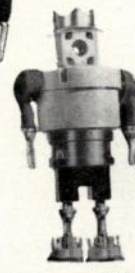
HINGE CONNECTOR, PLUG WITH CABLE CLAMP ASSEMBLY AND SOCKET. 50 Contacts

Centrally located plants at Chicago, Illinois; Shelbyville, Indiana; LaPuente, California; St. Louis, Missouri.



PLUG AND SOCKET

For details, circle #110 on Reader Service Card



Cinch ELECTRONIC COMPONENTS

CONSULT CINCH

CINCH MANUFACTURING CORPORATIO

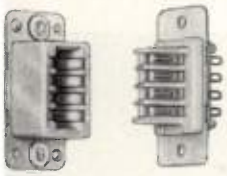
1026 South Homan Ave., Chicago 24, Illinois

Subsidiary of United-Carr Fastener Corporation, Cambridge, M

CINCH HINGE CONNECTOR

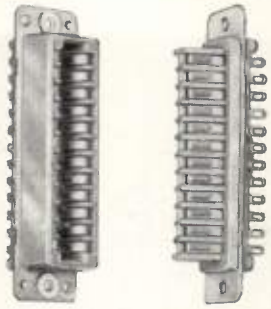
(Left)—insures positive contact; has simple locking device, easy relea Maximum number of contacts in minimum space. Equipped with ca hole, cable clamp, top or end or both. Plug or socket can be moun in cover, reversing hardware for catch. Cover assembly finished in bl Wrinkle (E 73); cable clamp assemble is Cadmium plated. Contact t will take either conventional solder wiring or AMP "78" series Taper 1 receptacles.

...CONNECTORS



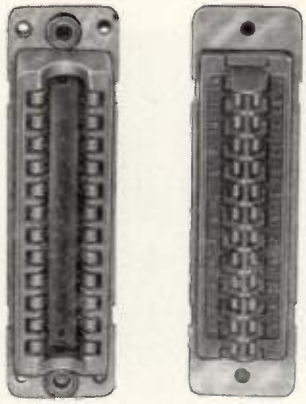
8 CONTACT PLUG AND SOCKET

The ribbon contact principle, with dielectric guide and support eliminates the possibilities of damaged or bent contacts and prevents difficulties of plug-in. No dependence on contact arrangement or visual alignment is necessary.



24 CONTACT PLUG AND SOCKET

Manufactured by agreement with Amphenol Electronics Corporation

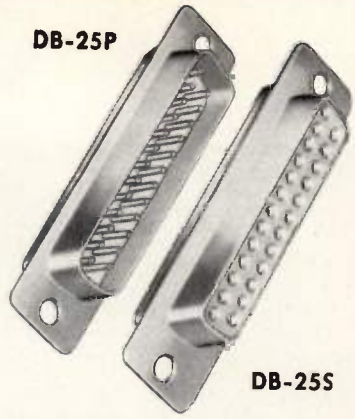


24 CONTACT PLUG AND SOCKET IMPROVED TYPE

The above illustrates the improved design of plug and socket casting which eliminates any possible breakage.

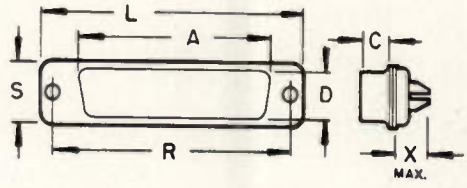
Manufactured by agreement with Cannon Electric Company

Send for illustrated Catalog No. 157 with details of "D" Sub-Miniature, "DPA" and "DPX" Series.



★CANNON D SUB-MINIATURE, DPA and DPX SERIES CONNECTORS

(Right) D Sub-Miniatures; Standard Pin and Socket Inserts:



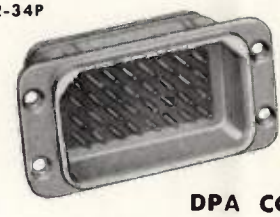
Insert arrangements —5 plus coaxials in 9, 15, 25, 37 and 50 contacts. Insulation material—Zytel 101 or DIALL. Polarization — Keystone cornered shell. Operating temperature —67° to +310°F.

BLUE RIBBON CONNECTORS

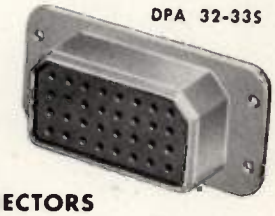
Barrier Polarization Type Insure Quick Positive Contact With Ease

The Wedge principle with the strong spring action of the contacts holds the connector in positive contact, and provides ease of insertion and withdrawal. The protective barriers between ribbon contacts insure uniform spacing. The entire length of the contacts are supported by quality dielectric. Multiple mounting makes it possible to make or break any number of circuits simultaneously. Molded-in mounting plates are of corrosion resistant passivated stainless steel.

DPA 32-34P



DPA 32-33S



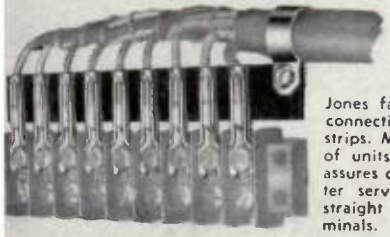
DPA CONNECTORS

BARRIER TYPE TERMINAL STRIPS, PLUGS, SOCKETS, FANNING STRIPS



Jones 202 Series: Shielded type low loss plugs and sockets for high frequency connections. Ideal for antenna connections, photo-cell work, microphone connections. Phosphor bronze knife-switch type socket contacts engage both sides of flat plug contact—double contact area. Plugs and sockets have molded Bakelite insulation.

JONES FANNING STRIPS



Jones fanning strips simplify connections to the barrier strips. Makes the replacement of units an easy matter and assures correct connections after servicing. Supplied with straight or right angle terminals.

JONES MEANS PROVEN QUALITY

The steadily expanding variety of plugs and sockets produced at the JONES Division has a wide range of the highest quality electrical and mechanical parts to efficiently fill every need.

Hundreds of standard JONES terminal panels available; complete latest equipment for specials, send your specifications for prompt quotation.



"50" EDGE CONNECTOR

Cinch 50M Edge Connectors are available in any number of contacts from one to 56. The contacts are on standard 5/32" centers. A polarizing guide may be assembled at any contact position.

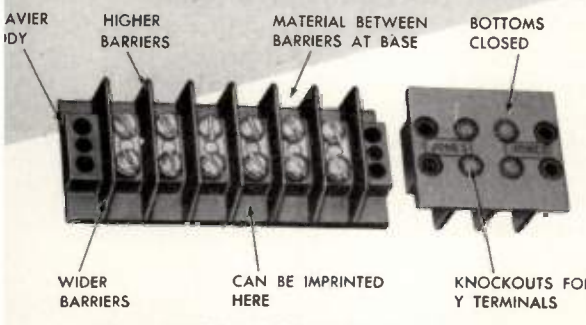


Eight different contact tail terminations provide for use of A.M.P. "78" or "98" solderless taper tab connections. A standard solder slot is also provided.

40 contact connector "A" style for applications where plug is "live voltage" side.

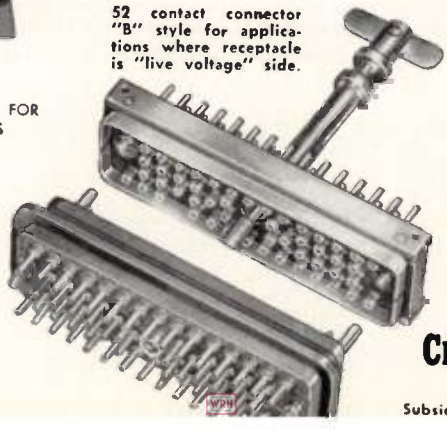
For details, circle #111 on Reader Service Card

HOWARD B. JONES DIVISION
CINCH MANUFACTURING CORPORATION



(Above) JONES 500 SERIES BARRIER STRIPS

52 contact connector "B" style for applications where receptacle is "live voltage" side.



COMPRESSION TYPE MICRO CONNECTOR

28, 32, 40, 48 and 52 contacts. Center engaging screw with wing nut or screw driver slot and spring action contacts—permits easy, quick and reliable engagement and dis-engagement. Receptacle side available for pressurized applications.



Cinch ELECTRONIC COMPONENTS

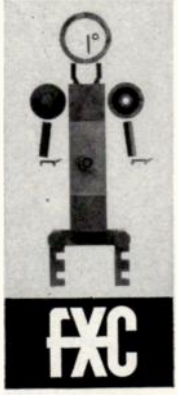
CINCH MANUFACTURING CORPORATION
1026 South Homan Ave., Chicago 24, Illinois
Subsidiary of United-Carr Fastener Corporation, Cambridge, Mass.



FXC, the Ferroxcube Corporation of America, is one of the few pioneer companies in the world specializing in the brand-new science and technology of ferrite components. The *"Ferrite Man"* from FXC is at your service with the widest range of ferrite cores available from any source today and is ready to discuss with you your individual requirements and specifications with regard to any of the following custom engineered ferrite products:

television flyback transformer cores • recording and playback head cores (contact and non-contact) • pulse and transformer cores • broadband transformer cores • pre-adjusted filter cores • high-frequency power transformer cores • delay line cores • ferrite choke or shielding cores and simple inductor cores • square hysteresis loop cores for memory arrays • square hysteresis loop cores for switching and other applications

also available: ceramic permanent magnets • thermistors • varistors



Ask the "Ferrite Man" from

FERROXCUBE CORPORATION OF AMERICA

50 EAST BRIDGE STREET, SAUGERTIES, NEW YORK

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RCA

- Computer Tubes
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"Across the board"

...FOR INDUSTRY AND THE MILITARY

Regardless of the application areas you are working in—radio-frequency, audio-frequency, video, photoelectronic, oscillographic, power—you can rely on RCA as the one dependable source of quality-engineered tubes *across the board*.

For help in selecting the right tubes for your application—please get in touch with the RCA Field Representative at the RCA office nearest you. For tube technical data on specific tube classes, simply write RCA Commercial Engineering, Section I -20-Q. Harrison, N.J.

For details, circle #113 on Reader Service Card

RADIO CORPORATION OF AMERICA
Electron Tube Division *Harrison, N. J.*

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WEST: 6355 E. Washington Blvd.
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Government Sales

224 N. Wilkinson Street
Dayton 2, Ohio • BAldwin 6-2366

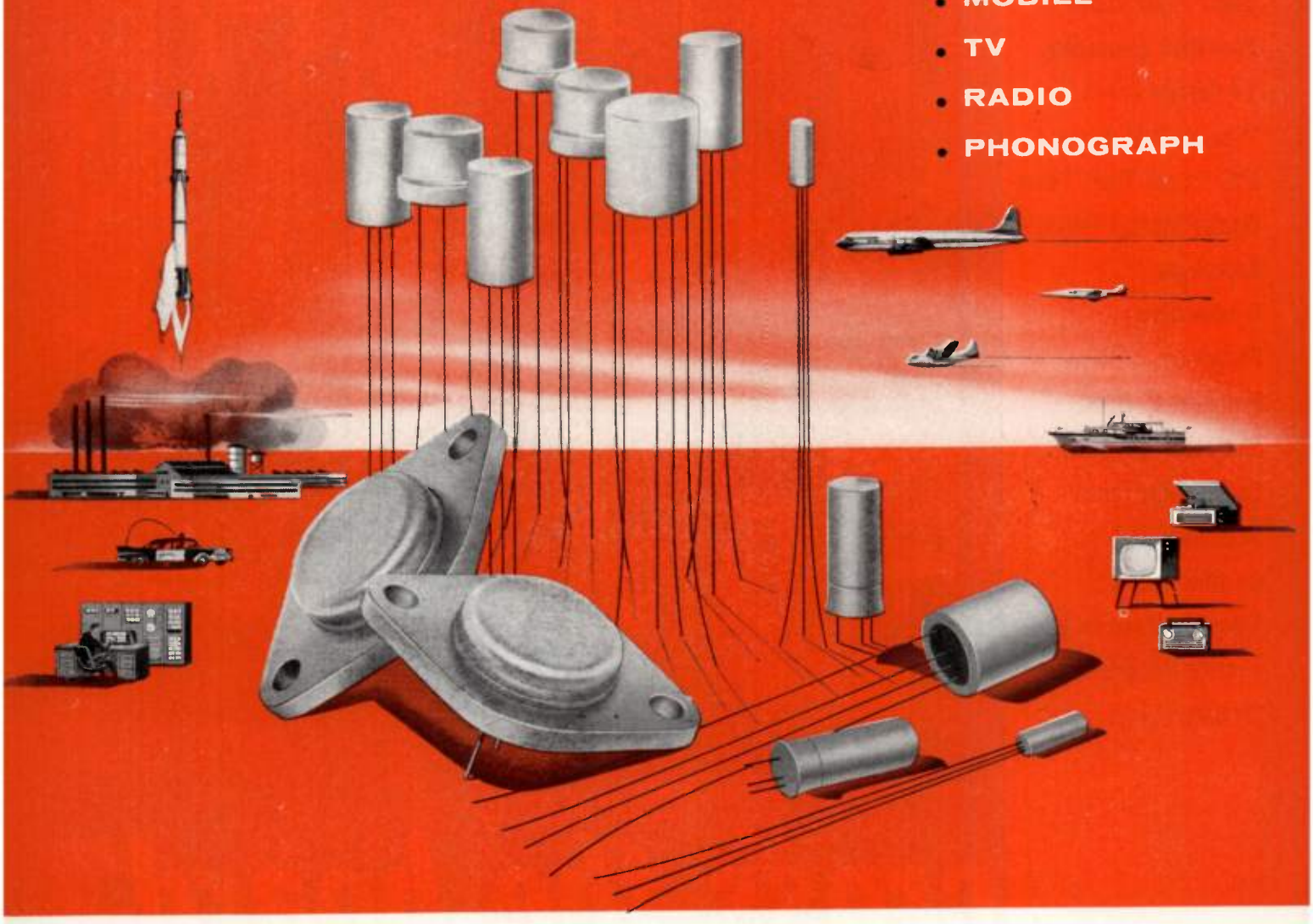
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415 S. Fifth Street
Harrison, N.J. • HUmboldt 5-3900

WRH

RCA offers superior-quality TRANSISTORS for these applications...

- INDUSTRIAL
- MILITARY
- COMPUTER
- AIRCRAFT
- MARINE
- MOBILE
- TV
- RADIO
- PHONOGRAPH



RCA's comprehensive line of TRANSISTORS offers you reliability, electrical uniformity, top performance, and mass-production availability! They are produced and controlled to meet the most critical performance requirements. Whatever your needs in transistors—*from special one-of-a-kind projects to production-run apparatus... from dc to VHF*—contact your RCA Field Representative or your local Authorized RCA Distributor for a discussion of the RCA TRANSISTORS best suited to your own designs. For technical data on specific types, write to RCA Commercial Engineering, Section I-20-NN, Somerville, N. J.

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GOV'T:
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Washington, D. C. • District 7-1260

EAST:
744 Broad Street
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MIDWEST:
Suite 1154, Merchandise Mart Plaza
Chicago 54, Ill. • WHitehall 4-2900

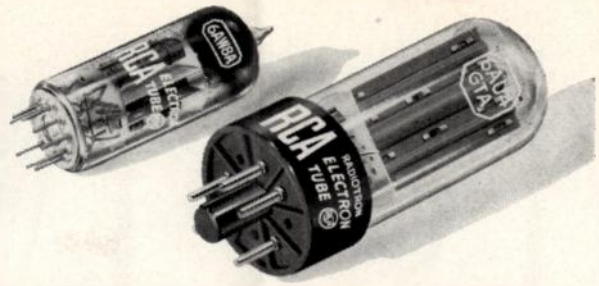
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Semiconductor & Materials Division
Somerville, N. J.

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lower costs begin with



PREFERRED TUBE TYPES

The RCA Preferred List of 62 carefully selected tube types covers practically every tube function necessary for the design of TV, AM and FM receivers. Here for quick reference is the current list of Preferred Tube Types. Their use helps assure equipment that is more economical to manufacture and performance that is more dependable.

YOU GAIN 3 BIG BENEFITS FROM RCA'S PREFERRED TUBE TYPE PROGRAM

- **Lower Costs**...concentration on the manufacture of fewer types makes possible lower tube production costs and reduced warehousing and stocking expenses, all of which contribute to lower prices.
- **More Uniform Quality**...operating skills in tube manufacture increase when production is concentrated on fewer tube types and longer runs—assuring superior quality.
- **Better Availability**...fewer tube types make possible better availability and faster delivery schedules to support continuous production of radio and television receivers.

Before you specify—check the advantages of RCA Preferred Tube Types with your RCA Field Representative. You will find it is time well spent.

TYPES FOR AM AND FM BROADCAST RECEIVER APPLICATIONS

RECTIFIERS AND DIODE DETECTORS	CONVERTERS	AMPLIFIERS, OSCILLATORS, MIXERS					OUTPUT AMPLIFIERS
		Triodes		Pentodes			
		Twin	With Diodes	Sharp Cutoff	Remote Cutoff	With Diode	
5Y3-GT 6AL5	1R5 6BE6 6X8	6CG7	6AV6	1U4 6AU6	1T4 6BA6	1U5	3V4 6AQ5-A 6L6-GB 6V6-GT
12X4 35W4	12BE6	12AX7	12AV6		12BA6		35C5 50C5

TYPES FOR TELEVISION RECEIVER APPLICATIONS

TUNER TUBES		AMPLIFIERS				DEFLECTION OSCILLATORS & CONTROL TYPES
RF Amplifiers	Oscillators, Mixers	IF	Video	Audio	Deflection	
3BC5 6BC5 6BC8 6BZ7	2AF4-A* 6AF4-A* 5CG8 6CG8-A 5U8 6U8-A	6AM8-A 3AU6 6AU6 3BZ6 6BZ6 3CB6 6CB6	6AW8-A 12BY7-A	5AQ5 6AQ5-A 6AV6 12CU5	6CB5-A** 6CD6-GA 6CM7 6DQ6-A 12DQ6-A 6W6-GT 12W6-GT	6BY6 6CG7 6CM7

DETECTORS		RECTIFIERS			HV REGULATOR
Sound	Video	High-Voltage	Low-Voltage	Damper Types	
3DT6 6DT6	6AM8-A	1B3-GT 1V2** 3A3**	5U4-GB	6AU4-GTA 6AX4-GT 12AX4-GTA	6BK4**

*For UHF Oscillator service
**For Color TV only

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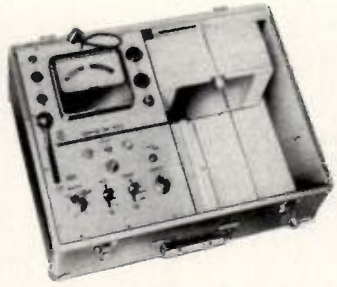
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RADIO CORPORATION OF AMERICA
Electron Tube Division *Harrison, N. J.*



WT-100A Electron-Tube MicroMhoMeter—Accuracy suited for electronic equipment manufacturers and research, development, and maintenance groups. Precision tube testing under actual circuit conditions. Built-in "shorts" test; burnout-protected meter; regulated power supplies for dc voltages; measures transconductance up to 100,000 micromhos in 6 ranges. $949.00*



WT-110A *Automatic* Electron-Tube Tester—Automated punch-card tester, sets up all socket connections and all operating voltages at touch of lever. Scale indicates transconductance in terms of "Renew-?-Good." Extremely versatile, simple to operate. Supplied with 263 cards. Accessory cards and punch available to keep card file up-to-date as new tube information is released. $199.50*



WV-84B Ultra-Sensitive DC Microammeter—popular choice for industrial, chemical, and general laboratory applications. Designed to measure currents from 0.0002 to 1000 microamp. Can be used as ohmmeter to measure resistance in the order of billions of ohms. Self-contained batteries permit use for field applications. Low current drain tubes extend battery life; meter protected from accidental overloads. $110.00* (less batteries)

FOR YOUR LAB OR LINE



WP-25A TV Isotap—Speeds up servicing, prevents damage to test equipment, minimizes shock hazards. May be used as high-medium-low-voltage isolation transformer or autotransformer for testing TV receivers at various settings of line voltage. Supplies outputs of 130, 115, and 105 volts at maximum load. Tapped to match line voltages from 105 to 130 volts in six steps. $22.00*



WV-74A High-Sensitivity AC VTVM—All new AC VTVM with large 6½-inch meter. Nine voltage ranges, from 0.001 to 100 volts. Overall accuracy ±5% of full scale. Built-in amplifier with gain of approximately 38 db and output impedance of 400 ohms. Can be used as a preamplifier for numerous applications. $99.50*



WO-91A—5" Oscilloscope—4.5-Mc scope, choice of wide-band or high-sensitivity operation for waveshape observation and measurement, signal tracing and alignment of chrominance circuits and wide-band amplifiers—voltage-calibrated, frequency-compensated, vertical-input attenuator and calibrated graph screen make possible direct voltage readings as easily as with a VTVM. $239.50*



RCA WV-77C Junior VoltOhmyst...value plus efficiency! Designed to check avc, oscillator, and other high-impedance circuits as well as audio and rf circuits. Five ranges each for dc and ac voltage and resistance measurements. Sturdy, 200-microampere meter movement electronically protected against burnout on all functions. Complete with WG-299C DC/AC Ohms Probe and Cable, ground cable, alligator clip, clip insulator, instruction booklet. $59.50*

CHOOSE AN RCA DESIGN!



RCA WV-87B Master VoltOhmyst...features a 7½ inch meter with mirror-backed scale. Easy-to-read peak-to-peak voltage scales are particularly useful for TV, radar, and other types of pulse work. Current ranges from 0.01 ma to 15 amperes. Complete with WG-299C DC/AC Ohms Probe and Cable, current cable, ground cable, alligator clip, instruction booklet. $137.50*



RCA WV-98A Senior VoltOhmyst...time-proved performance, "workhorse" of the VoltOhmyst line. Large, easy-to-read wide-vision meter (6½"w). Features: direct peak-to-peak readings of complex waveforms, accuracy of ±3% full scale on both ac and dc voltage measurements. Complete with sturdy single-unit WG-299C DC/AC Ohms Probe and Cable, ground cable, alligator clip, clip insulator, instruction booklet. $79.50*



WA-44B—Audio Signal Generator—for use in measuring: intermodulation distortion in amplifiers, frequency response of amplifiers, tone controls and phonograph equalizers; input and output impedances of amplifiers; resonant frequency of loud-speakers; and speed of recorder/reproducer mechanisms. Continuously tunable from 11 cps to 100 Kc. $107.50*

*User Price (Optional)

For fast delivery of test instruments for lab, line or shop...call your Authorized RCA Test Equipment Distributor.

RCA®

RADIO CORPORATION OF AMERICA

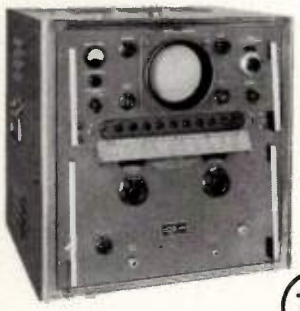
Electron Tube Division — **Harrison, N. J.**

For details, circle #116 on Reader Service Card

FXR *New* 1958 SHORT FORM CATALOG

BROADBAND SPECTRUM ANALYZER

Type L701A: 950 to 2000 Mc/s (Fund.)
Type S701A: 1900 to 4000 Mc/s (Fund.)
Harmonic Operation: to 16,000 Mc/s
Swept IF: 7 Kc and 50 Kc
Sweep Width: 50 Mc
RF Attenuator: 100 db Range
Video Markers



701

SIGNAL SOURCES

Type L771B: 950 to 2000 Mc/s
Type S771B: 1900 to 4000 Mc/s
Type C772A: 3950 to 8200 Mc/s
Type X772A: 7000 to 10,750 Mc/s
Output Power: 50 mw (average)
Direct Reading Frequency Dial: 1%
Internal Modulation: Pulsed, Square Wave, C.W.
Integral RF Level Set Attenuator

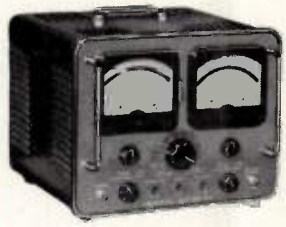


771
772

UNIVERSAL RATIOMETER

(COMBINED RATIO METER AND STANDING WAVE AMPLIFIER)

RATIO METER—1000 cps operation
VSWR Ranges: 1.02 to 1.22, 1.20 to ∞
Reflection Coefficient: .01 to .1, .1 to 1.0
Other Scales: db, Slotted Line VSWR
Standing Wave Amplifier—1000 cps operation
Range: 70 db in six 10 db steps
Noise Level: .03 mv
Scales: VSWR, db, Expanded VSWR
Bolometer Bias: 4.5 and 8.75 ma
Input Impedance: 200 ohms or 200 K ohms



811

UNIVERSAL KLYSTRON POWER SUPPLY

Beam: 200 to 2000 V, 125 ma max., 1800 to 3600 V, 100 ma or 250 W max.
Reflector: 0 to 1000 V
Control Grid: −300 to 0 to +150 V, 5 ma max.
Regulation: 0.03%
Ripple: 3 mv max.
Internal Reflector Modulation: Square Wave, Pulse, Sawtooth, Sine Wave



815

UNIVERSAL MICROWAVE POWER SUPPLY

Helix or Beam: 0 to 1800 V, 125 ma max. 1700 to 3500 V, 100 ma or 250 W max.
Collector: 0 to 300 V, 100 ma max.
Anode: 0 to 600 V, 60 ma max.
G-1: 0 to 300 V, 5 ma max.
G-2 or Reflector: 0 to ±1200, 1 ma max.
G-3: 0 to ±750, 1 ma max.
G-4: 0 to ±500, 1 ma max.
Regulation: 0.03%. **Ripple:** 3 mv max.
Heater: 0 to 15 V D.C., Regulated.
Internal G-1 or G-2 Modulation: Sine Wave Square Wave, Pulse, Sawtooth



817

KLYSTRON POWER SUPPLY

Beam: 300 to 1000 V, 85 ma max.
Reflector: 0 to 900 V, 20 μa max.
Control Grid: −300 to 0 to +150 V, 5 ma max.
Regulation: 1%
Ripple: 7 mv max.
Internal Reflector Modulation: Square Wave, Pulse, Sawtooth



819

also available... STANDING WAVE AMPLIFIER 810
UNIVERSAL POWER METER 830

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Precision Microwave Equipment

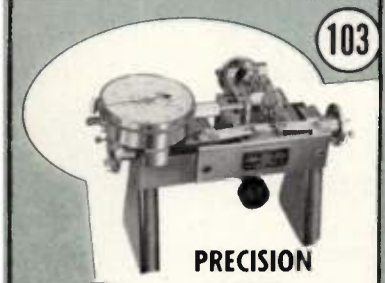
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TEST EQUIPMENT • **RADAR COMPONENTS** • **HIGH-POWER MODULATORS**

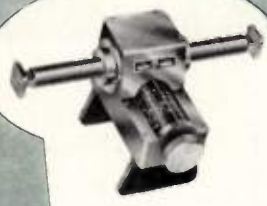
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103

PRECISION SLOTTED SECTIONS



164

PRECISION ROTARY VANE ATTENUATORS



200

TUNABLE PROBE



205

DETECTOR MOUNTS

WAVEGUIDE TEST EQUIPMENT

INSTRUMENT	Size	"L" 6½"x3¼"	"R" 4.460"x 2.310"	"S" 3"x1½"	"H" 2"x1"	"C" 1½"x¾"	"W" 1¼"x⅝"	"X" 1"x½"	"Y" 0.622"x 0.311" ID	"K" 0.420"x 0.170" ID	"U" † 0.280"x 0.140" ID	"Q" 0.224"x 0.112" ID	"M" 0.148"x 0.074" ID	"E" 0.122"x 0.061" ID
	Freq Range	1.12-1.70 kmc/sec	1.70-2.60 kmc/sec	2.60-3.95 kmc/sec	3.95-5.85 kmc/sec	5.85-8.20 kmc/sec	7.05-10.00 kmc/sec	8.20-12.40 kmc/sec	12.40-18.00 kmc/sec	18.00-26.50 kmc/sec	26.50-40.00 kmc/sec	33.00-50.00 kmc/sec	50.00-75.00 kmc/sec	60.00-90.00 kmc/sec
SLOTTED SECTIONS		L101A	R101A	S101A	H101A	C101A	W101A	X101A	Y102A	K102A	U102A	Q103A	M103A	E103A
FLAP ATTENUATORS		L150B	R150B	S151A	H151A	C151A	W151A	X151A	Y151A	K151A	U151A	Q151A	M151A	E151A
PRECISION ATTENUATORS		L160B	R160B	S161A	H161A	C161A	W161A	X164A	Y161A	K164A	U164A	Q164A	M164A	E164A
FIXED ATTENUATORS		L168A, B, C, D, E		S168A, B, C, D, E	H168A, B, C, D, E	C168A, B, C, D, E	W168A, B, C, D, E	X168A, B, C, D, E	Y168A, B, C, D, E	A-3db B-6db	C-10db D-20db	E-30db		
DETECTOR MOUNTS (crystal, bolometer)	Tunable								Y205B	K205B	U205B			
	Broadband			S207A	H207A	C207A	W207A	X207A			U206B	Q206B	M206B	E206B
	Fixed-Tuned							X211A	Y212A	K212A	U212A			
THERMISTOR MOUNTS		L216A	R216A	S216A	H216A	C216A	W216A	X216A	Y216A	K216A	U216S			
TUNERS	Slide Screw	L 310A	R310A	S311A	H311A	C311A	W311A	X311A	Y311A					
	E H			S312A	H312A	C312A	W312A	X312A	Y312B	K312B	U312B	Q312B	M312B	E312B
	Precision					C402A		X402A						
FREQUENCY METERS (direct reading)	Reaction	N410A coaxial (1.00 to 4.00 kmc/sec)			H410A	C410A	W410A	X410A	Y410A	K410A	U410A	Q410X (micrometer)	M410X (micrometer)	E410X micrometer)
	Transmission							X411A						
TERMINATIONS	Fixed	L501A	R501A	S501B	H501B	C501B	W501B	X501B	Y501B	K501A	U501A	Q501A	M501A	E501A
	Sliding	L502A		S502A	H502A	C502A	W502A	X502A	Y502A	K502A	U502A			
STANDARD MISMATCHES				S510A, B, C, D, E	H510A, B, C, D, E	C510A, B, C, D, E	W510A, B, C, D, E	X510A, B, C, D, E	Y510A, B, C, D, E	K510A, B, C, D, E	U510A, B, C, D, E	A-1.00 B-1.05	C-1.10 D-1.20	E-1.50
ADAPTERS (waveguide to coax)		L600B	R601B	S601B	H601B	C601B	W601B							
DIRECTIONAL COUPLERS		††L612E	††R612E	S610A, B, C, D	H610A, B, C, D	C610A, B, C, D	W610A, B, C, D	X610A, B, C, D	Y610A, B, C, D	K610A, B, C, D	U610A, B, C, D		M610A, B, C, D	A-3db C-10db B-6db D-20db E-25 db
WAVEGUIDE TEES	Series	L620A	R620A	S620A	H620A	C620A	W620A	X620A	Y620A	K620A	U620A	Q620A	M620A	E620A
	Shunt	L621A	R621A	S621A	H621A	C621A	W621A	X621A	Y621A	K621A	U621A	Q621A	M621A	E621A
	Hybrid	L622A	R622A	S622A	H622A	C622A	W622A	X622A	Y622A	K622A	U622A	Q622A	M622A	E622A
WAVEGUIDE BENDS	90° E-Plane	L623B	R623B	S623B	H623B	C623B	W623B	X623B	Y623B	K623B	U623B	Q623B	M623B	E623B
	90° H-Plane	L624B		S624B	H624B	C624B	W624B	X624B	Y624B	K624B	U624B	Q624B	M624B	E624B
PRECISION SLIDING SHORTS		L630A		S630A	H630A	C630A	W630A	X630A	Y630B	K630B	U630B	Q630B	M630B	E630B
STANDARD GAIN HORNS		L638A	R638A	S638A	H638A	C638A	W638A	X638A	Y638A	K638A	U638A	Q638A	M638A	E638A
SHIELDED TUBE MOUNTS					H760A		W760A	X760A			Z762B (unshielded)			
TRANSMISSION LINE STANDS		Z911A		Z910A	Z910A	Z910A	Z910A	Z910A	Z910B	Z910B	Z910B	Z910C	Z910C	Z910C
FLANGE SCREWS		Z912L		Z912S	Z912HC	Z912HC	Z912W	Z912X	Z912Y	Z912KU	Z912KU			
		Z913L		Z913S	Z913HC	Z913HC	Z913W	Z913X	Z913Y	Z913KU	Z913KU			
										Z914K	Z914U	Z914Q	Z914M	Z914E

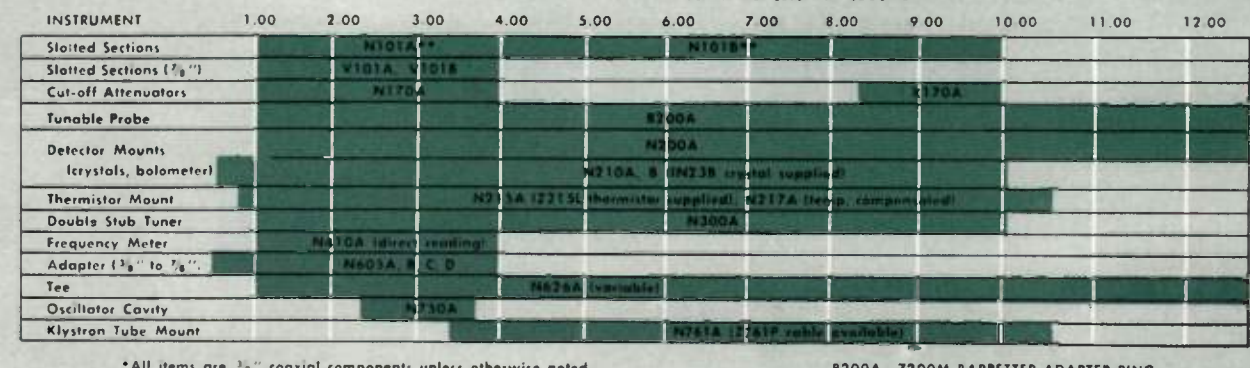
Bi-directional couplers available on special order

Waveguide flanges also available

†Specify required flanges when ordering

††Cross guide coupler

COAXIAL TEST EQUIPMENT*



*All items are ⅞" coaxial components unless otherwise noted

**Accessories: N101A, B—"TYPE N" and "TYPE C" ADAPTER-CONNECTORS

B200A Z200M BARRETTER-ADAPTER RING

N200A N200N R-F OUTPUT ADAPTER

For details, circle #118 on Reader Service Card

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215



FXR BROADBAND COAXIAL THERMISTOR MOUNT

207
216



FXR BROADBAND THERMISTOR or BOLOMETER MOUNTS

220



FXR CRYSTAL-CASE BOLOMETERS

300



FXR DOUBLE STUB TUNERS

311



FXR SLIDE SCREW TUNERS E/H TUNERS

402



FXR PRECISION DIRECT READING FREQUENCY METERS

410



FXR COAXIAL DIRECT READING FREQUENCY METERS

410



FXR WAVEGUIDE DIRECT READING FREQUENCY METERS

501



FXR TERMINATIONS

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FXR STANDARD MISMATCHES

601



FXR WAVEGUIDE-TO-COAX ADAPTERS

605



FXR COAX-TO-COAX ADAPTERS

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FXR PRECISION MULTI-HOLE DIRECTIONAL COUPLERS

620
621



FXR SERIES AND SHUNT TEES

622



FXR HYBRID TEES

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624



FXR 90° WAVEGUIDE BENDS

630



FXR PRECISION SLIDING SHORTS

638



FXR STANDARD GAIN HORNS

760



FXR SHIELDED TUBE MOUNT

761
762



FXR KLYSTRON TUBE MOUNTS

Precision Microwave Equipment

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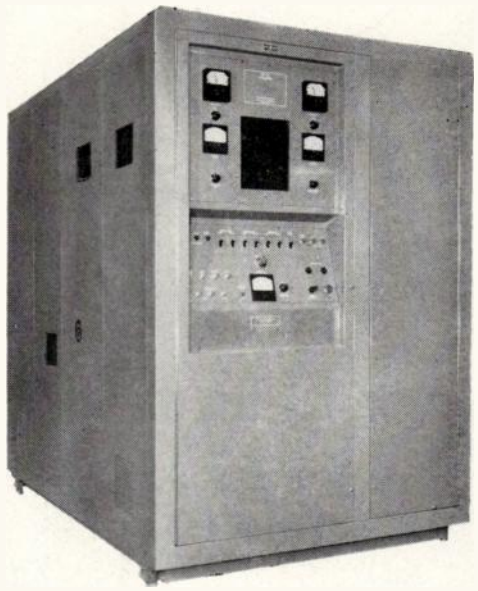
FXR MODULATORS

• CUSTOM

• STANDARD

FXR's High-Power Pulse Modulators are custom designed and built to meet specific technical requirements. Experienced engineers, expanded modern test facilities and improved manufacturing techniques combine to fabricate the most intricate pulse modulators and high voltage power supplies—individually "*custom-tailored*" to the needs of the user.

FXR welcomes the opportunity to acquaint you with "proven reliability" in the design and construction of specialized modulators.

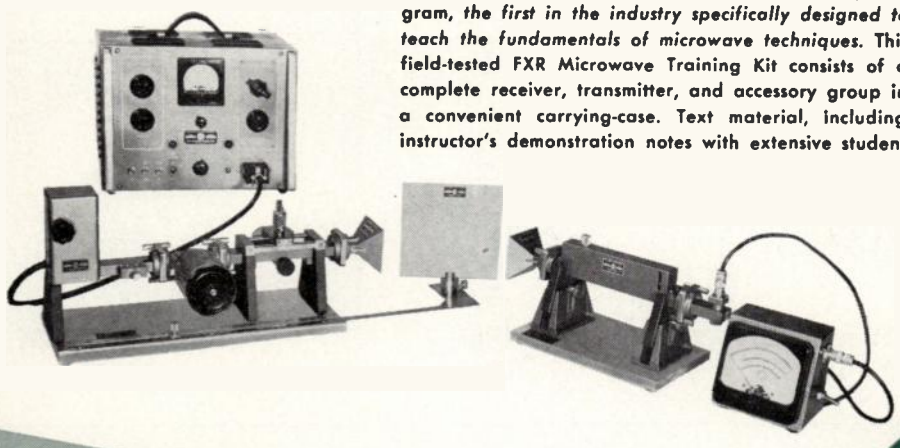


High Power Modulator Type No.	Power (peak mega-watts)	Voltage (peak kilovolts)	Current (peak plate-amperes)	Impedance (output-ohms)	Duty Cycle (maximum)	Pulse Shape (μsec/pps)	Input 60 CPS (Ø/volts)	Tubes Operated
Z820A	1.0	33	33	1,000	.001	0.5/2000 2.5/400	1/190-250	4J50, QK-349 RK-6249
Z821A	14.0	90	160	560	.001	2.0/200-500	3/440-550	QK-338
Z822A	0.2	20	10	3,330	.018	10/1200-1800	3/440	SAL 39 (GL-6625)
Z823A	0.042	12.7	3.3	3,330	.064	coded/300	3/440	SAL 39
Z824A	0.625	25	25	1,000	.001 at 0.5/2000	1.0/1000 2.0/250 5.0/100	1/190-250	QK-349 at reduced power
Z825A	1.6	40	40	1,000	.001 at 0.5/2000	1.0/1000 2.5/400	1/190-250	WE-5780

*Partial listing of standard units. Custom units developed to specific requirements.

Send for the "PRELIMINARY QUESTIONNAIRE" to assist you in planning the design of your next High-Power Pulse Modulator!

X845A FXR's MICROWAVE TRAINING KIT



FXR presents a complete packaged training program, *the first in the industry specifically designed to teach the fundamentals of microwave techniques.* This field-tested FXR Microwave Training Kit consists of a complete receiver, transmitter, and accessory group in a convenient carrying-case. Text material, including instructor's demonstration notes with extensive student laboratory exercises, are also furnished. By interchanging the accessories, the students learn fundamentals of propagation and the method and effects of such phenomena as shielding, polarization, reflection, focusing and bending of microwaves.

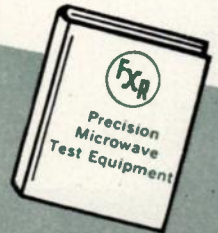
The Microwave Training Kit, an FXR exclusive, trains students to take numerical data and learn the methods and techniques of microwave measurements. This simple, efficient training program provides the student with a foundation of practical knowledge and experience necessary to his work in the microwave field.

Precision Microwave Equipment

F-R MACHINE WORKS, Inc.
WOODSIDE 77, N. Y. AStoria 8-2800

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TEST EQUIPMENT • RADAR COMPONENTS • HIGH-POWER MODULATORS

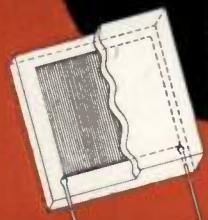
Write today for complete Catalog

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CTS

PERMANENTLY STABLE, 100% TESTED Resistors

PRECISION WIRE FIXED Bobbinless



New "Floating" Element

FAR EXCEED PROPOSED MIL-R-93B*

Burton Browne Advertising



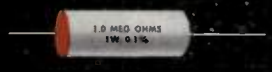
Type FC



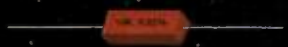
Type CB



Type FA



Type JD



Type F3B



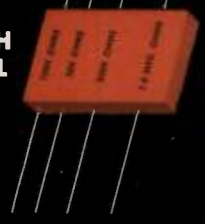
Type H3C

Type H3F



All resistors shown ½ actual size

Type L3H SPL



COMPARATIVE DATA REPORT

Note Exceptional Stability. Note extent that MIL-R-93B is exceeded

MIL R-93B (proposed) Tests	MIL Requirement	CTS Maximum	CTS Average
Short Time Overload	0.5%	.05%	.02%
Temperature Cycling	0.2%	.05%	.02%
Moisture Resistance	100 megs 1.0%	1000 megs (min) .1%	—— .05%
Salt Water Immersion Cycling	0.5%	.03%	.015%
Load Life at 125°C or 85°C (500 hours)	0.5%	.15%	.05%
Temperature Coefficient Less than 2000 ohms 2000 ohms and over	 Up to 75 PPM/°C 30 PPM/°C	 30 PPM/°C 20 PPM/°C	 —— ——
Low Temperature Storage	1.0%	.01%	.005%
Low Temperature Operation	1.0%	.05%	.02%
High Temperature Exposure (145°C)	1.0%	.05%	.02%
Acceleration	0.1%	.02%	.008%
Shock	0.1%	.02%	.008%
Vibration	0.1%	.02%	.008%

- No Wire Strain. Unique CTS "floating element" needs no bobbin or winding form . . . permits resistance elements and contacts to be firmly embedded in epoxy resin . . . forming a monolithic mass with a smaller space factor.
- Permanent Stability—Less than .05% average change under most environmental conditions and shelf life.
- 5PPM/°C Temperature Coefficient available.
- 100% Tested—High temperature exposure and short time overload tests are run on all resistors before shipment.
- Guaranteed Close Tolerance — Resistors guaranteed to be in tolerance under normal conditions of measurement. Tolerances down to ±0.05% available in standard sizes depending upon resistance value. Closer tolerances and/or matched multiples available.
- Low Inductance and Low Capacitance Characteristics with reproducible uniform frequency response.
- Withstands extreme vibration and shock due to unique construction and encapsulation method.
- Modular—Design flexibility permits grouping many resistors in a single unit.

Available in a wide variety of tubular, rectangular or square shapes. Special dimensions, tolerances, wattage ratings, resistances, etc. can be made to your precise requirement. Either axial or radial leads available.

For help in solving your fixed resistor problems, phone or write your nearest CTS office today.

*MIL-R-93B (proposed) soon to be issued, superseding MIL-R-93A.

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FOUNDED CTS 1896

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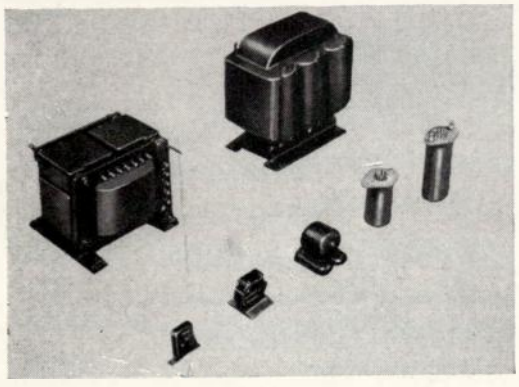
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TRANSFORMERS FOR MILITARY & INDUSTRIAL APPLICATIONS

APPROVED FACILITIES FOR CERTIFYING COMPLIANCE TO MIL-T-27A

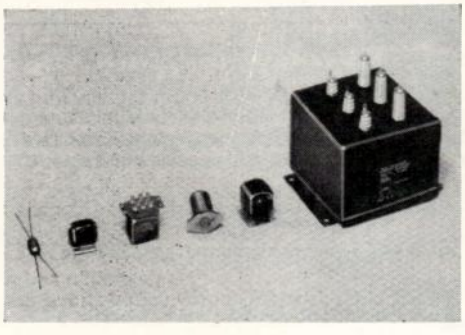
Manufacturers of Transformers since 1930

SPECIALLY TREATED TRANSFORMERS



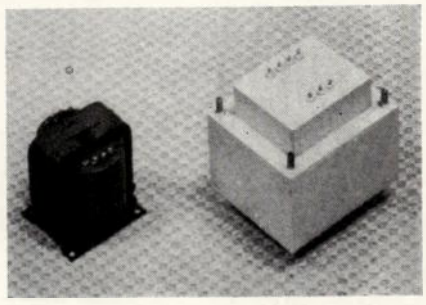
For those innumerable transformer applications in electronic equipment where size, weight and resistance to various atmospheric and temperature conditions are the determining factors, ITC can encapsulate or mold to meet practically any specified condition. This can be accomplished without any deviation in transformer performance due to special ITC techniques and materials. Special ITC test equipment can simulate temperature, humidity and atmospheric conditions thereby permitting transformer testing under identical operating conditions. ITC specially treated transformers have been "use-proven" in the field under rigid MIL-T-27A specifications.

PULSE TRANSFORMERS



ITC's design file includes pulse transformers varying in size from the subminiature molded types used for blocking oscillator and low power matching purposes to high power pulse output transformers feeding magnetron loads. ITC engineers have produced a great variety of pulse transformers designed for a wide range of specialized electronic equipment and as a result are considered outstanding specialists in this field. This, coupled with their many other design specialties, points out the versatility of design and manufacturing facilities available at ITC.

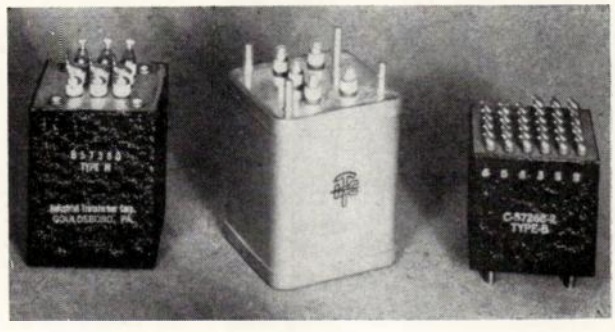
HIGH TEMPERATURE TRANSFORMERS



Constant technological developments in the electronic industry, primarily in the area of military defense, are rapidly increasing the applications for reliable, high temperature transformers. ITC has accumulated much data and experience in the design, fabrication and testing of these transformers to meet rigid Military Specifications.

Transformers have been constructed using practically every high temperature material that has been available in the last decade to insure transformer reliability and performance in the field. ITC's work on high temperature transformers has met with complete acceptance by both government and industry . . . you can put their "know-how" to work with confidence on high temperature transformer applications.

COMPUTER TRANSFORMERS



ITC engineers have, for several years, devoted considerable time to developing precision transformers for computer applications. These transformers have found complete acceptance among the outstanding computer manufacturers. Illustrated are some examples of computer precision transformers typical of the engineering skill and resourcefulness gained as a result of constantly working to rigid technical requirements demanded in computer components.

INDUSTRIAL TRANSFORMER CORPORATION

GOULDSBORO PENNSYLVANIA

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PRODUCTION TECHNIQUES FOR GUARANTEED PERFORMANCE

Industrial Insulation Breakdown Testers

DIELECTRIC TEST SET NO. 50



General: Designed to furnish the potentials required for dielectric tests conducted under M I L-C-13294A. Console type unit completely selfcontained. Rating: Output is 5 kw at 1000 or 5000 V RMS.

Input: Operates from 220 V RMS, 60 cycle, single phase line.

Output: 1000 V RMS at 5.0 amps or 5000 V RMS at 1.0 amps, selection to be made by manual changeover switch mounted on the control panel.

Voltage Control: Output voltage is continuously adjustable from zero to max. by panel mounted control driving a variable auto-transformer within the console.

Overload Protection: Instantaneous trip type circuit breaker is mounted on panel to interrupt circuit in case of breakdown. Also serves as on-off switch for unit. Two pole type, rated to trip at 25 amps.

Indicators: Control panel has 2 pilot lights to indicate "line voltage on" and "high voltage on."

Metering: Voltage and current are simultaneously metered. An iron vane type ammeter having ranges of 0-1.0 amp. and 0-5.0 amperes is included in the output circuit. An iron vane type volt meter with 0-1000 V and 0-5000 V range is mounted on control panel.

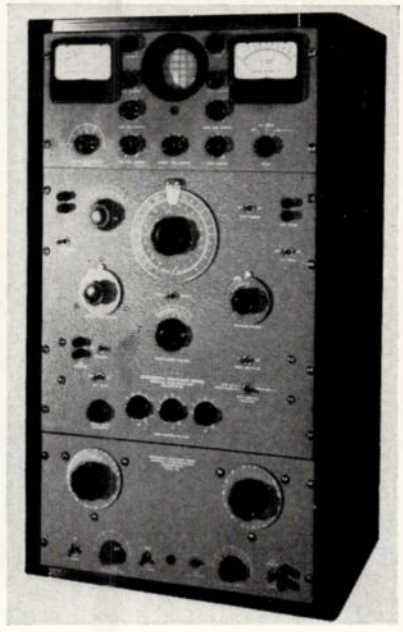
Input Cables: 50-ft. line-cord fiurnished having 3 conductors; 2 for line circuit, 1 to ground set. Two 50 ft. 8KV cables furnished. Insulated fittings at remote ends of cables.

COMPLETE FACILITIES

Coil Winding · Complete Machining · Can Fabrication · Plating · Tinning · Potting · Humidity Cycling Testing · Constant Temperature Testing · Vibration Testing.

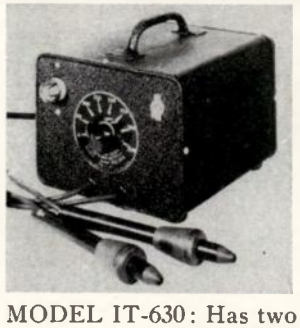
We are completely equipped with facilities for in-plan testing to meet MIL-T-27 specifications. All raw materials are given numerous inspection tests to insure uniform high standing quality and ability to withstand the stresses of actual service. We are constantly working to improve design and production, and our engineering staff is always ready to assist you in your Transformer problems.

INCREMENTAL INDUCTANCE BRIDGE



Model 226 Three bridge circuits in one instrument. Owen - Hay - Maxwell. Range — 1 Millihenry — 2000 henrys. Test voltage — .01-300 volts — R.M.S. D.C. saturation — 0-1000 M.A. Q—.06-300. Frequency-60 cycles internal, 20-5000 cycles external. Accuracy—1%. With the HAY arrangement, any inductance between 1 Millihenry and 2000 henrys can be measured provided the Q is larger than 5. With the OWEN arrangement, the same inductance range can be covered, but the Q must be comparatively low and can have a value as low as .06 at 60 cycles. The MAXWELL arrangement is suitable for the measurement of low Q coils (below 5 at 60 cycles) without superimposed D.C. and for the measurement of leakage inductance. Both the OWEN and the HAY circuits can be used with or without superimposed D.C. Automatically disconnects the D.C. supply from the bridge when it is put into the MAXWELL position.

INSULATION BREAKDOWN TEST SETS



MODEL 1T-25-A: Accurate indicator of grounds, shorts or opens. High voltage output and short circuit current: 500 V 1 amp-1500 V 360 ma, 1000 V 500 ma-1750 V 310 ma, 1250 V 420 ma-2000 V 370 ma. Input: 115 V, 60 cycles. Rating: 500 Va.



MODEL IT-630: Has two operating ranges. 0-3000 V RMS and 0.6000 V RMS, continuously variable, with circuit breaker. It is a convenient, compact and accurate means of testing insulation breakdown. Input: 115 V, 60 cycles. Rating: 1 KVA.

INDUSTRIAL TRANSFORMER CORPORATION

GOULDSBORO PENNSYLVANIA

Narda—UHF and Microwave products from 200 to 90,000 Mc

Narda's full catalog includes a complete line of UHF and Microwave instruments, as well as bolometers and thermistors, all of the highest quality. Most of our products are available for immediate delivery; flexible production schedules permit prompt shipment of even those items not regularly on the shelf.

Narda's list of repeat customers reads like a "Who's Who" of American industry and universities. You'll experience the same satisfaction, when you choose among the instruments listed on this page and the next three. For additional information on any item, and a free copy of our latest catalcg, write to the address shown below.

Waveguide Instruments L to E Band

DESCRIPTION	BAND ‡ Frequency Band & Waveguide No. ‡ &	J 1.12-1.70 0.66x0.41	LS 1.70-2.60 0.46x0.31	S 2.60-3.95 3x1½	C 3.95-5.85 2x1	XN 5.4-8.2 1¼x½-4	XB 7.05-10.0 1¼x½-8	X 8.2-12.4 1x½-2	KU 12.4-18 .702x.391	K ‡ 18.0-26.5 1/2 x 1/4	V ‡ 26.5-40.0 .268x.130	Q 33.0-50.0 .204x.102	M 50.0-75.0 .250x.104	E 60.0-90.0 .220x.101
Adapter, Flange, Round to Rectangular										388 $25	V387 $25			
Adapter, Waveguide to Type N		616 $170	615 $170	614 $50	613 $40	612 $35	611 $30 611B $00	601 $25 601B $35						
Attenuator, Calibrated, 0-40 db		L754	LS754	S754 $375	753 $325	752 $300	751 $275	750 $200	740 $250					
Attenuator, Fixed, 3, 6, or 10 db*		726 $200	725 $200	724 $75	723 $65	722 $65	721 $60	720 $55	719 $60	718 $75	V717 $80	Q717 $100	M717 $100	E717 $100
Attenuator, Variable, 0-20 db		736 $170	735 $225	734 $110	733 $100	732 $80	731 $80	730 $60	729 $75	728 $60	V727 $70	Q727 $100	M727 $100	E727 $100
Attenuator, Shielded, Shaft Lock								730S $75						
Bend, Waveguide, E-Plane				354E $100	353E $75	352E $55	351E $35	350E $25	340E $35	348E $60	V347E $65	Q347E $55	M347E $50	E347E $90
Bend, Waveguide, H-Plane				354H $100	353H $75	352H $55	351H $35	350H $25	340H $35	348H $40	V347H $45	Q347H $55	M347H $50	E347H $90
Detector, Waveguide, Tuneable					513 $95	512 $90	511 $85	510 $75	500 $110	508 $125	V507 $300	Q507 $210	M507 $210	E507 $350
Detector, Waveguide, Bolo. & Thermistor		536 $210	535 $210	534 $110	533 $80									
Detector, Waveguide, Bolometer						532 $90	531 $85	530 $65	529 $85					
Detector, Waveguide, Thermistor						542 $75	541 $65	540 $60	539 $85					
Directional Coupler, Cross-Guide, 20 db		1016 $375	1015 $375	1014 $125	1013 $110	1012 $65	1011 $56	1010 $48	1019 $56					
Dir. Cplr., Hi Directivity, 3, 6, 10, 20 db*				1074 $360	1073 $225	1072 $140	1071 $120	1070 $95	1069 $100	1068 $155	V1067 $175	Q1067	M1067 $500	E1067
Dir. Cplr., Hi Directivity, Hi Pwr., 40 db				1084 $400	1083 $250	1082 $200	1081 $150	1080 $150	1079 $150					
Dir. Cplr., Hi Directivity, Dual, 20 db				1034 $650	1033 $400	1032 $255	1031 $220	1030 $175	1029 $180	1028 $295	V1027 $330		M1027 $500	
Echo Boxes					833 $970			830 $1360						
Frequency Meter S to X Band					2350-10,500 mc 8029 $785									
Frequency Meter, Wavemeter						812 $120	811 $115	810 $110	809 $150			Q807 $325	M807 $300	E807 $500
Harmonic Generator											VM557 $160, VE557 $250, QL577 $340			
Horn, Standard Gain (16.5 db)		660 $1100	665 $900	644 $175	643 $150	642 $90	641 $85	640 $80	639 $80	638 $90	V637 $90	Q637 $120	M637 $125	E637 $250
Impedance Meter, Waveguide		226 $900	225 $950	224 $425	223 $350	222 $325	221 $270	220 $250	219 $270	218 $500	V217 $600	Q717 $1100	M217 $995	E217 $1000
Impedance Meter, Coaxial				1500-12,400 mc	231N $360, 231C $390, 231TNC $475									
Impedance Meter, High Power					213 $2175	212 $1975	211 $1700	210 $1375	209 $1700					
Mixer, Crystal, Coaxial Input				552 $500	553 $500	554 $500	555 $550							
Mixer, Crystal, Waveguide Input				564 $500	550 $500	551 $300	556 $600	505 $800	505 $600	567 $600	V568 $700			
Mixer, Nonlinonic			1-4 Hmc-Conn 524 $500		523 $525	522 $475	521 $425	520 $425	519 $475	518 $500	V517 $550			
Probe, R-F, Tuneable					900-18,000 mc 729 $125									
Reactance, Variable, High Power					913 $2775	912 $2575	911 $2300	910 $1975	909 $2300					
Reflection Stds. .00, .05, .10, .15, .20*				414 $300	413 $225	412 $190	411 $175	410 $125	409 $200					
Short, Tuneable				314 $00	313 $70	312 $60	311 $00	310 $40	309 $55	308 $75	V307 $85	Q307 $155	M307 $160	E307 $250
Tee, Hybrid		956 $230	955 $220	954 $110	953 $95	952 $75	951 $60	950 $50	949 $55	948 $65	V947 $80	Q947 $00	M947 $60	E947 $150
Tee, Series		946 $175	945 $175	944 $00	943 $00	942 $60	941 $45	940 $35	939 $40	938 $45	V937 $55	Q937 $65	M337 $60	E937 $110
Tee, Shunt		936 $175	935 $175	934 $00	933 $00	932 $60	931 $45	930 $35	929 $40	928 $45	V927 $50	(4327 $65	M927 $60	E927 $110
Termination, 1.02 VSWR		306 $210	305 $100	304 $45	303 $35	302 $30	301 $25	300 $20	299 $25	298 $30	V297 $35	Q297 $95	M297 $90	E297 $150
Termination, Sliding, 1.005 VSWR		386 $250	385 $290	384 $105	383 $75	382 $70	381 $00	380 $50	379 $55	378 $65	V377 $75	Q377 $175	M377 $175	E377 $225
Termination, High Power		326 $700	325	324 $290	323 $225	322 $200	321 $125	320 $125	319 $125					
Tube Mount, Shielded								980B $135						
Tuner, Double Stub, Type N & SC, TNC				900-12,400 mc 903N $00, 903C $125, 903BC $150, 903TNC $150										
Tuner, E-H				964 $225	963 $175	962 $150	961 $135	960 $130	959 $130	958 $155	V957 $170	Q957 $195	M957 $205	E957 $350
Twist, Waveguide, 90°				364 $175	363 $125	362 $75	361 $65	360 $40	359 $00	358 $00	V357 $70	Q357 $100	M357 $100	E357 $300
Waveguide, Straight 6", w/Flanges		346 $190	345 $140	344 $75	343 $50	342 $35	341 $30	340 $25	339 $30					
Waveguide, Straight 3", w/Flanges										338 $35	V337 $40	Q337 $50	M337 $50	E337 $75
Waveguide Clamp		2L $35	2LS $35	2S $5.50	2C $5.00	2XN $4.50	2XB $4.00	2X $3.50	2KU $4.00	2K $4.50	2V $5.50			
Waveguide Stand							Model 3 $4.00							

*Specify value desired. e.g.: V717-6, M1067-20, etc.

‡Standard models use UG585/U rectangular flanges in K band and UG599/U rectangular flanges in V band

Microwave Test Instruments

Frequency Power Meter
Model 107
500-1500 mc
$1150.

Radar Performance Checker
Model 116
All Frequencies
$485.

VSWR Amplifier
Model 441
All Frequencies
$200.

Tuned Pre-amp
Model 442
All Frequencies
$200.

Laboratory Training Set
Model 117
X Band
$1900.

Coaxial and UHF Equipment

Description	DC 225 500 1000 2000 4000 6000 8000 10000 12400	Page
Attenuator Fixed, high power, 6, 10 db	Model 756-( ) DC-1500 mc Type N $40	18
Attenuator Fixed, 3, 6, 10, 20 db	Model 736-( ) DC-1500 mc Type BNC $19	18
Attenuator, Fixed 3, 6, 10, 20 db	Model 757-( ) 1,000-11,000 mc Type N $45	17
Attenuator Turret	DC-1500 mc, 12 Steps Models 705, 706, 707 BNC $275, 708 BNC $300 Models 705, 706, 707 TNC $290, 708 TNC $310	16
Detector, Bolometer Thermistor Mount	Model 560 20-1500 mc Type N $75	28
Detector, Bolometer Thermistor Mount	Model 561NF $00 Model 561CF $00 500-10,000 mc	29
Directional Coupler 10, 20, 30 db Type N	225-460 mc Model 3000-( ) 10 db $150 20, 30 db $175; 460-950 mc Model 3001-( ) 10 db $150 20, 30 db $175; 950-2000 mc Model 3002-( ) 10 db $150 20, 30 db $175; 2000-4000 mc Model 3003-( ) 10 db $150 20, 30 db $180; 4,000-10,000 mc Model 3004-( ) 10 db $300 20, 30 db $150	38 39
Echo Boxes	2350-5450 mc Model 833 $970; 5300-9450 mc Model 830 $1400	58
Filters Low Pass	fc 900 mc Model 3010-900 $40; fc 1800 mc Model 3010-1800 $40; fc 2100 mc Model 3010-2100 $40; fc 4200 mc Model 3010-4200 $40	43
Frequency Meter Type N	300-500 mc Model 804 $375; 500-1500 mc Model 805 $375; 1500-2400 mc Model 806 $375; 2300-10,500 mc Model 808B $385	41 42
Hybrid Junction Tee Coupler	Model 3031 450-950 mc $225; Model 3032 950-2000 mc $225; Model 3033 2000-4000 mc $225	37
Impedance Meter	520-4000 mc Models 230N, 230C, 230 ½, 230 ¼ $475 230-9C $825 Model 230-TNC $800 Model 230 LT $675	48
Impedance Meter	1500-12,400 mc Model 231N $300 Model 231C $390 Model 231TNC $475	49
Mixer	2600-3950 mc Model 562 $300; 3950-5850 mc Model 563 $300; 5300-8200 mc Model 564 $300; 7050-10,000 mc Model 565 $300	30
Mixer, Harmonic	3600-4[illegible] mc Model 524 $300	31
Power Meter	500-1500 mc Model 107 $1150	60
Probe, RF Tuneable	Model 220 900-18,000 mc $125	52
Termination	DC-3000 mc Model 370NF, 370NM $25	65
Termination	2000-12,400 mc Model 371CF, CW $50 Model 371NF, NM $00 Model 371TNCF, TNCW $100	66
Termination, High Power	700-12,400 mc Model 369CF, CW $270 Model 369NF, NM $220	68
Termination, Sliding	2600-12,400 mc Model 373CF, CW $190 Model 373NF, NM $140 Model 372TNCF, TNCM $300	67
Tuner, Double Stub	1,000-12,400 mc Model 903N $00 Model 903C $125 Model 903SC $150 Model 903TNC $150	71

Bolometers & Thermistors

The complete line of Bolometers (barretters) and Thermistors for all frequency ranges, including cylindrical (821), crystal (610), disc (603), and miniature (604) configurations.

For more information, consult the Narda sales representatives in these cities:

Albuquerque • Atlanta • Cedar Rapids • Chicago • Dallas • Dayton • Denver • Detroit • Kansas City • Mount Vernon • No. Hollywood • Orlando • Palo Alto • Pittsburgh • Seattle • St. Louis • Syracuse • Upper Darby • Waltham • Washington, D.C. • Westlake • Wichita • Arnprior • Montreal • Toronto

OVERSEAS: Amsterdam • Athens • Brussels • Copenhagen • Heidelberg • London • New Delhi • Oslo • Paris • Rome • Sydney • Stockholm • Tokyo • Vienna • Wellington, New Zealand • Zurich

Write for your free copy of Narda's new 1959 catalog. Address: Dept. IRE-8.

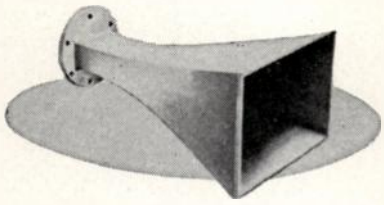


the narda microwave corporation

118-160 HERRICKS ROAD, MINEOLA, L. I., N. Y.

For details, circle #124 on Reader Service Card

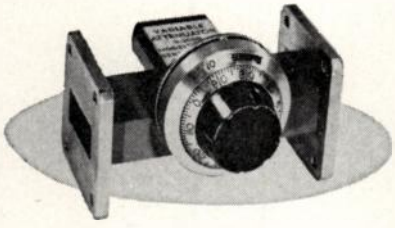
Narda-UHF and Microwave products from 200 to 90,000 Mc



STANDARD GAIN HORNS

Precision instruments, supplied with accurate calibrations covering a complete band width. Available from 1100 to 90,000 mc. Gain at mid-frequency is 16.5 db; variation is 1.5 db over complete band; calibration accuracy—0.3 db over complete band. Beam width — approximately .28 degrees.

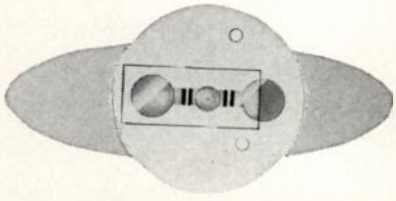
Avail. in 13 models, from $80 to $1180.



VARIABLE ATTENUATORS FIXED CALIBRATED PADS

Variable attenuators — 0 to 20 db range; VSWR under 1.15; all waveguide sizes.
Fixed calibrated pads available in all waveguide sizes with 3, 6, or 10 db calibration.

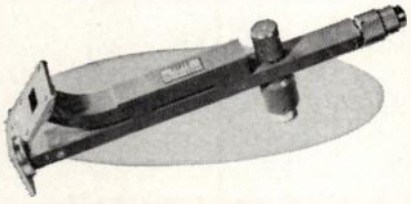
13 models, from $55 to $200.



DISC BOLOMETERS AND THERMISTORS

Coaxial bolometer elements available for 200-ohm operation at 4.5 or 8.75 ma bias. Thermistors with 200 ohms resistance at 13 ma. For power measurement and detection to 10 mw.

$25.00 each.



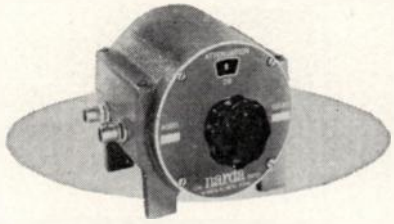
HARMONIC AND CRYSTAL MIXERS

Mixers serve as converters in coaxial lines and waveguides with microwave receivers and spectrum analyzers. NARDA Harmonic Mixers hold a silicon crystal element with provision for the injection of a standard frequency.

Priced from $425.



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TURRET ATTENUATORS

A UHF-only attenuator, representing considerable savings in costs for this application. Each model offers a Designer or Development Engineer twelve steps of attenuation from d.c. to 1,500 mc, with a VSWR of 1.25. Model 705 provides 0 to 30 db attenuations; model 706 — 0 to 20 db; model 707 — 0 to INF db.

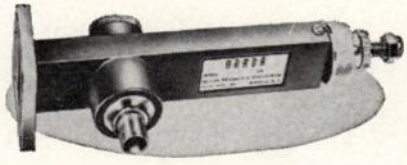
All models . . . $275 each.



COAXIAL ATTENUATORS

Double pi-section attenuators for high power rating and broad frequency characteristic. Available in 6 or 10 db values, dc to 1500 mc. VSWR equals 1.2. Frequency variation is ±1 db; calibration frequency equals 1000 mc; calibration accuracy equals ±0.2 db.

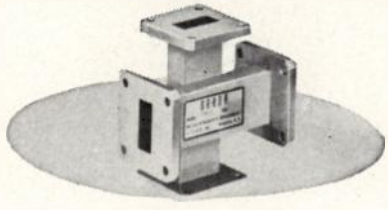
6, or 10 db Models . . . $40 each.



WAVEGUIDE DETECTORS

Designed for broad band operation with low VSWR and maximum versatility. May be used with a variety of crystal, bolometer (barretter) or thermistor elements, for absolute power measurement when used with appropriate bolometers and thermistors, as well as for detection of relative power levels. Also fixed tuned models.

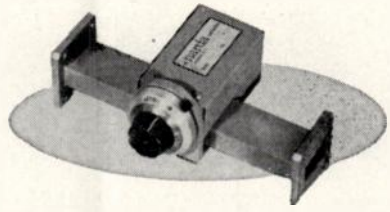
13 models available from $75 to $125.



CROSS GUIDE DIRECTIONAL COUPLERS

20 db couplers designed to provide uniform coupling over the entire waveguide frequency range with uniformly high directivity over 20 db. For increased usefulness and versatility, both primary and secondary arms have cover flanges on both ends. VSWR of any arm is under 1.05.

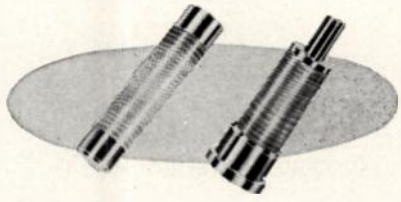
8 models from $48 to $90.



CALIBRATED VARIABLE ATTENUATORS

Precision attenuators of the parallel vane type, providing a maximum VSWR of 1.15; maximum insertion of 0.5 db; calibration accuracy — 0.3 db; calibration chart supplied. Calibration is precise and permanent, and not affected by humidity or temperature variations.

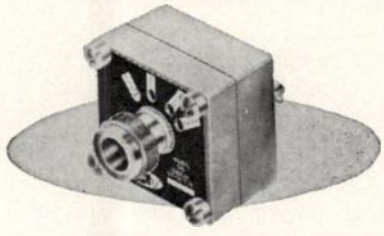
Seven models from $200 to $375.



BOLOMETERS AND THERMISTORS

Ruggedized construction; coin silver contacts. Barretter types available for 4.5 and 8.75 ma bias; 50, 100, 200, 400 ohm values. Thermistor types 100 or 200 ohm operation.

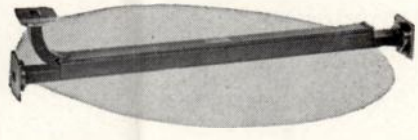
N821B & N610B, $10.00 each.



COAXIAL DETECTORS

Mounts for both bolometers and thermistors of the mica disc type, from 500 to 10,000 mc. Usable with any of the four types of bolometers and thermistors; a unique arrangement permits rapid change of elements and shows at a glance which type is in the detector, as well as its bias current requirements.

Model 561 (not including element) $50.



HIGH DIRECTIVITY COUPLERS

3, 6, 10, 20 and 40 db couplers, all with directivity exceeding 40 db. 40 db (high power) coupler may be used at full rated power of the waveguide size. Standard cover flanges terminate both ends of primary line; low VSWR termination and standard cover flange on secondary arm.

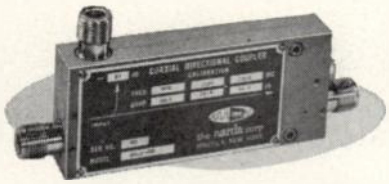
$95 to $400.

the narda microwave corporation

118-160 HERRICKS ROAD, MINEOLA, L. I., N. Y.

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Narda-UHF and Microwave products from 200 to 90,000 Mc



COAXIAL DIRECTIONAL COUPLERS

Only Narda offers coaxial directional couplers in 10 and 30 db values, as well as 20 db. Flat coupling — values within 1 db of nominal over full octave frequency range. Calibration provided to ±0.2 db accuracy. Directivity exceeding 20 db. May also be used at lower frequencies than specified. 225 to 10,000 mc.

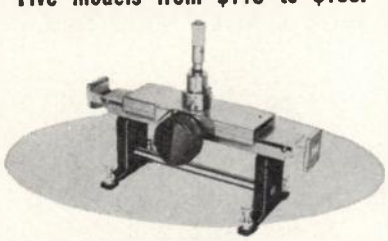
Five models, from $100.



WAVEGUIDE FREQUENCY METERS

Each consists of a section of waveguide with a resonant cavity attached symmetrically to the broad wall. Coupling is through an inductive iris, designed so unit is electrically equivalent to a straight section of waveguide. Power dip is at least 10% over the frequency range; accuracy equals 0.08%.

Five models from $110 to $150.



HIGH POWER IMPEDANCE METERS and VARIABLE REACTANCES

Meters have fixed value output coupling of 45 db, nominal. Reactances can vary magnitude of standing wave ratio from 1.02 to 2.0. Phase of standing wave is separately variable. Maximum residual VSWR: 1.02. (1.03 for 12.4-18.0 kmc Meter)

Meters: $1375 to $2175
Reactances: $1975 to $2775



RADAR PERFORMANCE CHECKER (Transistorized)

Used with an echo box, for rapid pre-flight or production line measurement of over-all radar performance. Completely portable; no power source needed. Accuracy: 2 db. Resolution: 2 db. Range: +3 db to −12 db on panel dial.

Model 116T . . . $485.



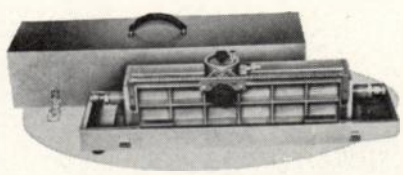
Write for your free copy of Narda's new 1959 catalog. Address: Dept. IRE-8



S to X BAND FREQUENCY METER

The only single instrument covering 2,350 to 10,500 mc., and less expensive than any combination covering same frequencies. Completely self-contained; built-in detector and indicating meter; nomograph type calibration chart converts digital counter readings to frequency in mc., to rated accuracy of 0.2%.

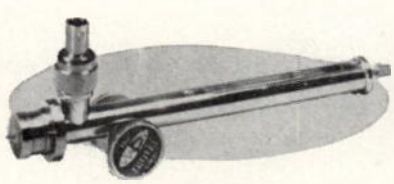
Model 802B . . . $785.



COAXIAL SLOTTED LINES

Parallel plane transmission line provides increased accuracy and ruggedness and minimizes the effects of leakage and variations in probe depth. Matched, compensated connectors permit load connection to either end. Available in type N, 5/8, 7/8, and type C connectors.

Four models . . . $475 each.



RF PROBE

A precision tuneable RF Probe with optional detector (included). Fine wire probe is adjustable in depth over a wide range by a fine-pitch threaded knob. Probe pickup may be tuned over the range of 900 to 18,000 mc. Insertion loss: 25 db or less in most slotted lines.

Model 229 . . . $125.



ECHO BOXES

C Band and X Band Echo Boxes with high Q resonant cavities used for rapid testing and evaluation of radars. Frequency indication is direct reading in megacycles; resonance indicator is panel microammeter. Complete with carrying case.

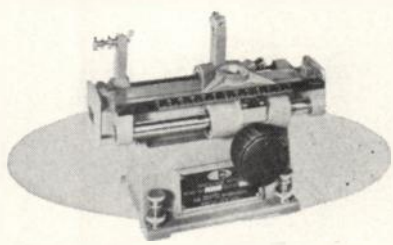
C Band (Loaded Q: 50,000) . . . $ 970
X Band (Loaded Q: 90,000) . . . $1500



UHF FREQUENCY METER DETECTORS

The only direct reading frequency meter detectors available for the UHF range. Absorption type meters, with 0.2 db insertion loss, each includes resonant cavity, coaxial switch, crystal detector, current meter, sensitivity control, and type N input and output terminals. 200-500 mc; 500-1500 mc., 1500-2400 mc.

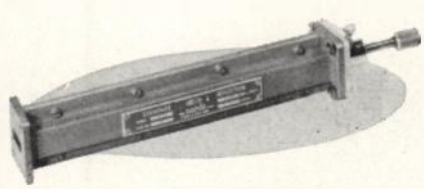
Three models . . . $375 each.



IMPEDANCE METERS

Carriage mounting and drive mechanism are integral with the transmission line casting, for permanent accuracy and freedom from slope errors. Angle-mounted, scale and vernier. Removable supporting stand. Coverage from 2600 to 90,000 mc; coaxial models, from 1500 to 90,000 mc—all accurate for VSWR's of 1.01.

13 models from $250 to $425.



STANDARD REFLECTIONS

Narda offers five values of reflections for each of six different waveguide sizes. Provides calibrated reflections or VSWRs for use in standardizing reflectometers or calibrating slotted line impedance meters. Five values of reflection coefficient in each waveguide size.

Six models from $125 to $300.



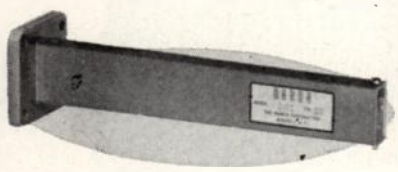
WAVE AND POWER METER SET

Portable, self-contained equipment for measuring power and frequency from 500 to 1500 mc. at power levels of 0.5 mw to 2 watts average (−3 dbm to +33 dbm). Fixed 10 db attenuator extends the power range of the step attenuator. Direct reading frequency measurement ±3 mc absolute. 50 ohm input.

Model 107 . . . $1150.

the narda microwave corporation
118-160 HERRICKS ROAD, MINEOLA, L. I., N. Y.

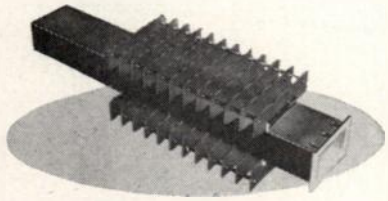
Narda-UHF and Microwave products from 200 to 90,000 Mc



WAVEGUIDE TERMINATIONS

Narda Waveguide Terminations provide an exceptionally low VSWR (less than 1.02) over the entire frequency range of the waveguide. Power is in excess of 1 kw peak, 1 watt average. Standard cover flange input.

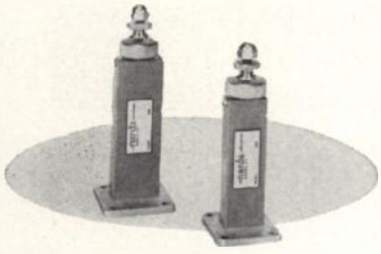
13 models from $20 to $45.



HI POWER TERMINATIONS

An improved type capable of handling extremely high power without deteriorating under high temperatures. Designed for operation over the entire waveguide band with average VSWR approx. 1.05. Heat dissipating fins at regions where most power is absorbed.

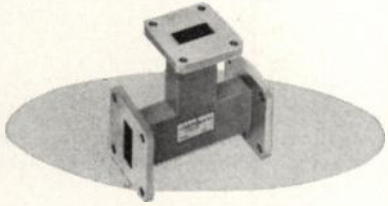
Seven models . . . $125 to $700.



ADJUSTABLE WAVEGUIDE SHORTS

Tuneable shorts of the trap or non-contacting type for minimum r-f loss for use in many tuning and measurement applications. Tuned by a knurled lead screw with locking nut, except for model covering 12.4 to 18.0 kmc, which uses micrometer drive. Models to cover bands from 2.60 to 90.0 kmc.

13 models from $40 to $90.



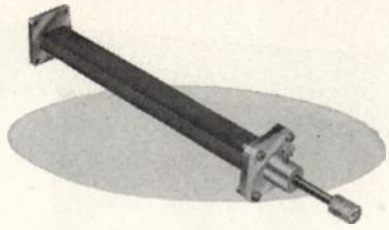
TEE SECTIONS

Waveguide tee sections for making connections in microwave circuits corresponding to series and shunt connections at lower frequencies. Very tight tolerances permit use as a power divider. Branches are terminated with standard cover flanges.

Thirty models from $35 to $275.



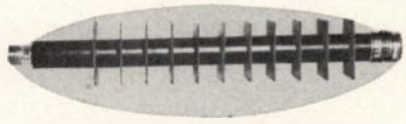
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SLIDING TERMINATIONS

The most convenient means for evaluating the residual VSWR of slotted lines. VSWR of the element is 1.01 or less, from 1100 to 90,000 mc. The sliding feature makes these terminations particularly suitable for evaluating residual VSWR of impedance meters.

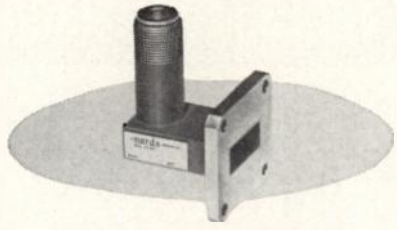
13 models from $60 to $90.



COAXIAL HI POWER TERMINATIONS

Useful over the complete frequency range from 700 to 12,400 mc, with a VSWR of 1.20 or less and under 1.1 from 1000 to 9000 mc. Designed for power levels up to 200 watts average and 50,000 watts peak. Efficient heat-dissipating fins permit withstanding temperatures in excess of 500° F.

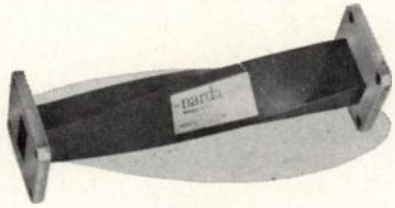
Model 369, NF & NM . . . $250
Model 369, CF & CM . . . $270



ADAPTERS

These adapters provide a low VSWR, lossless transition from rectangular waveguide to type N coaxial line. Broadband design provides bilateral VSWR below 1.25 over the complete waveguide frequency range. Small but rugged, for both laboratory and field use.

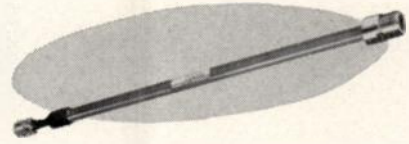
Seven models from $25 to $175.



TWISTS

Narda waveguide twists provide a smooth 90 degree twist in waveguide orientation. Standard models use brass waveguide and two flanges equivalent to standard cover flanges. Other flange combinations, waveguides and lengths, available on special order.

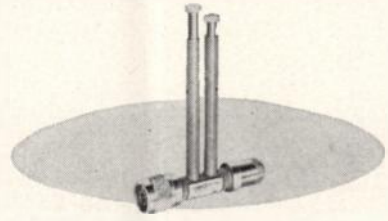
13 models from $40 to $175.



COAXIAL TERMINATIONS

Narda Coaxial fixed and sliding Terminations are the first and only to cover the entire frequency range S to X band; provide accurate reference for coaxial component VSWR measurements. VSWR of the terminations is 1.05 or less. Travel of sliding termination is in excess of half wavelength at lowest frequency.

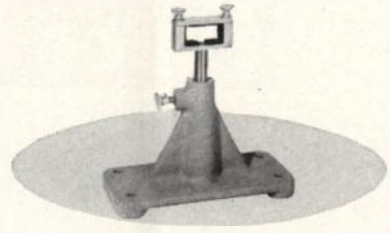
Fixed: $55 to $58 Sliding: $110 to $116



E-H & DOUBLE STUB TUNERS

Waveguide and coaxial tuners provide a variable susceptance over a wide range to tune transmission lines for maximum power transformer.

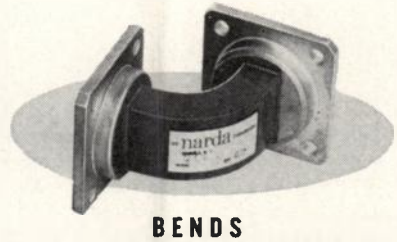
Coaxial double-stub tuner . . . $90
Waveguide E-H tuners from $130 to $225



STANDS AND CLAMPS

Heavy cast iron Model 3 stands for use with Model 2 Series Clamps. Rectangular base for stability and closer spacing when required. Knurled screw provided for height adjustment. Clamps are felt lined to provide secure clamping action without marring surfaces or finishes.

$3.50 to $5.50.



BENDS

Narda E — and H — Plane waveguide bends for use where a 90 degree angle is required with negligible reflection of the microwave signal. VSWR equals 1.05 maximum. Standard cover type flanges. Special flanges, materials and dimensions available on special order.

13 models from $25 to $100.

the narda microwave corporation

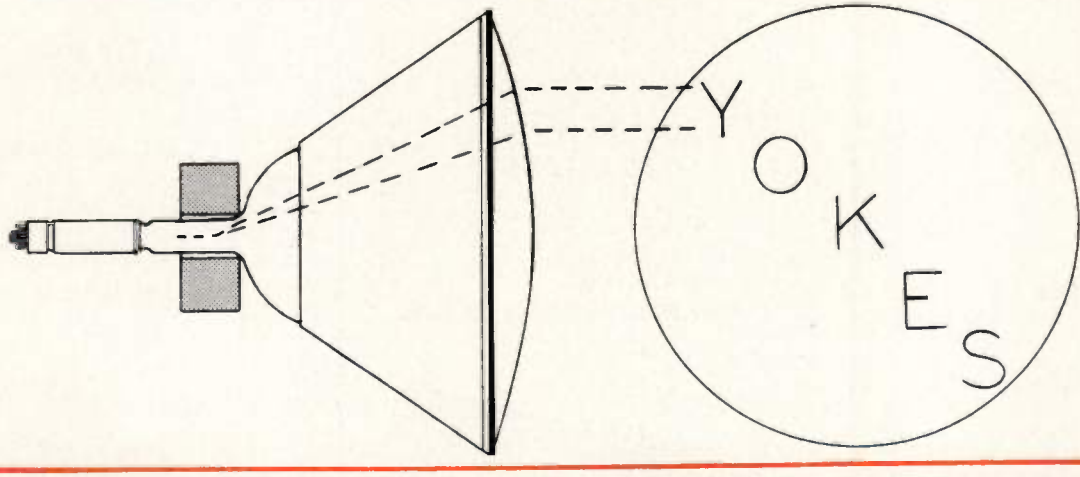
118-160 HERRICKS ROAD, MINEOLA, L. I., N. Y.

....LEADING SPECIALISTS

Celco

YEARS AHEAD IN

Celco YOKES FOR CHARACTER DISPLAYS



Deflection yokes for difficult character display problems are another achievement in advanced design and engineering at Celco.

Celco Deflection Yokes permit the rapid presentation of random character and alpha numeric displays. Low hystersis, high accuracy and fast recovery time with emphasis on the degredation of current near zero make possible magnetic deflection in character displays.

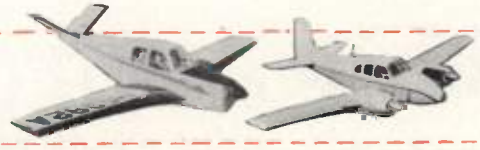
Celco High Sensitivity Yokes minimize the deflecting currents required from the deflection drivers, resulting in high efficiency for your system.

The construction of our yokes makes it possible to achieve **sensitivities, linearities, responses and distortion-free deflecting fields** not possible with the usual types of yoke.

For critical applications, many of our customers have saved years of trial and error in YOKE selection by specifying CELCO YOKES.

Write for CELCO DEFLECTION YOKE Catalogue & Design Sheets or for assistance Call your nearest CELCO Plant listed below.

For details, circle #128 on Reader Service Card



Your plant is only hours away by the **Celco** Air Fleet

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Main Plant: MAHWAH, N. J. DAvis 7-1123

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IN PRECISION DISPLAYS

YOKES

DESIGN PERFORMANCE!

Celco FOR STANDARD, COMMERCIAL & MILITARY APPLICATIONS

Single units or production quantities immediately available in wide range of inductance–resistance–Recovery time–pin cushion corrected or optimum focus as required. Also available 2-1/8" and 2-1/2" neck CRT yokes.

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TYPE BY
Transistorized encapsulated yokes for 70° 7/8" neck CRT and 1" neck image storage tubes.



TYPE AY
Push-pull or single ended yokes for 52°, 70° and 90° deflections for 1-7/16" neck CRT.



TYPE RY
Rotating deflection yokes for PPI displays. Gears, bearings, slip rings and contact assembly included.



TYPE CF
Electromagnetic focusing coil for 7/8", 1" and 1-7/16" neck CRT.



TYPE MY
Miniature light weight deflection yoke coils or assemblies for incorporation into customer housings.

Celco ENGINEERED YOKES FOR PRECISION DISPLAYS



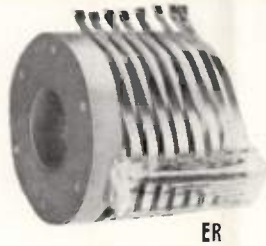
DP
Dual purpose yoke custom designed. Deflection system plus axial off-centering coils.



HS
Special high sensitivity deflection yoke with critical damping provisions.



PI
Plug in type encapsulated deflection yoke for rapid insertion.



ER
Encapsulated rotating, 4 axis slip ring precision deflection yoke.



MS
Miniature deflection yoke for rotating or fixed coil radar system.

For engineering information on your special display problems call your nearest Celco Plant.

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Constantine Engineering Laboratories Company

Main Plant: MAHWAH, N. J. DAvis 7-1123

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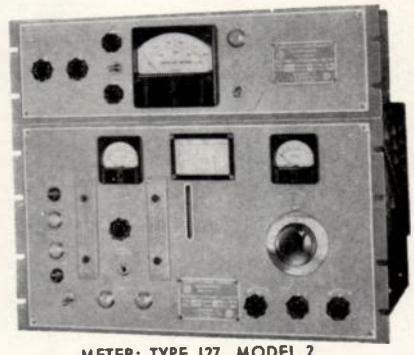
Northern Radio FREQUENCY SHIFT TERMINAL EQUIPMENT

FREQUENCY and SHIFT MONITOR SYSTEM

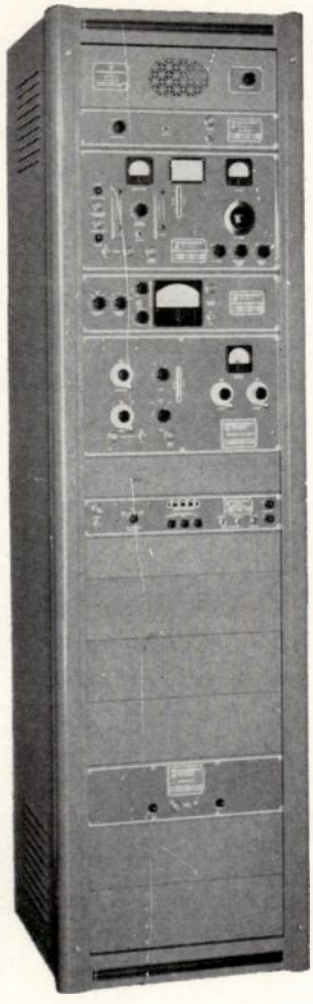
This system consists of a Type 106 Frequency and Shift Monitor and a Type 127 Frequency Meter. It is designed as a secondary standard to monitor the frequency and amount of shift of transmitter carrier output. It is particularly intended to measure the frequency shift of a mark and space (FS) signal either when setting up for traffic or under normal keying conditions.

The Monitor's stability is better than 2 cycles per megacycle over an ambient temperature range of 0-50° C—using crystals having a temperature coefficient of only 3 parts/million/degree C. Range is 2.5-30 mc with 10 crystal-controlled frequencies (separate panel trimmers for each); use of external oscillator also provided for. Frequency Shift range is 10-10,000 cps. Less than 100 millivolts RF input needed for 2 volts audio output.

The Frequency Meter is specially designed with selectable normal and fast-acting damping factors, permitting frequency measurements of signals while keying. Its accuracy is 2% of full scale for the ranges 0-200, 500, 2000, 5000, 20,000 cps.



METER: TYPE 127, MODEL 2
MONITOR: TYPE 106, MODEL 4



TYPICAL TRANSMITTER TERMINAL for TWINPLEX OPERATION



TYPE 105, MODEL 6

FREQUENCY SHIFT KEYER

Supersedes and replaces its leader predecessor, Type 105 Model 4.

- Highest stability achieved by any FS Keyer.
- Increased frequency range 1.0 to 7.0 mc.
- Pre-selection of proper FS for any particular transmitter frequency multiplication.
- Permits use with external oscillator without need of adapters.
- Improved accessibility for even easier maintenance.
- Direct-reading frequency calibration of shift from 0 to 1000 cps.
- FS dial adjusts "Mark" and "Space" frequencies equally above and below the carrier position.
- Direct-reading frequency calibration of mixer and output tuning dials from 1.0 to 7.0 mc.
- Direct reading calibration of output frequency vernier±600 cps.
- Pulse-shaping circuit permits operation within assigned band-width with no adjacent channel radiation.
- Linear carrier shift up to 1400 cps for Fax operations.



TWINPLEX COMBINER TYPE 177 MODEL 1

For twinplex operation, the transmitting terminal includes a Twinplex Combiner Type 177 Model 1.

The Twinplex communication system makes possible a 2-channel radio circuit whereby 2 non-synchronous or synchronous telegraph transmissions modulate a single radio carrier wave causing the carrier to assume one of four specific frequencies with 400 cps separations.

The Combiner converts the four possible conditions of two telegraph signals (M1-M2, M1-S2, S1-M2, S1-S2) respectively into one of four voltages related in a 0-1-2-3 manner. The Combiner output voltage modulates the Frequency Shift Keyer.

The two telegraph channels provide the same operational flexibility as that of two separate single channel FS systems. One can, for example, simultaneously use channel #1 on 60 wpm teletype and channel #2 on high-speed Morse or Time-Division Multiplex.

TECHNICAL DATA:

Keying Inputs: 1. Contacts; 2. DC current pulses, positive, negative, or polar; 3. DC voltage pulses, positive, negative, or polar.
Input Level: 1. DC Voltages: ±10 volts minimum; 2. DC Current: ma. minimum.
Keying Speed: 240 words per minute maximum.
Output Impedance: 10,000 ohms.
Keying Input Impedance: 1. DC Voltage: 100,000 ohms. 2. DC Current: 220 ohms.
Output Level: Neutral: 0 to 25 volts; Polar: +6 to −6 volts.
Output Voltage Conditions: Four output voltages are to be proportioned as follows assuming linear F.S. Keyer characteristic.
Input: M_1 M_2, M_1 S_2, S_1 M_2, S_1 S_2; Output 0, 1, 2, 3.
Individual level adjustments provided.
Power Requirements: 110/220 volts, 50/60 cycles. Approximately 50 watts. Connections at rear of chassis.
Dimensions: 3½" High x 19" Wide x 10" Deep.

For details, circle #130 on Reader Service Card

VARIABLE MASTER OSCILLATOR
TYPE 173 MODEL 1



The Northern Radio Company Variable Master Oscillator provides a continuously variable source of radio frequency energy with a stability of approximately 1 cycle per megacycle in the range of 2 to 4 megacycles. It may be used as the basic control oscillator for diversity receivers, high frequency transmitters and other communications devices, or as a laboratory standard for test and measurement functions.

Its ease of operation and direct reading of frequency make it an outstandingly useful device where precise frequency control must be maintained by completely unskilled personnel. No curves, interpolations or calculations of any kind are required in its use. Frequency is set approximately to the desired value by rotating the oscillator dial. The last three digits of the frequency automatically pulls in to the valve pre-set on the switches and holds with an accuracy that exceeds that of most temperature-controlled crystal oscillators.

HIGH FREQUENCY OSCILLATOR

Output Frequency: 2-4 MC continuously variable.

Stability for any combination of temperature range from 0 to 50° C, and line voltage of 115 to 230 ± 10%: Approximately 1 cycle per megacycle.

Output level: ½ watt into 75 ohm load. Lever control on rear of chassis.

Readability: ± 2.5 cycles per second. Direct digital readout on mechanical and electronic counters.

Resettability: Absolute.

BEAT FREQUENCY OSCILLATOR

Output Frequency: 400-800 KC crystal controlled.
Output Level: 3.5 volts into 1000 ohm load. Level control on rear of chassis.

TIME BASE CRYSTAL OSCILLATOR

Output frequency 100 KC
Stability for 0 to 50° C and ± 10% Line Voltage change: 0.2 part per million for any 12 hour period; 1.0 part per million for thirty days.

Output Level: Approximately 2 volts.

Output Impedance: Approximately 100,000 ohms.

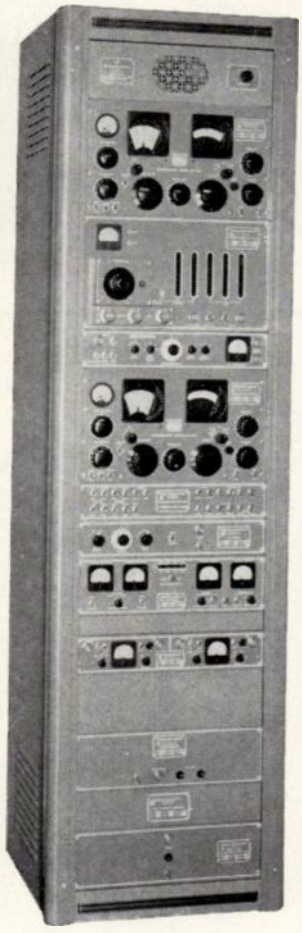


TWINPLEX CONVERTER
TYPE 178 MODEL 1

This Twinplex communication system makes possible a 2-channel radio circuit whereby 2 non-synchronous or synchronous telegraph transmissions modulate a single radio carrier wave by causing the carrier to assume one of four specific frequencies with 400 cps separations.

The receiving equipment consists of the Twinplex Converter Type 178 Model 1 and a single or diversity receiver such as the Northern Radio Type 110 Dual Diversity Receiving System. The Converter demodulates and separates the four audio tones from the radio receiver(s) into two channels each carrying the originally transmitted intelligence. The Twinplex Converter replaces the standard FS Converter for this purpose.

The two telegraph channels provide the same operational flexibility as that of two separate single channel FS systems. One can, for example, simultaneously use channel #1 or 60 wpm teletype and channel #2 on high-speed Morse or Time-Division Multiplex. It further permits the reception of channel #1 signals on all standard FS converters (tunable to 400 cps shift) without need for a Twinplex Converter: this is valuable for "Forked Circuit Operation" where the intelligence of channel #1 is intended for pick-up by other receiving stations which are not equipped for Twinplex Reception in addition to the main receiving stations which are so equipped. Reception of channel #2 (or of both channels) requires the receiving end to be equipped with a Twinplex Converter.



TYPICAL RECEIVER TERMINAL for TWINPLEX OPERATION



VARIABLE MASTER OSCILLATOR
TYPE 115, MODEL 1

The Variable Master Oscillator Type 173 (above) may be replaced by this Variable Master Oscillator Type 115 Model 1 which is designed principally for use in diversity reception to supply variable or crystal HFO voltage to the receivers. Its variable frequency has a stability equivalent to that obtained by non-temperature-controlled crystal oscillators. It also provides 3 HFO crystals for operation of diversity receivers where fixed frequencies are required, and 2 BFO crystals.



FREQUENCY SHIFT DIVERSITY CONVERTER
TYPE 174, MODEL 1

For use with either single-receiver frequency diversity systems or 2-receiver space diversity systems. By means of plug-in units, any reasonable number of channels is available between the frequencies of 425 and 3315 cps for either frequency or space diversity operation. For standard FS operation, the plug-in networks provide shift adjustments from 100 to 1000 cps shift.

Normal Input Level: −40 to +10 VU (Zero VU = 1MW into 600 ohms). (Satisfactory operation on fades to −60 VU.)
Limiter Recovery Time: Negligible for a 40 VU differential between Mark and Space frequencies.
Output: 65 ma into 2000 ohms floating (self-contained line battery).
Keying Speed: Maximum of 40 dot cycles with narrow band frequencies diversity. Up to 400 dot cycles with the wide band networks.
Monitor: 2-inch Cathode Ray tube
Input phone jack
2 input volume level indicators
1 output current indicator

Pace-Setters in Quality Communication Equipment

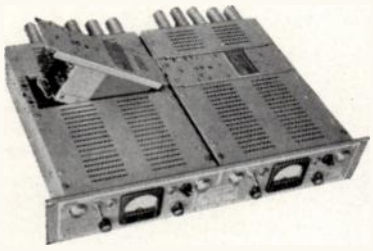
NORTHERN RADIO COMPANY, inc.

147 WEST 22nd ST., NEW YORK 11, NEW YORK

In Canada: Northern Radio Mfg. Co., Ltd., 1950 Bank St., Billings Bridge, Ottawa, Ontario.

MULTI-CHANNEL FREQUENCY SHIFT TONE TELEGRAPH SYSTEMS

These Multi-Channel Telegraph Systems are audio carrier systems capable of multiplexing such circuits as telephone lines, VHF, UHF, or radio frequency links—or practically any type circuit from which a two-wire audio circuit can be derived. Designed to meet any speed requirements, these systems are fully electronic, without relays or moving parts to wear. They can be used for high-speed printer, Morse or time division Multiplex Circuits, as well as such application as Telemetering, Control Circuits and Servo-Mechanisms. Instantaneous and complete sending and channel control permits any binary code groups, either "Clear Text" or "Crytographic," to be channelized without need for additional phasing or synchronizing equipment, while paralleling of channels will allow for transmission of other type codes, such as 3 element cable code. The completely independent operation of each channel, including its own power supply, localizes faults to one channel only, leaving other channels unaffected. Individual channel separation filters are used at both transmitting and receiving ends. This arrangement allows for sending telegraph or control signals over a circuit carrying, simultaneously, other forms of intelligence: or for two-way communications on the same line. The audio frequency shift principle of transmission provides for high fidelity of signal reproduction over a wide range of signal levels as well as under severe noise or interference conditions. Circuit requirements of any speed, shift and center frequency can readily be met. The systems illustrated are for use on printer circuits up to 100 WPM channel capacity. The system arrangement is very flexible, permitting grouping of the basic units into various arrangements of Multiplex Systems. These systems can be made to accommodate a large variety of channel numbers and speeds to meet any individual requirements. The flexibility is further improved by the fact that the racks, power control units, and terminal connection panels are the same for both transmitting and receiving terminals.

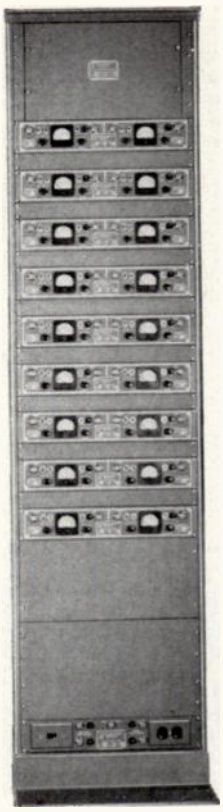


DUAL FS TONE KEYER; TYPE 153 MODEL 3:

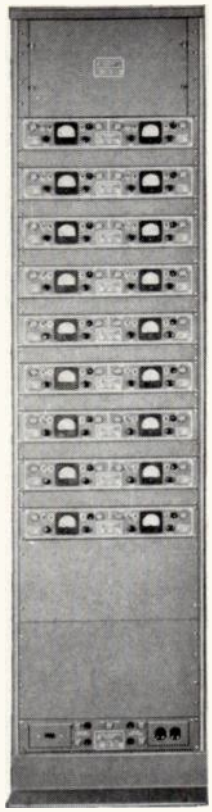
Keying Input. . . . Relay contacts, ± DC current or voltage pulses, neutral or polar.

Input Level. . . . DC voltage: ± 10 volts min. DC current: 45 ma min., ± or polar. Relay: contact rating 5 ma min.

Keying input Z. . . . DC voltage: 100K ohms. DC current: 220 ohms.



TRANSMITTER



RECEIVER



DUAL FS TONE CONVERTER: TYPE 152 MODEL 3:

Input Z: 600 ohms, unbalanced.

Input Level: −40 dbm to 0 dbm.

Input Frequencies: 18 channels, 425-3315 cps, 170 cycle spacing.

Keying Speed: 45 dot cycles.

DUPLEX TELEGRAPH SYSTEM FOR MULTI-CHANNEL TONE EQUIPMENT

SEVEN NEW FEATURES in this system—simple 4-position switch selects from 12 possible duplex combinations; duplex operation between stations connected via carrier telegraph channels; *all-electronic,* without relays or moving parts; polar or neutral for either half duplex or full duplex; break-in now also possible for all *half*-duplex circuits; provided with positive feature to prevent space signal lock-out; includes individual line battery for each channel.

The Northern Radio Duplex Telegraph System consists of one each Dual Frequency Shift Tone Keyer, Type 153 Model 3; Dual Duplex Selector Panel, Type 200 Model 1; Dual Loop switch Panel, Type 200A Model 1; and Dual Frequency Shift Tone Converter, Type 152 Model 3.



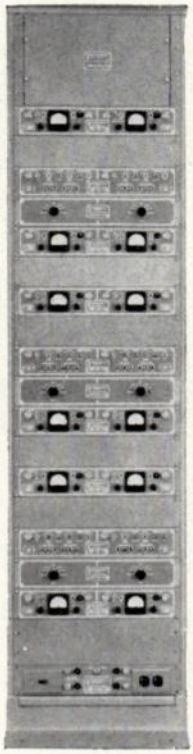
DUAL DUPLEX SELECTOR PANEL Type 200 Model 1

The Dual Selector Panel provides 12 loop options, patching facilities for monitoring purposes and channel routing, including the possibility of patching-in another teleprinter loop circuit (T-junction). Any of the 12 loop options are available and may be selected for the Dual Loop Switch Panel by simple strapping arrangement. It has an individual line battery for each channel for greatest circuit flexibility. Battery and line fuses are also provided for maximum protection.



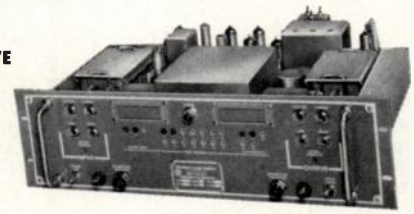
DUAL LOOP SWITCH PANEL Type 200A Model 1

The Dual Loop Switch Panel rapidly selects half-duplex and/or full duplex mode of operation for any of the 4 standard loop options by front panel switching available from the 12 loop options in the Dual Duplex Selector Panel.



NEW! REGENERATIVE REPEATER

TYPE 207 MODEL 1



This new Regenerative Repeater—the most advanced in the industry—is designed for use in telecommunication circuits to re-shape and re-time distorted signals for local use or retransmission. Special provision has also been made for its use on half duplex where it will not only regenerate the ordinary teleprinter signals but also faithfully reproduce such special signals as "break" signals and "mark restoration" information. *Outstanding features include:* . . . maximum acceptable signal distortion; new circuitry accepts up to 47% mark or space distortion; "floating" input & output circuits; completely electronic output, no relays; greater timing circuit stability; time base derived from highly stabilized L-C oscillator; adaptable to any speed; low-pass filter & frequency-determining elements are plug-in units; completely self-contained: includes power supply & line battery.

TECHNICAL DATA:

Input Keying Signal Requirements: (1) Neutral keying, positive or negative sense, (a) on-off 60 ma pulses, (b) on-off voltage pulses 10-100V into 100K ohms, (2) Polar keying, (3) Dry contact keying.

Frequency Stability of Time Base Generator: Less than 1 point range loss for ± 10% line voltage variation or ± 20° C ambient change from 25° C.

Sampling Time: Approximately 50 microseconds.

Output: Electronic tube outputs: (a) neutral 65 ma. max. into 2K ohms, (b) polar 33 ma (max.) into 2K ohms.

Power Requirement: 125 watts approx.: 110/220V, 50/60 cps.

Mounting: Standard 19" rack mounting, 5¼" panel.

Pace-Setters in Quality Communication Equipment

NORTHERN RADIO CO. inc.

147 W. 22nd ST., NEW YORK 11, N. Y.

In Canada: Northern Radio Mfg. Co. Ltd., 1950 Bank St., Billings Bridge, Ottawa, Ontario

The FIRST and ONLY standard line of tunable Microwave Filters

S BAND FILTERS

Characteristics	Two (2) Section Resonator	Three (3) Section Resonator	Four (4) Section Resonator
Model No.	27-BW	27-CW	27-DW
Type of Resonator	TE_{101} mode rectangular	TE_{101} mode rectangular	TE_{101} mode rectangular
Tuning Range	2700-3150 MCS	2700-2950 MCS	2700-2900 MCS
3 db Bandwidth	4.5-6.5 MCS	4.5-5.5 MCS	4.5-5.5 MCS
Max 30 db Bandwidth	36 MCS	18 MCS	13 MCS
Max Insertion Loss	.9 db	1.3 db	1.8 db
Price	$400.00	$535.00	$670.00
Model No.	27-BC	27-CC	27-DC
Type of Resonant Cavity	λ/4 coax	λ/4 coax	λ/4 coax
Tuning Range	2700-3200 MCS	2700-3100 MCS	2700-2950 MCS
3 db Bandwidth	8-11 MCS	8-10 MCS	8-9 MCS
Max 30 db Bandwidth	60 MCS	32MCS	21 MCS
Max Insertion Loss	1.6 db	2.4 db	3.2 db
Price	$350.00	$475.00	$600.00

C BAND FILTERS

Characteristics	Two (2) Section Resonator	Three (3) Section Resonator	Four (4) Section Resonator
Model No.	54-BC	54-CC	54-DC
Type of Resonator	λ/4 coax	λ/4 coax	λ/4 coax
Tuning Range	5400-5950 MCS	5400-5950 MCS	5400-5750 MCS
3 db Bandwidth	8-11 MCS	8-10 MCS	8-9 MCS
Max 30 db Bandwidth	60 MCS	32 MCS	21 MCS
Max Insertion Loss	2 db	3 db	4 db
Price	$360.00	$485.00	$610.00

L BAND FILTERS

Characteristics	Two (2) Section Resonator	Three (3) Section Resonator	Four (4) Section Resonator
Model No.	96-BC	96-CC	96-DC
Type of Resonant Cavity	λ/4 coax	λ/4 coax	λ/4 coax
Tuning Range	960-1150 MCS	960-1100MCS	960-1050 MCS
3 db Bandwidth	8-11 MCS	8-10 MCS	8-9 MCS
Max 30 db Bandwidth	60 MCS	32 MCS	21 MCS
Max Insertion Loss	1.2 db	1.8 db	2.5 db
Price	$370.00	$495.00	$620.00

X BAND FILTERS

Characteristics	Two (2) Section Resonator	Three (3) Section Resonator	Four (4) Section Resonator
Model No.	75-BW	75-CW	75-DW
Type of Resonant Cavity	TE_{111} mode cylindrical	TE_{111} mode cylindrical	TE_{111} mode cylindrical
Tuning Range	7500-8500 MCS	7500-8250 MCS	7500-8000 MCS
3 db Bandwidth	8-11 MCS	8-10 MCS	8-9 MCS
Max 30 db Bandwidth	60 MCS	32 MCS	21 MCS
Max Insertion Loss	1.5 db	2.5 db	3.5 db
Price	$475.00	$625.00	$775.00
Model No.	85-BW	85-CW	85-DW
Type of Resonant Cavity	TE_{111} mode cylindrical	TE_{111} mode cylindrical	TE_{111} mode cylindrical
Tuning Range	8500-9600 MCS	8500-9300 MCS	8500-9000 MCS
3 db Bandwidth	8-11 MCS	8-10 MCS	8-9 MCS
Max 30 db Bandwidth	60 MCS	32 MCS	21 MCS
Max Insertion Loss	1.5 db	2.5 db	3.5 db
Price	$475.00	$625.00	$775.00

All of the above filters have Max VSWR of 1.5, and either a single shaft or counter dial for Tuning Control. Depending upon mode of operation, units are supplied with either Type N Connectors or Waveguide flanges.

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TYPES:

Ultra-Sensitive: 25 Microwatt Sensitivity. 2 Amp Rating.

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Frequency Sensitive: 360 CPS cut off. 2 Amp Rating.

Magnetic Switching: (No Contacts) Pulsers Flashers

TINYMAX 400 CPS TRANSFORMERS

Up to 30% lighter and smaller than conventional types.

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Available in many standard ratings. 3 ϕ and 3 ϕ to 2 ϕ also available. Designed to meet military specifications.

V.A.	WT.	O.D.	HEIGHT
1.5	3/4 oz.	1"	7/16"
3.0	1 oz.	1"	9/16"
6.0	1 1/2 oz.	1"	13/16"
9.0	2 oz.	1"	1 1/16"
16.0	4 oz.	1 3/8"	1 1/8"
25.0	5 oz.	1 3/8"	1 3/8"

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WINDING RANGE:

Wire Size: #7 thru #46
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Outs. Dia. 9 1/2" - 1/2"
Height: 6" - 1/4"

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Complete Magnetic Amplifiers designed and developed to customer specifications. Applications include: Temperature Control - Voltage Regulation - Synchro Amplifiers - Valve, Clutch, or Solenoid Control - Magnetic Switching.

FEATURES:

Input powers as low as 10^{-10} can be reliably recognized. Gains up to 10^{6} per stage. Response as low as one cycle. Output ratings to 25 KW.

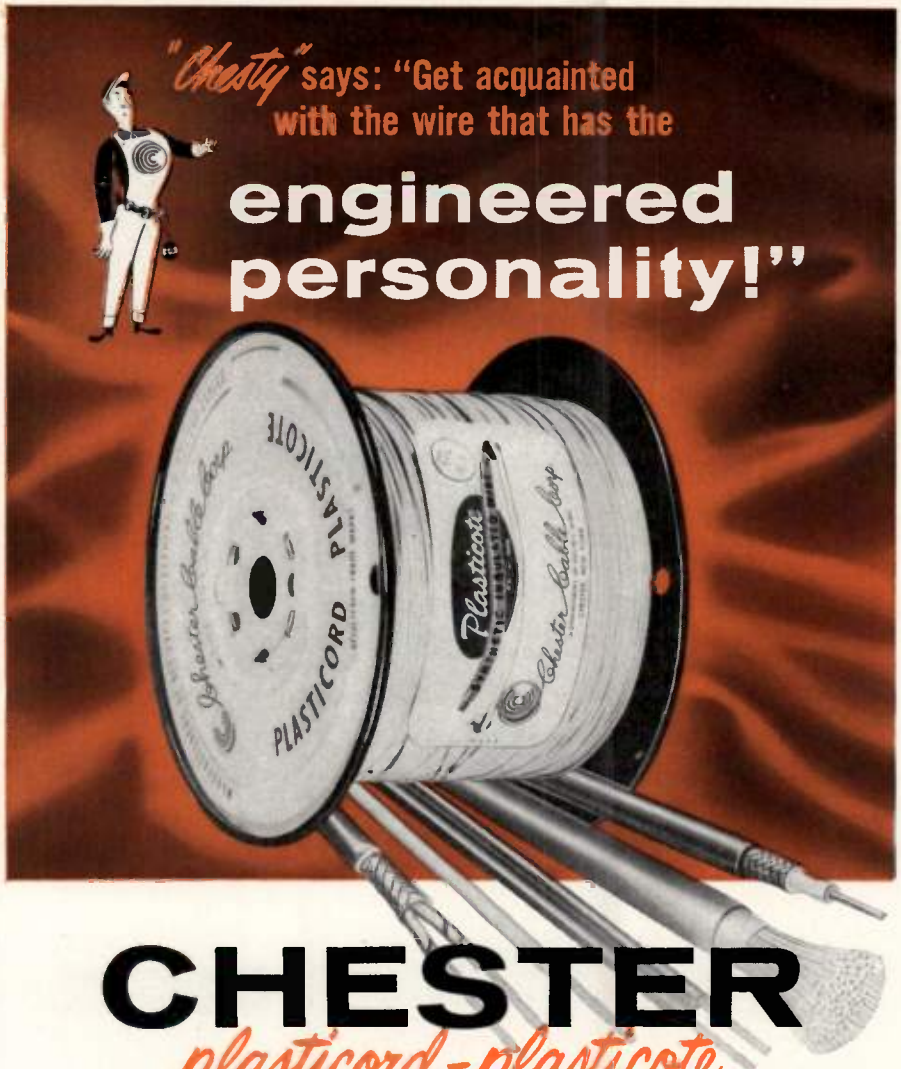
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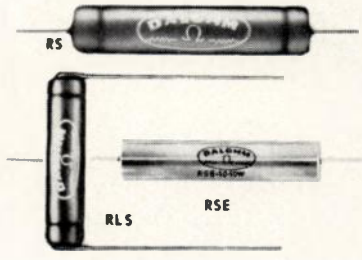
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Carefully designed, precision made to meet all space problems and for all applications where equipment must meet the most severe environmental, shock, vibration, and humidity conditions. Smallest in size; completely coated with special silicone material; welded from terminal to terminal; impervious to moisture, salt spray, vapor gases.

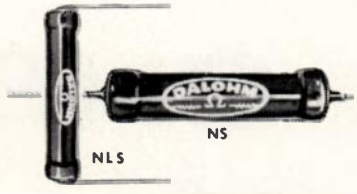
TYPES RS, RLS, RSE

Six wattage ranges 1, 2, 3, 5, 7 and 10; eight sizes; resistance range from .05 ohm to 175K ohms, depending on type; tolerance range .05% to 3%. Type RS with axial leads; Type RLS with radial leads; Type RSE housed in metal tubing for extreme reliability from severe shock and vibration.



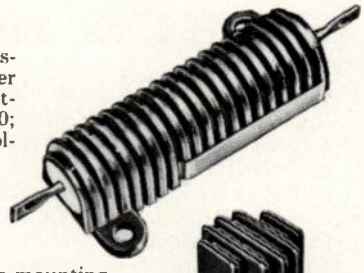
TYPES NS, NLS

NON-INDUCTIVE resistors. Five wattage ranges—2, 3, 5, 7, and 10, six sizes; resistance range from 2 to 37K ohms; tolerance from .05% to 3%. Type NS with axial leads; Type NLS with radial leads.



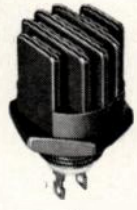
TYPE RH

Die-cast, black anodized radiator finned housing, enables these resistors to take high power ratings. Lugs provided for horizontal mounting. Four wattage ratings—10, 25, 50, and 250; resistance range 0.1 ohm to 175K ohms. Tolerance range from .05% to 3%.



TYPE PH

New ruggedized Powerhouse resistor for hole mounting in chassis. Black anodized finned aluminum housing. Three wattage ratings—10, 25 and 100; resistance range from 0.1 ohm to 60K ohms; tolerance range .05% to 3%.



TYPES WWL, WWA, WWP, WWR

Encapsulated for hermetic sealing; non-inductive pi wound; powered at .1 watt to 2 watts; resistance range 0.1 ohm to 6 megohms; sizes from sub-miniature ⅛ by ⅜ inch to ½ by 2 inches.



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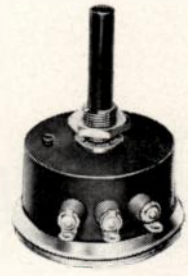
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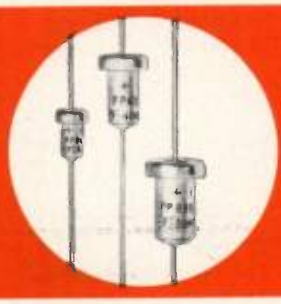
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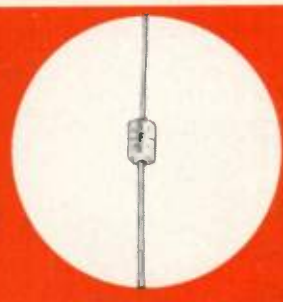
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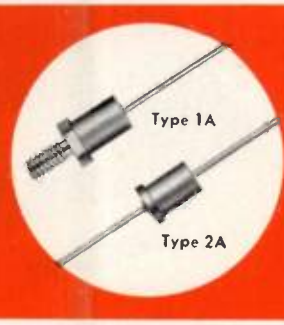
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In the 1949 edition, 158 advertisers took 133 pages. In the 1959 IRE DIRECTORY, the number of advertisers mushroomed to 533 and advertising pages numbered 373—an increase of 280% over the '49 edition.

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Published by

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Goodness! Such growth!

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HELPFUL HINTS
for using the IRE DIRECTORY

A few minutes' study of the basic layout of the IRE DIRECTORY will help you to find the information for which you are looking more quickly and more accurately. At first glance, the IRE DIRECTORY may seem to be confusing, but by using the various portions of the book as listed below, you will find your way around easily, and will discover that it is actually a very simple arrangement, and a much more logical one than a purely alphabetical terminology listing.

PINK SECTION at the front of the products and firms section contains a terminology index listing every product, major and minor, for which a list of manufacturers is given. Page numbers refer you to the page on which the listings for that product begin. Following this alphabetical index is a copy of the questionnaire which is sent to the firms who have furnished us with product information. A quick look through this questionnaire will help greatly in understanding the product arrangement. At the top of the first page of the pink section is a small index referring you to the opening page of the complete-data spread section, the alphabetical directory, and each of the four product directories.

THE COMPLETE DATA SPREAD SECTION (pages 1-140) contains product advertisements of great usefulness to the reader. Most of these advertisements are two pages or more, and all of them contain complete information on the products manufactured by the advertising firms—specifications, prices, illustrations, and suggested applications.

ALPHABETICAL DIRECTORY OF MANUFACTURERS (pages 141-240) contains a list of 4,029 firms representing the majority of buying and selling power in the radio-electronic industry. Each firm listing contains the complete mailing address and telephone number for the firm. Following the state name in the firm address, a list of code numbers is given. These numbers refer to the 100 major products listed in the book (for quick reference to the meaning of the codes, use the questionnaire form in the pink section).

THE FOUR DIRECTORIES OF PRODUCTS ARE:

1. Communications Equipment
2. Components
3. Controls and Instruments
4. Materials and Services

This breakdown into four directories saves you from traveling through many products in which you are not interested at the moment, and helps you to turn immediately to the listings for the type of product you want, following a straight line to your destination. Use the Machol edge index at the top of the first page of the pink section to locate immediately the first page of the appropriate directory, then use the Machol edge index at the beginning of each directory to find the specific product you want. You don't even have to know the page number—the index will find it for you automatically!

100 MAJOR PRODUCTS are listed within these four Directories. Each product listing contains a number of sub-headings so that you may know specifically what each firm makes. To interpret the code numbers shown after each firm's listing, consult the first page of that product class, where the sub-headings are defined. You will note that advertisements are positioned throughout the book in the most appropriate listing section, so that the advertisement for a relay manufacturer will appear in the relay section, to help you with further information on his product. Every advertiser's listing shows you the page number on which his advertisement may be found, and you will derive more value from this book if you consult these advertisements for facts you cannot find in the listings.

COMPLETE ADDRESS LISTINGS are given only for advertisers in this section. If you wish to locate the address and telephone number for any other firm, it will be necessary to use the alphabetical directory.

THE DISTRIBUTION SECTION is class 100, the last class in the book. This section contains a list of 1,362 manufacturers representatives, distributors and jobbers, grouped geographically. See page 594 for a more complete explanation of the use of this section.

ADVERTISER'S INDEX appears on pages 135-140 and on pages 619 and 620.

How to Use the Machol Edge Index

High speed reference is a major objective of the IRE Directory. To this end we have adopted the Machol Edge Index system, and these indexes:

Advertisers Index, pages 135-140 and 619-620.

Key to Products, Pink Section.

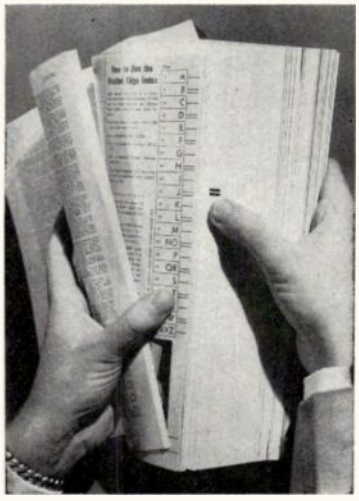
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Detailed Machol edge indexes will be found on the first page of the alphabetical Directory and each of the four major product Directories, pages 141, 241, 275, 461 and 519. The Machol system will help you find both alphabetical and product sections swiftly.

HOW TO USE

1. Bend the Directory almost double with the front cover page on the inside.
2. Hold in your right hand with your four fingers near to the bound edge and your right thumb near the middle of the open side of this page.
3. From the heavy or light line symbol adjacent to the subject you seek, run your eyes across the page edges until you reach the horizontally corresponding symbol.
4. OPEN THERE!



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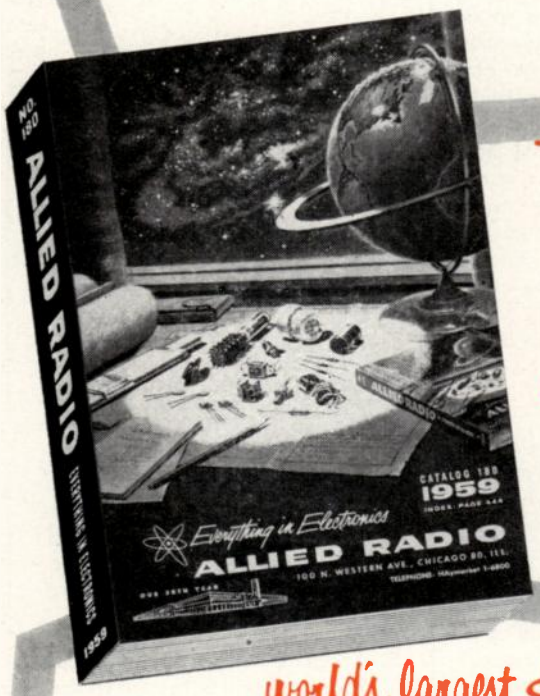
1959 Edition prepared by The Advertising Department of the Institute of Radio Engineers, 72 W. 45th St., New York 36, N.Y.
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Tel: ULster 5-1483

Ace Plastic Co., 91-30 Van Wyck Expwy., Jamaica 35, N.Y., 86, 95
Tel: JAmaica 3-5500

Acheson Colloids Co., 1635 Washington Ave., Port Huron, Mich., 91
Tel: YUkon 4-4171

Ackerman Engravers, 458 Broadway, New York 13, N.Y., 86, 87
Tel: BArclay 7-1479

Ackerman Gould Co., 92 Bleecker St., New York, N.Y., 86, 88, 92
Tel: ALgonquin 4-2538

Acme Electric Corp., 449 Water St., Cuba, N.Y., 47, 59, 92
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Tel: CUba 4

Acme Electric Heating Co., 1217 Washington St., Boston, Mass., 88

Acme Telectronix Div., NEA Service Inc., 1200 W. Third St., Cleveland 13, Ohio, 8, 75
Tel: MAin 1-7300

Acme Wire Co., 1225 Dixwell Ave., New Haven, Conn., 38, 83, 86, 89, 91
Tel: LOcust 2-2171

Acme Wire Mach. Co., 234 E. 3rd Ave., New York 9, N.Y., 92
Tel: OREgon 7-8290

Acoustica Associates, Inc., 26 Windsor Ave., Mineola, L.I., N.Y., 21, 42, 59, 68, 72, 92
Tel: PIoneer 7-7900

Acoustical Mfg. Co., Ltd., St. Peters Rd., Huntingdon, Huntingdon County, England, 21, 40, 60
Tel: HUntingdon 361

Acoustronics, Inc., 6 Eton Lane, Hicksville, L.I., N.Y., 67, 85, 90
Tel: WElls 8-3611

Acro Products Co., 369 Shurs Lane., Philadelphia 28, Pa., 21, 59
Tel: IV 3-5969

Acro Tool & Die Works, 4554 Broadway, Chicago 40, Ill., 86, 92
Tel: LO 1-1807

Acromag Inc., Dept. C, 22519 Telegraph Rd., Detroit 41, Mich., 21, 29, 59, 68, 72, 81
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Tel: ELgin 6-7211

Acromark Co., 538 Morrell St., Elizabeth 4, N.J., 86, 87, 92
Tel: ELizabeth 2-6500

Actioncraft Products, 8 Sagamore Hill Dr., Port Washington, N.Y., 87 89
Tel: POrt Washington 7-4500

Code Numbers TELL YOU

what each company does or makes. The numbers after each address refer you to the 100 product and service classes, in which detailed information on the firm will be found.

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Acton Laboratories, Inc., 533 Main St., Acton, Mass., 21, 72, 74, 94
Tel: COlonial 3-7756

Adage, Inc., 292 Main St., Cambridge 42, Mass., 70, 72
Tel: UNiversity 4-7410

Adair Engr. Co., George, 1610 Eye St., N.W., Washington, D.C., 85
Tel: EXecutive 3-1230

Adams & Westlake Co., 1025 N. Michigan St., Elkhart, Ind., 52
Tel: 2-0550

Adams-Russell Co., Inc., 292 Main St., Cambridge 42, Mass., 3, 36, 56, 85, 90

Adcon, Inc., 1117 Commonwealth Ave., Boston 15, Mass., 21, 68, 70
Tel: STadium 2-1117

Addis Translations, R., P.O. Box 2887 Woodside Rd., Woodside, Calif., 99
Tel: ULmar 1-1492

Adelman Co., Leon L., 25 Chittenden Ave., New York 33, N.Y., 100
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Tel: TOmpkins 7-1145

Adler Electronics, Inc., 1 Le Fevre Lane, New Rochelle, N.Y., 1, 3, 5, 6, 13, 15, 17, 18, 19, 20, 21, 22, 25, 36, 67, 72, 77, 80
Tel: NE 6-1620

Admiral Corp., 3800 Cortland St., Chicago 47, Ill., 4, 25, 45
Tel: SPaulding 2-0100

Advance Electronics Co., 8510 N. End Ave., Box 3706, Oak Park 37, Mich., 3, 36, 49
Tel: LIncoln 6-248

Advance Electronics Labs., 249-259 Terhune Ave., Passaic, N.J., see Ad-Yu Electronics Lab.

Advance Winding Co., 2813 E. Washington St., Indianapolis 1, Ind., 59
Tel: ME 7-2626

Advanced Electronics, Inc., 94 Silas Deane Highway, Rocky Hill 9, Conn., 21, 29, 52, 56, 68, 72, 86, 90
Tels: JAckson 9-6881 & 9-6882

Advanced Electronics Mfg. Corp., 2116 S. Sepulveda Ave., Los Angeles 25, Calif., 79
Tel: GRanite 8-9220

Advanced Vacuum Prods., 430 Fairfield Ave., Stamford, Conn., 38
Tel: DAvis 4-2148

Advertising Engrg. Assoc., 1342 Bel Aire Rd., San Mateo, Calif., 99
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Aemco, Inc., 10 State St., Mankato, Minn., 52, 56, 68
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Aero Coil, Inc., 24 Cliff St., Jersey City, N.J., 29, 34, 36
Tel: OLfield, 3-7446-7

Aero Electronics Co., 1512 N. Wells St., Chicago 10, Ill., 21, 42, 68, 69, 70, 72, 74, 81, 85, 90
Tel: WHitehall 3-4010

Aero Guidance Corp., 873 Linden Ave., Carpinteria, Calif., 90
Tel: CArpinterio 8-17210

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- for computers, printed circuits and critical industrial electronic equipment
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Aero Instrument Co., 11423 Vanowen St., N. Hollywood, Calif., 42, 56, 75, 77
Tels: POplar 5-7330 & STanley 7-5433

Aeromotive Equip. Corp., 1632 Central St., Kansas City 8, Mo., 6, 19, 34, 66, 72, 77, 86
Tel: VIctor 2-5870

Aero Research Instr. Co., 315 N. Aberdeen St., Chicago 7, Ill., 58, 83, 87
Tel: TAylor 9-6400

Aero Service Corp., 210 E. Cortland St., Philadelphia 20, Pa., 85
Tel: GLadstone 7-3000

Aeroconomy Agency, P.O. Box 1001, Schenectady, N.Y., 99
Tel: FRanklin 2-8426

Aeroflex Labs., Inc., 3406 Stillman Ave., Long Island City, N.Y., 18, 68, 70, 72, 81, 92
Tel: STillwell 6-3315

Aeroflex Research, Inc., 48-25 36th St., Long Island City, N.Y., 21, 47, 81
Tel: ST 6-3315

Aerojet General Corp., P.O. Box 296, Azusa, Calif., 9, 21, 58, 68, 85, 86, 90
Tel: EDgewood 4-6211

Aerolab Devlpmt. Co., 330 W. Holly St., Pasadena, Calif., 44, 72
Tel: SYcamore 3-1184

Aerolite Electronics Co., 507 26th St., Union City, N.J., 3, 30, 39, 46, 83, 86, 87
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Aerolux Light Corp., 655 11th Ave., New York 36, N.Y., 46, 62, 72, 86, 90
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Aeronautical Comm. Equip., 3090 S.W. 37th Ave., Miami 33, Fla., 1, 3, 13, 19
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Aeronautical Electric Co., 5656 Northwest Highway, Chicago 46, Ill., 46
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Aeronca Mfg. Corp., Research Div., Baltimore 28, Md., 3, 11, 12, 20, 21, 28, 34, 47, 65, 67, 68, 72, 75, 81
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Aeronutronic Systems, Inc., 1234 Air Way, Glendale, Calif., 90
Tel: CItrus 3-1146

Aeroprojects, Inc., 310 E. Rosendale Ave., West Chester, Pa., 72, 85, 92
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Aeroquip Corp., 300 South East Ave., Jackson, Mich., 79
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Aerotron Supply Co., 8504 S. Normandie Ave., Los Angeles 44, Calif., 87
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Aerotronic Associates, P.O. Box 419, Concord, N.H., 20, 21, 48, 67, 72, 77, 80
Tel: COntoocook 190-3

Aerovox Corp., 740 Belleville Ave., New Bedford, Mass., 3, 9, 18, 21, 22, 26, 27, 29, 32, 35, 36, 39, 47, 53, 55, 56, 59, 69
Tel: WYman 4-9661

Aerovox Corp., HI Q Div., Seneca St., Olean, N.Y., 26, 48, 53
Tel: 2-2141

Aetna Electronics Corp., 207 Stonehinge Lane, Carle Place, N.Y., 27, 29, 32, 47, 58, 59, 72, 92
Tel: ED 3-1062

Aid Associates, 972 Elsinore Ct., Palo Alto, Calif., 34, 36, 67, 68, 85, 90
Tel: DAvenport 4-0360

Ainslie Corp., 312 Quincy Ave., Quincy 69, Mass., 3, 25, 66
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Tel: GRanite 2-8747

Air O Tronics Engrg. Co., P.O. Box 31, Lancaster, Calif., 47, 87
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Airborne Accessories, 1414 Chestnut Ave., Hillside 5, N.J., 21, 26, 31, 36, 44, 47, 68
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Airborne Instrument Lab., 160 Old Country Rd., Mineola, N.Y., 14, 21, 22, 36, 66, 68, 72, 74, 81
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Airborne Instrument Lab., 1101 Stewart Ave., Mineola, N.Y., 14, 15, 20, 66, 68, 70, 72, 74, 77, 78, 80
Tel: PIoneer 2-0600

Aircom, Inc., 354 Main St., Winthrop 52, Mass., 3, 12, 15, 20, 21, 22, 36, 47, 60, 66, 77, 80, 90
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Tel: OCean 3-3096

Aircom, Inc., 139 East First Ave., Roselle, N.J., 3, 21, 22, 30, 33, 36, 47, 60, 66, 77, 88, 90
Tel: CHestnut 5-2990

Aircraft Armaments, Inc., P.O. Box 126, Cockeysville, Md., 3, 25, 28, 66, 80, 86, 90
Tel: VA 5-8400

Aircraft Electronics, 6219 South Sears Blvd., Tucson, Ariz., 21, 47, 67, 72, 85, 90
Tel: MA 4-6348

Aircraft Radio Corp., Boonton, N.J., 1, 3, 21, 30, 47, 80, 87
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Airdesign Corp., 241 Fairfield Ave., Upper Darby, Pa., 29, 36, 59
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Aireco, Inc., 2323 Second Ave. Carman, Schenectady 3, N.Y. 71
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Air-Marine Motors, Inc., 369 Bayview Ave., Amityville, N.Y., 24, 44, 68, 81
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Tel: AMityville 4-3700

Air-Maze Corp., 25000 Miles Rd., Cleveland 28, Ohio, 92

Airmec, Ltd., High Wycombe, Bucks, England, 12, 21, 42, 47, 59, 65, 67, 68, 70, 72, 75, 78, 79, 80

Aironic Accessory Co., 161 Orinoco Dr., Brightwaters, L.I., N.Y., 3, 20, 21, 22, 24, 30, 31, 52, 68, 81, 86, 87
Tel: MOhawk 6-6510

Airpax Products Co., Middle River, Baltimore 20, Md., 21, 29, 31, 42, 52, 59, 81, 86
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Tel: MU 6-9100

Airpax Products Co., P.O. Box 8488, Ft. Lauderdale, Fla., 12, 21, 29, 31, 42, 47, 52, 56, 59, 68, 81
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Tel: LU 3-6160

Airtron, Inc., Dept. I, 1106 W. Elizabeth Ave., Linden, N.J., 3, 14, 15, 22, 32, 36, 48, 52, 56, 59, 60, 66, 68, 77, 81, 83, 87, 90
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Tel: HUnter 6-1000

Airtronix Dev. Corp., 4902 Church Ave., Brooklyn 3, N.Y., 11, 21, 45, 48, 65, 86, 90
Tel: DI 5-3435

Ajax Condenser Co., Inc., 932 W. Wrightwood Ave., Chicago 26, Ill., 26
Tel: GRaceland 7-0660

Aladdin Electronics, 719 Murfreesboro Rd., Nashville 10, Tenn., 29, 34, 36, 59
Tel: CH 2-3411

Albano Co., Inc., 549-555 West 54th St., New York 19, N.Y., 25, 89
Tel: PLaza 7-5888

Alcar Instruments, Inc., 17 Industrial Ave., Little Ferry, N.J., 21, 72, 92
Tel: HUbbard 9-3040

Alco Electronics Mfg. Co., 3 Wolcott Ave., Lawrence, Mass., 42, 69, 80
Tel: MUrdock 3-0370

Alcon Metal Products, Inc., 1750 N. Kimball Ave., Chicago 47, Ill., 30, 39, 48, 55, 56, 85, 86, 87
Tel: BE 5-5030

Alden Electronic & Impulse Recording Equipment Co., P.O. Box 125, Westboro 6, Mass., 7, 8, 20, 21, 28, 47, 68, 70, 74
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Tel: FOrest 6-4467

Alden Products Co., 9140 N. Main St., Brockton 64, Mass., 25, 28, 29, 30, 32, 33, 37, 39, 46, 48, 55, 56, 59, 83, 86, 87, 90, 94
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Tel: BRockton 160

Alden Systems Co., 1 Washington St., Westboro, Mass., 8, 37, 39, 74, 87
Tel: FOrest 6-4467

Alert Products, Inc., 728 Market St., Camden 2, N.J., 10, 24, 29, 36, 40, 86, 90
Tel: WOodlawn 6-1150

Alfax Paper & Eng. Co., P.O. Box 125, Westboro 6, Mass., 8
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Tel: FOrest 6-4467

Alford, Consulting Engrs., A., 299 Atlantic Ave., Boston, Mass., 90
Tel: HAncock 6-2150

Alford Mfg. Co., Inc., 299 Atlantic Ave., Boston 10, Mass., 3, 22, 36, 56, 59, 66, 77
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Tel: HAncock 6-2150

Alfred Electronics, 897 Commercial St., Palo Alto, Calif., 21, 47, 77, 80

All Amer. Tool & Mfg. Co., 8027 Lawndale Ave., Skokie, Ill., 72, 92
Tel: ORchard 3-7084

All Channel Prods. Corp., 47-39 49th St., Woodside 77, N.Y., 3
Tel: EXeter 2-1336

All Products Co., P.O. Box 110, Mineral Wells, Texas, 3
Tel: FAirfax 5-3301

All Star Products, Inc., Squire Ave., Defiance, Ohio, 27
Tel: 2-1065

Numbers after address show the product and service classes in which firm appears. These classified listings follow the Alphabetical Directory. For complete instructions on use of this Directory, see pink sheets preceding catalog section.

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Famous for
ACCURACY ▫ STABILITY
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Each Ballantine Voltmeter has only one voltage scale, with decade range switching, which provides the **same accuracy of reading at all points on the logarithmic voltage scale.** A linear decibel scale is also provided for use by acoustical engineers. Each Voltmeter also may be used as a high gain wide band amplifier.

TRUE RMS INDICATION MODEL 320



Voltage Range ..... 100 μv — 320 v
Frequency Range ..... 5 cps — 500 kc
Accuracy ..... 3% 15 cps — 150 kc
5% elsewhere
Stability of Internal Calibrator 0.5%
Input Impedance . . .
10 megs shunted by 18 μμf below 10 mv
10 megs shunted by 8 μμf above 10 mv



AUDIO to 250 kc MODEL 300D

Voltage Range ..... 1 mv — 1000 v
Frequency Range ..... 10 cps — 250 kc
Accuracy ..... 2% ENTIRE RANGE
Input Impedance ..... 2 meg shunted by 15 uuf

DC & AC PRECISION CALIBRATOR MODEL 420

Voltage Range ..... 0-10 v RMS; Pk-to-Pk; or DC
Frequency (Std. Model) ..... 1 kc
(other values on special order)
Accuracy (long term) Better than 0.5% above 1 mv
Distortion and Hum ..... Less than 0.25%
Setting Resolution Approaches 0.01% above 10 mv
Output Impedance (AC) .... 2-20 ohms depending on range setting



SUB-AUDIO to 150 kc MODEL 302C

Battery Operated

Voltage Range ..... 100 μv — 1000 v
Frequency Range ..... 2 cps — 150 kc
Accuracy ..... 3% 5 cps — 100 Kc
5% elsewhere
Input Impedance ..... 2 meg shunted by 10 μμf*
*Shunt capacitance, 25 μμf on two most sensitive ranges





SENSITIVE INVERTER MODEL 700

For Measuring DC Voltages when combined with any AC Voltmeter

Voltage Range ..... 1 μv — 100 v DC
Ratios DC Input to RMS Output ..... 1:100 & 10:1
Accuracy ..... 1% 100 μv — 100 v
Input Resistance ..... >10 meg for 1:100
50 meg for 10:1



PEAK-to-PEAK MODEL 305

Voltage Range ..... 1 mv — 1000 v pk-to-pk
Frequency Range ..... 10 cps — 100 kc (sine wave)
Pulse Width ..... 3 μsec — 250 μsec
Min Rep Rate ..... 20 pulses per sec
Accuracy ..... 5% for pulses
Input Impedance ..... 2 meg shunted by 8 μμf*
*Shunt capacitance, 15 μμf on two most sensitive ranges

DECADE AMPLIFIER MODEL 220B

For Increasing the Sensitivity of any AC Voltmeter by 10 or 100 times

Voltage Range ..... 20 μv — 50 mv
Frequency Range ..... 10 cps — 150 kc
Accuracy ..... 2% ENTIRE RANGE
Input Impedance ..... 5 meg shunted by 15 μμf



AUDIO to 2 mc MODEL 310A

Voltage Range ..... 100 μv — 100 v
Down to 40 μv at reduced accuracy
Frequency Range ..... 10 cps — 2 mc
As null detector 5 cps. — 4 mc
Accuracy ..... 3% 15 cps — 1 mc
5% elsewhere
Input Impedance ..... 2 meg shunted by 9 μμf*
*Shunt capacitance, 19 μμf on two most sensitive ranges





DIRECT READING CAPACITANCE METER MODEL 520

Capacitance Range ..... 0.01 μμf to 12 μf
in 9 decade ranges covering over a billion to 1
Accuracy ..... 2% above 0.1 μμf
5% below 0.1 μμf
Capacitor Power Factor 0.15
Test Frequency ..... 1 kc



AUDIO to 6 mc MODEL 314

Voltage Range ..... 1 mv — 1000 v
(100 μv — 1 mv without probe)
Frequency Range ..... 15 cps — 6 mc
Accuracy ..... 3% 15 cps — 3 mc
5% elsewhere
Input Impedance ..... 11 meg shunted by 8 μμf
(1 meg shunted by 25 μμf without probe)

ACCESSORIES are available for all voltmeters to extend voltage measurements down to 20 μv and up to 10 kv, and to measure currents from 0.1 μamp to 10 amp, and to provide DC from the Model 300 Voltmeter to drive external recorders or remotely located meters.

INFRASONIC to 30 kc MODEL 316

Voltage Range ..... 20 mv — 200 v pk-to-pk
Frequency Range ..... 0.05 cps — 30 kc
(Down to 0.01 cps with correction)
Accuracy ..... 3% ENTIRE RANGE
Input Impedance ..... 10 meg shunted by 17 uuf
or 40 uuf depending on setting



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Boonton, New Jersey

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Tel: PIoneer 6-5895

Allegany Instrument Co., 1091 Wills Mountain, Cumberland, Md., 69, 70, 72, 75, 79
Tel: PArkview 4-1200

Allegheny Ludlum Steel, Oliver Bldg., Pittsburgh 22, Pa., 32, 38, 93, 97
Tel: COurt 1-5300

Allen-Bradley Co., 136 W. Greenfield Ave., Milwaukee 4, Wis., 26, 32, 36, 37, 52, 53, 56, 68
Tel: OR 1-2000

Allen Communications, Inc., 1845 Broadway, New York 23, N.Y., 9, 21
Tel: CIrcle 7-7727

Allen Co., Inc., L. B., 9329 Berenice, Schiller Park, Ill., 91, 96
Tel: GL 5-3097

Allen Mfg. Co., 133 Sheldon St., Hartford 2, Conn., 87
Tel: JA 2-6131

Alliance Mfg. Co., Lake Park Blvd., Alliance, Ohio, 45,
Tel: 1-5361

Alliance Motors, Schell Ave., Toronto 10, Ont., Canada, 44
Tel: REdfern 6124

Allied Allegri Mach. Co., 141 River Rd., Nutley 10, N.J., 48, 81, 83, 86, 87
Tel: NUtley 2-3910

Allied Chem. & Dye Corp., 40 Rector St., New York 6, N.Y., 71, 89, 91, 95
Tel: HAnover 2-7300

Allied Control Co., Inc., 2 East End Ave., New York 21, N.Y., 29, 52, 56
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Tel: BUtterfield 8-7403

Allied Ind. Elecnc. Canada, 9 Torbarrie Rd., Toronto 15, Ont., Canada, 31, 44, 47, 50, 68, 92
Tel: CH 6-2133

Allied International Co., 230 Park Ave., New York 17, N.Y., 1, 3, 7, 10, 11, 13, 17
Tel: LExington 2-1258

Allied Plastics Supply, 75 Cliff St., New York 38, N.Y., 86, 89, 95

Allied Radio Corp., Dept. 35-59, 100 N. Western Ave., Chicago 80, Ill., 9, 21, 40, 60
See ad on page 142
Tel: HAymarket 1-6800

Allied Recording Prod. Co., 32-32 Greenpoint Ave., Long Island City 1, N.Y., 49
Tel: STillwell 4-2318

Allies Products Corp., P.O. Box 188 Kendall Branch, Miami 56, Fla., 53
Tel: CEdar 5-5424

Allis-Chalmers Mfg. Co., Milwaukee 1, Wis., 50, 88
Tel: SPring 4-3600

Allison Labs., 14185 Skyline Dr., La Puente, Calif., 72
Tel: OXford 4-4056

Allmetal Screw Prod. Co., 821 Stewart Ave., Garden City, N.Y., 87
Tel: PIoneer 1-1200

Alloy Metalsmiths, Inc., 88 Commerce Rd., Cedar Grove, N.J., 25, 28, 86
Tel: CEnter 9-2424

Alloyd Research Corp., 202 Arsenal St., Watertown 72, Mass., 90, 93
Tel: WA 4-2200

All-State Welding Alloys, 249-55 Ferris Ave., White Plains, N.Y., 93, 96
Tel: WHite Plains 8-4646

All-Tronics, Inc., 45 Bond St., Westbury, L.I., N.Y., 22, 26, 29, 34, 36, 48, 59, 67, 68, 72, 85, 86, 90
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Tel: EDgewood 3-3090

Alonge Products, Inc., 163 West 23rd St., New York 11, N.Y., 49
Tel: WA 4-2815

Alpar Mfg. Corp., 2910 Spring St., Redwood City, Calif., 3, 86
Tel: EM 8-4701

Alpha Instrument Co., 43 Hempstead St., New London, Conn., 21, 42, 69, 72, 80
Tel: GIbson 2-2141

Alpha Metals, Inc., 56 Water St., Jersey City 4, N.J., 86, 87, 93, 96
Tel: HE 4-6778

Alpha Wire Corp., 200 Varick St., New York 14, N.Y., 83, 86, 87, 89
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Tel: ALgonquin 5-5400

Alpha-Loy Corp., 2250 S. Lumber St., Chicago 16, Ill., 93, 96, 97
Tel: MO 6-5280

Altair Co., 19209 Van Owen St., Reseda, Calif., 10, 11, 14, 15, 17, 20, 21, 47, 68, 85, 90
Tel: DIckens 2-1193

Altec Lansing Corp., 1515 S. Manchester Ave., Anaheim, Calif., 9, 18, 21, 25, 28, 40, 43, 59, 60, 67, 71
Tel: PRospect 4-2900

Altec Service Co., 161 6th Ave., New York, N.Y., 9, 18, 21, 40, 43, 59, 60, 86
Tel: ALgonquin 5-3636

Althor Products, 2301 Benson Ave., Brooklyn 14, N.Y., 25
Tel: ESplanade 3-7444

Alto Scientific Co., Inc., 855 Commercial St., Palo Alto, Calif., 21, 31, 42, 47, 52, 59, 67, 72, 77, 80
Tel: DAvenport 4-4733

Aluminum Co. of America, 1501 Alcoa Bldg., Pittsburgh 19, Pa., 32, 83, 87, 93
Tel: AT 1-4545

Aluminum - Industrie - Aktien - Gesellschaft Research Labs. of Switzerland, c/o United Mineral & Chemical Corp., 16 Hudson St., New York 13, N.Y., 93
Tel: BEekman 3-8870

Alwac, Inc., 13040 S. Cerise Ave., Hawthorne, Calif., 70
Tel: OSborne 5-0311

Ambroid Co., Box 30, Weymouth 83, Mass., 87, 91, 96
Tel: EDgewater 5-6658

Amco Engineering Co., Dept. M, 7333 W. Ainslie St., Chicago 31, Ill., 24, 25, 28
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Tel: UNderhill 7-8500

Amatom Elec. Hardware Co., 88 Drake Ave., New Rochelle, N.Y., 37, 39, 46, 55, 86, 87, 94, 97

Amerac, Inc., Dunham Rd., Beverly, Mass., 15, 21, 42, 47, 70, 77
Tel: WAlker 2-8611

American Aluminum Co., 230 Sheffield St.-D, Mountainside, N.J., 86
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Tel: WEstfield 2-8941

American Aviation Publications, 1001 Vermont Ave., N.W., Washington 5, D.C., 99
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Tel: STerling 3-5400

American Bosch Arma Corp., 320 Fulton Ave., Hempstead, N.Y., 1
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American Communications, 280 Broadway, New York 7, N.Y., 3, 4, 9, 18, 21, 25, 30, 36, 40, 60, 83
Tel: REctor 2-319

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Tel: LOngbeach 1-1386

American Electric Cable Co., 181 Appleton St., Holyoke, Mass., 83
Tel: JEfferson 9-9893

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Tel: TRinity 5-2505

American Electronic Lab., 121 N. 7th St., Philadelphia 6, Pa., 1, 3, 21, 33, 36, 47, 66, 72, 76, 77, 79, 85, 90
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Tel: PEnnsylvania 6-9751

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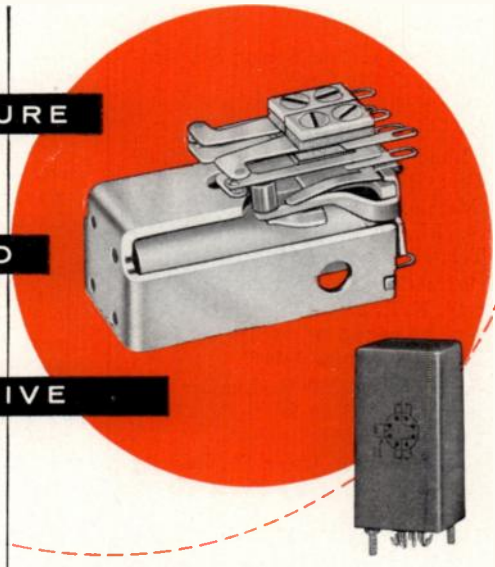
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American Measurement, 240 Calvary St., Waltham 54, Mass., 21, 29, 41, 47, 58, 59, 68, 72, 73, 81, 86
Tel: TWinbrook 4-6212

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Tel: STanley 7-4427

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Tel: MU 2-5880

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American Products Mfg. Co., 8127-33 Oleander St., New Orleans 18, La., 91, 95
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American Radionic Co., Inc., 51 Austin St., Danbury, Conn., 26
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American Research & Mfg. Corp., 920 Halpine Ave., Rockville, Md., 21, 29, 36, 47, 59, 81, 85
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American Speedlight Corp., 63-01 Metropolitan Ave., Middle Village, N.Y., 68
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American Super-Temperature Wires, Inc., 10 West Canal St., Winooski, Vt., 83
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American Thermo Electric Co., 1023 N. Fuller Ave., Los Angeles 46, Calif., 58
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American Time Products, Inc., 580 Fifth Ave., New York 36, N.Y., 49, 75, 92
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Anaconda Co., 25 Broadway, New York 4, N.Y., 83
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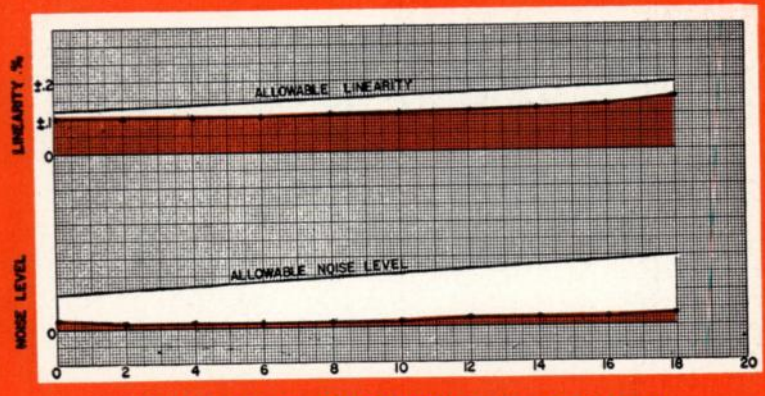
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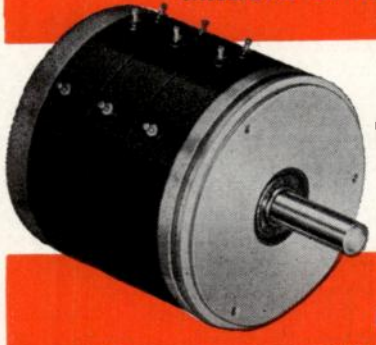
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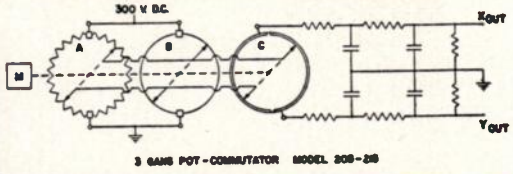
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Argonne National Lab., Box 299, Lemont, Ill., 90
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Arrow, Hart & Hegeman Elec., 103 Hawthorn St., Hartford 6, Conn., 56
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Arrow Machinists & Fabricators, 154 East Third St., Mt. Vernon, N.Y., 25, 28, 86, 87, 90
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Arrow Radio Co., 1829 Davenport Rd., Toronto 9, Canada, 26, 36

Art Wire & Stamping Co., 21 Boyden Pl., Newark 2, N.J., 86, 87, 96, 97
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Tel: HUmboldt 4-2100

Artisan Electronic Corp., 171 Ridgedale Ave., Morristown, N.J., 29, 52, 56
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Atlas E-E Corp., 47 Prospect St., Woburn, Mass., 27, 86, 97
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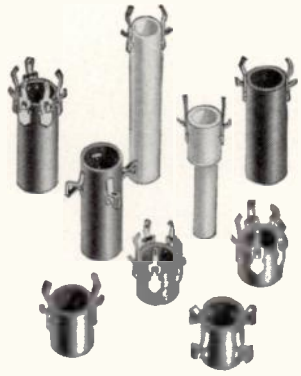
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Blonder-Tongue Labs., Inc., 9-25 Alling St., Newark 2, N.J., 3, 4, 5, 12, 21, 22, 30, 35, 36, 52, 59, 80, 92
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Bludworth Marine Div., Kearfott Co., Inc., 1500 Main Ave., Clifton, N.J., 10, 11, 13, 14, 15, 18, 32, 47, 66, 74, 77, 81, 85, 90, 92
Tel: GRegory 2-1052

Blue M Electric Co., 138th & Chatham St., Blue Island, Ill., 71, 87, 88
Tel: FUlton 5-9000

Bodine Electric Co., 2254 W. Ohio St., Chicago 12, Ill., 44
Tel: SEeley 3-6410

Bodnar Industries, Inc., 238 Huguenot St., New Rochelle, N.Y., 33, 67, 87
Tel: NEw Rochelle 6-4664

Boehm Co., R. A., 58 Brooklyn Ave., Merrick L.I., N.Y., 44
Tel: FReeport 8-6040

Boehme, Inc., H. O., 915 Broadway, New York, N.Y., 19, 86, 90
Tel: SPring 7-2208

Boeing Airplane Co., P.O. Box 107, Seattle 14, Wash., 90

Boesch Mfg. Co., Inc., 45 River St., Danbury, Conn., 70, 72, 90, 92
Tel: PIoneer 3-5571

Bogart Mfg. Corp., 315 Seigel St., Brooklyn 6, N.Y., 3, 21, 22, 36, 56, 66, 77, 89
Tel: HYacinth 7-4972

Bogen Co., Inc., David, P.O. Box 500, Paramus, N.J., 4, 9, 21, 45, 60
Tel: DIamond 3-5700

Boland & Boyce, 356 W. 40th St., New York 18, N.Y., 99
Tel: BR 9-3256

Bomac Laboratories, Inc., Salem Rd., Beverly, Mass., 33, 54, 63, 66
See ad on pages 64-65
Tel: WAlker 2-6000

Bond Electronics Corp., 60 Springfield Ave., Springfield, N.J., 53
Tel: MU 8-3838

Bone Engrg. Corp., 701 W. Broadway, Glendale 4, Calif., 44, 48, 68, 72
Tel: CH 5-2638

Boonton Electronics Corp., 738 Speedwell Ave., Morris Plains, N.J., 21, 26, 42, 69, 72, 80, 82
See ad on page 481
Tel: JEfferson 9-4210

Boonton Molding Co., 326 Myrtle Ave., Boonton, N.J., 94
Tel: DEerfield 4-4400

Boonton Radio Corp., Intervale Rd., Boonton, N.J., 69, 71, 72, 77, 80, 82
See ad on page 508
Tel: DEerfield 4-3200

Booth Co., Arthur E., 265 S. Alexandria Ave., Los Angeles 4, Calif., 47, 52, 72, 85, 87
Tel: DUnkirk 9-4863

Boots Aircraft Nut Corp., Newton Turnpike, Norwalk, Conn., 86, 87
Tel: VIctor 7-2446

Borden Chemical Co., Resinite Dept., P.O. Box 1589, Santa Barbara, Calif., 86, 89, 95
Tel: WOodland 3134

Borden Engineering Co., M. J. Johnson Aircraft Eng., P.O. Box 10, Morristown, N.J., 20, 29, 42, 69, 72, 73
Tel: JEfferson 8-9100

Borg Corp., George W., Borg Equip. Div., 120 S. Main St., Janesville, Wis., 44, 53, 70, 75
See ad on page 408
Tel: PLeasant 4-6616

Borg-Warner Corp., BJ Electronics Div., 3300 Newport Blvd., Santa Ana, Calif., 20, 22, 58, 68, 70, 72, 77, 78, 80, 90
Tel: KImberly 5-5581

Borg-Warner Corp., Pesco Prods. Div., 24700 N. Miles Rd., Bedford, Ohio, 24, 44, 63
Tel: MOntrose 2-2100

Borg-Warner Corp., Research Center, Des Plains, Ill., 21, 52, 68, 73, 81, 85, 90
Tel: VA 7-3131

Borolite Corp., Dept. I, 320 Yonkers Ave., Yonkers 2, N.Y., 93
See ad on page 578
Tel: YOnkers 8-2211

Borthig Co., Inc., George, C., P.O. Box 115, E. Rutherford, N.J., 91
Tel: WEbster 9-9260

Boston Felt Co., 210 South St., Boston 11, Mass., 64

Boston Insul. Wire-Cable Co., 65 Bay St., Boston 25, Mass., 83
Tel: COlumbia 5-2104

Bourns Labs. Inc., P.O. Box 2112, Riverside, Calif., 53, 58
Tel: OVerland 4-1700

Bow Solder Prod. Co., Inc., 251 Freeman St., Brooklyn 22, N.Y., 92, 93, 96
Tel: EVergreen 9-4863

Bowmar Instrument Corp., 8000 Bluffton Rd., Ft. Wayne 4, Ind., 70, 81
See ad on page 471
Tel: SHerwood 3121

Boyce, William, F., 356 W. 40th St., New York 18, N.Y., 85

Boyle Metalcraft Corp., 150 Sullivan St., Brooklyn 31, N.Y., 25, 28
Tel: TRiangle 5-3603

Bozak Sales Co., The, R. T., P.O. Box 1166, Darien, Conn., 40
Tel: TEmple 8-6521

Bracke-Seib X-Ray Co., Inc., 16 Pelham Bay Park West, Pelham Manor, N.Y., 47, 72, 78, 90
Tel: PE 8-4346

Bradford Components, Inc., 65 South Ave., Salamanca, N.Y., 26, 29, 37, 53
Tel: 2340

Bradley Industries, 1658 N. Damen Ave., Chicago 47, Ill., 86
Tel: ARmitage 6-8197

Bradley Labs., Inc., 170 Columbus Ave., New Haven 11, Conn., 47, 50, 54
See ad on page 392
Tel: MAin 4-3123

Brady Co., W. H., 704 W. Glendale Ave., Milwaukee 9, Wis., 48, 87, 92
See ad on page 545
Tel: EDgewood 2-8100

Brainin Co., C. S., 318 Washington St., Mt. Vernon, N.Y., 56, 93
See ad on page 425
Tel: MOunt Vernon 8-5500

Bram Metallurgical-Chem., 820 65th Ave., Philadelphia 26, Pa., 21, 26, 32, 33, 71, 83, 86, 93
Tel: WAverly 4-2121

Brand & Co., Inc., Wm., 55 North St., Willimantic, Conn., 83, 87, 89, 95
Tel: HArrison 3-6301

Branson Corp., 41 S. Jefferson Rd., Whippany, N.J., 52, 56, 68
Tel: TUcker 7-1100

Branson Ultrasonic Corp., 25 Brown House Rd., Stamford, Conn., 72, 92
See ad on page 569
Tel: DAvis 4-6721

Braun Tool & Inst. Co., Inc., 140 Fifth Ave., Hawthorne, N.J., 33, 37, 56, 71, 86, 87, 89, 97
Tel: HAwthorne 7-1773

Breeze Corp., Inc., 700 Liberty Ave., Union, N.J., 30, 83
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Brevel Products Corp., 601 W. 26th St., New York 1, N.Y., 44
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Brew & Co., Inc., Richard D., 90 Airport Rd., Concord, N.H., 34
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Tel: CApitol 5-6606

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Bright Star Industries, 600 Getty Ave., Clifton, N.J., 23, 86
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Brilmayer Labs., Inc., E. W., 86 Fulton St., New York 38, N.Y., 68
Tel: BE 3-7914

Bristol Co., P.O. Box 1790 IRE, Waterbury 20, Conn., 20, 21, 25, 31, 42, 52, 57, 58, 68, 69, 70, 72, 74, 81, 87, 92
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British Industries Corp., Wharfedale Loudspeakers, 80 Shore Rd., Port Washington, N.Y., 40, 45, 60

British Physical Labs. of Radlett Herts, England, c/o United Mineral & Chemical Corp., 16 Hudson St., New York 13, N.Y., 72
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Brdcast. Equip. Spec. Corp., P.O. Box 149, Beacon, N.Y., 16
Tel: BEacon 9-4587

Brocker Laboratories, 859 Mango Ave., Sunnyvale, Calif., 21, 47, 67, 77
Tel: REgent 6-8416

Brooks & Perkins, Inc., 1950 W. Fort St., Detroit 10, Mich., 3, 25, 28, 66, 85, 86, 87, 90, 93
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Brooks Research, Inc., P.O. Box 67, Brighton Sta., Rochester 10, N.Y., 12, 21, 34, 41, 47, 56, 68, 70, 72, 77, 78, 79, 81, 85, 90, 91
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Brubaker Electronics, Inc., 3652 Eastham Dr., Culver City, Calif., 34, 52, 59
Tel: TExas 0-6441

Brubaker, Paul M., 100 Essex Ave., Glen Ridge, N.J., 85
Tel: PIlgrim 3-5748

Bruel & Kjaer, Naerum, Denmark, 21, 42, 43, 67, 69, 72, 74, 92
Tel: 800500

Bruno N.Y. Ind. Corp., 460 W. 34th St., New York 1, N.Y., 1, 42, 72, 77, 80, 92
Tel: LOngacre 4-5930

Brunswick-Blake & Collender Co., 623 S. Wabash Ave., Chicago, Ill., 3, 86
Tel: WAbash 2-402

Brunswick Instruments, P.O. Box 813, New Brunswick, N.J., 31, 46, 72, 80, 85, 90
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Brush Beryllium Co., Pennrold Div., 501 Crescent Ave., Reading, Pa., 93
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Tel: TOwnsend 9-3190

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Buck Engineering Co., Inc., 37-41 Marcy St., Freehold, N.J., 25, 28, 72, 86, 90, 92
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Buckeye Bobbin Co., 12200 Sprecher Ave., Cleveland 11, Ohio, 87

Budd-Stanley Co., Inc., 43-01 22nd St., Long Island City, N.Y., 3, 22, 36, 59, 60, 66
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Tel: ADams 2-2161

Burgoyne Testing Labs., 542 Main St., Westbury, N.Y., 90
Tel: ED 3-2151

Burke & James, Inc., 321 S. Wabash Ave., Chicago 4, Ill., 5, 18, 20, 44
Tel: HArrison 7-8393

Burndy Corp., Richards Ave., Norwalk, Conn., 30, 87
Tel: TEmple 8-4711

Burnell & Co., Inc., Dept. P, 10 Pelham Pkwy., Pelham Manor, N.Y., 29, 34, 36, 59
See ad on pages 74-75
Tel: PElham 8-5000

Burnett Radio Lab., W. W. L., 4818 Idaho St., San Diego 16, Calif., 33, 85, 90
Tel: ATwater 2-2740

Burr-Brown Research Corp., Rt. 4 Box 6444, Tucson, Ariz., 21, 42, 67, 72, 90
Tel: AXtel 8-0772

Burroughs Corp., 6071 2nd Ave., Detroit 32, Mich., 19, 20, 32, 48, 70, 74
Tel: TRinity 5-2260

Burroughs Corp., Electrodata Div., 460 Sierra Madre Villa, Pasadena, Calif., 49, 70
Tel: RY 1-0471

Burroughs Corp., Electronic Instr. Div., P.O. Box 1226, Plainfield, N.J.

Burton-Rogers Co., 42 Carleton St., Cambridge 42, Mass., 42, 59
Tel: ELiot 4-1643

Bush Transformer Corp., 707 North St., Endicott, N.Y., 21, 59
Tel: 8-3387

Buss Clement Doughten & Associates, Chester Springs, Chester County, Pa., 90, 98
Tel: TAlmadge 7-2081

Bussmann Mfg. Div., McGraw-Edison Co., University at Jefferson, St. Louis 7, Mo., 37
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Tel: GArfield 1-1740

Byford Labs., Inc., 608 Fayette Ave., Mamaroneck, N.Y., 90
Tel: MAmaroneck 9-8122

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CBS-Hytron Div., CBS, Inc., 100 Endicott St., Danvers, Mass., 54, 61, 62, 63
Tel: SP 4-2360

C. G. Electronics Corp., 15000 Central East, Albuquerque, N.M., 3, 20, 21, 29, 36, 48, 59, 68, 70, 72, 86
Tel: ALpine 6-9858

CGS Labs., Inc., Ridgefield, Conn., 1, 3, 21, 29, 36, 56, 59, 66, 68, 86, 90
Tel: IDlewood 8-6571

C & H Supply Co., 415 E. Beach St., Inglewood, Calif., 86, 87
Tel: ORegon 8-4181

C K Components, Inc., 101 Morse St., Newton 58, Mass., 70
Tel: WA 3-0524

C M Mfg. & Machinery Co., 103 Dewey St., Bloomfield, N.J., 29, 88, 90, 93, 97
Tel: EDison 8-6500

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Tel: PIoneer 6-2310

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Caig Laboratories, 46 Stanwood Rd., New Hyde Park, L.I., N.Y., 91
Tel: PIoneer 2-0278

Cal-Air Engineering, Inc., 1400 S. Santa Fe, Compton, Calif., 21, 36, 47, 58, 70, 72, 81, 85, 86, 90, 92
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Calbest Electronics Co., 4801 Exposition Blvd., Los Angeles 16, Calif., 4, 12, 21, 29, 36, 53, 59, 60, 85, 90
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Calcon Mfg. Co., Inc., 100 Oakland Ave., Washington, Pa., 83, 89, 97
Tel: BAldwin 2-8190

Caledonia Electronics & Transformer Corp., Dept. ID, P.O. Box 98, Caledonia, N.Y., 29, 36, 47, 59
See ad on page 436
Tel: KE 8-4423

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Califone Corp., 1041 N. Sycamore, Hollywood 38, Calif., 9, 45
Tel: HOllywood 2-2353

California Computer Products, 3927 W. Jefferson Blvd., Los Angeles 16, Calif., 47, 70, 74
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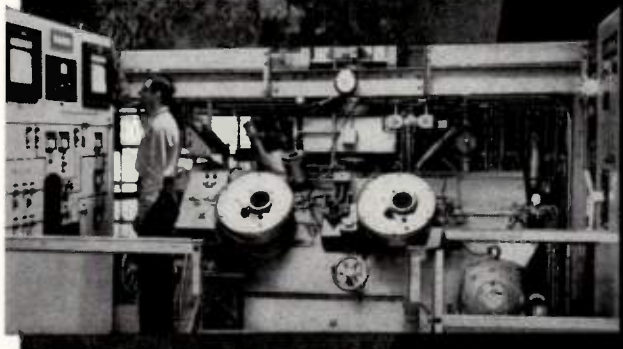
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Tel: TRowbridge 6-2800

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Tel: EXpress 1-4000

Camloc Fastener Corp., 57 Spring Valley Rd., Paramus, N.J., 87
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Tel: HUbbard 9-4900

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Tel: PI 3-6701

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Tel: LEnnox 4-6511

Canadian Marconi Co., 2442 Trenton Ave., Montreal, P.Q., Canada, 1, 3, 4, 10, 11, 13, 14, 15, 17, 21, 45, 85
Tel: RE 8-9441

Canadian Radium-Uranium, 630 Fifth Ave., New York 20, N.Y., 25, 86, 87
Tel: CIrcle 6-0460

Canadian Research Institute, 46 St. George St., Toronto 5, Ont., Canada, 9, 18, 21, 22, 25, 26, 27, 31, 42, 47, 52, 53, 58, 59, 65, 67, 68, 69, 71, 72, 73, 76, 80, 86, 87, 88, 90, 92
Tel: WAlnut 3-2455

Canadian Westinghouse Co., P.O. Box 510, Hamilton, Ont., Canada, 1, 6, 11, 13, 14, 15, 17, 32, 47, 90, 99
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Cannon Electric Co., 3208 Humboldt St., Los Angeles 31, Calif., 30, 56
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Carad Corp., 2850 Bay Rd., Redwood City, Calif., 26, 29, 36, 59
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Carborundum Co., The, Perth Amboy, N.J., 30, 38, 53, 65, 84, 89, 93, 97
Tel: HIllcrest 2-3380

Carborundum Metals Co., P.O. Box 32, Akron, N.Y., 93
Tel: 9454

Cardinal Instrument Corp., 4201 Redwood Ave., Los Angeles 66, Calif., 58, 67
Tel: TExas 0-6731

Cardwell Condenser Corp., 97 Whiting St., Plainville, Conn., 27, 48
Tel: SH 7-2741

Carey Electronic Engrg., 1887 Clifton Ave., Springfield, Ohio, 36, 90
Tel: FA 3-6300

Cargo Packers, Inc., 88th St. & 73rd Ave., Glendale 27, N.Y., 87
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Cedar Engineering, Inc., 5806 W. 36th St., Minneapolis, Minn., 21, 90
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Celco-Constantine Eng. Labs. Co., 70 Island Ave., Mahwah, N.J., 21, 29, 34, 44, 59
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Centronix, Inc., 34 Oleander St., Cocoa, Fla., 20, 21, 24, 28, 35, 39, 47, 48, 70, 73, 74, 86, 90
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Century Electronics & Instrument, 1333 N. Utica St., Tulsa 10, Okla., 72, 73, 74, 79
Tel: LUther 4-7111

Century Plating Co., 229 Ferris Ave., White Plains, N.Y., 86
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Tel: WHite Plains 6-8880

Ceramaseal, Inc., P.O. Box 25, New Lebanon Center, N.Y., 30, 38, 84
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Tel: WEst Lebanon 3-5851

Ceramet Corp., 475 W. 216th St., New York 34, N.Y., 84
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Ceramic Specialties Co., 444 W. 6 St., East Liverpool, Ohio, 84, 89
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Tel: VAlley 1-4121

Cherry Electrical Products, 1650 Deerfield Rd., Deerfield, Ill., 56
Tel: ID 2-8182

Chesapeake Instrument Corp., Shadyside, Md., 21, 43, 67, 70, 73, 77
Tel: UN 7-2151

Chester Cable Corp., P.O. Box 316, Chester, N.Y., 83
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Tel: HOmestead 9-2141

Chicago Aerial Industries, Inc., 1980 Hawthorne Ave., Melrose Park, Ill., 8, 16, 20, 53, 68, 70
Tel: ESterbrook 9-1322

Chicago Condenser Corp., Dept. A, 3255 W. Armitage Ave., Chicago 47, Ill., 1, 15, 21, 26, 31, 36, 47, 59, 90, 92
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Chicago Magnetic Control, 1616 North Damen Ave., Chicago 47, Ill., 21, 29, 36, 59
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Tel: ARmitage 6-7400

Chicago Miniature Lamp Works, 1508 N. Ogden Ave., Chicago 10, Ill., 46
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Chicago Standard Transformer Corp., 3514 W. Addison St., Chicago 18, Ill., 29, 36, 47, 59, 65
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Chicago Tel. of Calif., Inc., 105 Pasadena Ave., South Pasadena, Calif., 22, 29, 53, 59
Tel: CLinton 5-7186

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Tel: 3-0310

Chilton Publishing Co., Chestnut & 56th St., Philadelphia 39, Pa., 99
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Chisholm Industries, Ltd., Electronic Ave., Port Moody, B.C., Canada, 3, 4, 7, 11, 13, 21, 25, 28, 35
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Ciba Co., Inc., Plastics Div., Kimberton, Pa., 91
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Circuit Engineering, 66 Westland Rd., Weston 93, Mass., 85
Tel: TWinbrook 4-6071

Circuit Instruments, Inc., 2801 Anvil St., St. Petersburg, Fla., 53
Tel: DI 2-8051

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Clark Cable Corp., 3190 W. 33rd St., Cleveland 9, Ohio, 83, 86
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Cleveland Container Co., 6201 Barberton Ave., Cleveland 2, Ohio, 87, 89, 95
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Cleveland Graphite Bronze Co., 17000 St. Clair Ave., Cleveland 10, Ohio, 87, 93
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Clevite Electric Components, 3311 Perkins Ave., Cleveland 14, Ohio, 33, 36, 58
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Continental Electronics Mfg., 4212 S. Buckner Blvd., Dallas 27, Texas, 1, 3, 5, 12, 13, 14, 15, 17, 20, 21, 26, 28, 29, 34
Tel: EV 1-1137
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Tel: COlony 9-1421
Control Data Corp., 501 Park Ave., Minneapolis 15, Minn., 20, 21, 44, 48, 68, 70, 81, 86, 90, 92
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Control Devices, Inc., 8299 Nine Mile Rd., Warren, Mich., 47, 59, 69, 72, 90
Tel: SLocum 8-4444
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See ads on pages 343, 507
Tel: HAmilton 7-7961
Control Products, Inc., 306 Sussex St., Harrison, N.J., 56, 57
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Tel: SP 4-2200
Cook Labs., Inc., 101 Second St., Stamford, Conn., 45
Tel: FIreside 8-7578
Cooper & Sons, J. B., 25 W. 47 St., New York, N.Y., 83, 93, 96
Tel: JUdson 2-3095
Co-operative Industries, Inc., 100 Oakdale Rd., Chester, N.J., 66, 83, 87, 94
Tel: CHester 255
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Tel: CR 9-4533
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Tel: BArclay 7-5140
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Tel: ES 7-6112
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Tel: UNion 6-4227
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Tel: CA 7-1500
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Tel: YUkon 6-9696
Cosmic Condenser Co. & Cosmic Radio Corp., 853 Whittier St., New York 59, N.Y., 26
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Tel: LUdlow 9-3360
Cosmo Engrg. Labs., Inc., Mountain Ave., Hackettstown, N.J., 31, 68
Tel: GArden 5-5716
Cossor-Canada-Ltd., 301 Windsor St., Halifax, N.S., Canada, 3, 9, 21, 25, 28, 29, 66, 77, 79, 80, 82, 85, 86, 90
Tel: 4-6487
Coto-Coil Co., Inc., 74 Pavilion Ave., Providence 5, R.I., 29
See ad on page 312
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Tel: 7991

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Tel: LOcust 4-3131

Dales Co., The Franklin, 180-184 East Mill St., Akron 8, Ohio, 56, 57
Tel: POrtage 2-7236

Dallons Labs., Inc., 5066 Santa Monica Blvd., Los Angeles 29, Calif., 21, 22, 33, 34, 38, 42, 58, 72, 76, 79, 85, 86, 90, 92
Tel: NO 4-1951

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Tel: PI 8-3549

Daniels, Inc., C. R., Daniels, Md., 89
Tel: ELlicott City 1200

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Tel: ELk Ridge 90

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Tel: BAldwin 3-7618

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Tel: AStoria 8-1040

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Tel: OWens 9-3232

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Tel: UNion 7-1599

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Tel: SYcamore 2-4142

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Tel: WInchester 6-3703

Devol Research Co., Brookside Dr., Greenwich, Conn., 20, 21, 36, 68, 70, 85, 90, 92

Devry Technical Institute, 4141 Belmont Ave., Chicago 41, Ill., 98
Tel: KIldare 5-2700

Devtronics, Inc., 1995 Spruce St., Trenton 8, N.J., 68, 71
Tel: EX 6-3543

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Tel: MUrray Hill 2-7369

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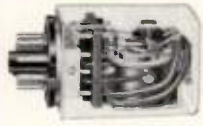
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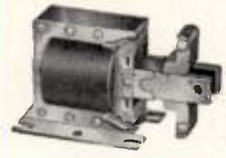

M.A.S.

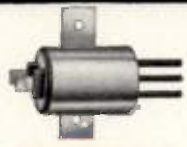
SOLENOIDS


NO. 1G


NO. 22


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NO. 18

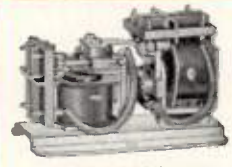


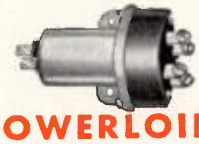
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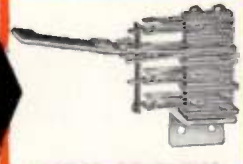
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B-5B


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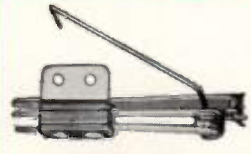
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Digitronics Corp., Albertson Ave., Albertson, N.Y., 16, 20, 34, 49, 59, 70, 81, 85
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Dilectrix Corp., Allen Blvd., Farmingdale, L.I., N.Y., 89, 95
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Direct TV Replacements, 138 Lewisham Way, New Cross, London, SE 14, England, 29, 59, 86
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Dolph Co., John C., New Rd., Monmouth Junction, N.J., 91
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Dominion Electrohome Industries, 809 Wellington St. North, Kitchener, Ont., Canada, 4, 21, 42, 44, 52, 60, 68, 72, 78, 88, 92
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Don Mar Products, Inc., P.O. Box 8396, Denver 10, Colo., 39, 87

Donnelly Mfg. Co., 580 Winter St., Waltham 54, Mass., 25, 86
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Donner Scientific Co., 888 Galindo St., Concord, Calif., 21, 47, 58, 67, 70
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Dormeyer Industries, Inc., 3418 W. Milwalkee Ave., Chicago 41, Ill., 29, 56, 59
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Dorne & Margolin, Inc., 29 New York Ave., Westbury, N.Y., 1, 3
Tel: ED 4-3200

Dorsett Labs., Inc., 401 E. Boyd St., Box 862, Norman, Okla., 20, 68, 70, 85, 90, 98

Doty Acoustical Elec. Lab., 431 Broome St., New York 13, N.Y., 9, 12, 18, 21, 48, 70, 85, 86, 90
Tel: WA 5-1536

Double E Products Co., 208 Standard St., El Segundo, Calif., 26, 29, 32, 34, 36, 48, 85, 86, 90
Tel: EAstgate 2-2501

Douglas Aircraft Corp., 3000 Ocean Park Blvd., Santa Monica, Calif., 90
Tel: OLive 3-0300

Douglas Microwave Co., Inc., Dept. RE-8, 252 E. 3rd St., Mt. Vernon, N.Y., 22, 36, 59, 60, 66, 77
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Tel: MOunt Vernon 8-6900

Douglas Radio Labs., 176 Norfolk Ave., Boston 19, Mass., 47, 90
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Code Numbers TELL YOU

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Dow Corning Corp., P.O. Box 592, Midland, Mich., 89, 91, 95
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Du-Co Ceramics Co., Saxonburg 8, Pa., 32, 84, 87, 89
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Dumont Airplane-Marine Instrument Corp., 15 Williams St., New York 5, N.Y., 26
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Tel: AT 8-0801

Dunn Engineering Assoc., 225 O'Brien Hway, Cambridge 41, Mass., 48, 60, 70, 72, 85, 86, 90, 99
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Duode, Ltd., 3 Newman Yard., London, W. 1, England, 40
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Duotone Co., Inc., Locust St., Keyport, N.J., 40, 43, 45, 49
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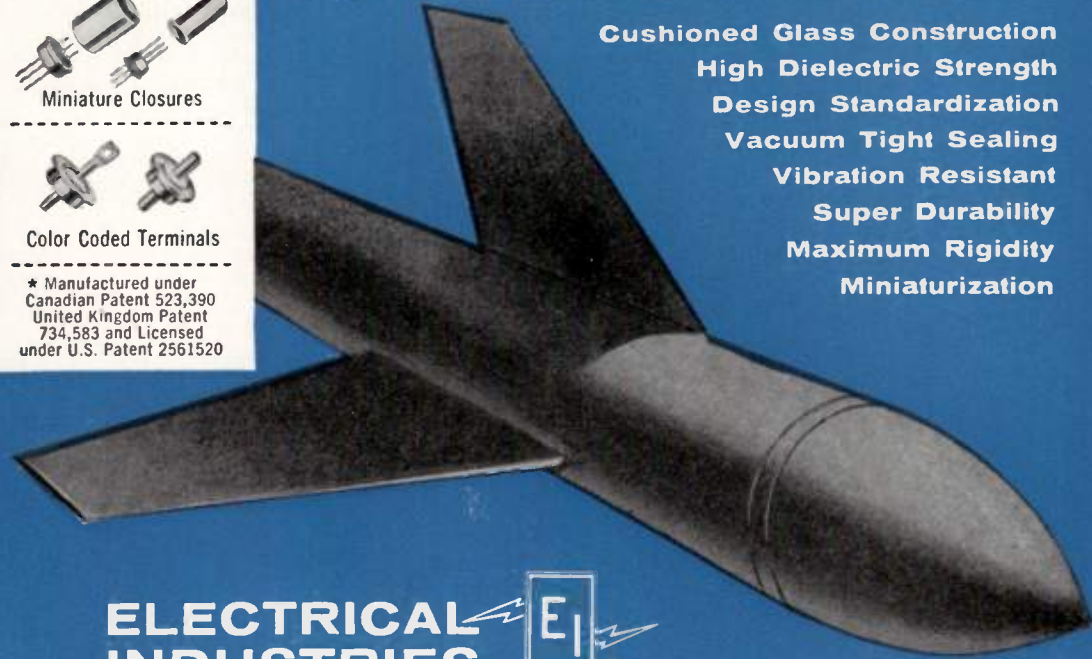
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Du Pont de Nemours, E. I., Pigments Dept., 10th & Market Sts., Wilmington, Del., 54
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Dzus Fastener Co., Inc., P.O. Box 185, 87
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E A K Research Lab., P.O. Box 62, Tarrytown, N.Y., 47, 59, 62, 72, 78, 92
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E B Metal Products Co., 12-12 Bridge Plaza South, Long Island City 1, N.Y., 25, 28, 86
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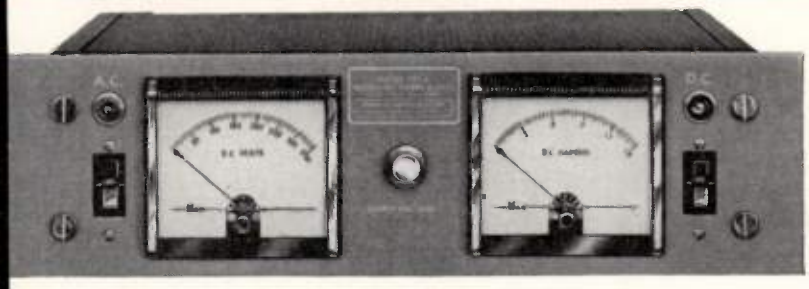
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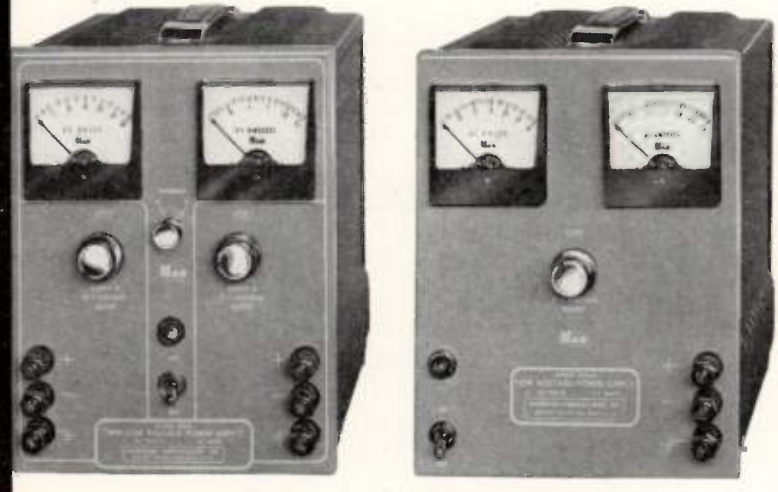
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Eidson Electronic Co., 1902 N. Third St., Box 31, Temple, Tex., 90
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Eisler Engrg. Co., Inc., 750 S. 13th St., Newark 3, N.J., 59, 68, 88, 92
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Electrical Communication, Inc., 555 Minnesota, San Francisco 7, Calif., 11, 19, 47, 68
Tel: MArket 1-2643

Electrical Industries, Div. Philips Electronics, Inc., 691 Central Ave., Murray Hill, N.J., 30, 38, 55, 86, 87, 97
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Tel: CRestview 7-4300

Electrical Insulation Co., Inc., 1245 Marconi Blvd., Copiague, N.Y., 86, 87, 89, 95
Tel: AMityville 4-6190

Electrical Mfrs. Service, 265 Church St., New Haven, Conn., 94
Tel: UNiversity 5-9104

Electrical & Physical Instrument Co., 42-19 27th St., Long Island City 1, N.Y., 21, 22, 70, 72, 77, 78, 83
Tel: STillwell 4-6389

Electrical Refractories, 50 Clark St., East Palestine, Ohio, 32, 84
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Electrical Testing Lab., 2 E. End Ave., New York 21, N.Y., 90
Tel: BUtterfield 8-2600

Electrical Tower Service, 325 S. Washington St., Peoria, Ill., 3
Tel: PEoria 3-9846

Electrical Utilities Co., 2423 St. Vincents Ave., La Salle 5, Ill., 26
Tel: LA Salle 1732

Electrical Windings, Inc., 2015 N. Kolmar Ave., Chicago 39, Ill., 29, 59
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Electri-Cord Mfg. Co., Inc., 2554 E. 18th St., Brooklyn 35, N.Y., 83
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Electro-Capacitors Co., 10132 Edes Ave., Oakland 3, Calif., 26
Tel: LOckhaven 8-7910

Electro-Ceramics, Inc., 975 E. Fifth, Salt Lake City 2, Utah, 32, 84, 85, 87, 89, 90, 97
Tel: EMpire 3-2823

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Tel: LUdlow 8-9000

Electro Data Corp., 460 Sierra Madre Villa, Pasadena, Calif., 70
Tel: RYan 1-0471

Electro Development Corp., 3939 University Way, Seattle 5, Wash., 14, 15, 29, 31, 47, 59, 68
Tel: ME 3-3094

Electro Devices, Inc., 580 Main St., Wilmington, Mass., 92
Tel: WInchester 6-2851

Electro Devices, Inc., 4-6 Godwin Ave., Paterson 1, N.J., 68, 81

Electro Engrg. Prods. Co., 609 W. Lake St., Chicago 6, Ill., 31, 44, 47
Tel: CE 6-2670

Electro Engineering Works, 401 Preda St., San Leandro, Calif., 29, 41, 47, 59
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Electro-Flex Heat, Inc., 83 Woodbine St., Hartford 6, Conn.

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Tel: SHadyside 1-0404

Electro Instruments, 3794 Rosecrans St., San Diego 10, Calif., 42, 53, 68, 70, 72, 74
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Tel: CH 6-3332

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Tel: STillwell 6-3402

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Electro Mechanical Research, P.O. Box 3041, Sarasota, Fla., 20, 21
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Tel: WIllimantic 3-4551

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Electronic Applications, 194 Richmond Hill Ave., Stamford, Conn., 4, 40, 69, 77
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Tel: RE 6-6339

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Electronic Control Corp., 1573 E. Forest, Detroit 7, Mich., 21, 52, 58, 68, 76
Tel: TEmple 2-6625

Electronic Design, 830 Third Ave., New York 22, N.Y., 99
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Electronic Equip. Engrg., 172 S. Broadway, White Plains, N.Y., 99
Tel: White Plains 9-8500

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Tel: SPring 7-4900

Electronic Instrument Co., 33-00 Northern Blvd., Long Island City 1, N.Y., 21, 31, 42, 56, 60, 69, 72, 80, 82
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Electronic Parts Mfg. Co., 508 25th St., Union City, N.J., 86, 93, 97
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Tel: 7-7063

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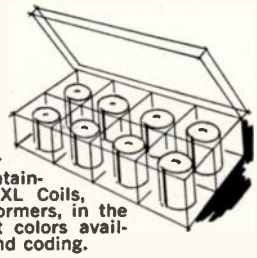
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Elgin Metalformers Corp., Dept. 1227, 630 Congdon Ave., Elgin, Ill., 25, 28
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Elgin National Watch Co., 107 National St., Elgin, Ill., 52
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Engelhard Industries, Inc., 113 Astor St., Newark 2, N.J., 3, 30, 32, 33, 42, 51, 56, 57, 66, 68, 71, 72, 83, 84, 86, 88, 93, 96
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Tel: BIgelow 3-0030

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AC Excitation Volts	5.5 V. @ 400 cps	2.5 V. @ 400 cps	6 V. RMS
Input DC Signal Range	0 to ±100 μa.	0 to ±80 μa.	0 to ±10 mv.
AC Output Range	0 to 2.2V. @ 400 cps (sine wave)	0 to 1.5V. @ 400 cps (sine wave)	0 to 2.7V. @ 400 cps (sine wave)
Overall Dimensions (Inches)	27/32x27/32x1 5/16	27/32x27/32x1 3/16	1 1/4x7/8x5/8
Null Amplitude (Noise Level)	20 mv. RMS	15 mv. RMS max.	25 mv. RMS max.
Output Impedance	7000 ohms	7000 ohms	10,000 ohms
Null Drift (In terms of input signal) −65°C to +100°C	±0.5 μa. max.	±0.5 μa. max.	±0.1 mv. max.
Hysteresis — % of maximum input signal	0.5% maximum	0.5% maximum	0.5% maximum
Type of Mounting	Male Stud	Female Insert	Male Stud
Maximum % Distortion in Output	25%	15 %	20%
Weight Ounces	1.3 oz.	1.2 oz.	1.5 oz.

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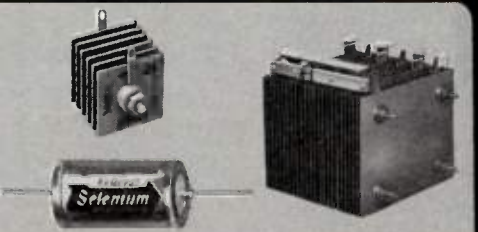
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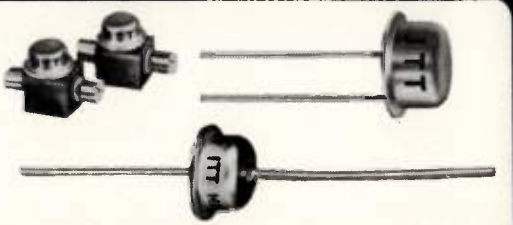
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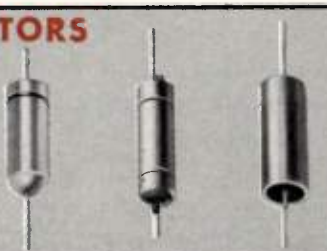
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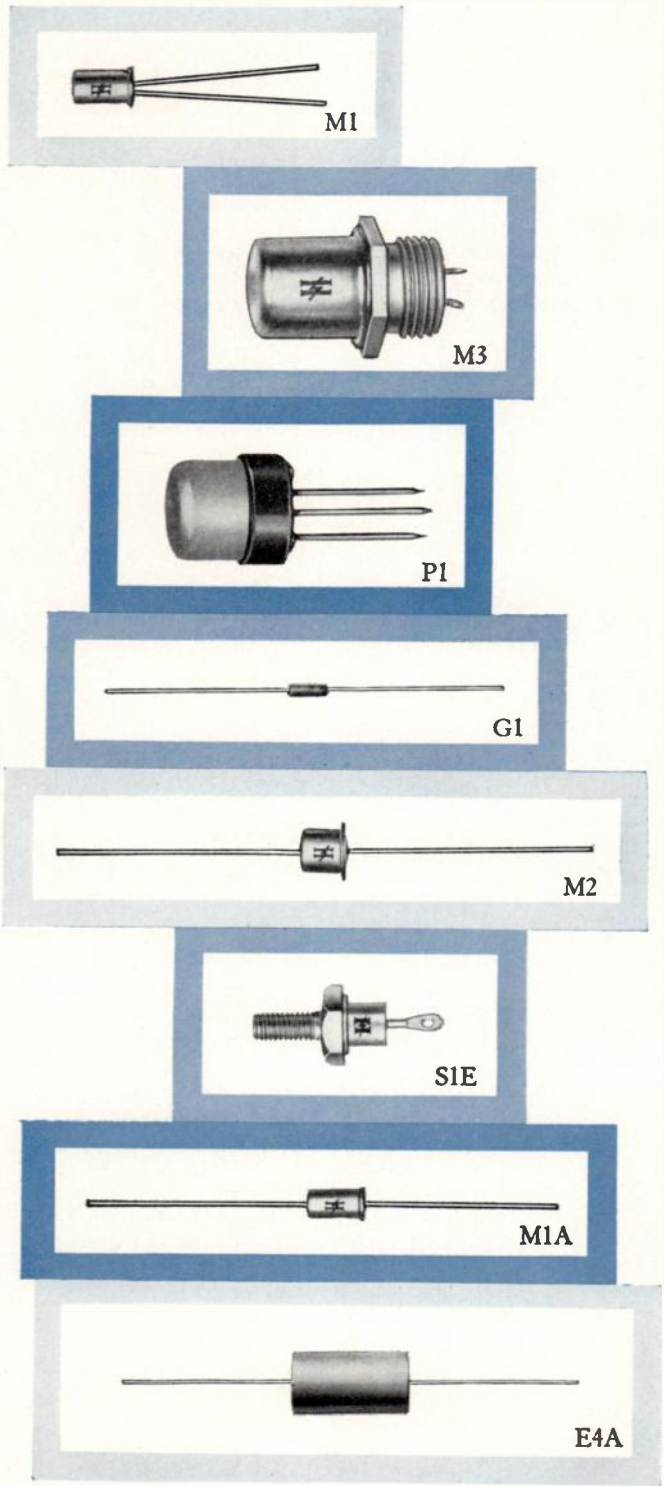
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See ad on page 377
Tel: TYrone 2-6490

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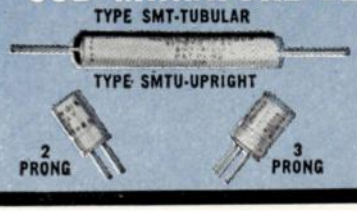
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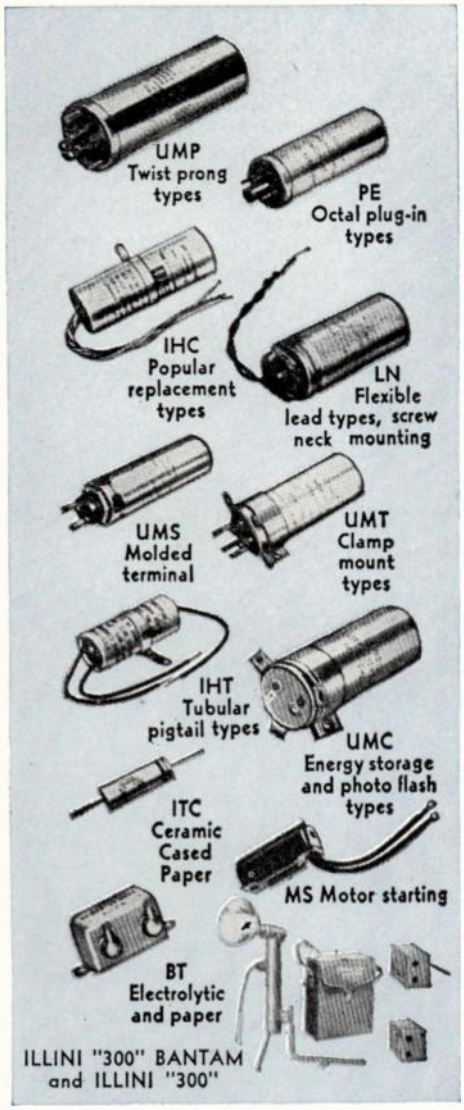
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Tel: CHesapeake 3-1100

Guaranteed Welding Eng., Inwood & Circle Ave., Clifton, N.J., 3, 25, 28, 72, 86, 92
Tel: GR 1-2111

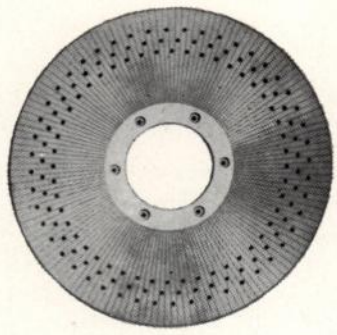
Gudebrod Bros. Silk Co., Inc., 225 W. 34th St., New York 1, N.Y., 87
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Tel: LAckawanna 4-5858

Gudeman Co., 340 W. Huron St., Chicago 10, Ill., 26, 34, 36, 59
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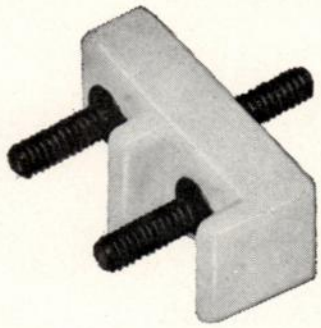
Gudeman Co. Dilectron Div., 2669 S. Myrtle, Monrovia, Calif., 26, 34, 59
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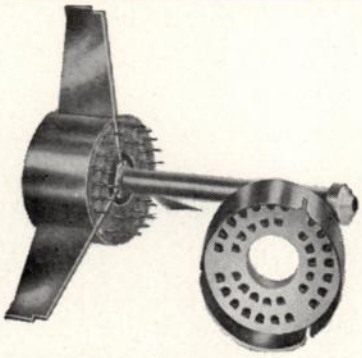
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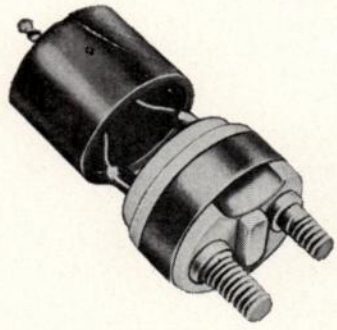
HIGH-TEMPERATURE AIRCRAFT TERMINAL BLOCK|SUPRAMICA 560



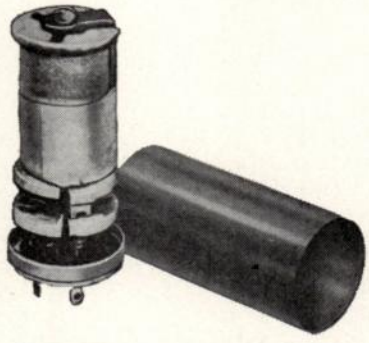
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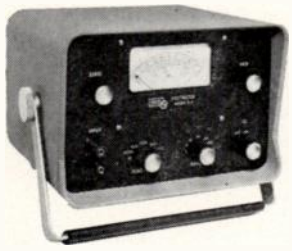
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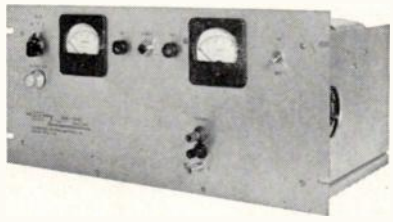


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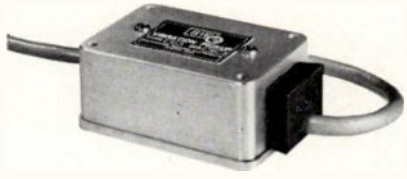
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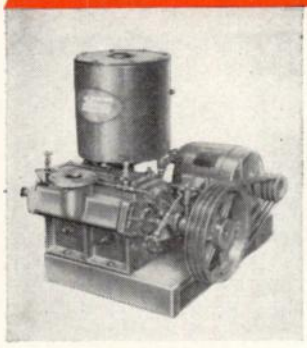
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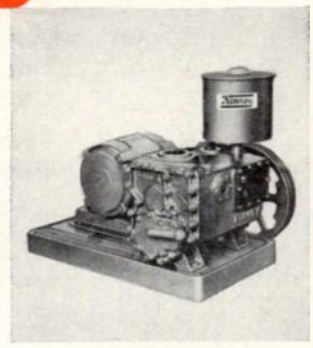
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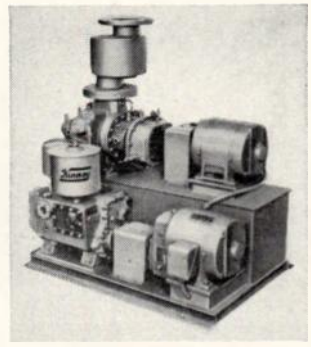
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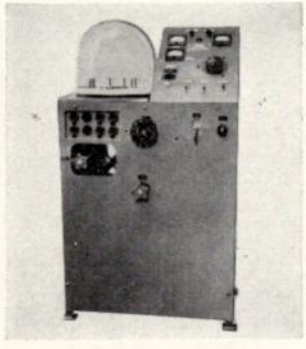
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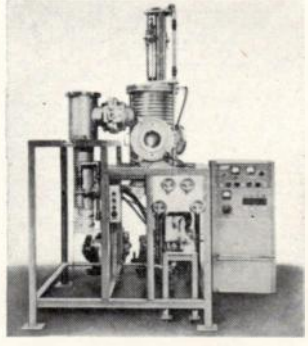
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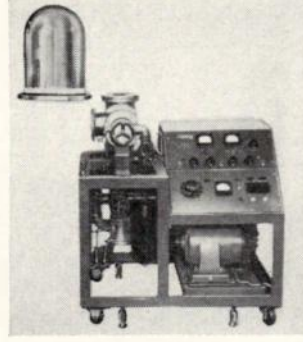
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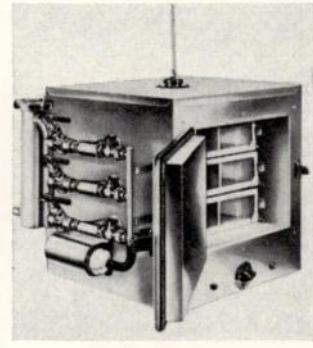
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Integrated Mica Corp., 202 Franklin Pl., Woodmere, N.Y., 89
Tel: FRanklin 4-2350

Intelex Systems, Inc., 22 Thames St., New York 6, N.Y., 1, 13, 14, 15, 17, 19, 26, 32, 33, 40, 43, 44, 52, 54, 61
Tel: BO 9-3800

Intelligent Mach. Res. Co., 7019 Edsall Rd., Alexandria, Va., 70
Tel: FL 4-5000

Interchemical Corp., 120 Potter St., Cambridge 42, Mass., 91
Tel: UN 4-0375

Intercont. Dynamics Corp., 170 Coolidge Ave., Englewood, N.J., 68, 72
Tel: LOwell 7-360

Intercontinental Elecns., 1551 Franklin Ave., Mineola, N.Y., 4, 5, 6, 7, 11, 12, 13, 14, 15, 17, 18, 70, 72
Tel: PIoneer 6-5010

Interelectronics Corp., 2432 Grand Concourse, New York 58, N.Y., 9, 20, 21, 23, 29, 31, 35, 36, 44, 47, 59, 65, 76
See ads on pages 268, 376
Tel: LUdlow 4-6200

Interference Measurement Lab., 907 E. 51st St., Brooklyn 3, N.Y., 36, 90
Tel: INgersoll 9-1765

Interference Test Lab., 150 Causeway St., Boston 14, Mass., 42, 80
Tel: LAfayette 3-7826

International Business Machine Corp., 590 Madison Ave., New York, N.Y., 68, 70
Tel: PLaza 3-1900

International Co., Inc., 45 Urban Ave., Westbury, L.I., N.Y., 18, 71, 86
Tel: EDgewood 3-2232

International Crystal Mfg. Co., 18 N. Lee St., Oklahoma City, Okla., 2, 12, 33, 60, 72, 80, 82
Tel: REgent 6-3741

International Eastern, 801 Sixth Ave., New York 1, N.Y., 92
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Tel: ALgonquin 5-3296

International Electronic Research Corp., 145 W. Magnolia Blvd., Burbank, Calif., 97
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Tel: VIctoria 9-2481

International Elecns. Corp., 81 Spring St., New York 12, N.Y., 5, 11, 17, 32, 40, 49, 51, 54, 58, 79
Tel: WOrth 6-0790

International Elecns. Ind., Inc., Box 1368, Nashville, Tenn., 26
Tel: CY 8-4411

International Fermont Machinery Co., Inc., Ramapo, N.Y., 47
Tel: SLoatsburg 3-2796

International Instruments, Inc., P.O. Box 2954, New Haven 15, Conn., 42, 56
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Tel: FUlton 7-2515

International Nickel Co., Inc., 67 Wall St., New York 5, N.Y., 93
Tel: WHitehall 4-1000

International Physical Index, 1909 Park Ave., New York 35, N.Y., 99
Tel: LEhigh 4-8412

International Pump & Mach. Wk., 81 Dorsa Ave., Livingston, N.J., 71, 72, 86, 88, 90, 92
Tel: LI 6-0660-1

International Radiant Corp., 111 New York Ave., Westbury, N.Y., 71
Tel: ED 4-8820

International Radio & Elecnc., Rt. #4, Box 261, Elkhart, Ind., 49
Tel: 2-8583

International Rectifier Corp., 1521 E. Grand Ave., El Segundo, Calif., 21, 23, 50, 54
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Tel: OREgon 8-6281

International Register Co., 2620 W. Washington Blvd., Chicago 12, Ill., 56, 68
Tel: VAn Buren 6-4242

International Resistance Co., 12970 Bradley Ave., Sylmar, Calif., 21, 29, 31, 35, 36, 47, 53, 59, 69, 81
Tel: EMpire 7-2121

International Resistance Co., 401 N. Broad St., Philadelphia 8, Pa., 21, 22, 29, 34, 36, 50, 53, 59, 65, 69, 81
Tel: WA 2-2166

International Telemeter Corp., 2000 Stoner Ave., Los Angeles 25, Calif., 34, 83
Tel: GR 8-7751

International Telephone & Telegraph Corp., 500 Washington Ave., Nutley, N.J., 90
Tel: NOrth 1-1100

International Telephone & Telegraph Corp., Federal Instruments, Industrial Prods. Div., 250 Garibaldi Ave., Lodi, N.J., 21, 22, 42, 67, 69, 72, 75, 77, 79, 80
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Tel: PRescott 3-1550

International Telephone & Telegraph Corp., Federal Tel. & Radio Co., 100 Kingsland Rd., Clifton, N.J., 1, 3, 11, 14, 15, 77, 80
Tel: NUtley 2-3600

International Telephone & Telegraph Corp., ITT Components Div., P.O. Box 412, Clifton, N.J., 26, 38, 50, 51, 54, 56, 62, 63
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International Telephone & Telegraph Corp., Industrial Prods. Div., San Fernando, Calif., 4, 5, 11, 12, 18, 21, 31, 47, 70
Tel: EMpire 7-6161

Interscience Publishers, 250 Fifth Ave., New York 1, N.Y., 99
Tel: LE 2-1727

Interstate Cable & Connector Co., 227 Fulton St., New York 7, N.Y., 26, 27, 30, 39, 53, 83, 89
Tel: BE 3-8780

Interstate Electronics, Inc., 227 Fulton St., New York 7, N.Y., 26, 100
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Invar Electronics Co., 1749 N. Eastern Ave., Los Angeles 32, Calif., 20, 47, 75, 82
Tel: AN 9-7759

Invengineering, Inc., P.O. Box 360, Belmar, N.J., 85, 90
Tel: PRospect 5-6800

Investment Casting Co., 60 Brown Ave., Springfield, N.J., 86
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Iron Fireman Mfg. Co., 2838 S.E. 9th, Portland 2, Ore., 30, 52, 68
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Islip Trans. & Metal Co., Beech St., Islip, N.Y., 29, 36, 59
Tel: JUniper 1-0960

Isolantite Mfg. Corp., Warren Ave., Stirling, N.J., 32, 38, 84, 87, 89, 94, 97
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J-B-T Instruments, Inc., 441 Chapel St., New Haven 8, Conn., 38, 42, 56, 72, 87
Tel: STate 7-5825

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Tel: MA 3-4377

JFD Electronics Corp., 1462 62nd St., Brooklyn 19, N.Y., 3, 27, 29, 60
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Tel: DEwey 1-1000

J-V-M Microwave Co., 9305 W. 47th St., Brookfield, Ill., 3, 14, 15, 21, 22, 36, 47, 52, 56, 60, 66, 77
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Tel: HUnter 5-2000

Jablo Plastice Ind., Ltd., Mill Lane Waddon., Croydon, Surrey, England, 89, 95

Jack & Heintz, Inc., 17600 Broadway Ave., Cleveland 1, Ohio, 44, 47, 48, 52, 56, 59, 65, 68, 81, 85, 86, 90, 91
Tel: MOntrose 2-1000

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Tel: BAldwin 4-0367

Jacksonville Metal & Plastics Co., 575 Dora St., Jacksonville 4, Fla., 86, 87
Tel: ELgin 6-4884

Jacobs Instrument Co., 4718 Bethesda Ave., Bethesda 14, Md., 34, 70, 75, 77, 78, 86, 90
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Tel: SUnset 5-3400

Jan Hardware Mfg. Co., Inc., 75 N. 11th St., Brooklyn, N.Y., 25, 30, 61, 72, 81, 86, 87, 89, 90, 94, 97
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Jansen Elecncs. Mfg. Inc., 2285 University Ave., St. Paul 14, Minn., 86
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Jansky & Bailey, Inc., 1339 Wisconsin Ave. N.W., Washington 7, D.C., 7, 76, 85, 86, 90
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Jarrell-Ash Co., 26 Farwell St., Newtonville, Mass., 72, 76, 90
Tel: DEcatur 2-2130

Jarvis Electronics Corp., 1140 Cherry St., Winnetka, Ill., 1, 85, 90
Tel: WI 6-1255

Javex, P.O. Box 646, Redlands, Calif., 3, 22, 30, 33, 39, 55, 56, 94
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Tel: POrtsmouth 7-7600

Jerrold Electronics Corp., Dept. 23, Jerrold Bldg., 15th & Lehigh, Philadelphia 32, Pa., 3, 4, 5, 21, 22, 30, 36, 47, 56, 80, 82
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Jetronic Industries, Main & Cotton Sts., Philadelphia 27, Pa., 68, 86, 90
Tel: IVyridge 2-7660

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Johns Hopkins University, 6935 Arlington Rd., Bethesda, Md., 90
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Johns-Manville Corp., Dutch Brand Div., 7800 Woodlawn Ave., Chicago 19, Ill., 49, 89
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Johnson-Williams, Inc., 2625 Park Blvd., Palo Alto 30, Calif., 72
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Jonathan Mfg. Co., 720 E. Walnut Ave., Fullerton, Calif., 28
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Jones Elecns. Co., M. C., 185 N. Main St., Bristol, Conn., 3, 66, 77, 80
Tel: LUdlow 2-6388

Jones & Lamson Mach. Co., 160 Clinton St., Springfield, Vt., 72, 92
Tel: TUrner 5-2121

Jordan Co., Inc., 3235 W. Hampton Ave., Milwaukee 9, Wis., 68, 81
Tel: UPtown 1-3200

Jordan Electronics, Inc., 3025 W. Mission Rd., Alhambra, Calif., 78

Joy Mfg. Co., Oliver Bldg., Pittsburgh 22, Pa., 24, 30, 92
Tel: GRant 1-2170

Joy Mfg. Co.-Elec. Prod. Div., 1201 Macklind Ave., St. Louis 10, Mo., 30
Tel: MIssion 5-6670

Joyro Associates, 488 Latham Rd., Mineola L.I., N.Y., 92
Tel: PIoneer 6-4007

Juall Gear Co., Inc., 1108 Goffle Rd., Hawthorne, N.J., 81
Tel: HA 7-4220

Julie Research Labs. Inc., 556 W. 168th St., New York 32, N.Y., 22, 53, 69, 70
Tel: LO 8-8700

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K-F Development Co., 2606 Spring St., Redwood City, Calif., 2, 53
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Kahle Engineering Co., 1358 Seventh St., North Bergen, N.J., 92
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Kahn Research Lab., 22 Pine St., Freeport, N.Y., 17
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Kaiser Aircraft-Elecns., P.O. Box 437, Toledo 1, Ohio, 1, 2, 11, 13, 17, 31, 47, 68, 70, 86, 90
Tel: RAndolph 6-1591

Kaiser Aluminum & Chem., 919 N. Michigan Ave., Chicago 11, Ill., 83, 93

Kalite Technical Co., 715 Mattison Ave., Asbury Park, N.J., 99
Tel: PRospect 4-2100

Kall, Albert R., 431 W. Tabor Rd., Philadelphia 20, Pa., 85, 90
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Kama Instrument Corp., 134 Herricks Rd., Mineola, L.I., N.Y., 3, 14, 15, 22, 36, 42, 47, 53, 60, 66, 67, 69, 77, 79, 80

Kane & Co., J. V., 1004 Cloverhill Rd., Wynnewood, Pa., 72

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Kanthal Corp., Amelia Pl., Stamford, Conn., 88, 93

Kapitol Magnetic Corp., 3322 W. Lawrence, Chicago 25, Ill., 29, 36, 59

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Kato Engineering Co., 1415 First Ave., Mankato, Minn., 31
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Kay Electric Co., Dept. ID-9, Maple Ave., Pine Brook, N.J., 5, 8, 22, 35, 42, 47, 67, 72, 74, 77, 80, 82
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Kaynar Mfg. Co., Inc., Box 2001 Terminal Annex, Los Angeles 54, Calif., 87
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Tel: GRegory 2-1000

Kearfott Co., Inc., Microwave Div., Dept. 24J, 14844 Oxnard St., Van Nuys, Calif., 3, 21, 22, 32, 36, 47, 56, 59, 60, 66, 77, 80, 84
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Tel: STate 6-1760

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Keisers Ind., Inc., Lauman St. P.O. Box 42, Mt. Holly Springs, Pa., 83
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Keithley Instruments, Inc., 12415 Euclid Ave., Cleveland 6, Ohio, 21, 42, 47, 68, 69, 72
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Kellogg Switch Bd. & Sup., 6650 S. Cicero Ave., Chicago 38, Ill., 9, 14, 15, 29, 37, 39, 44, 52, 53, 56, 83
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Kemtron Electron Prods., 14 Prince Pl., Newburyport, Mass., 33, 50, 54
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Kenwood Engrg. Co., Inc., 265 Colfax Ave., Kenilworth, N.J., 3, 63, 87
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Kenyon Transformer Co., 840 Barry St., New York 59, N.Y., 21, 31, 47, 59, 65
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Kessler Co., Frank, 41-45 47th St., Long Island City 4, N.Y., 59

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Keystone Carbon Co., 1935 State St., St. Marys, Pa., 53, 93
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Kidde & Co., Walter, 675 Main St., Belleville 9, N.J., 68, 86
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Kimble Glass Co., P.O. Box 1035, Toledo 1, Ohio, 97
Tel: CHerry 2-6543

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Tel: EXbrook 5-9975

King Laboratories, Inc., 127 Solar St., Syracuse 4, N.Y., 86, 93, 97
Tel: GRanite 4-3359

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Kingsley Stamping Mach., 850, Cahuenga Blvd., Hollywood 38, Calif., 86, 92
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Tel: ROgers 4-7910

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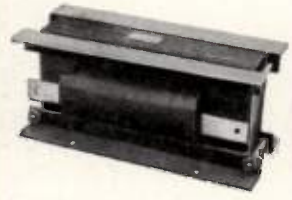
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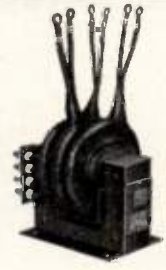
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Tel: BRowning 7-6700

Kip Electronics Corp., 29 Holly Place, P.O. Box 562, Stamford, Conn., 61, 62, 85, 90
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Tel: COlumbus 5-0130

Klein Electronics, Leo., 2404 S. La Brea, Los Angeles 16, Calif., 92
Tel: WE 5-3119

Kleinschmidt Labs., Inc., County Line Rd., Deerfield, Ill., 19
Tel: WIndson 5-1000

Kling Metal Spinning Co., 247 Centre St., New York 13, N.Y., 86
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Kollmorgan Optical Corp., 347 King St., Northampton, Mass., 71, 81
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Tel: NEwtown 9-2900

Kolton Electric Mfg. Co., 123 New Jersey R.R. Ave., Newark 5, N.J., 37, 59, 87
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Koppers Co., Inc., Koppers Bldg., Pittsburgh 19, Pa., 95
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Kreckman Co., Herb, Kreco Antennas, Cresco, Pa., 3
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Krengel Mfg. Co., Inc., 227 Fulton St., New York 7, N.Y., 86, 87, 97
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Kulite Tungsten Corp., 1040 Hoyt Ave., Ridgefield, N.J., 32, 83, 86, 93, 97
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Kulka Electric Corp., 633-643 S. Fulton Ave., Mt. Vernon, N.Y., 30, 37, 46, 55, 56, 57, 66, 86, 87, 97
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Kurz-Kasch, Inc., 1421 S. Broadway, Dayton 1, Ohio, 86, 87, 94
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Kuss Ind., Inc., Tacony & Lewis Sts., Philadelphia 24, Pa., 3, 18, 21, 25, 28, 81, 83, 86, 90, 92
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Kwikheat Mfg. Co., 3732 San Fernando Rd., Glendale 4, Calif., 92
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Kuthe Labs., Inc., 730 S. 13th St., Newark, N.J., 62
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L.A.B. Corp., 990 Onondaga, Skaneateles, N.Y., 72, 92
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L.E.E., Inc., 625 New York Ave. N.W., Washington 1, D.C., 16, 31, 40, 47, 85
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L E L, Inc., 380 Oak St., Copiague, L.I., N.Y., 7, 21
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LMB, 1101 Venice Blvd., Los Angeles 15, Calif., 25

L & O Research & Develop., 1952 E. Allegheny Ave., Philadelphia 34, Pa., 8, 21, 34, 59, 67, 72, 74, 76
Tel: NEbraska 4-7174

L & R Mfg. Co., 577 Elm St., Arlington, N.J., 44, 92
Tel: WYman 1-5330

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Tel: HUbbard 2-3460

Labko Scientific, Inc., 111 W. Elm, Box 831, Stillwater, Okla., 21, 47, 48, 85, 86, 90
Tel: FRontier 2-7167

Laboratory Equipment, Hilltop Rd., St. Joseph 2, Mich., 26, 29, 41, 47, 71, 84

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Tel: RIchmond 2-3200

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Tel: PI 2-3600

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Lambda Electronics Corp., 11-11 131st St., College Point 56, L.I., N.Y., 47
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Tel: INdependence 1-8500

Lambda Pacific Eng., Inc., 14725 Arminta St., Van Nuys, Calif., 3, 5, 14, 15, 21, 36, 48, 66
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Tel: ALgonquin 4-4593

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Landsverk Electrometer, 641 Sonora Ave., Glendale 1, Calif., 62, 78
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Langevin Transformer, 47-37 Austell Pl., L.I. City 1, N.Y., 9, 21, 59
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Lansing Sound, Inc., James, 3249 Casitas Ave., Los Angeles 39, Calif., 40
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La Pointe Ind., Inc., 155 W. Main St., Rockville, Conn., 3, 21, 30, 38, 48, 86, 87
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Tel: Le Roy 385

Larson Instrument Co., 24 Orchard St., Tarrytown, N.Y., 14, 52
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Lawn Electronics Co., Inc., Woodward Rd., Englishtown, N.J., 21, 31, 47
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Tel: WHitehall 4-1424

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Lenkurt Electric Co., Inc., 1105 County Rd., San Carlos, Calif., 6, 11, 13, 14, 15, 28, 47,
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Lettime Radio Mfg. Co., 62 Berkley St., Valley Stream, N.Y., 2, 13
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Leupold & Stevens Instr., P.O. Box 5082, Portland 13, Ore., 68
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Levine, Daniel, 3826 N. 55th Dr., Glendale, Ariz., 85
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Liston Becker Plant, Beckman Instrument, Inc., 649 Hope St., Springdale, Conn., 21
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Los Alamos Scientific Lab., Box 1663, Los Alamos, N.M., 90
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Lowell Insulated Wire, P.O. Box 571, Pawtucket, R.I., 83
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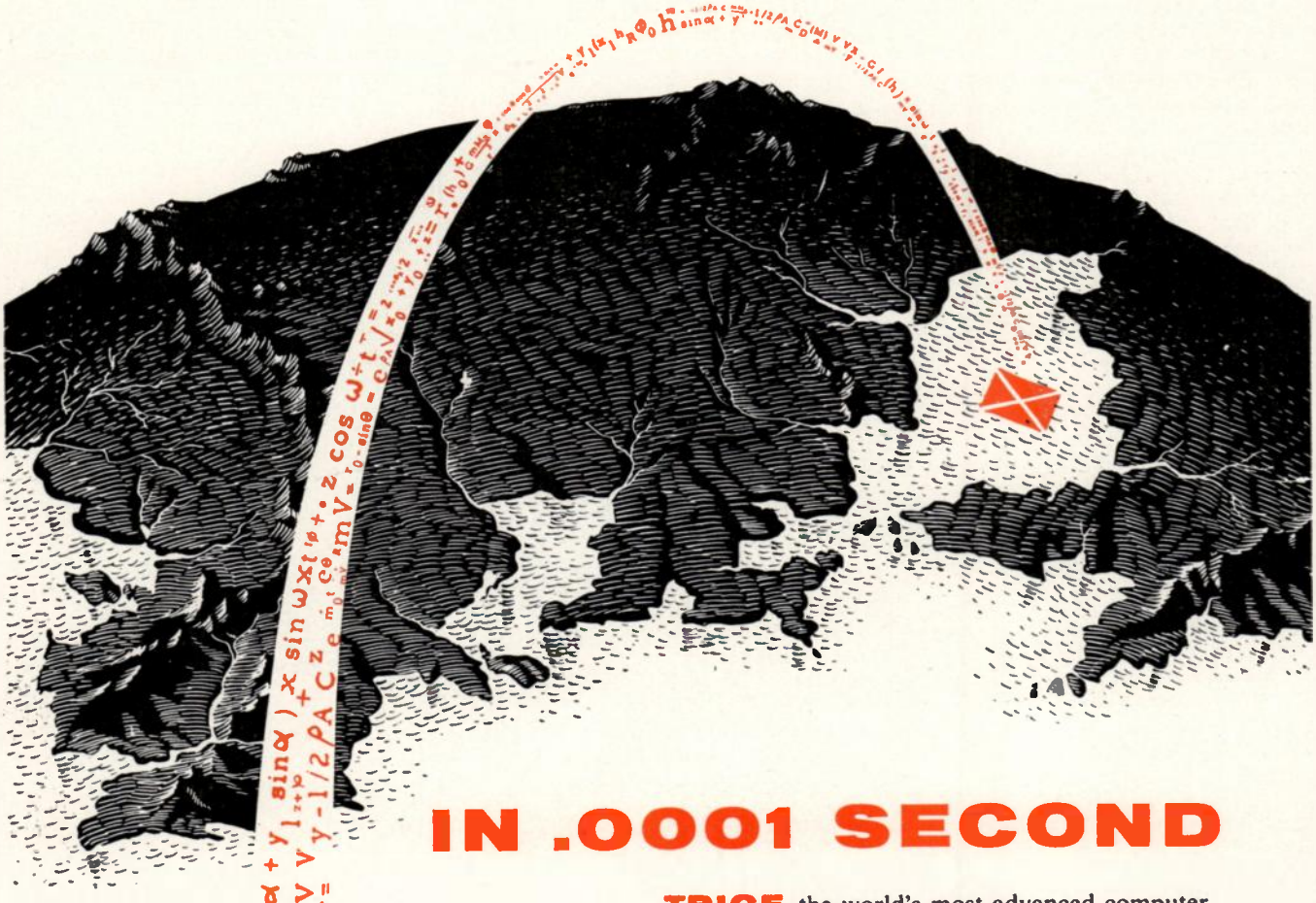
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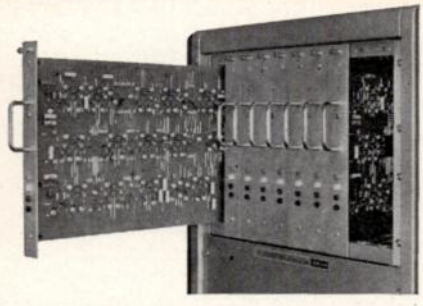
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Magnaflux Corp., 7300 W. Lawrence, Chicago 31, Ill., 68, 72, 90
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Magnasync Mfg. Co., Ltd., 5546 Satsuma Ave., N. Hollywood, Calif., 16, 18, 20, 21, 35, 49, 70, 86, 90
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Magnatran, Inc., P.O. Box 211, Kearney, N.J., 47, 50, 59
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Magnavox Co., 2131 Bueter Rd., Fort Wayne 4, Ind., 1, 4, 10, 11, 14, 23, 26, 29, 36, 40, 45, 48, 53, 59, 60, 68, 70, 72, 81, 90
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Magnavox Co., Research Lab., 2255 S. Carmelia Ave., Los Angeles 64, Calif., 1, 13, 14, 15, 48, 70
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Manning, Maxwell & Moore, 250 E. Main St., Stratford, Conn., 58, 68, 72, 74
Tel: DRexel 8-2681

Manning Paper Co., Inc., J. A., Clinton & George Sts., Green Island, N.Y., 89

Mansfield Fabricators, 541 Grant St., Mansfield, Ohio, 86, 87, 95
Tel: LAfayette 5-3302

Mansol Ceramics Co., 140 Little St., Belleville, N.J., 84, 89, 94
Tel: PLymouth 9-8600

Manson Labs., Inc., 207 Greenwich Ave., Stamford, Conn., 10, 15, 17, 19, 24, 33, 47, 72, 75, 77, 80
See ad on page 498
Tel: DAvis 5-1391

Mantec, Inc., 126 Maryland St., El Segundo, Calif., 71
Tel: EAstgate 2-0659

Manuals, Inc., 3033 Excelsior Blvd., Minneapolis 16, Minn., 99
Tel: WA 2-8373

Manufacturers Engr. & Equip. Corp., York Rd. & Sunset Lane, Hatboro, Pa., 78, 82
Tel: OSborne 5-3300

Marantz Co., 25-14 Broadway, Long Island City 1, N.Y., 21, 47
Tel: RAvenswood 1-6500

Marathon Battery Co., 840 Henrietta St., Wausau, Wis., 23
Tel: 2-1071

Marblette Corp., 37-21 30th St., Long Island City 1, N.Y., 91, 95
Tel: STillwell 4-8100

Marco Industries Co., 207 S. Helena St., Anaheim, Calif., 46, 56
Tel: KEystone 5-6037

Marconi Instruments, 111 Cedar Lane, Englewood, N.J., 4, 12, 22, 63, 67, 69, 72, 75, 77, 80, 82
See ad on page 502
Tel: LOwell 7-0607

Marconi Wireless Tel. Co., 23-25 Beaver St., New York 4, N.Y., 1, 3, 5, 6, 7, 11
Tel: HAnover 2-0198

Marine Electronics Co., 40-17 205th St., Bayside, N.Y., 3, 10
Tel: BAy 9-4200

Marine View Electronics, 28 Main St., White Plains, N.Y., 1, 2, 6, 9, 11, 12, 19, 21, 25, 28, 29, 36, 47, 52, 59, 67, 72, 86, 87,
Tel: WHite Plains 6-1818

Marion Electrical Instrument Co., Grenier Field, Manchester, N.H., 42, 52, 72, 88
Tel: NAtional 5-6971

Mark Products Co., 6412 W. Lincoln St., Morton Grove, Ill., 3
See ad on page 249
Tel: ORchard 5-4999

Markel & Sons, L. Frank, School Lane, Norristown, Pa., 83, 89, 95
See ad on page 583
Tel: BRoadway 2-8960

Markem Machine Co., 150 Congress St., Keene, N.H., 92
Tel: 2-1130

Markite Corp., 155 Waverly Pl., New York 14, N.Y., 53
Tel: ORegon 5-1384

Markwik Mfg. Co., Inc., 31 Sexton Rd., Hicksville, N.Y., 86, 92
Tel: WElls 1-8055

Marlin Rockwell Corp., 402 Chandler St., Jamestown, N.Y., 87
Tel: 61-541

Marma Electronic Co., 1635 N. Halsted St., Chicago 14, Ill., 69
Tel: MO 4-3515

Marshall Assoc., Inc., John, P.O. Box 2463, Bridgeport 8, Conn., 87
Tel: ED 5-9401

Marsland Engrg., Ltd., 154 Victoria St., S. Kitchener, Ont., Canada, 21, 27, 40 52, 53, 60, 81
Tel: SH 5-9486

Martin Co., Box 179, Denver Colo., 90
Tel: PYramid 4-5211

Martin Co., Baltimore 3, Md., 90
Tel: MUrdock 7-3800

Martin Prod., Inc., 139 E. Central Blvd., Palisades Park, N.J., 86, 87
Tel: WIndsor 4-2590

Martindale Electric Co., P.O. Box 617, Cleveland 7, Ohio, 42, 72, 92
Tel: LAkewood 1-8567

Maryland Electronic Manfacturing, College Park, Md., 1, 20, 21, 47

Maryland Etching Co., Inc., Eudowood Lane, Towson 4, Md., 86, 87
Tel: VAlley 5-0700

Masonite Corp., 111 W. Washington St., Chicago 2, Ill., 25, 86
Tel: FR 2-5644

Massa Labs., Inc., 5 Fottler Rd., Hingham, Mass., 20, 67, 72, 73, 74
Tel: RIverview 9-4800

Massachusetts Gear & Tool Co., 40 Nashua St., Woburn, Mass., 81
Tel: WOburn 2-1400

Massachusetts Institute of Technology, Instrumentation Lab., Cambridge, Mass., 90

Massachusetts Institute of Technology, Lincoln Lab., 244 Wood St., Lexington, Mass., 90
Tel: VO 2-3370

Master Appliance Mfg. Co., Fourth & Ontario Sts., Racine, Wis., 24, 44
Tel: MElrose 3-7791

Master Etching Corp., 50 Honeck St., Englewood, N.J., 87
Tel: LOwell 9-0100

Master Mobile Mounts, Inc., 1306 Bond St., Los Angeles 15, Calif., 3, 11, 29
Tel: RI 7-0638

Mastertone Recording Studios, Inc., 711 8th Ave., New York 36, N.Y., 18
Tel: CI 7-7732

Matthews & Co. Jas. H., 3827 Forbes Ave., Pittsburgh 13, Pa., 86, 87, 92
Tel: MU 1-8500

Maurer, Inc., J. A., 37-01 31 St., Long Island City 1, N.Y., 21, 47, 56, 70, 72, 73, 81, 86, 90
Tel: STillwell 4-4600

Maurey Instrument Corp., 7924 S. Exchange Ave., Chicago 17, Ill., 53
Tel: REgent 1-1717

Maximoff, B. S., 1512 N. Wells St., Chicago 10, Ill., 85
Tel: WHitehall 3-0401

Maxson Corp., W. L., United Mfg. Co. Div., 41 Haig St., Hamden 14, Conn., 72
Tel: CHestnut 8-4491

Maxson Corp., W. L., Unimax Div., Ives Rd., Wallingford, Conn., 56
Tel: COlony 9-8701

Maxson Instrument Corp., 47-37 Austell Pl., Long Island City, N.Y., 21, 29, 31, 47, 59, 77, 81

Mayberry Electronics Co., 111 S. Oak St., Inglewood 1, Calif., 21, 31, 42, 47, 48, 67, 68, 70, 72, 81, 85, 86, 90
Tel: ORegon 8-4847

Mayberry, Len, 111 S. Oak St., Inglewood, Calif., 85
See ad on page 535
Tel: ORegon 8-4847

Mayer Engrg. Co., Frank, 6442 Santa Monica Blvd., Los Angeles 38, Calif., 90

McAlister, Inc., J. G., 1117 N. McCadden Pl., Hollywood 38, Calif., 18

McCoy Electronics Co., Chestnut & Watts Sts., Mt. Holly Springs, Pa., 27, 33, 36
See ad on page 337
Tel: HUnter 6-3411

McCurdy Radio Industries, Ltd., 22 Front St. W., Toronto 1, Ont., Canada, 18, 21, 25, 28, 47, 86, 90

McDermott Corp., 1639 Stephen St., Ridgewood, N.Y., 46
Tel: GL 6-3606

McDonnell Aircraft Corp., P.O. Box 516, St. Louis, Mo., 90

McDowell Electronics, 105 Forrest St., Metuchen, N.J., 47, 88
Tel: LIberty 8-9109

McGraw-Edison Co., P.O. Box 180, Boonton, N.J., 22, 42, 67, 72, 77, 80, 82
Tel: DEerfield 4-2131

McGraw-Edison Co., P.O. Box 1766, Pittsburgh 30, Pa., 88
Tel: GRant 1-8782

McGraw-Hill Publ. Co., 330 W. 42nd St., New York 36, N.Y., 99
Tel: LOngacre 4-3000

McGregor Elecnc. Ind., Inc., McGregor Iowa, 59
Tel: 682 & 791

McHenry Control Corp., P.O. Box 604, Norwalk, Conn., 21, 47, 59, 65
Tel: VIctor 7-2406

McIntosh Lab. Inc., 2 Chambers St., Binghamton, N.Y., 4, 21, 60
Tel: 3-5491

McKay Electric C., 19790 Stahelin Ave., Detroit 19, Mich., 21, 29, 47, 59, 68

McKenna Laboratories, 2503 Main St., Santa Monica, Calif., 21, 72, 92
Tel: EXbrook 9-8846

McLaughlin Research Co., 311 W. 43rd St., New York, N.Y., 4, 5, 85, 99
Tel: CI 5-3535

McLean Engineering Labs., Box 228, 70 Washington Rd., Princeton, N.J., 24
See ad on page 293
Tel: WAlnut 4-4440

McMillan Industrial Co., Brownville Ave., Ipswitch, Mass., 3, 22, 71, 86, 89, 94
Tel: IPswitch 1330

McPherson Engrg Co., Box 111, Seaford, N.Y., 10, 11, 13, 21, 77, 80, 85, 90
Tel: PErshing 1-6346

Measurement Engineering, Ltd., John St., Arnprior, Ont., Canada, 10, 13, 21, 25, 28, 42, 68, 70, 72, 76, 78
Tel: 543J

Measurements, A McGraw-Edison Div., P.O. Box 180, Boonton, N.J., 22, 42, 67, 72, 77, 80, 82
See ad on page 509
Tel: DEerfield 4-2131

Medical-Electronics Development, 400 Northern Blvd., Great Neck, N.Y., 43, 58, 70, 76, 85, 90
Tel: HU 7-2305

Melco Products, Inc., 301 Fifth Ave., Minneapolis 15, Minn., 29, 59
Tel: 9-2791

Meller Co., Adolf, 387 Charles St., P.O. Box 702, 387 Charles St., Providence 1, R.I., 66
See ad on page 459
Tel: DExter 1-3717

Melody Master Mfg. Co., 2842 N. Cicero Ave., Chicago 41, Ill., 21, 40
Tel: KIldare 5-5559

Melpar, Inc., 3000 Arlington Blvd., Falls Church, Va., 1, 3, 14, 15, 20, 85
Tel: JE 4-6000

Mel-Rain Corp., 2100 E. Fletcher Ave., Indianapolis 3, Ind., 29, 53
Tel: MElrose 7-4613

Mendelsohn Speedgun Co., Haskell, N.J., 21, 30, 66, 76, 77, 90
Tel: TErhune 5-3224

Menlo Park Engineering, 721 Hamilton Ave., Menlo Park, Calif., 21, 29, 41, 47, 63, 77
See ad on page 451
Tel: DAvenport 6-9080

Menlo Research Laboratory, P.O. Box 522, Menlo Park, Calif., 47, 72, 78, 85, 90
Tel: DAvenport 2-4456

Mepco, Inc., 35-37 Abbett Ave., Morristown, N.J., 53
See ad on page 140
Tel: JEfferson 9-2000

Merck & Co., Inc., Dept. ES-2, Lincoln Ave., Rahway, N.J., 33, 97
See ad on page 186
Tel: FUlton 1-5000

Mercoid Corp., 4201 Belmont Ave., Chicago 41, Ill., 52, 56, 57, 68
Tel: PEnsacola 6-2100

Mercury Electronic Co., P.O. Box 450, Red Bank, N.J., 31, 47, 72
Tel: ATlantic Highlands 1-2700

Meridian Metalcraft, Inc., 8739 Miller Grove Dr., Whittier, Calif., 3, 22, 33, 34, 36, 59, 60, 66, 77, 90
Tels: OXford 2-3761 & RAymond 3-1508

Merit Coil & Transformer Corp., 2027 Sherman St., Hollywood, Fla., 29, 59
Tel: WAbash 3-1536

Merit Plating Co., 218 E. 141 St., New York 51, N.Y., 86
Tel: CYpress 2-6380

Mesa Plastics Co., 11751 Mississippi, Los Angeles 25, Calif., 89, 94, 95
Tel: BR 2-0250

Metal Fabricators Corp., 63 Pond St., Waltham 54, Mass., 1, 3, 25, 28, 66, 68, 85, 86, 90, 92

Metal Finishers, Inc., 78 S. Franklintown Rd., Baltimore 23, Md., 86, 91
See ad on page 566
Tel: GIlmor 5-0594

Metal Hydrides, Inc., Congress St., Beverly, Mass., 32, 93
Tel: WA 2-1875

Metal Powder Association, 130 W. 42nd St., New York 36, N.Y., 32, 84, 93, 99
Tel: WIsconsin 7-0645

Metal Textile Corp., 647 E. 1st Ave., Roselle, N.J., 83, 87, 89

Metal & Thermit Corp., P.O. Box 471, Rahway, N.J., 32, 88, 91, 92, 93
Tel: FUlton 1-3000

Metal & Wood Fastening Dev., 60 Lakeshore Rd., Montreal 33, P.Q., Canada, 87
Tel: OXford 5-4582

Metalab Equipment Co., 270 Duffy Ave., Hicksville, L.I., N.Y., 25, 71, 78, 90
Tel: WElls 1-3100

Metalcraft, Inc., 65-33 Austin St., Rego Park, Brooklyn, N.Y., 25, 28
Tel: TWining 6-3600

Metallic Arts of N.E., Inc., 150 Broadway, Cambridge 42, Mass., 25, 28, 86, 97
Tel: KIrkland 7-5790

Metalphoto Corp., 6811 Superior Ave., Cleveland 3, Ohio, 87
Tel: UTah 1-7575

Metals & Controls Corp., 51 Forest St., Attleboro, Mass., 56, 66, 83, 93, 96
Tel: ATtleboro 1-2800

Metaplast Co. Inc., 34-51 56th St., Woodside 77, N.Y., 21, 38, 53, 66, 71, 84, 86, 91, 93
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Tel: OS 5-2416

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Meter-Mix Corp., 626 Dorchester Ave., South Boston 27, Mass., 68, 71, 86, 92, 95
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Meters, Inc., 5353 N. Keystone Ave., Indianapolis 20, Ind., 42, 72
Tel: CLifford 5-3570

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See ad on page 388
Tel: UNderhill 7-9600

Metox, 71 Rue Orfila, Paris 20, France, 25, 28, 30, 31, 44, 55, 56, 95
Tel: MEn 31-10

Metpro, Inc., R. I., 230 Toronto Ave., Providence 5, R.I., 86, 87, 97
Tel: STuart 1-3050

Metro Engineering Associates, Glendale Village, Easthampton, Mass., 20
Tel: 1100

Metron Instrument Co., 432 Lincoln St., Denver 3, Colo., 72, 81
Tel: PEarl 3-3764

Metronix, Inc., Mill Lane, Waterford, Conn., 67, 69, 72, 75, 80
Tel: GIbson 3-1886

Metropolitan Electronic-Instrument, 106 Fifth Ave., New York 11, N.Y., 42, 72, 80, 82
Tel: OR 5-1707

Metropolitan Overseas Supply Corp., 1133 Broadway, New York 10, N.Y., 54, 61, 62, 63
Tel: CHelsea 3-1105

Metz Refining Co., 369 Mulberry St., Newark 2, N.J., 91, 93, 96,
Tel: MA 2-0866

Meyercord Co., 5323 W. Lake St., Chicago 44, Ill., 87

Mica Condensers Corp., 71 Murray St., New York 7, N.Y., 26
Tel: DIgby 9-0512

Mica Fabricating Co., 53 Central Ave., Rochelle Park, N.J., 86, 88, 89, 94, 95, 97

Mica Insulator Co., 797 Broadway, Schenectady 1, N.Y., 86, 87, 89, 95
Tel: FRanklin 4-4191

Micamold Electronics Mfg. Co., 1087 Flushing Ave., Brooklyn 37, N.Y., 26, 34, 36
Tel: HYacinth 7-5400

Micanite & Insulators Co., Ltd. of London, Eng., c/o United Mineral & Chemical Corp., 16 Hudson St., New York 13, N.Y., 89
Tel: BEekman 3-8870

Micarta Fabricators, Inc., 5324 N. Ravenswood Ave., Chicago 40, Ill., 25, 30, 33, 37, 46, 48, 55, 86, 87, 89, 95
Tel: LOngbeach 1-9700

Mico Instrument Co., 80 Trowbridge St., Cambridge 38, Mass., 29, 59, 77, 87, 92, 96
Tel: KIrkland 7-8660

Micro Balancing, Inc., 191 Herricks Rd., Garden City Park, L.I., N.Y., 56, 92
Tel: PIoneer 6-0851

Micro-Circuits Co., New Buffalo, Mich., 71, 91
Tel: 272W1

Micro-Electric Magnetic Instruments, 1511 Colorado Ave., Santa Monica, Calif., 45, 49
Tel: EX 3-0449

Micro Gee Products, Inc., 6319 W. Slauson, Box 1005, Culver City, Calif., 21, 47, 65, 68, 72, 81, 85
Tel: EX 1-1716

Micro-Lab Industries, Inc., 10 E. Clair St., Anderson, Ind., 1, 3, 10, 47
Tel: 4838

Micro Switch, 11 W. Spring St., Freeport, Ill., 56, 85
Tel: ADams 2-1122

Micro-Wire Stranding Co., 301 Crooks Ave., Clifton, N.J., 86, 97
Tel: Prescott 9-0819

Microdot, Inc., 220 Pasadena Ave., South Pasadena, Calif., 30, 83, 87
See ad on page 324
Tel: RYan 1-3351

Microflect Co., 2300 S. 25th, Salem, Ore., 3
Tel: EMpire 2-3562

Microlab, 71 Okner Parkway, Livingston, N J., 3, 22, 30, 33, 36, 56, 59, 60, 66, 77
See ad on page 349
Tel: LIvingston 6-0692

Micromat Co., 548 Piermont Ave., Hillside, N.J., 22, 86
Tel: WEstwood 5-3335

Micromatic Mach. Corp., 45 Morgan Ave., Brooklyn 37, N.Y., 36, 86
Tel: HY 7-4117

Micromech Mfg. Co., 1020 Commerce Ave., Union, N.J., 90, 92
Tel: MUrdock 8-6323

Microphase Corp., P.O. Box 1166R, Greenwich, Conn., 36, 90
See ad on page 350
Tel: NOrmandy 1-6200

Micropulse Engineering, 1122 W. Magnolia Blvd., Burbank, Calif., 20, 34, 36, 59, 86
Tels: THornwall 6-1833 & VIctoria 9-5434

Microsonics, Inc., 349 Lincoln St., Hingham, Mass., 34, 58, 72, 77
Tel: RIverview 9-3100

Microtech, Inc., 2975 State St., Hamden, Conn., 66
Tel: ATwater 8-9297

Microtran Co., Inc., 145 E. Mineola Ave., Valley Stream, L.I., N.Y., 21, 29, 36, 45, 49, 59
See ad on page 442
Tel: LOcust 1-6050

Microwave Associates, Inc., Northwest Industrial Pk., Burlington, Mass., 3, 22, 33, 36, 47, 50, 54, 59, 60, 63, 66, 77, 80, 90
Tel: BRowning 2-3000

Microwave Chemicals Lab., Inc., 282 Seventh Ave., New York 1, N.Y., 3, 32, 66, 84
See ad on page 77
Tel: WAtkins 4-6725

Microwave Dev. Labs., Inc., 92 Broad St., (Babson Park) Wellesley, Mass., 36, 47, 66, 77, 86, 87, 90
Tel: CEdar 5-6252

Microwave Engineering Labs., 943 Industrial Ave., Palo Alto, Calif., 1, 14, 15, 21, 22, 36, 47, 56, 66, 77, 80, 84 90
Tel: YO 7-6958

Microwave Radiation Co., 19223 S. Hamilton St., Gardenia, Calif., 3, 36, 66, 77, 90
Tel: DAvis 9-7572

Microwave Services, Inc., Times Tower Bldg., Times Square, 1475 Broadway, New York 36, N.Y., 85
See ad on page 535
Tel: BRyant 9-8517

Mid-Century Instrumatic Corp., 611 Broadway, New York 12, N.Y., 70, 74
Tel: SPring 7-4016

Mid-Eastern Electronics, Inc., 32 Commerce St., Springfield, N.J., 42, 47, 68, 69, 72
Tel: DRexel 6-7130

Midland Mfg. Co., Inc., 3155 Fiberglass Rd., Kansas City 15, Kan., 33
Tel: Finley 2-7950

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Tel: MIchigan 2-4055

Mid-West Metal Prods., Inc., Fairfax Ind. District, Kansas City 15, Kan., 25, 28, 87
Tel: Mayfair 1-1980

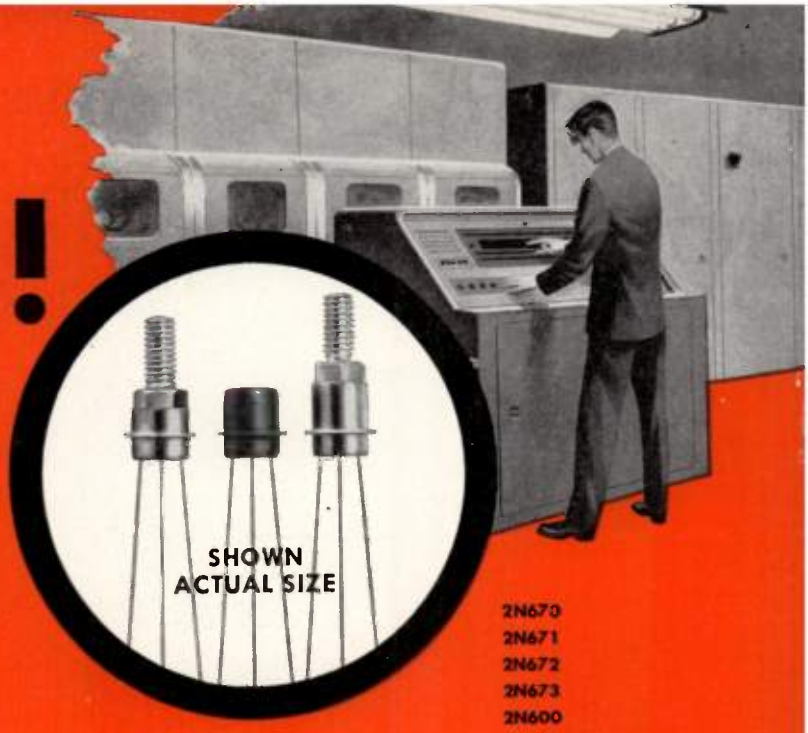
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Tel: TRinity 8-1761

Milford Rivet & Machine Co., Penn. Div., Hatboro, Pa., 87

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Tel: METcalf 3-1023

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Tel: DA 4-4108

Miller Co., J. W., 5917 S. Main St., Los Angeles 3, Calif., 3, 29, 36, 59, 60
Tel: ADams 3-4294

Miller Co., Sanford, 691 Bedford Ave., Brooklyn 6, N.Y., 29, 47, 50, 54, 59, 92
Tel: ULster 8-2817

Miller Dial & Name Plate Co., 4400 N. Temple City Blvd., El Monte, Calif., 86, 87, 93
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Miller Electric Mfg. Co., 718 S. Bounds St., Appleton, Wis., 92
Tel: REgent 4-9821

Miller Labs., A. E., 9226 Hudson Blvd., North Bergen, N.J., 33
Tel: UNion 9-2142

Miller Mfg. Co., M. A., 4th & Church St., Libertyville, Ill., 45, 49
Tel: LIbertyville 2-7550

Miller Research Labs., 5529 S. Fifth St., Milwaukee 7, Wis., 53
Tel: HUmboldt 3-6303

Millitest Co., 88 Madison Ave., Hempstead, N.Y., 68, 72
Tel: IVanhoe 9-9672

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Tel: BRoadway 1-9900

Milwaukee Stamping Co., 800 72nd St., Milwaukee 14, Wis., 25, 28, 87
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Minatron Corp., Belle Mead, N.J., 58, 59
Tel: FLanders 9-6400

Minco Products, Inc., 740 Washington Ave. N., Minneapolis 1, Minn., 42, 53, 58, 68, 72, 86, 90
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Miniature Electronic Components, 1018 Pearl St., Nashville 4, Tenn., 26
Tel: ALpine 6-3147

Miniature Precision Bearings, Inc., Keene, N.H., 87
Tel: ELmwood 2-0310

Miniature Switch Corp., 3610 Oceanside Rd., Oceanside, N.Y., 56
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Tel: 5-0800

Minifon-ABC Sound Engineering Co., 145 W. 47th St., New York 36, N.Y., 16

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Minneapolis-Honeywell Regulator Co., Inc., 2600 Ridgeway Rd., Minneapolis 13, Minn., 1, 10, 21, 31, 37, 42, 44, 47, 54, 56, 57, 58, 62, 63, 65, 67, 68, 70, 72, 81, 94, 86, 90
Tel: ST 1-8011

Minneapolis-Honeywell Regulator Co., Inc., 1433 Stinson Blvd. N.E., Minneapolis, Minn., 54

Minneapolis-Honeywell Regulator Co., Inc., 2753 4th Ave. S., Minneapolis 8, Minn., 52, 56, 57, 68
Tel: FEderal 5-5225

Minneapolis-Honeywell Regulator Co., Inc., 5200 E. Evans St., Denver 22, Colo., 21, 42, 72, 74, 79
Tel: SKyline 6-3681

Minneapolis-Honeywell Regulator Co., Inc., 10721 Hanna St., Beltsville, Md., 16, 20, 21, 49, 67, 70, 72, 78
Tel: WEbster 5-2700

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Tel: DAvenport 9-8300

Minneapolis-Honeywell Regulator Co., Inc., Datamatic Div., 151 Needham St., Newton Highlands 61, Mass., 70
Tel: DEcatur 2-6960

Minneapolis-Honeywell Regulator Co., Inc., Rubicon Instruments, Ridge Ave. at 35th St., Philadelphia 32, Pa., 69, 72
Tel: BAldwin 5-3737

Minneapolis-Honeywell Regulator Co., Inc., Semiconductor Prods., 2747 Fourth Ave. S., Minneapolis 8, Minn., 54
Tel: FEderal 5-5225, Ext. 2874 & 2880

Minnesota Engineering Co., 43 Royalston Ave., Minneapolis, Minn., 85
Tel: FEderal 9-8667

Minnesota Mining & Mfg. Co., 900 Bush Ave. S., St. Paul 6, Minn., 49, 89, 91
Tel: PR 6-8511

Minnesota Mining & Mfg. Co., Irvington Div., 6 Argyle Ter., Irvington 11, N.J., 89, 91, 95
Tel: ESsex 3-4200

Minnesota Mining & Mfg. Co., Mincom Div., 2049 S. Barrington Ave., Los Angeles 25, Calif., 16, 49, 70
Tel: GRanite 9-3751

Minnesota Rubber Co., 3630 Wooddale Ave., Minneapolis 16, Minn., 87, 89, 91, 94
Tel: WE 9-6781

Minitronics Corp., 328 Grand St., New York 2, N.Y., 26
Tel: ORegon 4-8250

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Mission-Western Engineers, Inc., 132 W. Colorado St., Pasadena, Calif., 81

Missouri Research Labs., 2109 Locust St., St. Louis 3, Mo., 21, 29, 70, 72, 77, 81, 85, 90
Tel: CHestnut 1-7875

Mitchell Electronics, 58 Marbledale Rd., Tuckahoe 7, N.Y., 29, 59, 86
Tel: WOodbine 1-4001

Mitchell Industries, Inc., P.O. Box 17, Mineral Wells, Tex., 1, 36, 92
Tel: FAirfax 5-4747

Mitchell Rand Insulation, 51 Murray St., New York 7, N.Y., 87, 89, 91
Tel: CO 7-9264

Mitronics, Inc., 1290 Central Ave., Hillside, N.J., 26, 27, 38, 84, 86, 87
Tel: WAverly 6-2250

Mittelman, Eugene, 549 W. Washington Blvd., Chicago 6, Ill., 85
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Mobil Electronics Mfg. Co., 1111 State Rd. 67 E., Anderson, Ind., 7, 11, 25, 36, 68
Tel: 2-8489

Model Eng. & Mfg., Inc., 50 Frederick St., Huntington, Ind., 3, 6, 17, 19, 21, 34, 36, 47, 53, 66, 69, 76, 77, 79, 80, 86, 90
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Model Rectifier Corp., 1675 Utica Ave., Brooklyn 34, N.Y., 31, 47, 50, 68
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Modern Industries, Inc., 5755 Camille Ave., Culver City, Calif., 47
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Mohawk Business Machines Co., 944 Halsey St., Brooklyn, N.Y., 16
Tel: GLenmore 5-9570

Mohawk Wire & Cable Corp., 320 River St., Fitchburg, Mass., 83
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Molded Insulation Co., 335 E. Price St., Philadelphia 44, Pa., 3, 4, 21, 25, 29, 30, 39, 40, 45, 48, 52, 53, 56, 60, 67, 86, 90, 94
Tel: VIctor 4-2626

Molding Corp. of America, 40 Church St., Pawtucket, R.I., 30, 94
Tel: PA 6-2100

Mole-Richardson Co., 937 N. Sycamore Ave., Hollywood 38, Calif., 18
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Molex Products Co., 9515 Southview Ave., Brookfield, Ill., 29, 37, 56, 94
Tel: HUnter 5-5881

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Moloney Electric Co., 5390 Bircher Blvd., St. Louis 20, Mo., 32, 47, 59
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Tel: EVergreen 3-3300

Mona Industries, Inc., P.O. Box 1786, Paterson 17, N.J., 86, 95
Tel: AMory 4-8220

Monitor Controller, 99 Grove St., Rockland, Mass., 41, 47, 52, 56, 68
Tel: TRiangle 7-3308

Monitor Products Co., 815 Freemont Ave. S., South Pasadena, Calif., 33
Tel: RY 1-1174

Monogram Precision Industries, Inc., 53 Victory Lane, Los Gatos, Calif., 66

Monroe Calculating Machine, 555 Mitchell St., Orange, N.J., 20, 70
Tel: ORange 3-6600

Monroe Electronics Labs., 830 Linden Ave., Rochester 10, N.Y., 85, 90
Tel: HI 5-4560

Monsanto Chemical Co., Lindbergh & Olive St. Rd., St. Louis 24, Mo., 91
Tel: WYdown 3-1000

Montek Associates, Inc., 4675 S. State St., Salt Lake City 7, Utah, 20, 21, 68, 70, 76, 78, 81, 85, 86, 90, 94
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Montgomery Co., Windsor Locks, Conn., 21, 64, 83, 93
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Moore Associates, Inc., 2600 Spring St., Redwood City, Calif., 6, 20, 68, 70
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Moran Instrument Corp., 170 E. Orange Grove Ave., Pasadena 3, Calif., 70, 72, 73, 74, 78, 81, 85, 86
Tel: SY 6-7158

Morecroft Design Engineer, J. H., 5524 Goss Canon Ave., La Crescenta, Calif., 85, 90
Tel: CHurchill 9-6418

Morningstar-Paisley, Inc., 1770 Canalport Ave., Chicago, Ill., 91
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Morris Jr., Fred W., 11600 Fairway Dr., Los Altos, Calif., 85
Tel: WHitecliff 8-3928

Morrow Radio Mfg. Co., Inc., 2794 Market St. N.E., Salem, Ore., 2, 4, 5, 7, 11, 47, 80
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Morse Co., Frank W., 1300 Soldiers Field Rd., Boston 35, Mass., 30, 39, 55, 87
Tel: STadium 2-6626

Morton Electronics Corp., 10th St. & Morton Ave., Chester, Pa., 30, 39, 83, 86, 87, 94
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Moseley Co., F. L., 409 N. Fair Oaks Ave., Pasadena 3, Calif., 70, 74
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Tel: RYan 1-0208

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Moskowitz, S., & D. D. Grieg, 67 Factory Pl., Cedar Grove, N.J., 85
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Mosley Electronics, Inc., 8622 St. Charles Rock Rd., St. Louis 14, Mo., 3, 30, 36, 55, 59, 90
Tel: HA 7-4400

Mossman, Inc., Donald P., P.O. Box 265, Brewster, N.Y., 56
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Motordyne, Inc., 2661 S. Myrtle Ave., Monrovia, Calif., 21, 31
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Motoresearch Co., 1600 Junction Ave., Racine, Wis., 44, 47
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Tel: WH 5-4311

Motson Co., J. F., 1717 Bethlehem Pike, Flourtown, Pa., 48, 86
Tel: CHestnut Hill 7-1900

Motson & Co., Walter, 521-535 South 8th St., Camden 3, N.J., 25
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Moxness Products, Inc., 1439 Junction Ave., Racine, Wis., 86, 94
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Mu Beta Products, 608 Fig Ave., Monrovia, Calif., 20, 21, 36, 72, 77, 80
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Muirhead Co., Ltd., Beckenham, Kent, England, 8, 21, 22, 26, 27, 44, 52, 53, 56, 67, 68, 69, 72, 75, 81
Tel: BEckenham 4888

Muirhead Instruments, Inc., 677 Fifth Ave., New York 22, N.Y., 8, 21, 22, 26, 27, 44, 52, 53, 56, 67, 69, 72, 75, 81
Tel: MUrray Hill 8-1633

Mullard Overseas, Ltd., Century House-Shaftesbury Ave., London, W.C. 2, England, 62, 63, 72, 79

Mullenbach Div. of Elec. Machinery Mfg. Co., 2100 E. 27th St., Los Angeles 58, Calif., 26, 52, 53, 58
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Multi-Amp Corp., 465 Lehigh Ave., Union, N.J., 47, 59, 65, 71, 72, 90
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Murdock Co., William J., 158 Carter St., Chelsea 50, Mass., 40
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Murdock Laboratories, 921 Port Washington Blvd., Port Washington, N.Y., 9
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Mured, Inc., P.O. Box 286, Danbury, Conn., 21
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Murphy & Miller, Inc., 1352 S. Michigan Ave., Chicago 5, Ill., 71
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Murray Plastics Co., River Rd., New Hamburg, N.Y., 86, 89, 95
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Muter Co., 1255 S. Michigan, Chicago 5, Ill., 26, 27, 29, 53, 56, 59, 89
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Mutual Electronic Industries Corp., 85 Beechwood Ave., New Rochelle, N.Y., 25, 30, 37, 83, 85, 94
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Mystic Transformers, Inc., 63 Swanton St., Winchester, Mass., 29, 59
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Mystik Tape Prods. of Calif., 3630 Tyburn St., Los Angeles 65, Calif., 87
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NJE Corp., 345 Carnegie Ave., Kenilworth, N.J., 47, 59
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NYT Electronics, Inc., 2979 N. Ontario St., Burbank, Calif., 21, 29, 34, 36, 47, 48, 59, 86
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Namco Machinery, Inc., 54 Kosciusko St., Brooklyn 5, N.Y., 92

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National Aircraft Corp., 3411 Tulare Ave., Burbank, Calif., 21, 29, 31, 33, 47, 59, 65, 72
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National Cash Register Co., The, South Maine & K Sts., Dayton 9, Ohio, 32, 70

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National Cine Equip., Inc., 209 W. 48th St., New York 36, N.Y., 18, 43
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National Co., Inc., 61 Sherman St., Malden 48, Mass., 1, 2, 4, 5, 10, 11, 12, 13, 17, 21, 27, 29, 33, 39, 55, 60, 67, 75, 81, 84, 85, 87, 94
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National Electric Controller, 7070 Glenwood, Chicago, Ill., 53

National Electronic Labs., Inc., 1713 Kalorama Rd. N.W., Washington 9, D.C., 11, 13, 20, 42, 73, 80, 90
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National Electronics Corp., 11815 Vose St., North Hollywood, Calif., 26, 85, 86
Tel: PO 5-6178

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National Moldite Co., 250 South St., Newark 5, N.J., 3, 32, 41, 84, 89, 93, 95
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National Pneumatic Co., Inc., 125 Amory St., Boston, Mass., 32, 44, 72, 81, 86, 87
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National Radio Institute, 3939 Wisconsin Ave., Washington 16, D.C., 98
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National Scientific Labs., 2010 Massachusetts Ave. N.W., Washington, D.C., 21, 36, 47, 68, 71, 79, 85, 90, 99
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National Union Electric Corp., 1100 East Bell St., Bloomington, Ill., 21, 51, 61, 62, 63
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National U. S. Radiator Corp., 342 Madison Ave., New York 17, N.Y., 93
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National Video Corp., 4300 W. 47th St., Chicago 32, Ill., 61, 97
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Neff Instrument Corp., 2211 E. Foothill Blvd., Pasadena, Calif., 21, 47
Tel: SY 5-4308

Nelson Technical Enterprises, 116 W. Main St., St. Charles, Ill., 1, 85, 99
Tel: ST. Charles 5510

Nelson Vacuum Pump Co., 2133 Fourth St., Berkeley 10, Calif., 92
Tel: AShberry 3-2277

Nems-Clarke, Inc., 919 Jesup Blair Dr., Silver Spring, Md., 4
Tel: JUniper 5-1000

Neosil Products Div., 745 5th Ave., New York 22, N.Y., 37, 38, 87, 89
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Network Industries, Inc., 213 W. 5th St., Bayonne, N.J., 38, 56
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Nevada Antenna Co., P.O. Box 1126, Tonopah, Nev., 3
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New England Electrical Works, 365 Main St., Lisbon, N.H., 83
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New England Laminates Co., 481 Canal St., Stamford, Conn., 86, 89, 95
Tel: DAvis 4-4181

New England Oven-Furnace, 385 Boston Post Rd., Orange, Conn., 88
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New England Transformer, 47 McGrath Hwy., Somerville, Mass., 59

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New London Instrument Co., 82 Union St., P.O. Box 189, New London, Conn., 12, 20, 21, 22, 33, 47, 67, 70, 72, 75, 80, 85, 90
Tel: GI 3-8451

New Process Metals, Inc., 45-65 Manufacturers Pl., Newark 5, N.J., 83, 93, 97
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Tel: WOodlawn 6-0782

New York Coil Co., Inc., 144-48 Second Ave., Phoenixville, Pa., 21, 29, 59, 86
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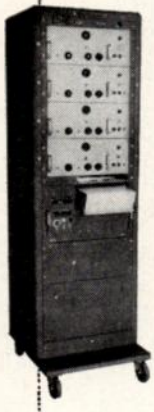


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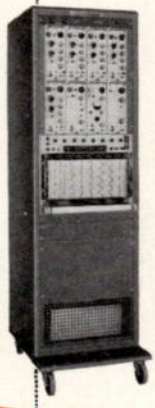


Features of the "150 series" direct writers include: frequency response to 100 cps; linearity 1% overall; inkless recording in true rectangular coordinates by heated stylus on plastic coated Permapaper charts; current feedback driver amplifier and regulated power supply for each channel. Recorder has 9 chart speeds, 0.25 to 100 mm/sec; individual stylus heat controls, time-code marker. Up to 6-channels can be housed in one vertical cabinet. Amplifiers, recorder also available in individual portable cases.



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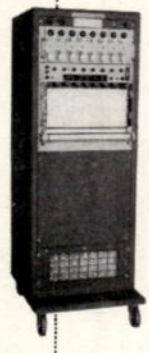
350 SERIES



New "350" series direct writers with compact plug-in preamps in modules of up to 4; individual power supplies; current feedback transistorized power amplifiers; limiter circuit ahead of power amplifiers; velocity feedback galvanometer damping; enclosed galvanometers. Linearity 0.2 div. over entire 50 divisions. Recorder-power amplifier-power supply package has 0.1 volt/div. sensitivity, can be used separately; pushbutton controls for 9 chart speeds 0.25 to 100 mm/sec; individual stylus heat controls; contacts for remote control; inkless rectangular coordinate recording on Permapaper charts.

6-, 8-CHANNELS

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Compact "850" series direct writers use 7" high plug-in preamplifiers in modules of up to eight and "350" flush front recorder package with transistorized power amplifiers, power supply; features velocity feedback galvanometer damping, linearity 0.2 div. over entire 50 divisions; 9 chart speeds from 0.25 to 100 mm/sec controlled by electric pushbuttons; inkless recordings on Permapaper charts. Available preamps include Servo Monitor (demodulator) and DC Coupling. Carrier, Chopper Stabilized and Low Level types are in development.

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Model 150-300/700 Wide Band Amplifier and Power Supply accepts "150" series preamplifiers — for use with low power galvanometers, oscilloscopes, panel meter. Freq. range DC to 10,000 cps (but limited by particular preamp range). Panel meter has center zero scale, 25 divisions each side of center.

(ALL DATA SUBJECT TO CHANGE WITHOUT NOTICE)

For complete data, call your local Sanborn Engineering Representative or write the Industrial Division in Waltham.

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Industrial Division

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New York Solder Co., Inc., 584 E. 133rd St., New York 54, N.Y., 96
Tel: CYpress 2-3740

New York Testing Labs., Inc., 47 West St., New York 6, N.Y., 90
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New York Transformer Co., Inc., 3rd Ave., Alpha, N.J., 29, 31, 36, 59
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Newark Controls Co., 15 Ward St., Bloomfield, N.J., 56, 68
Tel: PIlgrim 8-2971

Newark Spinning & Stamping, 472 Bloy St., Hillside 5, N.J., 86
Tel: BIgelow 3-5353

Newcomb Audio Prods. Co., 6824 Lexington Ave., Hollywood 38, Calif., 4, 16, 21, 25, 28, 45, 60
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Ney Co., J. M., Dept. N, P.O. Box 990, Hartford 1, Conn., 56, 83, 93, 94
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Nichols, Ltd., R. H., 2781 Dufferin St., Toronto 10, Ont., Canada, 20, 42, 47, 50, 65, 69, 72, 74, 78, 79, 80, 86, 88, 92
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Tel: ED 4-1120

North Electric Co., 553 S. Market St., Galion, Ohio, 6, 9, 18, 19, 21, 25, 28, 30, 31, 39, 52, 56, 68, 70, 72, 85, 86, 87
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Northam, c/o Travco Assoc., 148-03 Hillside Ave., Jamaica 35, N.Y., 16
Tel: OL 7-8630

Northeast Electronics, Municipal Airport, Concord, N.H., 6, 11, 20, 25, 33, 66, 77, 80, 85, 90
Tel: CA 5-6641

Northeast Scientific Co., 617 Concord Ave., Cambridge 38, Mass., 47
See ad on page 380
Tel: UNiversity 4-2350

Northeastern Engineering, Inc., 25 S. Bedford St., Box 150, Manchester, N.H., 42, 67, 70, 75
See ad on page 474
Tel: NAtional 2-6485

Northern Electric Co., Ltd., 1261 Shearer St., Montreal, P.Q., Canada, 1, 6, 9, 12, 14, 15, 18, 21, 26, 28, 29, 32, 33, 35, 36, 37, 39, 43, 47, 52, 53, 54, 56, 59, 60, 66, 77, 83, 85
Tel: WEllington 8641

Northern Electronic & Vacuum, P.O. Box 105, St. Sauveur Des Monts, P.Q., Canada, 33, 54, 58, 68, 70, 85
Tel: CA 7-2629

Northern Engrg. Labs., Inc., 372 Wilmont Ave., Burlington, Wis., 33
Tels: TWX-Burlwis 426 & ROckwell 3-7155

Northern Plastics Corp., 2nd & Market St., La Crosse, Wis., 21, 26, 30, 32, 48, 53, 86, 87, 89, 95, 97
Tel: 4-6070

Northern Radio Co., Inc., 147 W. 22nd St., New York 11, N.Y., 12, 13, 19, 20, 67
See ad on pages 130-132
Tel: WAtkins 9-9117

Northrop Aircraft, Inc., 222 North Prairie, Hawthorne, Calif., 1, 70, 72
Tel: OR 8-9111

Northwest Industries, Ltd., Box 517, Edmonton, Alta., Canada, 85, 99
Tel: 553161

Northwest Plastics, Inc., 65 E. Plato Ave., St. Paul 7, Minn., 86, 87, 94
Tel: CA 7-6686

Norton Associates, Inc., P.O. Box 96, Garden City, N.Y., 45, 49, 70
Tel: IVanhoe 3-2968

Norton Laboratories, Inc., 520 Mill St., Lockport, N.Y., 94
Tel: LOckport 3-6751

Nortronics Co., 1015 S. 6th St., Minneapolis, Minn., 21, 49, 85
Tel: FE 9-7417

Norwood Controls, 934 Washington St., Norwood, Mass., 56, 68, 72, 81
Tel: NO 7-4010

Nothelfer Winding Laboratories, Inc., P.O. Box IRE, Ablemarle Ave., Trenton 3, N.J., 59
See ad on page 200
Tel: EX 2-7116

Nuclear Chicago Corp., 223 W. Erie St., Chicago 10, Ill., 72, 78
Tel: DElaware 7-3060

Nuclear Corp. of America, 9842 Manchester Rd., St. Louis 19, Mo., 62, 78
Tel: WOodland 2-2162

Nuclear Corp. of America, 400 Park Ave., New York 19, N.Y., 21, 32, 51, 62, 63, 68, 78, 86, 90, 92, 93
Tel: PLaza 8-0700

Nuclear Electronics Corp., 2925 N. Broad St., Philadelphia 32, Pa., 47, 78, 80
Tel: BAldwin 6-2300

Nuclear Environments Assoc., 2137 Neil Ave., Columbus 10, Ohio, 90
Tel: AX 9-5335

Nuclear Research Corp., Southampton, Pa., 68, 78
Tel: EL 7-5015

Nucleonic Co. of America, 196 Degraw St., Brooklyn 31, N.Y., 62, 78
Tel: MAin 4-7370

Nucleonic Prods. Co., Inc., 1601 Grande Vista Ave., Los Angeles 23, Calif., 26, 54
Tel: AN 2-1187

Nucor Research, Inc., 2421 Wolcott Ave., Ferndale 20, Mich., 85, 86, 90
Tel: JOrdan 6-7164

Nugent Electronics Co., 802 E. 8th St., New Albany, Ind., 30
Tel: WHitehall 5-7782

Numberall Stamp & Tool, 379 Huguenot Ave., Huguenot Park, S.I., 12, N.Y., 92
Tels: HOneywood 6-0814 & 6-0868

Nutron Mfg. Co., Inc., 67 Monroe Ave., Staten Island 1, N.Y., 25, 28, 47, 86
Tel: GIbraltar 7-3229

Ny-Glass, Inc., 2501 E. 68th St., Long Beach 5, Calif., 87, 89, 94, 95
Tel: NEvada 6-8440

Nylogrip Products, 499 Watertown St., Newton 58, Mass., 87

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OK Electronics, 7 Hunt Pl., Nutley 7, N.J., 37, 51, 52, 62, 65
Tel: NOrth 1-1001

O & S Research, Inc., 1811 Bannard St., Riverton, N.J., 46, 56, 86, 87, 90
Tels: in Pa., WA 5-4331 & N. J., TA 9-2800

Oak Manufacturing Co., 1260 N. Clybourn Ave., Chicago 10, Ill., 31, 52, 56
Tel: MO 4-2222

Oakton Engrg. Corp., 8225 Christiana Ave., Skokie, Ill., 16, 68
Tel: ORchard 4-6700

O'Brien Electric Corp., 6514 Santa Monica Blvd., Hollywood 38, Calif., 9, 18, 25, 28, 68
Tel: HOllywood 4-1117

Oerlikon Tool & Arms Co., P.O. Box 3049, Asheville, N.C., 90

Offner Electronics, Inc., 3912 River Rd., Schiller Park, Ill., 21, 72, 73, 74, 76
Tel: IRving 8-7067

Ogden Coil & Transformer Co., 3323 W. Cermak, Chicago 23, Ill., 29, 47, 59
Tel: VI 7-5356

Ohio Carbon Co., 12508 Berea Rd., Cleveland 11, Ohio, 53, 56
Tel: CL 2-4380

Ohio Crankshaft Co., 3800 Harvard, Cleveland 5, Ohio, 44, 88
Tel: DIamond 1-2300

Ohmart Corp., 2236 Bogen St., Cincinnati 14, Ohio, 42
Tel: PArkway 1-2302

Ohmite Mfg. Co., 3601 W. Howard St., Skokie, Ill., 3, 22, 26, 29, 52, 53, 56, 59, 69
Tel: ORchard 5-2600

Ohmweve Co., 43 Darcy St., West Hartford 6, Conn., 53
Tel: AD 2-1104

Okonite Co., 220 Passaic St., Passaic, N.J., 83
Tel: PR 7-0400

Olsen Corp., Gunnar A., 225 Broadway, New York 7, N.Y., 3
Tel: BArclay 7-8390

Olsen, M., 8942 210th Pl., Queens Village 27, N.Y., 38
Tel: HOllis 8-2199

Oltronix Co., 235 Underwood Dr., Atlanta 5, Ga., 47, 70
Tel: BL 5-2576

Olympic Prods. Co., Inc., 3rd Ave., Alpha, N.J., 25, 28, 86, 89
Tel: 5-1143

Olympic Radio & TV, Inc., 34-01 38th Ave., Long Island City, N.Y., 1, 3, 4, 10, 12, 13, 16, 17, 21, 47, 68, 71, 75, 81, 86, 90
Tel: EXeter 2-5200

Omega Instrument Co., 103 E. Altadena Dr., Altadena, Calif., 43, 58, 70, 72, 73
Tel: SY 4-8814

Omega Labs., Inc., Haverhill St., Rowley, Mass., 22, 66, 77
Tel: WHitney 8-7757

Onan & Sons, Inc., D. W., 2515 University Ave. S.E., Minneapolis 14, Minn., 47, 92
Tel: FEderal 2-1155

O'Neil-Irwin Mfg. Co., 316 8th Ave., Lake City, Minn., 92
Tel: 6301

Onondaga Pottery Co., 1858 W. Fayette St., Syracuse 1, N.Y., 26, 48, 53
See ad on page 389
Tel: HO 8-1681

Opad Electric Corp., 69-8 Murray St., New York 7, N.Y., 31, 42, 44, 47, 50, 51, 52, 68, 72, 90, 92
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Tel: BEekman 3-7548

Optical Coating Laboratory, Inc., 1035 Sebastopol Rd., Santa Rosa, Calif., 71, 90

Optimized Devices, Inc., Box 38 Gedney Sta., White Plains, N.Y., 67, 69, 72, 90
Tel: ROgers 9-6110

Optomechanisms, Inc., 216 E. 2nd St., Mineola, L.I., N.Y., 42, 58, 68, 72, 74, 79, 86, 90
Tel: PIoneer 6-5576

Optron Corp., 3526 State St., Santa Barbara, Calif., 72
Tel: WO 5-6140

Orbitral Co., Inc., Rt. #2, Box 1070, Lakeside, Calif., 20, 21, 34, 36, 59, 75
Tel: HIckory 3-6832

Ordnance Research Lab., Pennsylvania State University, University Park, Pa., 90

Oregon Electronic Mfg. Co., 2105 S.E. Sixth Ave., Portland 14, Ore., 47, 70
Tel: BElmont 6-9292

Orradio Industries, Inc., Shamrock Circle, Opelika, Ala., 16, 49
Tel: SHerwood 5-5771

Ortho Filter Corp., 196 Albion Ave., Paterson 2, N.J., 21, 22, 36, 59
Tel: MUlberry 4-5858

Oryx Co., 9015 Wilshire Blvd., Beverly Hills, Calif., 92
Tel: BRausham 2-6635

Osborne Electronics Corp., 712 S.E. Hawthorne Blvd., Portland 14, Ore., 29, 53, 59
Tel: BElmont 2-0161

Osborne Transformer Corp., 948 E. Lafayette Ave., Detroit 7, Mich., 29, 50, 59
Tel: WOodward 1-4290

Oster Mfg. Co., John, 1 Main St., Racine, Wis., 21, 24, 31, 44, 81
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Tel: MElrose 3-6331

Ostlund Associates, E. M., P.O. Box 458, Andover, N.J., 14, 21, 85, 90
Tel: PArkway 9-6635

Ostlund, Evert M., P.O. Box 458, Andover, N.J., 85
See ad on page 536
Tel: PArkway 9-6635

Otis Elevator Co., Electronic Div., 35 Ryerson St., Brooklyn 5, N.Y., 90
Tel: ULster 5-6800

Owen Labs., Inc., 55 Beacon Pl., Pasadena, Calif., 21, 42, 47, 72
Tel: RYan 1-6901

Owens-Corning Fiberglas, 598 Madison Ave., New York 22, N.Y., 83, 89, 95
Tel: MU 8-8380

Oxford Electric Corp., 3911 S. Michigan Blvd., Chicago 15, Ill., 29, 40, 46, 59
Tel: ATlantic 5-6161

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P B R Mfg. Co., H & Luzerneto, Philadelphia 24, Pa., 25, 28, 79, 86
Tel: GA 6-0932

P C A Electronics, Inc., 16799 Schoenborn St., Sepulveda, Calif., 29, 34, 36, 59
Tel: EMpire 2-0761

P S C Applied Research, 1500 O'Connor Dr., Toronto, Ont., Canada, 14, 21
Tel: PLymouth 5-3371

P S P Engineering Co., 6058 Walker Ave., Maywood, Calif., 21, 29, 44, 56, 58, 68, 81
Tel: LUdlow 3-4785

Pace Electrical Inst. Co., 70-31 84th St., Glendale 27, L.I., N.Y., 42, 67, 72
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Tel: PO 5-0453

Pacific Automation Products, 1000 Air Way, Glendale 1, Calif., 25, 68, 83, 85, 86
Tel: CHapman 5-8661

Pacific Electro Nuclear, 11818 Teale St., Culver City, Calif., 72, 78
Tels: EXmont 7-7000 & TExas 0-5052

Pacific Mercury TV Mfg., 8345 Hayven hurst, Sepulveda, Calif., 1, 4, 7, 21, 48, 86
Tel: EMpire 2-3131

Pacific Relays, Inc., 12027 Vose St., North Hollywood, Calif., 52
Tel: ST 7-0209

Pacific Resistor Co., 2186 Colorado Ave., Santa Monica, Calif., 53

Pacific Scientific Co., P.O. Box 22019, Los Angeles 22, Calif., 58, 68, 86, 88, 90
Tel: SPruce 3-2020

Pacific Semi-Conductors, Inc., 10451 W. Jefferson Blvd., Culver City, Calif., 27, 50, 54, 72
Tel: TExas 0-4881

Pacific Technical Co., 2047 Sawtelle Blvd., Los Angeles 25, Calif., 47, 76
Tel: GR 7-0455

Pacific Transducer Corp., 11836 W. Pico Blvd., Los Angeles 64, Calif., 35, 45, 72, 78, 80
Tel: GRanite 8-1134

Packard-Bell Electronics, 12333 W. Olympic Blvd., Los Angeles 64, Calif., 4, 11, 14, 15, 16, 20, 34, 47, 48, 59, 70, 77
See ad on page 204
Tel: BRadshaw 2-2171

Paco Electronics Co., Inc., 7031 84th St., Glendale 27, L.I., N.Y.,
See: Precision Apparatus Co., Inc.,

Page Communications Engineers, 710 14th St. N.W., Washington, D.C., 3
Tel: EXecutive 3-1523

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Tel: PIoneer 6-2660

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Tel: NOrthampton 3-2354

Palnut Co., Glen Rd., Mountainside, N.J., 87
Tel: AD 3-3300

Palo Alto Engrg. Co., 620 Page Mill Rd., Palo Alto, Calif., 29, 53, 59
Tel: DA 5-3251

Pameco Div., Mill Lane, Waterford, Conn., 67, 72, 86
Tel: GIbson 3-1886

Panellit Inc., Panalarm Div., 7401 N. Hamlin Ave., Skokie, Ill., 20, 42, 56, 68, 70
Tel: ORchard 5-2500

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Tel: DI 3-2483

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Paragon-Revolute Corp., 77 South Ave., Rochester 4, N.Y., 92
Tel: BAker 5-2480

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Tel: PIoneer 6-0155

Paramount Paper Tube Co., 618 Lafayette St., Fort Wayne 2, Ind., 87
See ad on page 555
Tel: A-4197

Paraplegics Mfg. Co., Inc., 10068 Franklin Ave., Franklin Park, Ill., 86
Tel: GL 5-1697

Park Nameplate Co., 34-10 Linden Pl., Flushing 54, N.Y., 87
Tel: FLushing 9-7000

Parke, Nathan Grier, Bedford Rd., Carlisle, Mass., 85
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Tel: EMerson 9-3818

Parker-Kalon Div., General American Transportation Corp., Clifton, N.J., 87
Tel: GRegory 1-1000

Parks Lab., Henry Francis, 920 Stambaugh, Redwood City, Calif., 42, 68, 85
Tel: EMerson 8-5991

Par-Metal Products Corp., 32-50 49th St., Long Island City 3, N.Y., 25, 28
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Tel: AStoria 8-8905

Parsons Co., Ralph M., 151 S. De Lacey Ave., Pasadena, Calif., 20, 21, 36, 68, 75, 86, 90
Tel: RYan 1-0461

Partlow Corp., 216 Campion Rd., New Hartford, N.Y., 42, 57, 68, 74
Tel: UTica 2-5105

Partridge Transformers, Roebuck Rd., Chessington, Surrey, England, 29, 59
Tel: ELmbridge 6737-9

Parzen, Benjamin, 34-01 38th Ave., Long Island City 1, N.Y., 85
Tel: EXeter 2-5200

Parzen, Philip, 64-35 Yellowstone Blvd., Forest Hills 75, N.Y., 85
Tel: IL 9-2761

Pass & Seymour, Inc., Boyd Ave., Syracuse 9, N.Y., 56
Tel: HO 8-6211

Patent Button Co. of Tenn., P.O. Box 1271, Knoxville 1, Tenn., 86
Tel: 2-9621

Patterson Moos Div., Universal Winding Co., 90-28 Van Wyck Blvd., Jamaica, N.Y., 21, 23, 47, 48, 68, 70, 78, 85, 86
Tel: AXtel 7-4400

Paul & Stein Bros., Inc., 235 5th Ave., New York 16, N.Y., 87, 93
Tel: MU 4-6370

Pearl Engineering & Tool, 8056 Rodney St., Philadelphia 50, Pa., 85
Tel: LIvingston 8-4103

Pearson Electronics, 707 Urban Lane, Palo Alto, Calif., 59
Tel: DA 5-3147

Peck Spring Co., 313 John St., Plainville, Conn., 81, 86, 87
Tel: SH 7-2767

Pedersen Electronics, P.O. Box 572, Lafayette, Calif., 21, 47, 65, 86
Tel: AT 3-3434

Peer, Inc., 1200 Milton St., Benton Harbor, Mich., 1, 13, 92

Peerless Elec. Prods. Div., 6920 Mc Kinley Ave., Los Angeles 1, Calif., 29, 36, 47, 59
Tel: PLeasant 8-4175

Peerless Products, Industries, 812 N. Pulaski Rd., Chicago 51, Ill., 3, 29, 84, 86, 87
Tel: BElmont 5-9883

Pee-Wee Molding Corp., 1720 Atlantic Ave., Brooklyn 13, N.Y., 86, 87, 89
Tel: PR 4-3441

Peirce Dictation Systems, 5900 N. Northwest Hwy., Chicago 31, Ill., 1, 16, 49
Tel: ROdney 3-3220

Penn-East Engineering Corp., P.O. Box 240, Kutztown, Pa., 21, 36, 59, 81, 86
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Tel: OVerbrook 3-7308

Penn Eng. & Mfg. Corp., P.O. Box 311, Doylestown, Pa., 87
Tel: ROger 6-8853

Penn Fibre & Specialty, 2024-30 E. Westmoreland, Philadelphia 34, Pa., 86, 87, 89, 95
Tel: REgent 9-4862

Penn Precision Prods., Inc., 501 Crescent Ave., Reading, Pa., 93
Tel: FRanklin 5-4361

Penn Transformer Corp., E. Bishop St. Ext., Bellefonte, Pa., 29
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Penna Fluorocarbon Co., 1115 N. 38th St., Philadelphia 4, Pa., 86, 89, 95
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Tel: SA 2-3201

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Performance Measurements, 15301 W. Mc Nichols, Detroit 35, Mich., 42, 47, 72, 81, 85
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Perkin Engineering Corp., 345 Kansas St., El Segundo, Calif., 31, 47
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Permo, Inc., 6415 N. Ravenswood Ave., Chicago 26, Ill., 45, 49, 93
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Permoflux Corp., 2300 W. Armitage Ave., Chicago 47, Ill., 9, 40, 58, 59
Tel: AR 6-3740

Permonite Mfg. Co., 444 Lake Shore Dr., Chicago 11, Ill., 30, 37, 39, 55, 83, 86, 87
Tel: MIchigan 2-1915

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Peschel Electronics, Inc., R.F.D. #1, Patterson, N.Y.

Peter Partition Corp., 124 Boerum Pl., Brooklyn 1, N.Y., 86, 87
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Tel: TRiangle 5-4033

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Tel: TWinbrook 1-4500

Petersen Radio Co., Inc., 2800 W. Broadway, Council Bluffs, Iowa, 33
Tel: 2-2760

Pettinos, Inc., Charles, 1 E. 42nd St., New York 17, N.Y., 91
Tel: MUrray Hill 7-7337

Pfaff & Kendall, 84 Foundry St., Newark, N.J., 3, 86
Tel: MArket 3-2215

Pfannkuch & Co., O. E., 952 Main St., Bridgeport 3, Conn., 26, 56, 84, 86, 89, 91, 94
Tel: FO 7-8673

Pfanstiehl Chemical Corp., 104 Lake View Ave., Waukegan, Ill.

Phalo Plastics Corp., 530 Boston Tpke., Shrewsbury, Mass., 83
Tel: VIking 4-4021

Phaostron Instrument & Electronics Corp., 151 Pasadena Ave., South Pasadena, Calif., 3, 42, 52, 53, 72
Tel: CLinton 5-1471

Phelps Dodge Copper Products, 4400 New Haven Ave., Ft. Wayne, Ind., 83
Tel: EAstbrook 0511

Phelps Dodge Copper Products, 300 Park Ave., New York 22, N.Y., 30, 83
See ad on page 524
Tel: PLaza 1-3200

Philadelphia Scientific Glass, Paletown Rd., RFD #1, Quakertown, Pa., 38, 52, 56, 57, 58, 61, 68, 71, 73, 88, 97
Tel: KEystone 6-4203

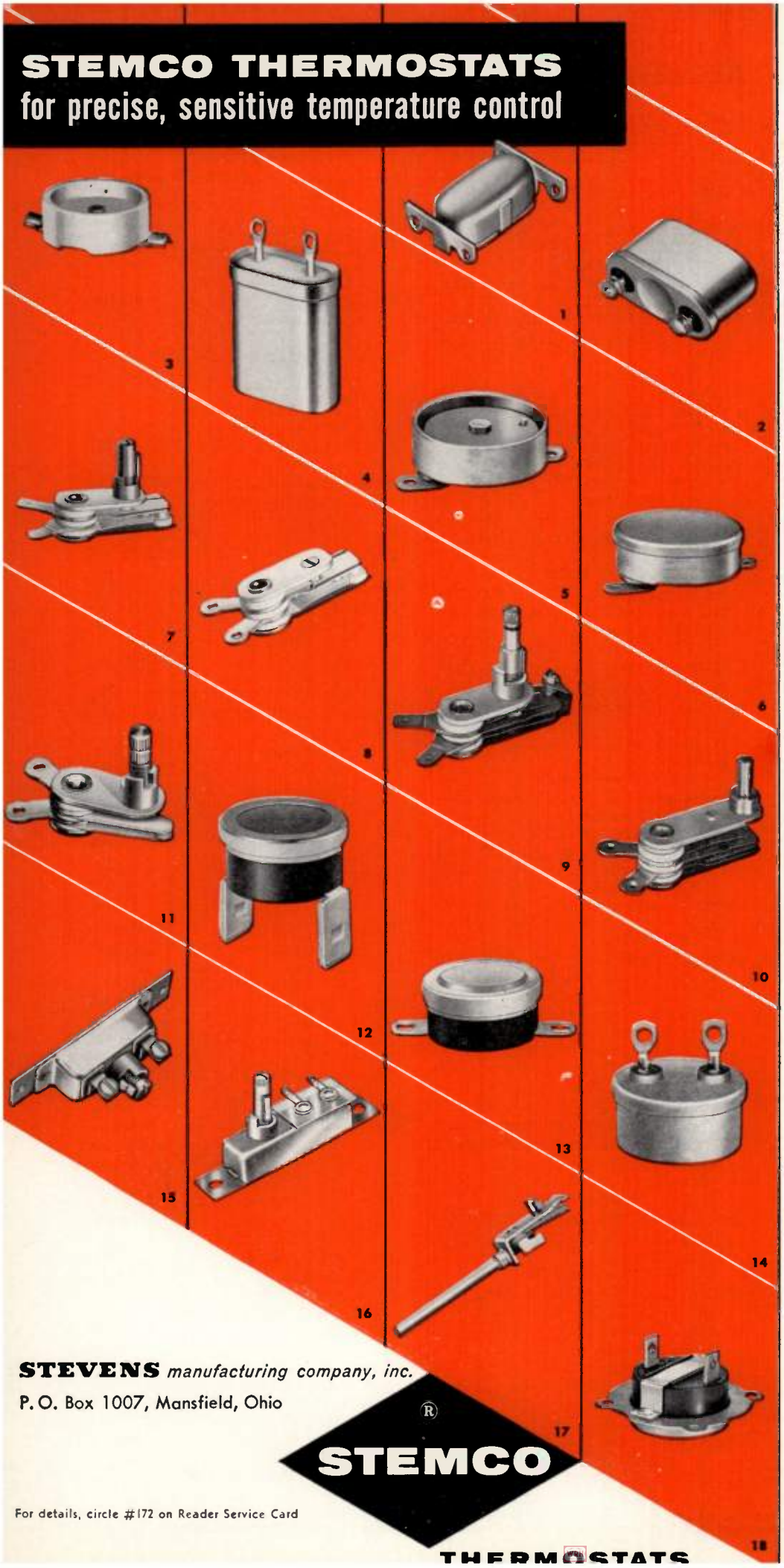
Philadelphia Wireless Tech. Institute, 1533 Pine St., Philadelphia 2, Pa., 98
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Tel: EDgewood 3-1700

Philbrick Researches, Inc., 230 Congress St., Boston 10, Mass., 21, 47, 48, 70, 99
Tel: HU 2-3225

Philco Corp., 4700 Wissahickon Ave., Philadelphia, Pa., 1, 3, 4, 5, 6, 7, 8, 9, 10, 12, 13, 14, 15, 17, 18, 19, 20, 21, 22, 25, 31, 33, 34, 36, 40, 42, 45, 47, 48, 60, 70, 72, 85, 98
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Tel: HOllywood 2-6674

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Photocircuits Corp., 31 Sea Cliff Ave., Glen Cove, N.Y., 48
Tel: GLen Cove 4-8000

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Tel: CAnal 6-7250

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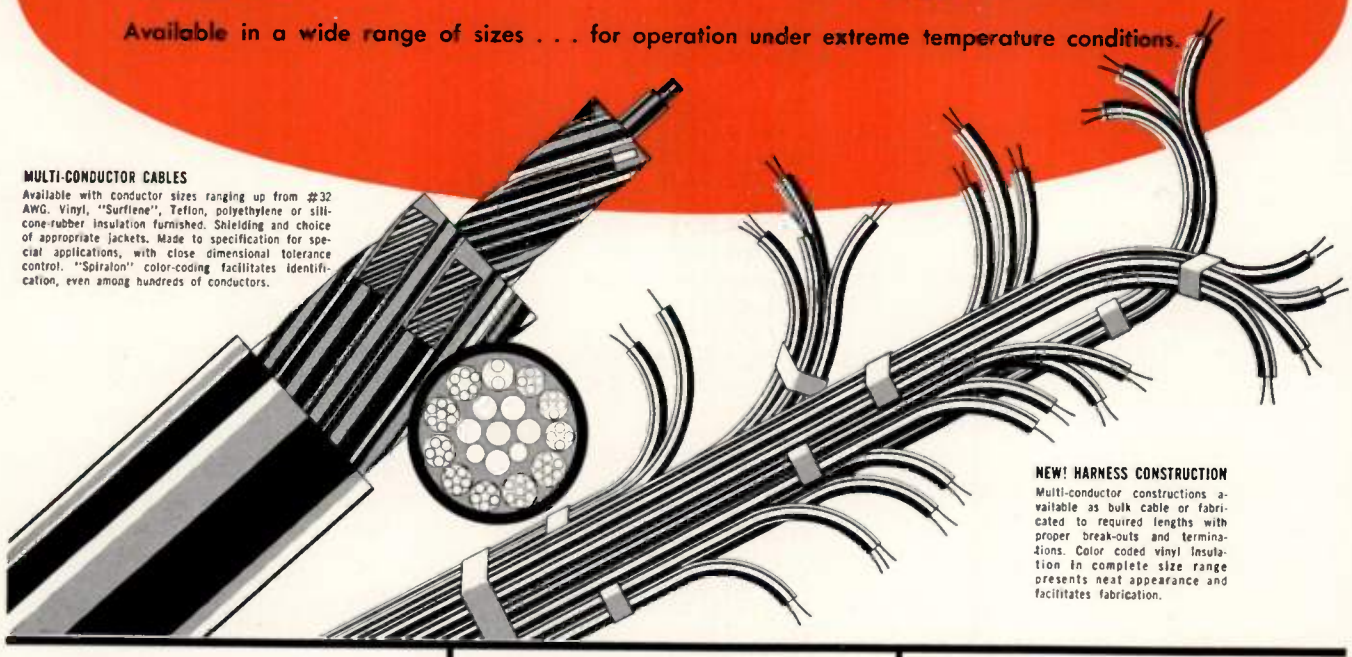
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Semimetals, Inc., 133-20 91st Ave., Jamaica 18, N.Y., 54
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Semrow Products Co., Inc., 4317 N. Ravenswood Ave., Chicago 13, Ill., 87, 93
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Sensitive Research Instrument Corp., 310 Main St., New Rochelle, N.Y., 42, 52, 67, 72
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Tel: FIeldstone 3-4100

Servo-Tek Prod. Co., 1086 Goffle Rd., Hawthorne, N.J., 21, 31, 44, 58, 65, 72, 73, 81
Tel: HAwthorne 7-3100

Servomechanisms, Inc., 12500 Aviation Blvd., Hawthorne, Calif., 21, 44, 47, 53, 59, 68, 70, 81
Tels: ORegon 8-7841 & OSborne 5-7111

Servomechanisms, Inc., 1200 Prospect Ave., Westbury, N.Y., 31, 44, 47, 81
Tel: EDgewood 3-6000

Servonic Instruments, Inc., 640 Terminal way, Costa Mesa, Calif., 30, 58
Tel: MIdway 6-2427

Servonics, Inc., 822 N. Henry St., Alexandria, Va., 21, 36, 42, 68, 70, 72, 81
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Servotrol Co., 114 W. Illinois St., Chicago 10, Ill., 53
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Signal Magazine, 1624 Eye St., N.W., Washington 6, D.C., 99
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Solartron, Inc., 10761 Burbank Blvd., N. Hollywood, Calif., 42, 67, 70, 72, 79, 92
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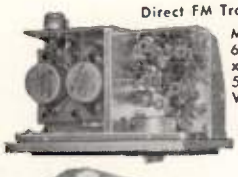


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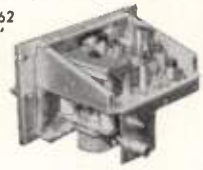
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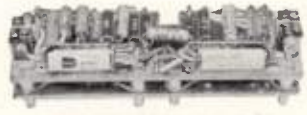
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Tel: ORegon 7-8400

States Company, The, 19 New Park Ave., Hartford, Conn., 3, 53, 87

Statham Instruments, Inc., Dept. IR, 12401 W. Olympic Blvd., Los Angeles 64, Calif., 21, 58, 72
See ad on page 432
Tel: GRanite 8-0361

Statistical Instrument Co., 330 Haven Ave., New York 33, N.Y., 36, 42, 47, 67, 72, 85,
Tel: LO 8-1223

Staver Co., Inc., The, 41 N. Saxon Ave., Bay Shore, N.Y., 33, 37, 86, 87, 96, 97
Tel: BAyshore 7-3620

Stavid Engineering, Inc., Rt. 22, Plainfield, N.J., 1, 3, 4, 5, 10, 14, 15, 20, 21, 68, 70, 72, 81, 85
Tel: PLainfield 7-1600

Sta-Warm Electric Co., 553 N. Chestnut St., Ravenna, Ohio, 88
Tel: AX 6-6462

Steafix, 17 Rue Francour, Paris, France, 26

Steel Co., Herman D., Lafayette Bldg., Philadelphia 6, Pa., 39, 56, 87
Tel: WA 5-1990

Steel Protection & Chemical Co., Inc., Bridge St., Mooresville, Ind., 83, 86, 91
Tel: MOresville 0102

Steiner-Ives Co., Springfield Rd., Union, N.J., 88
Tel: MUrdock 8-7474

Stelma, Inc., 190 Henry St., Stamford, Conn., 6, 12, 19, 31, 47, 48, 52, 67, 70
Tel: DAvis 4-7561

Stelon, Inc., 29 Passaic St., New Providence, N.J., 84, 86, 87
Tel: CRestview 3-6686

Stepper Motors Corp., 1732 W. Slauson, Los Angeles 47, Calif., 42, 44, 52, 53, 56, 68, 81, 86
Tel: AXminster 5-5421

Stereatronics, Inc., 66 Westland Rd., Weston 93, Mass., 21, 48, 70, 72, 90
Tel: TWinbrook 4-6071

Sterling Mfg. Co., 7201 Wentworth Ave., Cleveland 2, Ohio, 42
Tel: OLympic 1-5800

Sterling Precision Corp., 34-17 Lawrence St., Flushing 54, N.Y., 3, 42, 44, 68, 70, 72, 81, 86, 87, 90
Tel: PO 7-7200

Sterling Transformer Co., 297 N. 7th St., Brooklyn 30, N.Y., 59
Tel: STagg 2-4200

Stevens-Arnold, Inc., 7 Elkins St., South Boston 27, Mass., 31, 52
See ad on page 331
Tel: AN 8-1170

Stevens, Mfg. Co., Inc., P.O. Box 1007 Annex, Mansfield, Ohio, 33, 56, 57
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Tel: TUxedo 4-1311

Stevens Mfg. Co., Inc., George, Pulaski Road at Peterson, Chicago 46, Ill., 92
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Tel: JUniper 8-1300

Stevens Products, Inc., 86-88 Main St., E. Orange, N.J., 40, 86, 87, 89, 94, 95
Tel: ORange 2-2140

Stevens Walden, Inc., 475 Shrewsbury St., Worcester 4, Mass., 25, 87, 92
Tel: SWift 9-4111

Stevenson Brothers & Co., 110 Race St., Philadelphia 6, Pa., 91
Tel: MArket 7-0760

Stevenson, Merek J., 90 Laurel Hill Ter., New York 33, N.Y., 85
Tel: WAdsworth 7-6337

Steward Mfg. Co., D. M., E. 36th St. & Jerome Ave., Chattanooga, Tenn., 3, 32, 41, 49, 84, 87, 89
Tel: TAylor 1-1561

Stewart Corp., F. W., 4311-13 Ravenswood Ave., Chicago 13, Ill., 87
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Tel: GRaceland 2-6600

Stewart Engineering Co., P.O. Box 277, Soquel, Calif., 63, 88
Tel: GReenwood 5-4790

Stewart Stamping Co., 630 Central Park Ave., Yonkers 4, N.Y., 86

Stewart & Stevenson Service, 4516 Harrisburg Blvd., Houston, Tex., 47
Tel: CA 5-5341

Stewart-Warner Electrncs., 1300 N. Kostner Ave., Chicago, Ill., 1, 8, 34, 68, 70, 99
Tel: ALbany 2-1000

Sticht Co., Inc., Herman H., 27 Park Pl., New York 7, N.Y., 42, 69, 72, 75, 77
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Tel: REctor 2-8163

Stieh Chemicals, Inc., 20 Vesey St., New York 7, N.Y., 93
Tel: WOrth 4-4265

Stimpson Co., E. B., 70 Franklin Ave., Brooklyn, N.Y., 37, 87, 92, 97
Tel: ULster 5-3131

Stoddart Aircraft Radio, Inc., 6644 Santa Monica Blvd., Hollywood 38, Calif., 22, 80
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Tel: HOllywood 4-9292

Stokes Corp., F. J., 5500 Tabor Rd., Philadelphia 20, Pa., 68, 88, 92
Tel: CU 9-0100

Stone City Mach. & Tool, P.O. Box 351, Bedford, Ind., 86, 87
Tel: BRowning 5-3373

Strandberg Engrg. Labs., 416 W. Market St., Greensboro, N.C., 70, 86, 90

Strat-O-Seal Mfg. Co., 3039 Fullerton Ave., Chicago 47, Ill., 38
Tel: HUmbolt 9-1282

Stromberg Carlson, 1895 Hancock St., San Diego, Calif., 8, 19, 20, 31, 48, 61, 70
Tel: CYpress 8-8331

Stromberg-Carlson Co., 1465 N. Goodman St., Rochester, N.Y., 4, 9, 21, 45
Tel: FIllmore 2-8000

Struthers Dunn, Inc., Lambs Rd., Pitman, N.J., 52
Tel: LUther 9-7500

Stupakoff Div., See Carborundum Co., Perth Amboy, N.J.,

Sturrup, Inc., 50 Silver St., Middletown, Conn., 21, 29, 33, 34, 44
Tel: DIamond 6-9681

Sturtevant Co., P. A., 120 E. Lake St., Addison, Ill., 92
Tel: TE 4-2000

Styroformics, 17 Hawkins St., Somerville 43, Mass., 86, 89
Tel: MOnument 6-5151

Suffolk Prods., Corp., Woodbine & Scudder Aves., Northport, N.Y., 81, 86, 97
Tel: NO 3-1700

Suflex Corp., 33-30 57th St., Woodside 77, N.Y., 83, 89
Tel: NE 9-5530

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Summer and Mills, Inc., 911 W. Commerce St., Dallas, Tex., 21, 70, 73, 78, 85, 86, 90
Tel: RIverside 1-4246

Summit Coil Co., 4 Claremont Rd., Bernardsville, N.J., 29, 59
Tel: BErnardsville 8-0744

Summit Electronics, Inc., 7 Industrial Pl., Summit, N.J., 9, 18, 21, 90
Tel: CRestview 7-0584

Sun Dial Corp., Passaic Ave., Caldwell, N.J., 25, 86, 87
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Tel: CApital 6-4334

Sun Tube Corp., 181 Long Ave., Hillside 5, N.J., 87
Tel: WAverly 3-0400

Sunshine Scientific Inst., 1810 Grant Ave., Philadelphia 15, Pa., 72, 75, 90

Sunstein, David E., 1 Bala Ave., Bala-Cynwyd, Pa., 85
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Tel: GReenwood 7-1860

Supa Insulations, Inc., 123 E. Bassett St., Rocky Mount, N.C., 83
Tel: 68155

Superex Electronics Corp., 4-6 Radford Pl., Yonkers, N.Y., 3, 4, 27, 29, 32, 36, 39, 48, 59, 84, 85, 86, 87
Tel: YOnkers 5-6906

Superior Abrasive Labs., 900 Nepperhan Ave., Yonkers 3, N.Y., 87, 91
Tel: YOnkers 8-3433

Superior Electric Co., 8000 Lee Ave., Bristol, Conn., 47, 53, 59, 62, 65, 87
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Tel: LUdlow 2-9561

Superior Electronics, 208 Piaget Ave., Clifton, N.J., 97

Superior Flux & Mfg. Co., 1536 St. Clair Ave., Cleveland 14, Ohio, 96
Tel: SUperior 1-9373

Superior Graphite Co., 33 S. Clark St., Chicago 3, Ill., 91
Tel: RAndolph 6-7939

Superior Instruments Co., 2435 White Plains Rd., New York 67, N.Y., 69, 72, 82
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Tel: TUlip 2-6880

Superior Marine Radio Co., 136 St. George St., St. Augustine, Fla., 3, 5, 10, 11, 13

Superior Porcelain Co., 931½ Market St., Parkersburg, W.Va., 84
Tel: GArfield 8-9871

Superior Steatite & Ceramic Corp., 89 W. Forest Ave., Englewood, N.J., 32, 84, 89
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Tel: LOwell 8-4555

Superior Tube Co., 2500 Germantown Ave., Norristown, Pa., 97
Tel: BRoadway 5-2070, HUxley 9-7221

Supreme Process Co., 44 Bond St., Westbury, N.Y., 25, 86, 87
Tel: EDgewood 3-1555

Surface Conduction, Inc., 521 5th Ave., New York 17, N.Y., 3, 4, 5, 66, 83, 85
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Surprenant Mfg. Co., 172 Sterling St., Clinton, Mass., 83, 89
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Sutter Electronics Co., 2434 Maryal Dr., Sacramento 21, Calif., 68, 72, 82
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Sutton Publishing Co., Inc., 172 S. Broadway, White Plains, N.Y., 99

Sweet Mfg. Co., 84 Dunham St., Attleboro, Mass., 86, 87, 88, 97
Tel: ATtleboro 1-4560

Swift Textile Metalizing & Laminating Corp., 10 Love Lane, Hartford 1, Conn., 71, 89, 92

Swiss Jewel Co., Lafayette Bldg., Philadelphia, Pa., 45
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Switchcraft, Inc., 5561 N. Elston Ave., Chicago 30, Ill., 18, 30, 39, 56, 83
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Tel: SPring 4-1515

Sylvania Electric Products, Inc., 1740 Broadway, New York 19, N.Y., 33, 38, 50, 51, 54, 60, 61, 62, 63, 83, 84, 86, 94, 97
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Tel: JUdson 6-2424

Sylvania Electric Products, Inc., Estes St., Ipswich, Mass., 21, 36, 41, 47, 59
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Sylvania Electric Products, Inc., 100 1st Ave., Waltham, Mass., 14, 15, 29, 48, 70, 86, 90
Tel: TWinbrook 3-9200

Sylvania Electric Products, Inc., 100 Sylvan Rd., Woburn, Mass., 50, 54
Tel: WOburn 2-3500

Sylvania Electric Products, Inc., 700 Ellicot St., Batavia, N.Y., 3
Tel: BAtavia 3470

Sylvania Electric Products, Inc., Chem. & Metallurgical Div., Towanda, Pa., 83, 93, 97
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Tel: ANdrew 5-2121

Sylvania Electric Products, Inc., Microwave Physics Lab., 500 Evelyn Ave., P.O. Box 1296, Mountain View, Calif., 22, 32, 66
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Tel: YOrkshire 8-0051

Sylvania Electric Products, Inc., Parts Div., 12 Second Ave., Warren, Pa., 25, 37, 55, 83, 86, 94, 97
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Tel: WArren 3220

Symphony Electronics Corp., 925 South Western Ave., Los Angeles 6, Calif., 40, 43, 45, 46, 53, 54, 55
Tels: REpublic 4-1173-4 & 4-1606

Syncor Prods. Co., Inc., 30 Eastern Ave., Box 51, Malden 48, Mass., 84, 86, 87, 97
Tel: MA 2-1364

Synthane Corp., 12 River Rd., Oaks, Pa., 86, 89, 95
Tel: GLendale 2-2211

Syntorque, Inc., P.O. Box 75 Bearsville Sta., Woodstock, N.Y., 44, 81
Tel: ORiole 9-9168

Syntron Co., 242 Lexington Ave., Homer City, Pa., 50
Tel: 9-8011

Syntronic Instruments, Inc., 100 Industrial Rd., Addison, Ill., 29
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Tel: KIngswood 3-6444

System Development Corp., 2500 Colorado Ave., Santa Monica, Calif., 70
Tel: EX 3-9411

Systems, Inc., 2326 Diversified Way, Orlando, Fla., 14, 15, 85, 86, 90
Tel: GArden 4-6538

Systems Labs. Corp., 15016 Ventura Blvd., Sherman Oaks, Calif., 90
Tel: STate 9-0501

Systron Corp., 2055 Concord Blvd., Concord, Calif., 12, 31, 42, 68, 70, 72, 75, 78, 80
Tel: MUlberry 2-3650

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T A Mfg. Corp., 4607 Alger St., Los Angeles 39, Calif., 25, 83, 87
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T T Electronics, Inc., P.O. Box 180, Culver City, Calif., 21, 36, 59, 86
Tel: TExas 0-3213

Taber Instrument Corp., 111 Goundry St., N. Tonowanda, N.Y., 21, 48, 58, 68, 72, 76, 81, 90
Tel: LUdlow 2626

Tabet Mfg. Co., Inc., 1336 Ballentine Blvd., Norfolk, Va., 3, 13, 25

Tablet & Ticket Co., 1021 W. Adams St., Chicago 7, Ill., 87
Tel: HAlymarket 1-3883

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Tel: RAvenswood 1-3500

Taft Pierce Mfg. Co., Mechanic Ave., Woonsocket, R.I., 21, 68, 86, 92
Tel: POplar 2-1000

Takk Corp., P.O. Box 346, Newark, Ohio, 72
Tel: DIamond 4-3115

Talk A Phone Co., 1512 S. Pulaski Rd., Chicago 23, Ill., 9
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Taller & Cooper, Inc., 75 Front St., Brooklyn, N.Y., 12, 13, 16, 19, 20, 68, 70, 72, 73, 85
Tel: UL 8-0500

Tally Register Corp., 5300 14th N.W., Seattle 7, Wash., 70
Tel: SUnset 4-5500

Tap-A-Line Mfg. Co., P.O. Box 563, Pompano Beach, Fla., 30
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Tarc Electronics, Inc., 48 Urban Ave., Westbury, N.Y., 12, 20, 21, 39, 70, 82
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Tarzian, Inc., Sarkes, 415 N. College Ave., Bloomington, Ind., 4, 5, 27, 50, 54, 60
Tel: 2-1435

Taurus Corp., 8 Coryell St., Lambertville, N.J., 68, 87
Tel: EXport 7-1570

Taylor Fibre Co., 911 Bergen Ave., Norristown, Pa., 89, 95
Tel: GLendale 2-2811

Taylor-Winfield Corp., 1052 Mahoning Ave., Warren, Ohio, 92
Tel: 2252-1

Teca Corp., 80 Main St., White Plains, N.Y., 76
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Tech Laboratories, Inc., Bergen & Edsall Blvds., Palisades Park, N.J., 22, 36, 48, 49, 53, 56, 69, 72, 90
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Tel: WIndsor 4-2221

Tech Master Corp., 75 Front St., Brooklyn 1, N.Y., 4, 21, 60
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Technic, Inc., 39 Snow St., Providence, R.I., 86, 92, 93
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Technical Advertising Associates, Cheltenham, Pa., 99

Technical Apparatus Builders, 109 W. Liberty St., New York 6E, N.Y., 21, 24, 26, 29, 31, 36, 42, 44, 47, 50, 51, 54, 59, 62, 65, 68, 72, 81, 90, 92, 97
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Tel: REctor 2-6248

Technical Appliance Corp., 1 Taco St., P.O. Box 38, Sherburne, N.Y., 2, 3, 19
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Tel: GRanite 7-0708

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Tel: TExas 0-5461

Technical Impex Corp., 750 Main St., Winchester, Mass., 53, 61
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Technical Information Corp., 41 Union Sq., New York 3, N.Y., 85, 99
Tel: WAtkins 4-2111

Technical Manuals, Inc., 210 Main St., Hackensack, N.J., 99
Tel: DIamond 3-8730

Technical Marketing Assoc., 33 Sudbury Rd., Concord, Mass., 85
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Technical Materiel Corp., 700 Fenimore Rd., Mamaroneck, N.Y., 1, 2, 3, 10, 11, 13, 17, 18, 19, 21, 25, 30, 39, 68, 80
Tel: OWens 8-5800

Technical Measurement, 140 State St., Hamden 11, Conn., 21, 72, 78
Tel: UNiversity 5-5187

Technical Operations, South Ave., Burlington, Mass., 90
Tel: VOlunteer 2-8800

Technical Products Co., 6670 Lexington Ave., Los Angeles 38, Calif., 36, 67, 74
Tel: HO 4-8121

Technical Publishing House, 4 Tyler Rd., Lexington 73, Mass., 99
Tel: VOlunteer 2-8998

Technical Research Group, 17 Union Sq. W., New York 3, N.Y., 85
Tel: WAtkins 4-4363

Technical Service Corp., 1404 West Market, Louisville 3, Ky., 25
Tel: JUniper 7-8476

Technical Tape Corp., 240 North Ave., New Rochelle, N.Y., 87, 89, 95
Tel: BE 5-1000

Technicraft Co., 1156 Commonwealth Ave., Boston 34, M ss., 86, 87, 89, 91, 92, 95

Technicraft Labs., Inc., Thomaston Rd., Thomaston, Conn., 3, 15, 21, 22, 36, 66, 77
Tel: ATlas 3-4315

Techniques, Inc., 52 Jackson Ave., Hackensack, N.J., 48, 56, 66, 83, 84, 86, 87, 91, 97
Tel: HUbbard 9-5333

Technisonic Studios, Inc., 1201 Brentwood Blvd., St. Louis 17, Mo., 16, 35, 85
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Technitrol Engineering, 1952 E. Allegheny Ave., Philadelphia 34, Pa., 34, 59, 67, 72, 77, 79
Tel: GArfield 6-9105

Technograph Printed Electronics, Inc., 920 Northwest Blvd., Winston-Salem, N.C., 90
Tel: PArk 3-0767

Technology Instrument Corp., 535 Main St., Acton, Mass., 53
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Tech-Ohm Resistor Corp., 36-11 33rd St., Long Island City 6, N.Y., 53
Tel: ST 6-2274

Techron Corp., 81 Washington St., Boston 8, Mass., 48, 55, 86, 87
Tel: CApitol 7-7484

Teiner Co., Inc., Roland, 134 Tremont St., Everett 49, Mass., 25, 28, 86

Tektronix, Inc., P.O. Box 831, Portland 7, Ore., 21, 67, 72, 79, 80
Tel: CYpress 2-2611

Tel Electro Consulting Service, P.O. Box, 451, San Carlos, Calif., 85, 90
Tel: UL 1-0100

Tel Instrument Elecncs., 728 Garden St., Carlstadt, N.Y., 5, 12, 21, 31, 65, 72, 80, 82
Tel: WEbster 3-1600

Telco Electronics Mfg. Co., Div. of G-C Textron, Inc., Rockford, Ill., 3
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Tel: ROckford 8-9661

Tele Coil Co., 2733 Saunders St., Camden 5, N.J., 29, 59
Tel: EMerson 5-7528

Telechrome, Inc., 28 Ranick Dr., Amityville, L.I., N.Y., 1, 4, 5, 12, 13, 17, 18, 20, 21, 34, 35, 36, 47, 59, 60, 70, 79, 80, 82, 85
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Tel: LIncoln 1-3600

Telecomputing Corp., 915 N. Citrus Ave., Los Angeles 38, Calif., 10, 20, 21, 26, 34, 52, 56, 59, 68, 70, 77
Tel: HOllywood 4-3171

Telecomputing Corp., 12838 Saticoy St., N. Hollywood, Calif., 20, 70, 72
Tel: POplar 5-8160

Telecomputing Corp., 16217 Lindbergh St., Van Nuys, Calif., 68, 81
Tel: ST 3-1950

Telectro Industries Corp., 35-16 37th St., Long Island City 1, N.Y., 1, 3, 6, 9, 16, 18, 20, 21, 22, 25, 26, 27, 29, 30, 31, 32, 35, 36, 41, 42, 45, 47, 48, 49, 52, 56, 57, 59, 66, 67, 68, 70, 71, 72, 73, 77, 80, 84, 86, 87, 90, 92
Tel: YE 2-8600

Telectron Co., Broward Intl. Airport, Ft. Lauderdale, Fla., 13, 29
Tel: JAckson 4-8361

Telectrosonic Corp., 35-18 37th St., Long Island City 1, N.Y., 70
Tel: RA 1-2200

Tele-Dynamics, Inc., 32nd & Walnut Sts., Philadelphia 11, Pa., 20, 90
Tel: EVergreen 2-5015

Telegraph Condenser Co., Wales Farm Rd., Acton London W3, Eng., 26, 27, 34
Tel: ACorn 0061

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Tels: BRadshaw 2-0991 & GRanite 7-4211

Telephonics Corp., Park Ave., Huntington, N.Y., 1, 7, 13, 17, 21, 40, 43
Tel: HAmilton 3-6200

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Tel: WH 4-4161

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Tel: MAyfair 1-3171

Teletronic Laboratories, 1835 West Rosecrans Ave., Gardena, Calif., 56, 68, 86
Tel: FAculty 1-0627

Teletronics Lab., Inc., 54 Kindel St., Westbury, N.Y., 25, 42, 47, 56, 67, 72, 75, 77, 80
Tel: EDgewood 3-1027

Teletype Corp., 4100 W. Fullerton Ave., Chicago 11, Ill., 19
Tel: SPaulding 2-1040

Televex Co., 46 Lakeview Ave., Yonkers, N.Y., 45
Tel: SPencer 9-1297

Television Digest, Wyatt Bldg., Washington 5, D.C., 99
STerling 3-1755

Television Hardware Mfg. Co., Div. of G-C Textron, Inc., Rockford, Ill., 87
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Tel: ROckford 8-9661

Television Laboratories, 333 Mill St., Wauconda, Ill., 29, 59
Tel: JA 6-2511

Television Utilities Co., 112-33 Colonial Ave., Corona 68, N.Y., 4, 5, 12, 13, 21, 47
Tel: TW 8-1000

Television Zoomar Corp., 500 Fifth Ave., New York 36, N.Y., 18
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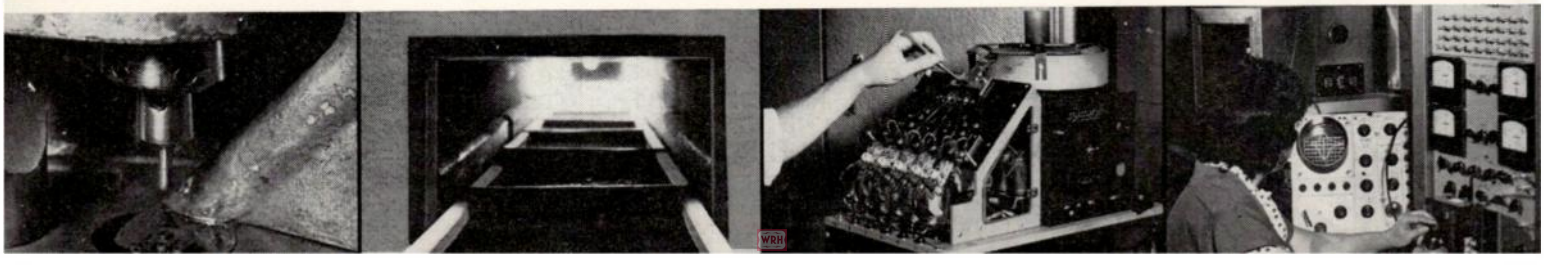
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Telrex Labs., Rt. 35, Asbury Park, N.J., 3
Tel: PRospect 5-7252

Temco Aircraft Corp., Dalton, Tex., 86, 93

Temperature Engrg. Corp., U. S. Highway 130, Riverton, N.J., 57, 68, 71, 72, 86, 88, 92
Tel: TAl 9-3880

Tempil Corp., 132 West 22nd St., New York 11, N.Y., 42
Tel: OR 5-6610

Tempo Instrument, Inc., 240 Old Country Rd., Hicksville, L.I., N.Y., 52, 68, 75
Tel: OVerbrook 1-2280

Ten Bosch, Inc., M., 80 Wheeler Ave., Pleasantville, N.Y., 21, 70
Tel: ROgers 9-3000

Tenna Mfg. Co., 7580 Garfield Blvd., Cleveland 25, Ohio, 3, 30
Tel: VUlcan 3-8080

Tenney Engineering, Inc., 1090 Springfield Rd., Union, N.J., 25, 71
Tel: MUrdock 6-7870

Tensitron, Inc., Harvard Depot Rd., Harvard, Mass., 58, 72, 85, 90
Tel: GLadstone 6-3511

Tensolite Insulated Wire Co., Inc., Dept. TEN-1, West Main St., Tarrytown, N.Y., 83
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Tensor Electric Develop., 1873 Eastern Pkwy., Brooklyn 33, N.Y., 21, 29, 36, 41, 59, 85
Tel: HY 5-9200

Tepfer & Sons, Inc., S., 651 Lexington Ave., Brooklyn 21, N.Y., 24, 25, 71, 86, 97

Terado Co., 1065 Raymond Ave., St. Paul 8, Minn., 31, 52
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Tel: MIdway 6-2514

Tesla Electric Co., 2605-7 Armitage Ave., Chicago, Ill., 9, 18, 21, 47, 67, 68, 71, 72, 85
Tel: AR 9-6100

Tetrad Co., Inc., 62 St. Mary St., Yonkers, N.Y., 42, 45
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Tel: GLadstone 3-3555

Texas Instruments Incorporated, 6000 Lemmon Ave., P.O. Box 312, Dallas 9, Tex., 1, 12, 14, 15, 20, 21, 26, 31, 47, 49, 50, 53, 54, 68, 70, 72, 73, 74
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Tel: FLeetwood 7-4311

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Theta Instrument Corp., 48 Pine St., E. Paterson, N.J., 42, 68, 69, 72, 90
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Thor Ceramics, Inc., 225 Belleville Ave., Bloomfield, N.J., 30, 32, 38, 84, 87, 89, 95
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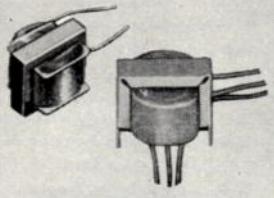
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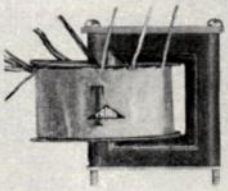




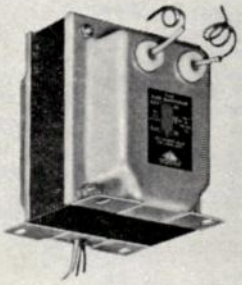
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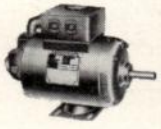


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Tel: YOnkers 9-4600

York Co., Inc., Otto H., 6 Central Ave., W. Orange, N.J., 83, 89
Tel. ORrange 7-3000

York Metal Prods., Inc., 350 Greenwich St., New York 13, N.Y., 86
Tel. WA 5-7227

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Z & W Mfg. Corp., 30240 Lakeland Blvd., Wickliffe, Ohio, 3, 11, 68, 87
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Zagar, Inc., 24000 Lakeland Blvd., Cleveland 23, Ohio, 92
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Zagora Gears, Inc., 1327 S. Mint St., Charlotte 3, N.C., 81
Tel. ED 3-7111

Zell Prods. Corp., 280 Main St., Norwalk, Conn., 30, 38, 86, 97
Tel: VIctor 7-2477

Zenith Optical Lab., 1940 Great Neck Rd., Copiague, L.I., N.Y., 71
Tel: AMityville 4-4616

Zenith Plastics Co., P.O. Box 91, Gardena, Calif., 25, 86, 95
Tel: FAculty 1-2020

Zenith Radio Corp., 6001 W. Dickens Ave., Chicago 39, Ill., 4
Tel: BErkshire 7-7500

Zephyr Mfg. Co., Inc., 201 Hindry Ave., Inglewood, Calif., 88
Tel: ORegon 8-4331

Zero Mfg. Co., 1121 Chestnut St., Burbank, Calif., 25
Tel: VIctoria 9-5521

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Zoomar, Inc., 55 Sea Cliff Ave., Glen Cove, L.I., N.Y., 4, 18
Tel: ORiole 6-1900

Zophar Mills, Inc., 112-130 26th St., Brooklyn 32, N.Y., 91
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Tel: SOuth 8-0907

1959 IRE DIRECTORY

DIRECTORY I COMMUNICATIONS

20 major groups
96 products

The products and services of the radio-electronics industry have been organized into four basic directories:

I. Communications

II. Components

III. Controls & Instruments

IV. Materials & Services

Within these four basic directories, 100 major product and service groups are numbered consecutively throughout. Under each of these 100 classes a further breakdown is given, showing in detail by a system of code numbers after each firm listed what specific products within the class are manufactured by that firm.

For a terminology cross-index listing the 852 subproducts in alphabetical order, consult the pink section preceding page 1.

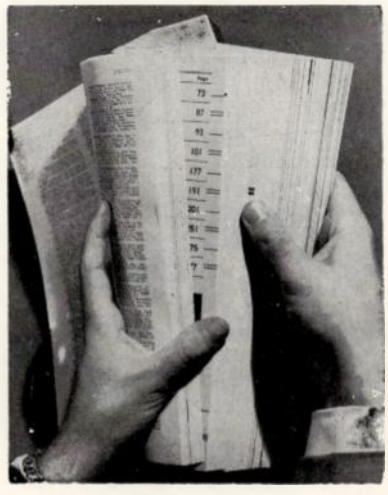
The first few times you use this EDGE INDEX

follow the "How to use" instructions slowly—one step at a time. After that you will be able to open easily and almost instantly to the section that you seek.

Machol edge indexes covering the alphabetical section and each of the four major directory groups will be found on pages 141, 241, 275, 461, and 519.

HOW TO USE

1. Bend the Directory almost double with the front cover page on the inside.
2. Hold in your right hand with your four fingers near to the bound edge and your right thumb near the middle of the open side of this page.
3. From the heavy or light line symbol adjacent to the subject you seek, run your eyes across the page edges until you reach the horizontally corresponding symbol.
4. OPEN THERE!



LICENSE NO. 25
MACHOL EDGE INDEX PATENT #2680630

For complete list of products and services, arranged alphabetically for fast reference, see the pink section preceding page 1.

1	COMPLETE DATA SPREADS
141	ALPHABETICAL DIRECTORY
241	DIRECTORY I COMMUNICATIONS
275	DIRECTORY II COMPONENTS
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519	DIRECTORY IV MATERIALS & SERVICES

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Tel: YUkon 3-3961
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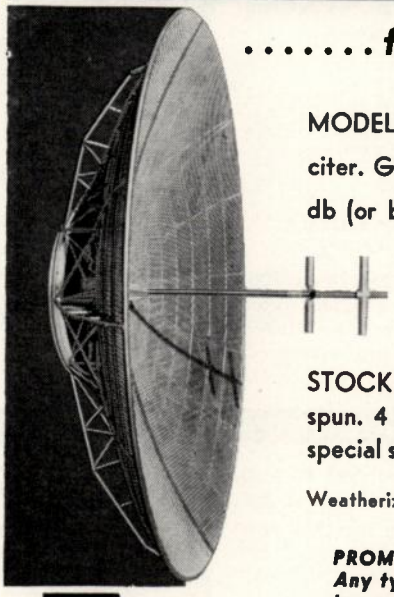
Amplifiers: See class 21

3. Antennas & Accessories.

5. AM broadcast transmitting
7. Aircraft
10. All-wave receiving
15. Amateur antennas, accessories & rotators
17. Automobile
20. Dummy
22. FM broadcast transmitting
23. Ferrite rod
24. Fixed station antenna system
25. Ground plane
26. Marine
30. Microwave
35. Mobile
40. Radar reflectors
45. Rotators
50. Supporting towers
55. TV broadcast transmitting
60. TV multiple systems
63. TV receiver
65. Tower erection & maintenance service
70. Tower lighting equipment
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ACF Industries Inc., Erco Div., Md., 17, 24, 25, 30, 75
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AINSLIE ANTENNAS



.....for the 100-500 mc BAND

MODEL CF121M — 12 ft. diameter with dipole exciter. Gain 23 db at 500 mc. Minimum side lobes 20 db (or better). Cross Polarization 20 db (or better).

Low VSWR at any frequency in the band. Accomplished through adjustable balun and reflector assembly.

STOCK REFLECTORS—4 in. to 10 ft. diameter solid spun. 4 ft. to 18 ft. diameter mesh. Larger sizes or special shapes on request. Antennas up to 10,000 mc.

Weatherized & corrosion resistant. Rugged, lightweight.

PROMPT DELIVERY
Any type antenna or reflector precision-built to your specifications.

Write for complete performance data sheets.



MODEL CF141M with 14' diameter reflector available

Ainslie CORPORATION
312 QUINCY AVENUE, QUINCY, MASSACHUSETTS
Designers & Manufacturers of Microwave Antennas & Associated Equipment
For details, circle #180 on Reader Service Card

ANDREW

Leadership for 22 Years...

ANTENNAS
ANTENNA SYSTEMS
TRANSMISSION LINES

The ANDREW product line covers the related fields of antennas for communication and broadcasting, and transmission lines to connect these antennas to transmitters, receivers or other electronic equipment.

PARABOLIC ANTENNAS



Type P4-59 4-foot antenna with waveguide horn for 5925-6425 mc.

A wide selection of standard models in a complete range of sizes and frequencies is stocked for immediate delivery. Special antennas are designed and manufactured to meet individual requirements. Here is a representative selection of stock antennas.

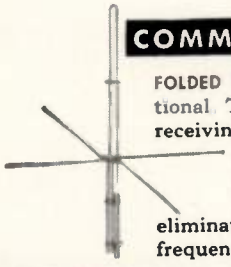
TYPE NUMBERS OF STOCK PARABOLIC ANTENNAS

Frequency Range	ANDREW Type Number			
(MC)	4 ft. dia.	6 ft. dia.	8 ft. dia.	10 ft. dia.
890- 960	P4- 8	P6- 8		P10- 8
1700-1850	P4-17	P6-17		P10-17
1850-1990	P4-18	P6-18		P10-18
1990-2110	P4-18	P6-18		P10-18
2450-2700	P4-24	P6-24		P10-24
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5925-6425	P4-59	P6-59	P8-59	P10-59
6575-7125	P4-65	P6-65	P8-65	P10-65
7125-7425	P4-71	P6-71	P8-71	P10-71

Tower or roof mounts are available for all sizes of ANDREW parabolic antennas. They must be ordered separately. T4 is a tower mount for four or six-foot antennas. For roof mounting, order Type M4. Mounts for eight and ten-foot antennas are designed for either tower or roof mounting. Order Type T8 for either of these antennas. Most standard ANDREW mounts include elevation and azimuth adjustments of at least ± 5°.

Dish and feed heaters are available as standard items and are recommended for antennas above 5000 mc in ice areas.

COMMUNICATIONS ANTENNAS



FOLDED UNIPOLES (25 mc to 174 mc) omnidirectional. The ideal fixed station transmitting and receiving antenna. Inexpensive, lightweight and easy to install. Some lower frequency models incorporate new design changes which increase wind load ratings and eliminate field cutting of vertical elements to frequency.

HIGH GAIN—for 148-174 mc, 400-470 mc. ANDREW High Gain omnidirectional antennas will increase your coverage and multiply benefits by the number of mobile units in the system. Type numbers, frequency and gain are shown below.

Omnidirectional Pattern		
Type 3000	148-174 mc	6.3 db
Type 3006	148-174 mc	9.0 db
Type 212	450-470 mc	10.0 db
Type 4000	450-470 mc	7.6 db
Type 4002	450-470 mc	5.0 db
Type 4010	400-420 mc	7.5 db

Offset Omnidirectional Pattern		
Type 201	450-470 mc	10.8 db in max. dir.
Type 3004	148-174 mc	8.1 db in max. dir.

CORNER REFLECTORS. Unidirectional antennas for 25-174 mc, 400-470 mc, and 890-960 mc. Preferred for their high gain and stable operation under severe weather conditions. Also may be utilized for low power TV transmitting in directional and omnidirectional arrays.

TRANSMISSION LINES

HELIAX, flexible air dielectric cable combines the efficiency of the finest copper cables with handling ease of solid dielectric types. Available in two sizes, 7/8", Type HO and 1 5/8", Type H1, with complete series of pressurized end fittings. Type HO may now be used up to 5000 mc.

RIGID AND SEMI-FLEXIBLE. Complete range of sizes for UHF and VHF systems. Semi-flexible soft copper cable in 3/8" and 7/8" sizes, rigid copper line 7/8" to 9" sizes. Adaptors and fittings available from stock. New 50 ohm, 6 1/8" line now available for high power applications.

WAVEGUIDE. High efficiency aluminum or copper clad steel waveguide in sizes ranging from 9 3/4" to 21" for UHF systems. Includes accessories for complete line installation.



COAXIAL SWITCH. Automatic, 50 ohm, 3 1/8", UHF and VHF. This new, automatic switch now allows high power communication systems, as well as VHF and UHF television stations, the convenience of four-second switching of 3 1/8" coaxial transmission line at powers up to 10 kw at 1000 mc. Both automatic and manual models include automatic high voltage disabling switch and remote position indicating lights.



ANTENNA SYSTEMS AND PLANNING

ANDREW Corporation offers engineering assistance in the planning of your antenna-transmission line system at no cost to you. Contact the nearest ANDREW office for this consulting service.



Be sure your library contains Andrew catalog 21 and the new product supplement, 21S.

For details, circle #181 on Reader Service Card

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Antenna Reflectors, Parabolic
Antennas, Tropospheric
Antennas, Yagi
Antennas, Mobile
Antennas, UHF and VHF
Cable, Transmission Line (all types)
Connectors, Coaxial Cable
Controls, Photoelectric
Dehydrators, Automatic
Filters, Microwave
Filters, UHF and VHF
Lighting Equipment, Tower
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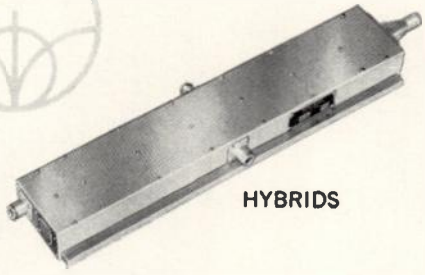
Affiliates

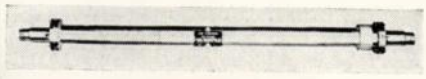
LOS ANGELES: Andrew Calif. Corp., 941 E. Marylind Ave., Claremont, Calif., Phone: NAtional 6-3505
TORONTO: Andrew Antenna Corp., Ltd., 606 Beech St., Whitby, Ontario, Phone: MOhawk 8-3348

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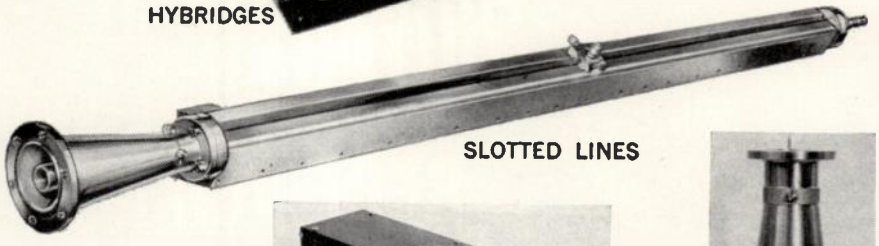

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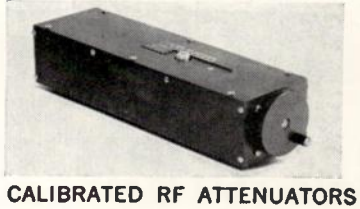

HYBRIDS

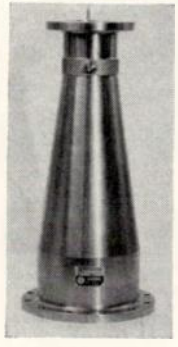

LINE STRETCHERS

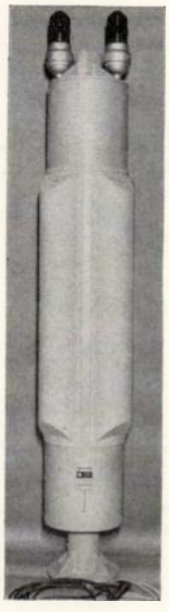

RF TRANSFORMERS

HYBRIDGES


SLOTTED LINES

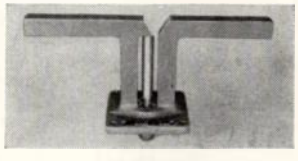

CALIBRATED RF ATTENUATORS

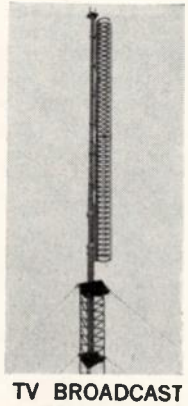

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TV BROADCAST ANTENNAS FOR VHF AND UHF

ANTENNA SYSTEMS – COMPONENTS – AIR NAVIGATION AIDS – INSTRUMENTS

AMCI ALFORD *Manufacturing Co, Inc.*

299 ATLANTIC AVE., BOSTON, MASS.

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3. Antennas & Accessories.

American Electronics Co., N.Y., 15
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Andrew Corp., 363 E. 75th St., Chicago 19, Ill., 22, 24, 25, 30, 35, 40, 55, 75, Masts, Missile Tracking
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Tel: WAlker 5-6980
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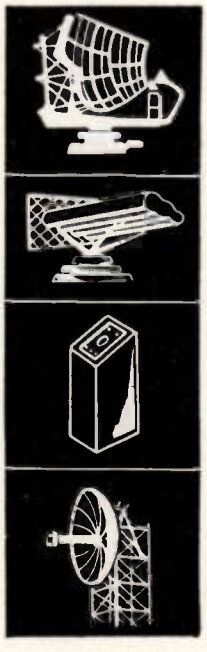


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It is called Integrated Antenna System Planning at General Bronze. Every mechanical and electrical function essential to your needs is studied, and the related products developed and produced —all as part of one coordinated project.

This concentration of responsibility and authority in a single design, development and production team, concerned only with your specific requirements, assures maximum efficiency for your application. Because there are no pre-designed models forced to serve a multitude of needs, there is no averaging of requirements.

General Bronze specializes in Integrated Antenna Systems for scatter propagation, telemetering, radar, radio astronomy, missile tracking, communication studies.



ANTENNAS — *Airborne, ground support and missile tracking.* From specialized airborne to larger radio telescopes. S.V.E.*—Swept Volume Efficiency — a new concept in VHF-UHF antenna design allows swept volume reductions as great as 10 times for large VHF-UHF rotating antennas, or conversely gain improvements of 50 to 200% in the SAME volume. Ideal for shipborne and airborne radar, and UHF communication.

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PEDESTALS, TOWERS AND SUPPORTS — All types, all sizes, specially designed to attain the application requirements.

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For your antenna system requirements, rely on General Bronze. Write today for information on your specific antenna system needs.

GB ELECTRONICS CORPORATION

VALLEY STREAM, NEW YORK
SUBSIDIARY OF GENERAL BRONZE CORPORATION

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Control Electronics Co., Inc., 10 Stepar Place, Huntington Station, L.I., N.Y., 20
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JFD Electronics Corp., 1462 62nd St., Brooklyn 19, N.Y., 7, 10, 17, 35, 45, 50, 63, 75
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Tel: DEwey 1-1000

Gabriel electronics division

THE GABRIEL COMPANY

INTEGRATED ANTENNA PROGRAMS

33,000 mc

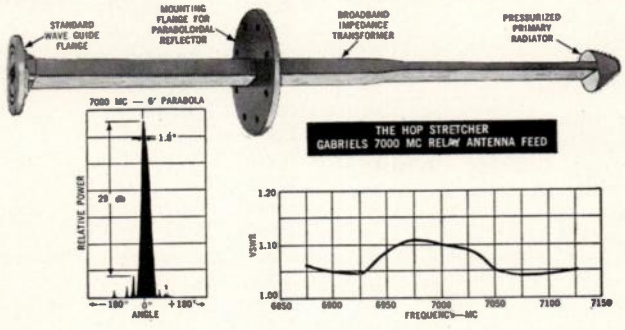
25 mc

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New Products

The HOP-STRETCHER feeds offer higher gain, lower sidelobe levels and more desirable beam-widths for center-fed parabolic antennas. This feed was developed for S, X, K_u and K_a bands.

Technical features of X-band antenna • Sidelobes at least 24 db down on 4, 6, 8 and 10 ft. reflectors • High gain efficiency, 65-70%



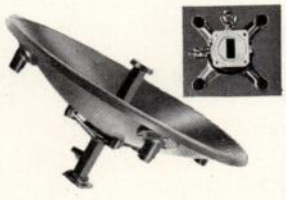
THE HOP STRETCHER
GABRIELS 7000 MC RELAY ANTENNA FEED



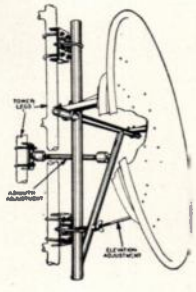


The new hi gain 3 kmc Cylindrical Coaxial Feed provides similar E and H-plane patterns, minimum side and backlobes, and negligible squint. Rear-mounted, with easy polarization adjustment to any angle.

7000 mc Offset Antenna. Ideal for installations where passive reflectors are utilized — VSWR less than 1.1:1 over 5900-8500 mc — Sidelobes at least 24 db down — gain is 41 db at 7000 mc. Elliptically shaped reinforced fiberglas reflector.

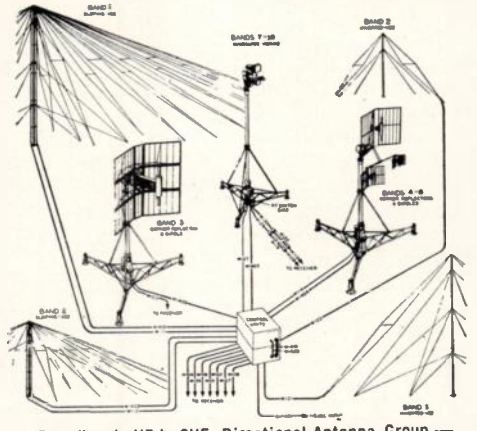


The new X-band parabolic antenna with standard feed. Features variable polarizing adjustment, 0 to 90°. Manually locked in position.



The new universal 3-point suspension mounting bracket for 2, 4, 6, 8 and 10 ft. parabolic reflectors.

Features • Independent azimuth adjustment. • Independent elevation adjustment. • Adaptable for mounting in all locations.



Broadband, HF-to-SHF, Directional Antenna Group — Remotely controlled.



Low-drag Airborne Flush-mount Antenna.
Beacon — Countermeasures — Homing — Navigation

Missile Antennas — Telemetering, Destruct, Guidance
ICBM, Surface-to-Air, Air-to-Air, and Surface-to-Surface.

Radar Antennas

- Shipborne Search
- Harbor Control
- Airborne Height Finding
- Land Base Search

Designed, developed, and constructed to military specifications with improved strength-to-weight ratio and component reliability.

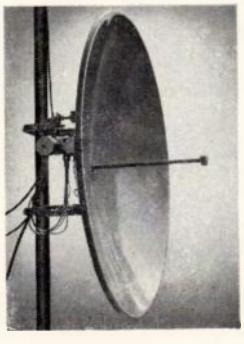




Aleutian Line—Dew Line
Low loss, heavy duty duplex feed horns for Tropospheric Scatter Radio Communication Systems.



Motorized Passive Reflector
For maximum point-to-point transmission in microwave relay links. Fast, accurate, easy adjustment from remote location. Manually adjusted reflectors also available.



GABRIEL'S STANDARD MICROWAVE PARABOLIC ANTENNAS

...Contributing millions of trouble-free operational hours for industry and the military.

- 7000 mc — Broadband (5925-7425 mc) high gain > 40 db low sidelobes — low VSWR < 1.13:1 over band.
- 4000 mc — Narrow-beam broadband (3700-4200 mc) — low VSWR < 1.2:1 — gain > 37 db.
- 2000 mc — Available in offset and center-fed feeds. Narrow-beam broadband (1750-2110 mc) — high gain > 28 db low VSWR < 1.3:1 over band
- 940 mc — All weather radome covered feed — gain > 22 db low VSWR < 1.25:1.

The Gabriel Electronics Division is one of the world leaders in microwave relay link antennas, and the more complex antennas. They are dedicated to improve and extend the state-of-the-art in antennas and antenna components.

Call or write to GABRIEL ELECTRONICS DIVISION for counsel on your antenna needs.

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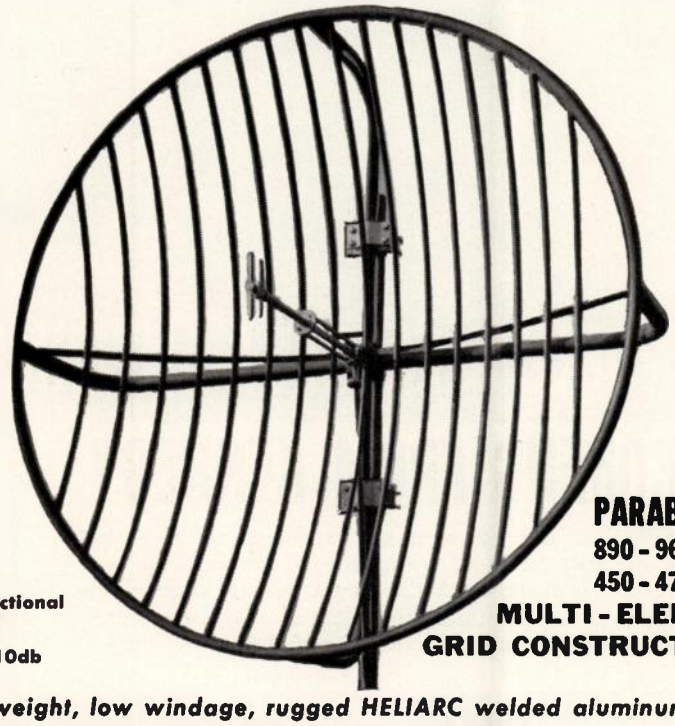
135 CRESCENT RD., NEEDHAM HEIGHTS 94, MASSACHUSETTS — phone NEedham 3-0005

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3. Antennas & Accessories.

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Lambda-Pacific Engr., Inc., Calif., 30
Lapointe Industries Inc., Printed Circuit Div., Conn., 7, 10, 15, 26, 30, 35, 45, 60, 75
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also
150 & 450 MC
Omnidirectional Arrays—
gains to 10db

PARABOLAS
890 - 960 MC
450 - 470 MC
MULTI - ELEMENT
GRID CONSTRUCTION*

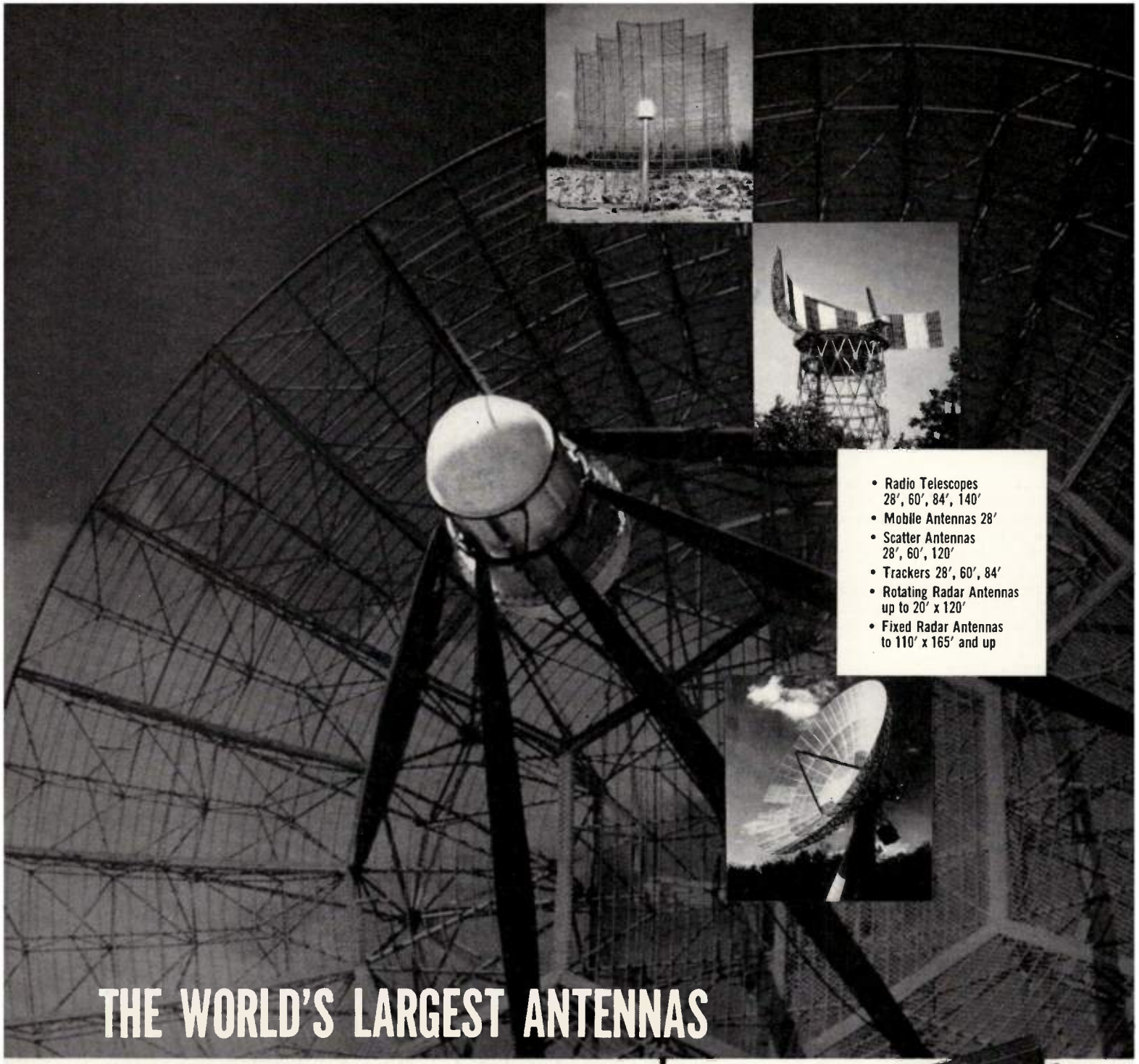
light weight, low windage, rugged HELIARC welded aluminum
open construction permits lighter, lower cost towers
Parabolas up to 15' diameter
retain electrical properties of solid spun dish up to 1000 MC

* patent applied for

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Code numbers shown after each firm refer to product or service sub-classes listed at the beginning of each major classification. Complete addresses will be found in the Alphabetical Directory.



- Radio Telescopes 28′, 60′, 84′, 140′
- Mobile Antennas 28′
- Scatter Antennas 28′, 60′, 120′
- Trackers 28′, 60′, 84′
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Kennedy builds them big — to meet the expanding needs of electronics. And Kennedy builds them rugged — to withstand the most demanding conditions of climate. What's more, we have the complete facilities and engineering skills to develop, design, build, and erect any antenna system within the realm of creative engineering imagination.

For more complete information, send for your free copy of the handy file-size Kennedy Antenna Equipment folder.



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a complete line to achieve highest transmitted power, lowest standing wave ratio, trouble-free operation.

- Complete feed systems — designed and installed
- Dual and linear polarization horns
- Transitions
- Duplexers
- Straight sections and bends
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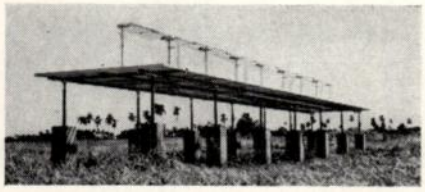
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ANTENNAS

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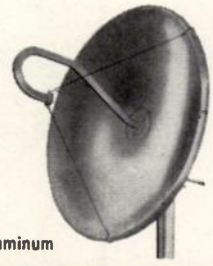


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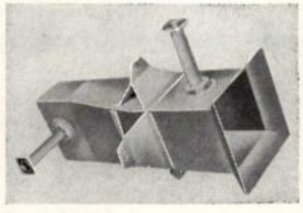


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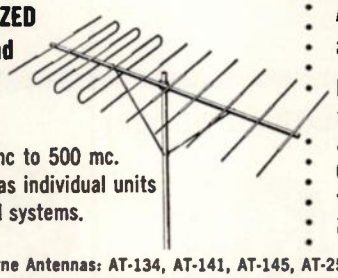


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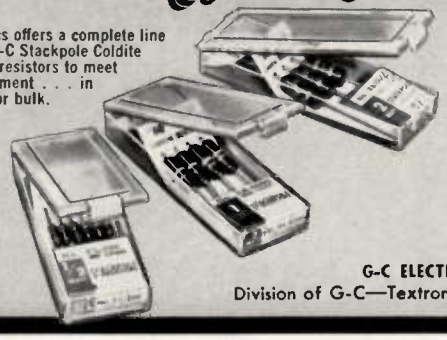
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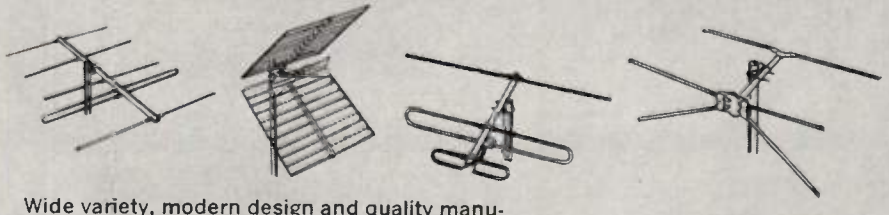


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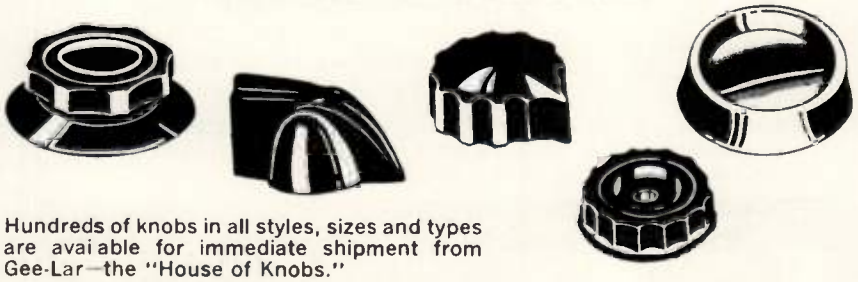


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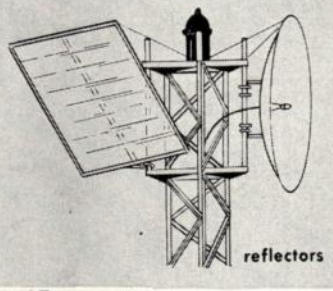
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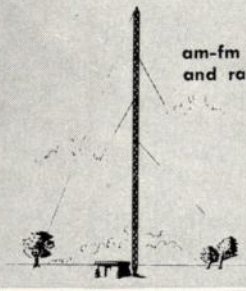
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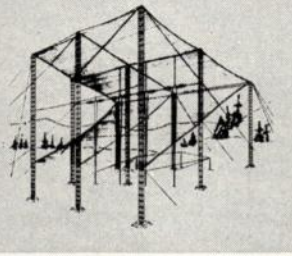
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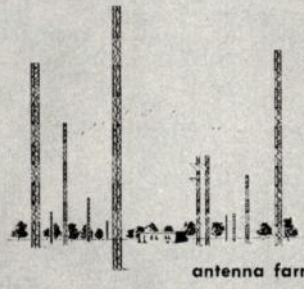


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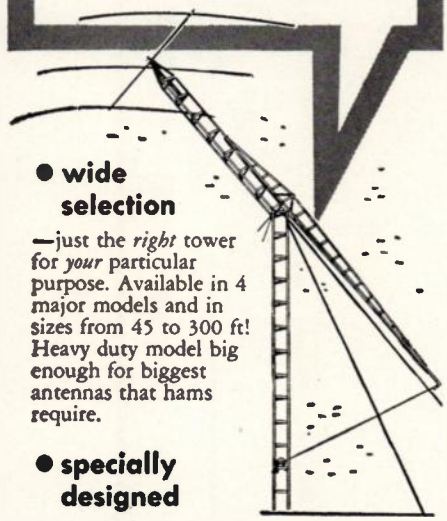
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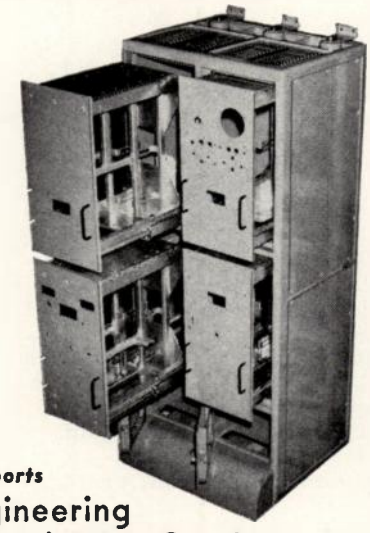
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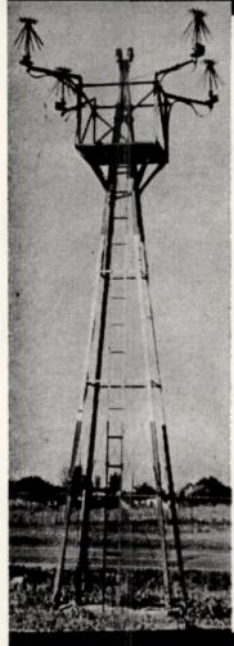
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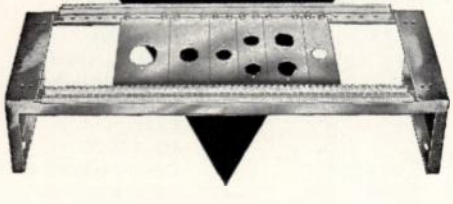
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Industrial Television, Inc., N.J., Transistorized
Insul-8 Corp., Calif., 20, 30
Intercontinental Electronics Corp., N.Y., 5, 10, 20, 30
International Telephone & Telegraph Corp., Calif., 30
International Telephone & Telegraph Corp., Industrial Prods. Div., Calif., 30
Jerrold Electronics, Ltd., Canada, 30
Jerrold Electronics Corp., Dept. 23, Jerrold Bldg., 15th & Lehigh, Philadelphia 32, Pa., 30
See ad on page 518
Tel: BAldwin 6-3456
KinTel, Div. Cohu Electronics, 5725 Kearny Villa Rd., San Diego 11, Calif., 30
See ad on pages 80-81
Tel: BRowning 7-6700
Link Radio Corp., N.Y., 15
Litton Industries, Md., 35
Magnavox Co., Ind., 5, 10, 15, 20, 25
Mandex Mfg. Co., Inc., Ill., 5, 10, 15, 20, 25, 30, 35 Parts Term Boards
Marconi Instruments, 111 Cedar Lane, Englewood, N.J., 35
See ad on page 502
Tel: LOwell 7-0607
McLaughlin Research Corp., N.Y., 30
McIntosh Lab. Inc., N.Y., 5, 15
Molded Insulation Co., Pa., 5
Morrow Radio Mfg. Co., Ore., 5
Mosler Research Prods., Inc., Conn., 15
Motorola, Inc., Ariz., 5, 10, 15, 20, 25, 30, 35
Mullard Overseas, Ltd., Eng., 5, 10, 15
National Co., Inc., Mass., 5, 10, 35
Nems-Clarke, Inc., Md., 15, 20
Newcomb Audio Products Co., Calif., 5, 15
Olympic Radio & TV, Inc., N.Y., 5, 10, 15, 20, 25, 30
Pacific Mercury Television Mfg. Corp., Calif., 20, 25
Packard-Bell Electronics, 12333 W. Olympic Blvd., Los Angeles 64, Calif., 5, 15, 20, 25
See ad on page 204
Tel: BRadshaw 2-2171
Panseal, Inc., N.J., 15, 25

Directory I. Communications

4. Broadcast Receivers.

Philco Corp., Government & Industrial Div., Pa., 5, 10, 15, 20, 25, 30, 35
Port-O-Vox Corp., N.Y., 35
Precise Development Corp., N.Y., 5, 15
Precision Radiation Instruments, Calif., 30
Prescott Television Co., 20
Pye Telecommunications Ltd., Eng., 5
Radio Corp. of America, Defense Elec. Prod., N.J., 5, 10, 15, 20, 25, 30, 35
Radio Engineering Co., N.Y., 5, 15
Rauland-Borg Corp., Ill., 5, 15
Resitron Labs., Inc., Calif., 30
Rhein Sound Systems, Inc., Conn., 5, 15
Sargent-Rayment Co., Calif., 5, 15
Scott, Inc., Hermon Hosmer, Mass., 5, 15
Seeley Electronics, Calif., 35
Servo Corp. of America, N.Y., 15, 35
Setchell-Carlson, Inc., Minn., 20
Simpson Mfg. Co., Inc., Mark, N.Y., 5, 15
Skiatron, Inc., N.Y., 30

Specific Products, 21051 Costanso St., P.O. Box 425, Woodland Hills, Calif., WWV
See ad on page 256
Tel: DI 0-3131

Stavid Engineering, Inc., N.J., 35
Stromberg Carlson Special Products Div., N.Y., 5, 15
Superex Electronics Corp., N.Y., 5
Surface Conduction, Inc., N.Y., 30, 35
Taffet Radio & TV Co., N.Y., 5, 10, 15, 35
Tarzian, Inc., Sarkes, Ind., 20, 30, 35
Tech Master Corp., N.Y., 5, 10, 15, 20, 25, 30, 35 Kits

Telechrome, Inc., 28 Ranick Drive, Amityville, L.I., N.Y., 20, 25, 30, 35
See ad on page 228
Tel: LIncoln 1-3600

Television Utilities Corp., N.Y., 30
Trans-Aire Electronics, Inc., N.Y., 5
Translite Electronics Corp., Ill., 5
Transvision Inc., N.Y., 20, 30
Wells-Gardner & Co., Ill., 5, 10, 15, 20, 25, 35
Westbury Electronics, Inc., N.Y., 5
Westinghouse Electric Corp., N.J., 5, 15, 20, 25
Zenith Radio Corp., Ill., 5, 15, 20, 25
Zoomar, Inc., N.Y., 30

5. Broadcast Transmitters.

5. AM broadcast & STL equipment
10. FM broadcast 20. TV broadcast
12. Fixed Frequency 25. TV closed circuit
15. Relay broadcast 35. UHF-VHF

ACF Industries Inc., ERCO Div., Md., 35
AME, France, 5
Adler Electronics Inc., N.Y., 15, 35
American Microwave Corp., Calif., 15
American Missile Prods. Co., Inc., Calif., 35
Amplitel, Inc., N.Y., 25
Amtron Corp., Mass., 10

5. Broadcast Transmitters

Applied Research, Inc., 76 S. Bayles Ave., Port Washington, L.I., N.Y., 35
See ad on page 276
Tel: POrt Washington 7-8707

Autometric Corp., N.Y., 25
B & K Mfg. Co., Ill., 25
Bell Aircraft Corp., N.Y., 35
Blonder-Tongue Labs., Inc., N.J., 25
Budelman Electronics Corp., Conn., 12
Burke & James, Inc., Ill., 25
Canadian GE Co., Ltd., Canada, 5, 10, 12, 15, 20, 25, 35
Collins Radio Co., Iowa, 5, 10, 15, 35
Conrac, Inc., Calif., 25
Continental Electronics Mfg. Co., Tex., 5, 12, 20, 35
Crosley Brd'cst'g. Corp., Ohio, 20
DuMont Labs., Inc., A. B., Instrument Div., N.J., 25
DuMont Labs., Inc., A. B., Internat'l Div., N.Y., 25
E M I Elecncs Ltd., England, 10, 20, 25, 35
Eldico Electronics, Div. of Radio Eng. Labs., Inc., N.Y., 5, 10, 12, 15, 35
Electronics Develop. Co., Inc., Calif., 20
Erco Radio Labs., Inc., N.Y., 5, 10, 12, 20

Foto-Video Labs., Inc., 36 Commerce Rd., Cedar Grove, N.J., 25
See ad on page 376
Tel: CEnter 9-6100

Gates Radio Co., Ill., 5, 10, 12, 20
General Electric Co., Apparatus Sales Div., N.Y., 25
General Electric Co., Technical Prods. Dept., N.Y., 20, 25, 35
General Electronic Labs., Inc., Mass., 15
General Precision Lab., Inc., N.Y., 25
Grimson Color, Inc., N.Y., 25, Wide Screen
Gulton Industries, Inc., Nuclear Instru. Div., N.M., 35
Hi-Video Inc., N.Y., 25
Insul-8 Corp., Calif., 20, 25
Intercontinental Electronics Corp., N.Y., 5
International Telephone & Telegraph Corp., Calif., 25
International Telephone & Telegraph Corp., Ind. Prods. Div., Calif., 25
Jerrold Electronics Ltd., Canada, 25

Jerrold Electronics Corp., Dept. 23, Jerrold Bldg., 15th & Lehigh, Philadelphia 32, Pa., 25
See ad on page 518
Tel: BAldwin 6-3456

Kay Electric Co., Dept. ID-9, Maple Ave., Pine Brook, N.J., 25
See ad on page 516
Tell: CApital 6-4000

KinTel, Div. Cohu Electronics, 5725 Kearny Villa Rd., San Diego 11, Calif., 25
See ad on pages 80-81
Tel: BRowning 7-6700

Lambda-Pacific Engr. Inc., Calif., 15

Ling Electronics, Inc., 9937 W. Jefferson Blvd., Culver City, Calif., VLF
See ad on page 488
Tel: TExas 0-7711

Ling Systems, Inc., Calif., 15
Link Radio Corp., N.Y., 10
Litton Industries, Md., 35
Mandex Mfg. Co., Inc., Ill., 5, 10, 12
Marconi's Wireless Telegraph Co., Ltd., England, 5, 10, 12, 15, 20, 25, 35
McLaughlin Research Corp., N.Y., 25
Morrow Radio Mfg. Co., Ore., 5
Mosler Research Prods., Inc., Conn., 10
Motorola, Inc., Ariz., 5, 10, 12, 15, 20, 25, 35
Mullard Overseas, Ltd., Eng., 5, 10
National Co., Inc., Mass., 35
Panseal, Inc., N.J., 35
Philco Corp., Government & Industrial Div., Pa., 5, 10, 12, 15, 20, 25, 35
Philco Corp., Western Development Labs., Calif., 15, 35
Port-O-Vox Corp., N.Y., 35
Pye Telecommunications, Ltd., England, 5
Radio Corp. of America, Defense Electronics Prod., N.J., 5, 10, 20, 25, 35
Radio Engineering Labs., Inc., N.Y., 10, 15, 35
Raytheon Mfg. Co., Mass., 15
Siemens & Halske A.G., Germany, 20, 35
Skiatron, Inc., N.Y., 25
Standard Electronics, Div. of Radio Engrg. Labs., Inc., N.Y., 5, 10, 20, 25, 35
Stavid Engineering, Inc., N.J., 35
Superior Marine Radio Co., Fla., 5
Surface Conduction, Inc., N.Y., 15, 25, 35
Taffet Radio & TV Co., N.Y., 5, 10, 12
Tarzian, Inc., Sarkes, Ind., 15, 20, 25, 35

Telechrome, Inc., 28 Ranick Drive, Amityville, L.I., N.Y., 10, 12, 15, 20, 25, 35
See ad on page 228
Tel: LIncoln 1-3600

Tel-Instrument Electronics Corp., N.J., 25
Television Utilities Corp., N.Y., 25, 35
Visual Electronics Corp., N.Y., 5, 10, 15, 20, 25

Cabinets & Consoles: See class 25

Cameras: Oscilloscope: See Class 79

Cameras: Television: See class 18

Code numbers shown after each firm refer to product or service sub-classes listed at the beginning of each major classification. Complete addresses will be found in the Alphabetical Directory.

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ALFAX PAPER AND ALDEN ADJUSTERLESS RECORDING TECHNIQUES MAKE POSSIBLE—

• ***New Accuracies and Resolution in Direct Graphic Recording!***

Record full range of your electronic signal outputs—monitor processes and operations directly and instantaneously on Alfax Paper —no pens or ink—up to 17 step permanent tone shades.



Magazine Fact Finder— 2 Channels Plus Timing

Here is a compact Magazine Recorder which will permanently record two separate operations and automatically print a recurring time signal on the Alfax Tape. Simple to install—they will operate unattended — remotely or on the spot.



Multi-Channel Fact Finder— 30 Channels Plus Timing

Record thirty channels of on-off data by merely supplying current to writing styli—no pens or inks—simple motion switches are easily installed to make or break writing current to Alfax Paper. Ideal for monitoring production operations and processes, this compact, rugged recorder is portable for lab, factory and field use.



Alden "Flying Spot" Component Recorders

Get hi-resolution tone shade recordings on Alfax Paper of detecting instruments using scanning or sweep methods to collect data. Synchronize Alden "Flying Spot" with sweep or rep rate of your equipment—use direct signal outputs to mark Alfax with tone shades proportional to signal variations. Ideal for sonar, radar, facsimile, ultrasonic and magnetic flaw detection etc.



Alden Curve Plotters

The Basic Helix Recorder with special electronics can provide continuous, automatic curve plotting of phenomena converted to voltage. Any number of channels can be recorded simultaneously along with standard or reference signals so that the information is instantly and permanently self-calibrated.

• ***Fastest, Most Accurate Means of Communication!***

New high and low speed Alden facsimile recording systems using Alfax Paper are the most accurate means of communication today —are simple to install and operate virtually unattended.



High Speed Selective Dispatch Facsimile System

Specially designed to permit selection of pertinent data from any copy — letters, dispatches, reports, etc. — for instant transmission to wherever needed—yet complete reproductions can also be sent. 72 square inches of copy, 1800 words of newspaper type, or 900 words of typewriter text can be transmitted and received per minute.



Continuous Reproduction Facsimile System

Extremely high quality reproduction of large copy: such as newspapers, weather maps, blueprints, finished advertising layout, drawings, photographs, etc., can be transmitted easily with this equipment. Copy is scanned flat and reproduction automatically on remote continuous recorder.



Alden Giant Bulletin System

Fastest, accurate means of disseminating information to large groups of people. Automatically provides changing "up to the minute" bulletins 4 feet wide and up to 10 feet high and as much as 12 square feet of copy per minute, enlarged 10 times from remote flat-copy scanner as sent either by wire or a microwave system.

WRITE FOR LITERATURE on Alfax or Alden Recorders to:

ALDEN ELECTRONIC AND IMPULSE RECORDING EQUIPMENT CO.

Alden Research Center Westboro 6, Mass.

For details, circle #195 on Reader Service Card

6. Carrier Current Equip.

5. Complete terminal equip. 10. Repeat & relay equip.

Adler Electronics, Inc., N.Y., 10
Aermotive Equip. Corp., Mo., 5
American Microwave Corp., Calif., 10
Automatic Electric Co., Ill., 5, 10
Barker & Williamson, Inc., Pa., 5, 10
Budelman Electronics Corp., Conn., 5
Canadian GE Co., Ltd., Canada, 5, 10
Canadian Westinghouse Co., Ltd., Canada, 5, 10
Communications Equip. & Engrg. Co., Ill., 5, 10
Connecticut Tel. & Elec. Co., Conn., 5, 10
Cook Electric Co., Ill., 10
Crescent Eng. and Res. Co., Calif., 5, 10 Translator
Erco Radio Labs., Inc., N.Y., 5, 10
Etelco Ltd., England, 5, 10
General Dynamics Corp., Stromberg-Carlson Div., N.Y., 5, 10
General Electric Co. Communication Prods., N.Y., 10
Hosmer & Co., E. A., Calif., 5
Intercontinental Electronics Corp., N.Y., 5, 10
Lenkurt Electric Co., Inc., Calif., 5, 10 Complete Systems
Lesa, S. P. A., Italy, 5
Link Radio Corp., N.Y., 10
Lynch Carrier Systems, Inc., Calif., 5, 10
Mandex Mfg. Co., Inc., Ill., 5
Marconi's Wireless Telegraph Co., Ltd., England, 5, 10
Marine View Electronics, Inc., N.Y., 5
Model Engineering & Mfg., Inc., Ind., 10
Moore Associates, Inc., Calif., 5
Motorola, Inc., Ariz., 5, 10
North Electric Co., Ohio, 5
Northeast Electronics Corp., N.H., 10
Northern Electric Co., Ltd., Canada, 5, 10
Philco Corp., Government & Industrial Div., Pa., 5, 10
Pye Telecommunications Ltd., England, 5
Radio Engineering Prods., Canada, 5, 10
Radio Research Instrument Co., N.Y., 5, 10
Railway Communications Inc., Mo., 5, 10
Siemens & Halske, A. G., Germany, 5, 10
Stelma, Inc., Conn., 5, 10
Telecto Industries Corp., N.Y., 5, 10
Twin Lock, Inc., Calif., 5
Westinghouse Electric Corp., Pa., 5

Cathode-Ray Tubes: See class 61

Consoles, cabinets & enclosures: See class 25

Consoles, studio: See class 18

Couplings: See class 66

Cutting heads & styli: See class 49

Data recorders: See class 20

Disk recorders: See class 16

Disks, blank: See class 49

Embossing recorders: See class 16

7. Emergency Communications Equipment.

5. Despatching equipment 10. Walkie-talkies

Alden Electronic & Impulse Recording Equipment Co., Alden Research Center, P.O. Box 125, Westboro 6, Mass., 5
See ad on this page
Tell: FOrest 6-4467

Allied International Co., N.Y., 10
Antrex Corp., Ill., 10
Avco Mfg. Co., Crosley Div., Ohio, 10
Bendix Aviation Corp., Md., 10
Bendix Aviation Corp., Mobile & RR Prods. Div., Md., 5, 10
Bliss Electric Corp., N.J., 5
Canadian GE Co., Ltd., Canada, 5
Chisholm Industries Ltd., Canada, 10
Communications Co., Inc., Fla., 5
Connecticut Telephone & Elec. Co., Conn., 5
Dictaphone Corp., N.Y., 5
Dictograph Prods. Inc., N.Y., 5
Dollar Co., R., Calif., Radio Paging X-Mitters
DuMont Labs., Inc., A. B., Internat'l Div., N.Y., 5
Dunlap Electronics, Inc., Iowa, 5
Electronic Communications Inc., Fla. 10
Electronics Design Co., Okla., 5, 10
Emerson Radio & Phono. Corp., Md., 10
Feiler Eng. & Mfg. Co., Ill., 5
Forway Industries, Inc., N.J., 5
General Dynamics Corp., Stromberg-Carlson Div., N.Y., 5
General Electric Co., Communication Prods., N.Y., 5, 10
Gonset Div., Young Spring & Wire Corp., Calif., 5
Gyro Electronics Co., N.Y., 10
Hartford Ear & Acoustic Research Labs., Conn., 5
Hoffman Electronics Corp., Hoffman Labs. Div., Calif., 10
Hosmer & Co., E. A., Calif., 5
Intercontinental Electronics Corp., N.Y., 10
International Telephone & Telegraph Corp., Ind., Prods. Div., Calif., 10
Jansky & Bailey, Inc., D.C., 10
Kaar Engineering Corp., Calif., 10
LEL, Inc., 380 Oak St., Copiague, N.Y., 10
See ad on page 281
Tel: AMityville 4-2200

Directory I. Communications

7. Emergency Communications Equipment.

Leitch Engrg. Corp., N.H. 10
Link Radio Corp., N.Y., 10
Madigan Corp., N.Y., 5, 10
Marconi's Wireless Telegraph Co., Ltd., England, 10
Mobil Electronics Mfg. Co., Ind., 5
Morrow Radio Mfg. Co., Ore., 10
Pacific Mercury Television Mfg. Corp., Calif., 10
Panseal, Inc., N.J., 5
Philco Corp., Government & Industrial Div., Pa., 10
Port-O-Vox Corp., N.Y., 10
Production Research Corp., N.Y., 10
Pye Telecommunications, Ltd., England, 10
Radio Corp. of America, Defense Elec., Prod., N.J., 10
Radio Receptor Co., Inc., N.Y., 10
Radio Specialty Mfg. Co., Ore., 10
Remler Co., Calif., 5
Siemens & Halske A. G., Germany, 10
Simpson Mfg. Co., Inc., Mark, N.Y., 5
Telephonics Corp., N.Y., 10
Wheeler Electronic Corp., Div. of Sperry Rand Corp., Conn., 5

Equalizers: See class 35

8. Facsimile Equipment.

5. Receiving equipment
15. Transmitting equipment
16. Sensitized paper

ACME Telectronix Div., Ohio, 5, 15
Alden Electronic & Impulse Recording Equipment Co., Alden Research Center, P.O. Box 125, Westboro 6, Mass., 5, 10, 15
See ad on page 258
Tel: FOrest 6-4467
Alden Systems Co., Mass., 5, 10, 15
Alfax Paper & Engineering Co., Washington St., P.O. Box 125, Westboro 6, Mass., 10
See ad on page 258
Tel: FOrest 6-4467
Ampex Corp., 934 Charter St., Redwood City, Calif., 5
See ad on page 266
Tel: EMerson 9-1481
Barker & Williamson, Inc., Pa., 15
Browning Labs., Inc., Mass., 5
Canadian GE Co., Ltd., Canada, 5, 15
Chicago Aerial Industries, Inc., Ill., 5, 15
Corbin Corp., Md., 5, 15
Cubic Corp., Calif., 15
Electronic Communications Inc., Fla., 5, 10, 15
Fuchs Impulse Motor Servomechanisms, N.Y., 5, 10, 15, Pocket Port.
General Electric Co., Technical Prods. Dept., N.Y., 15
Haloid Xerox, Inc., N.Y., 10

8. Facsimile Equipment

Kay Electric Co., Dept. ID-9, Maple Ave., Pine Brook, N.J., 10
See ad on page 516
Tel: CApital 6-4000
L & O Research & Development Corp., Pa., 5, 15
Motorola, Inc., Ariz., 5, 15
Muirhead & Co., Ltd., England, 5, 10, 15
Muirhead Instruments, Inc., N.Y., 5, 10, 15
Panseal, Inc., N.J., 15
Philco Corp., Government & Industrial Div., Pa., 5, 15
Radio Broadcasting Co., Pa., 5
Scientific Service Laboratories, Inc., Tex., 5
Siemens & Halske A.G., Germany, 15
Stewart-Warner Electronics, Ill., 5, 10, 15
Stromberg-Carlson, Div. of Gen. Dynamics Corp., Calif., 5
Times Facsimile Corp., 540 W. 58th St., New York 19, N.Y., 5, 10, 15
See ad on page 497
Tel: JUdson 2-3030
Transline Associates, N.J., 5, 15
Westrex Corp., N.Y., 5, 15

Film projectors, television: See class 18

Filters: See class 36

Frequency shift converters & keyers: See class 19

GCA equipment: See class 1

Generators, marker (microwave): See class 77

Generators, marker (radio frequency): See class 80

Generators, marker (television): See class 82

Generators, pulse: See class 77

Generators, signal (AM & FM): See class 80

Generators, signal (TV): See Class 82

Generators, sweep (radio frequency): See class 80

Generators, sweep (TV): See class 82

Generators, synchronizing: See class 82

Generators, time delay: See class 77

Generators, ultrasonic: See class 72

Graphic recorders: See class 74

Headphones: See class 40

9. Industrial Sound Systems.

5. Complete systems
10. Installation & rental contractors

Aerojet General Corp., Calif., 5
Aerovox Corp., Mass., 5
Allen Communications, Inc., N.Y., 5, 10
Allied Radio Corp., Dept. 35-59, 100 N. Western Ave., Chicago 80, Ill., 5, Kits
See ad on page 142
Tel: HAymarket 1-6800
Altec Lansing Corp., Calif., 5
Altec Service Co., N.Y., 5
American Communications Corp., N.Y., 5
Antrex Corp., Ill., 5
Audio-Master Corp., N.Y., 5
Audio-Video Corp., N.Y., 5, 10
Bogen Co., Inc., D., N.J., 5
Budelman Electronics Corp., Conn., 5
Califone Corp., Calif., 5, Portable
Canadian Research Inst., Canada, 5
Communications Equip. & Engrg. Co., Ill., 5
Connecticut Tel. & Elec. Co., Conn., 5, 10
Cossor (Canada) Ltd., Canada, 5
Denson Electronics Corp., Conn., 5
Dictograph Prods., Inc., N.Y., 5, 10
Doty Acoustical Elec. Labs., N.Y., 5
Dukane Corp., Ill., 5
E M I Electronics Ltd., England, 5
Engineered Sound Systems, Ltd., Canada, 5, 10
Feiler Eng. & Mfg. Co., Ill., 5
Flush Wall Radio Co., Fla., 5

9. Industrial Sound Systems.

General Communications, Inc., Wis., 5
General Dynamics Corp., Stromberg-Carlson Div., N.Y., 5, 10
Hi-Video, Inc., N.Y., 5, 10
Interelectronics Corp., 2432 Grand Concourse, New York 58, N.Y., 5
See ads on page 268, 376
Tel: LUdlow 4-6200
Kellogg Switchboard & Supply Co., Ill., 5, 10
Kierulff Electronics Inc., Calif., 5, 10
Lake Mfg. Voycall Co., Calif., 5, Intercommunicating Systems
Land-C-Air Sales Co., N.Y., 5
Langevin Mfg. Corp., N.Y., 5
Lesa, S. P. A., Italy, 5, 10
MP Engrg. Co., Conn., 5, 10
Magnecord, Inc., Ill., 10
Marine View Electronics, Inc., N.Y., 5
Motorola, Inc., Ariz., 5
Murdoch, Jr., Alexander, N.Y., 5, Ultrasonic
North Electric Co., Ohio, 5
Northern Electric Co., Ltd., Canada, 5
O'Brien Electric Corp., Calif., 10
Permoflux, Ill., 5
Philco Corp., Government & Industrial Div., Pa., 5
Port-O-Vox Corp., N.Y., 5, 10
Radio Broadcasting Co., Pa., 5, 10
Radio Corp. of America, Defense Electronics Prod., N.J., 5
Reeves Equipment Corp., N.Y., 5
Remler Co., Calif., 5
Rhein Sound Systems, Inc., Conn., 5
Schindler, S., Calif., 5
Seeburg Corp., The, Ill., 5
Signal Equipment Co., Inc., Wash., 10
Simplex Equipment Corp., N.J., 5
Simpson Mfg. Co., Inc., Mark, N.Y., 5
Smith-Meeker Engineering Co., N.Y., 5, 10
Stromberg-Carlson, Spec. Prod. Div., N.Y., 5
Summit Electronics, Inc., N.J., 5
Talk-A-Phone Co., Ill., 5, Intercoms
Telectro Industries Corp., N.Y., 5
Tesla Electric Co., Ill., 5
U.S. Recording Co., D.C., 5, 10
Webster Electric Co., Wis., 5
Westlab Electronics, Inc., N.Y., 5, 10

Jacks: See class 39

Klystrons: See class 63

Lighting equipment, television studio: See class 18

Lighting equipment, tower: See class 3

Loudspeakers: See class 40

Magnetic tape & wire: See class 49

Magnetic tape & wire recorders: See class 16

Magnetrons: See class 63

10. Marine Equipment.

5. Contract installers
10. Pleasure craft radiotelephones
15. Shipborne communications equipment

Alert Prods., Inc., N.J., 10
Allied International Co., N.Y., 10, 15
Altair Co., Calif., 5
American Machine & Foundry Co., Va., 15
Barker & Williamson, Inc., Pa., 15
Bassett, Inc., R., Fla., 10, 15
Belock Instrument Corp., N.Y., Navigation
Bendix Aviation Corp., Bendix-Pacific Div., Calif., 10, 15
Bliss Electric Corp., N.J., 10, 15
Bludworth Marine Div., Kearfott Co., N.J., 10, 15
Canadian GE Co., Ltd., Canada, 15
Canadian Marconi Co., Canada, 5, 10, 15
Connecticut Tel. & Elec. Co., Conn., 15
Creative Electronics Corp., Conn., 10, 15
DX Radio Prods. Co., Ill., 10
Eldico Electronics, Div. of Radio Eng. Labs., Inc., 15
Electronic Communications, Inc., Fla., 15
Electronics Research, Inc., Ind., 5, 10, 15
Emerson Radio & Phono. Corp., Md., 15
Engineered Sound Systems, Ltd., Canada, 5
Erco Radio Labs., Inc., N.Y., 10, 15
Feiler Eng. & Mfg. Co., Ill., 15
General Dynamics Corp., Stromberg-Carlson Div., N.Y., 15
General Electric Co., Communication Prods., N.Y., 15
Gray Radio Co., Inc., Fla., 10, 15
Hartford Ear & Acoustic Research Labs., Conn., 15
Heath Co., Subsidiary of Daystrom, Inc., Benton Harbor 4, Mich., 15
See ad on page 482
Tel: YUkon 3-3961
Hoffman Electronics Corp., Hoffman Labs. Div., Calif., 15
Hudson American, Div. of Radio Eng. Labs., Inc., 10, 15, marine antennas
Kaar Engineering Corp., Calif., 10, 15
Kearfott Co., Inc., 1378 Main Ave., Clifton, N.J., 5, 10, 15
See ad on page 364
Tel: GRegory 2-1000
Link Radio Corp., N.Y., 15
Mack Electronics Div., Inc., N.J., 15
Magnavox Co., Ind., 15
Manson Labs., Inc., 207 Greenwich Ave., Stamford, Conn., 15
See ad on page 498
Tel: DAvis 5-1391
Marine Electronics Co., N.Y., 10
Measurement Engrg., Ltd., Canada, 15
McPherson Engrg. Co., N.Y., 10
Micro-Lab Industries, Inc., Ind., 10
Minneapolis-Honeywell Reg. Co., Military Prods. Group, Minn., Sonar Depth Recorder
Motorola, Inc., Ariz., 5, 10, 15

10. Marine Equipment.

Mullard Overseas, Ltd., England, 15
Multi-Products Co., Mich., 10
Munston Mfg. & Service, Inc., N.Y., 10, 15
National Co., Inc., Mass., 15, 20
Olympic Radio & TV, Inc., N.Y., 15
Philco Corp., Government & Industrial Div., Pa., 15
Polydoroff & Assoc., D.C., 15
Pye Telecommunications Ltd., England, 5, 10, 15
Radio Corp. of America, Defense Elec. Prod., N.J., 10, 15
Radio Research Instrument Co., N.Y., 15
Raytheon Mfg. Co., Mass., 10
Remler Co., Calif., Audio System
Rich Electronics, Inc., Fla., 5, 15
Siemens & Halske A.G., Germany, 15
Simpson, Inc., Pearce, Fla., 10
Sonar Radio Corp., N.Y., 10, 15
Stavid Engineering, Inc., N.J., 15
Superior Marine Radio Co., Fla., 5, 10, 15
Technical Materiel Corp., The, N.Y., 15
Telecomputing Corp., Calif., 15
Topping Electronics Ltd., F. V., Canada, 10
Westinghouse Electric Corp., Md., 15
Westrex Corp., N.Y., 15

Microphones: See class 43

Microphones, geophysical: See class 73

Microwave amplifiers: See class 21

Microwave antennas: See class 3

Microwave attenuators: See class 22

Microwave filters: See class 36

Microwave power supplies: See class 47

Microwave receivers: See class 14

Microwave transmitters: See class 15

Microwave tuners: See class 60

Microwave, waveguides: See class 66

Directory I. Communications

11. Mobile Equipment.

5. Central station receivers
10. Central station transmitters
15. Citizen radio
20 Mobile receivers
25. Mobile transmitters
30. Selective calling equipment

AME, France, 5, 10
Aermotive Equip., Mo., 20, 25
Aeronca Research Div., Md., 5, 10
Airtronix Development Corp., N.Y., 15
Allied International Co., N.Y., 5, 10, 20, 25
Altair Co., Calif., 30
Antrex Corp., Ill., 30
Automatic Electric Co., Ill., 5, 10, 20, 25, 30
Automation Electronics, Inc., Calif., 20, 25
Avco Mfg. Co., Crosley Div., Ohio, 20, 25
Avco Mfg. Corp., Mass., 20, 25
B/R Electronics, Inc., N.Y., 20, 30
Barker & Williamson, Inc., Pa. 20, 25
Bassett, Inc., R., Fla., 5, 10, 20, 25
Beam Instrument Corp., N.Y., 20, 25
Bell Aircraft Corp., N.Y., 20
Bendix Aviation Corp., Md., 5, 10, 20, 25
Bendix Aviation Corp., Mobile & RR Prods. Div., Md., 5, 10, 15, 20, 25
Birdair Structures, Inc., N.Y., Shelters, Inflatable & Portable
Bliss Electric Corp., N.J., 30
Bludworth Marine Div., Kearfott Co., N.J., 25
Canadian GE Co., Ltd., Canada, 5, 15, 20, 25, 30
Canadian Marconi Co., Canada, 5, 10, 20, 25, 30
Canadian Westinghouse Co., Ltd., Canada, 5, 10
Chisholm Industries, Ltd., Canada, 20, 25
Communications Co., Inc., Fla., 5, 10, 15, 20, 25, 30
Connecticut & Elec. Co., Conn., 5, 10, 15, 20, 25, 30
Cook Electric Co., Ill., 5, 10, 20, 25
Craig Systems, Inc., 360 Merrimack St., Lawrence, Mass., Shelters & Trailers Enclosures
See ad on page 295
Tel: MUrdock 8-6961
Creative Electronics Corp., Conn., 15, 20, 25
Dumont Labs., Inc., A. B., Internat'l. Div,. N.Y., 5, 10, 15, 20, 25, 30
Electronic Comms., Inc., Calif., 30
Electronics Design Co., Okla., 5, 10, 15, 20, 25
Electronics Research, Inc., Ind., 15, 20, 25
Elliott Bros., Ltd., England, 5, 10, 20, 25
Gates Radio Co., Ill., 10
General Dynamics Corp., Stromberg-Carlson Div., N.Y., 5, 10, 20, 25, 30
General Electric Co., Communications Prods., N.Y., 5, 10, 15, 20, 25, 30
General Motors Corp., Delco Radio Div., Ind., 20
Gonset Div., Young Spring & Wire Corp., Calif., 5, 10, 15, 20, 25, 30
Gyro Electronics Co., N.Y., 15
Hallicrafters Co., Ill., 5, 10, 15, 20, 25, 30
Hosmer & Co., E. A., Calif., 30
Howard Industries, Inc., Wis., 5
I.D.E.A., Inc., Ind., 5, 20, 30
Intercontinental Electronics Corp., N.Y., 20, 25
International Electronics Corp., N.Y., 20, 25
International Telephone & Telegraph Corp., Federal Telepnone & Radio Co. Div., N.J., 5, 10
International Telephone & Telegraph Corp., Ind. Prods. Div., Calif., 5, 10, 15, 20, 25, 30
Kaar Engineering Corp., Calif., 5, 10, 15, 20, 25
Kaiser Aircraft & Electronics Div., Kaiser Ind. Corp., Ohio, 5, 10, 20, 25
Lenkurt Electric Co., Inc., Calif., 30
Link Radio Corp., N.Y., 5, 10, 15, 20, 25, 30
Mack Electronics Div., Inc., N.J., 5, 10, 20, 25
Madigan Corp., N.Y., 5, 10, 15, 20, 25, 30
Magnavox Co., Ind., 20, 25
Marconi's Wireless Telegraph Co., Ltd., England, 5, 10, 20, 25, 30
Marine View Electronics, Inc., N.Y., 30
Master Mobile Mounts, Inc., Calif., Body & Bumper Mounts, Coils, Antennas, Accessories & Crystal Fixed & All-Banders
McPherson Engrg. Co., N.Y., 30
Mobil Electronics Mfg. Co., Ind., 30
Morrow Radio Mfg. Co., Ore., 20, 25
Mosler Research Prods., Inc., Conn., 25
Motorola Communications & Elect., Inc., Ill., 5, 10
Mullard Overseas, Ltd., England, 5, 10, 20, 25
Multi-Products Co., Mich., 20, 25
Northeast Electronics Corp., N.H., 5, 10, 20, 25, 30
Packard-Bell Electronics, 12333 W. Olympic Blvd., Los Angeles 64, Calif., 20, 30
See ad on page 204
Tel: BRadshaw 2-2171
Panseal, Inc., N.J., 20, 25
Port-O-Vox Corp., N.Y., 20, 25
Pye Corp. of America, N.J., 5, 10, 20, 25
Pye Telecommunications, Ltd., England, 5, 10, 20, 25
Radio Broadcasting Co., Pa., 15, 20, 30
Radio Corp. of America, Defense Elec. Prod., N.J., 10, 20, 25
Radio Engineering Prods., Canada, 30
Radio Receptor Co., Inc., N.Y., 5, 20
Radionic Labs., Inc., Ind., 30
Royal Communications Systems, Inc., Ohio, 5, 10, 15, 20, 25, 30
Scantlin Electronics, Inc., Calif., 30
Seeley Electronics, Calif., 5, 20
Simpson, Inc., Pearce, Fla., 20, 25
Superior Marine Radio Co., Fla., 20, 25
Technical Materiel Corp., The, N.Y., 5, 10, 20, 25
Topp Mfg. Co., Calif., 20, 25
Transval Engineering Corp., Calif., Static Inverters for Mobile
Van Norman Industries, Inc., Electronics Div., N.H., 20, 25
Vocaline Co. of America, Inc., Conn., 15
Westrex Corp., N.Y., 5, 10, 20, 25
Wunderlich Radio Co., Ill., 5, 10, 20, 25
Z & W Mfg. Corp., Ohio, 15

12. Monitor Equipment.

5. Frequency
10. Modulation
15. Remote control monitors
20. Video monitors

Aermotive Equip. Corp., Mo., 20
Aeronca Research Div., Md., 5, 10, 15, 20
Aircom, Inc., 354 Main St., Winthrop 52, Mass., 5, 10
See ad on page 454
Tel: OCean 3-3096
Airmec, Ltd., England, 5
Airpax Products Co., P.O. Box 8488, Ft. Lauderdale, Fla., 5
See ad on pages 106-107
Tel: LU 3-6160
Audio-Video Corp., N.Y., 20
Autometric Corp., N.Y., 20
Beckman/Berkeley Div., Calif., 5
Biddle Co., J. G., Pa., 5
Blonder-Tongue Labs., Inc., N.J., 20
Briggs Assoc., Inc., Pa. 15
Brooks Research, Inc., N.Y., 15, 20
Browning Labs, Inc., Mass., 10
Budelman Electronics Corp., Conn., 5
Calbest Electronics Co., Calif, 20
Canadian GE Co., Ltd., Canada, 5, 10, 15, 20
Canoga Corp., Calif., 20
Collins Radio Co., Iowa, 5, 10
Computer Measurement Corp., Calif., 5
Conrac, Inc., Calif., 20
Continental Electronics Mfg. Co., Texas, 15
Crosby Labs, Inc., N.Y., 10
Daven Co., N.J., 5, 15
Daystrom, Inc., N.J., 10
Decade Instrument Co., N.J., 5
Diamond Power Specialty Corp., Ohio, 20
Dictaphone Corp., N.Y., 15
Doty Acoustical Elec. Labs., N.Y., 20
Dumont Labs., Inc., A. B., Ind. TV Div., N.J., 20
E. M. I. Electronics, Ltd., England, 5, 10, 20
Emerson Radio & Phono. Corp., Md., 5, 10

Code numbers shown after each firm refer to product or service sub-classes listed at the beginning of each major classification. Complete addresses will be found in the Alphabetical Directory.

12. Monitor Equipment

Empire Devices Products Corp., 37 Prospect St., Amsterdam, N.Y., 10
See ad on page 462
Tel: VIctor 2-8400

Erco Radio Labs., Inc., N.Y., 10 FM

Foto-Video Labs., Inc., 36 Commerce Rd., Cedar Grove, N.J., 20
See ad on page 376
Tel: CEnter 9-6100

Gates Radio Co., Ill., 5, 10
General Communications, Inc., Wis., 20
General Electric Co., Computer Dept., Ariz., 15
General Precision Lab., Inc., N.Y., 20

General Radio Co., 275 Massachusetts Ave., Cambridge 39, Mass., 5, 10
See ad on Cover 4
Tel: TRowbridge 6-4400

Gertsch Products, Inc., Calif., 5, 10

Hewlett-Packard Co., 275 Page Mill Rd., Palo Alto, Calif., 5, 10
See ad on pages 3-18
Tel: DAvenport 5-4451

Industrial Products Div. I. T. & T., N.J., 20
Industrial Television, Inc., N.J., 20
Insul-8 Corp., Calif., 20
Intercontinental Electronics Corp., N.Y., 10, 20
International Crystal Mfg. Co., Inc., Okla., 5
International Telephone & Telegraph Corp., Calif., 20
International Telephone & Telegraph Corp., Ind. Prods. Div., Calif., 20
Jerrold Electronics, Ltd., Canada, 20
Kaar Engineering Corp., Calif., Conerad Monitors

KinTel, Div. Cohu Electronics, 5725 Kearny Villa Rd., San Diego 11, Calif., 20
See ad on pages 80-81
Tel: BRowning 7-6700

Knight Corp., Mass., 15
Lampkin Labs., Inc., Fla., 5, 10
Link Aviation, Inc., N.Y., 15, 20
Litton Industries, Md., 15
Mack Electronics Div., Inc., N.J., 15
Magnecord, Inc., Ill., 15

Magnetic Research Corp., 3160 W. El Segundo Blvd., Hawthorne, Calif., 5
See ad on page 282
Tel: OSborne 5-1171

Marconi Instruments, 111 Cedar Lane, Englewood, N.J., 10
See ad on page 502
Tel: LOwell 7-0607

Marine View Electronics, Inc., N.Y. 15
Motorola, Inc., Ariz., 5, 10, 15, 20
National Co., Inc., Mass., 5
New London Instrument Co., Conn., 5, 10
Norrman Labs, Ernst, Wis., 5
Northern Electric Co., Ltd., Canada, 20

Northern Radio Co., Inc., 147 W. 22nd St., New York 11, N.Y., 5
See ad on pages 130-132
Tel: WAtkins 9-9117

Olympic Radio & TV, Inc., N.Y., 15
Philco Corp., Government & Industrial Div., Pa., 15, 20
Philco Corp., Western Development Labs, Calif., 5
Pitometer Log Corp., N.Y., 5, 10

Polarad Electronics Corp., 43-20 34th St., Long Island City 1, N.Y., 20
See ad on pages 103-104
Tel: EXeter 2-4500

Polytechnic Research & Development Co., Inc., N.Y., 5
Pye Telecommunications, Ltd., England, 15
Radio Corp. of America, Defense Elec. Prod., N.J., 15, 20
Radio Receptor Co., Inc., N.Y., 5, 10, 15, 20
Rank Cintel, Ltd., England, 5, 20
Rixon Electronics, Inc., Md., 5
Setchell-Carlson, Inc., Minn., 20
Sperry Gyroscope Co., Microwave Electronic Div., N.Y., 5
Stelma, Inc., Conn., 15, Telegraph
Systron Corp., Calif., 5
Taller & Cooper, Inc., Div. American Electronic, N.Y., 15
Tarc Electronics, Inc., N.Y., 20
Tel-Instrument Electronics Corp., N.J., 20

Telechrome, Inc., 28 Ranick Dr., Amityville, L.I., N.Y., 5, 10, 20
See ad on page 228
Tel: LIncoln 1-3600

Television Utilities Corp., N.Y., 15, 20

Texas Instruments Incorporated, 6000 Lemmon Ave., P.O. Box 312, Dallas 9, Tex., 5
See ad on page 418
Tel: FLeetwood 7-4311

Topp Mfg. Co., Calif., 10
Vitro Labs., N.J., 15
Waldorf Instrument Co., Div. F. C. Huyck & Sons, N.Y., 20
Waltham Electronics Corp., Mass., 5, 10
Wang Laboratories, Inc., Mass., 15

Waterman Products Co., Inc., 2445 Emerald St., Philadephia 25, Pa., Cathode-Ray Monitors
See ad on page 45
Tel: GArfield 6-8600

Waugh Engineering Co., Calif., 5

Oscilloscopes: See class 79

Phonographs: See class 45

Pick-ups: See class 45

Picture tubes: See class 61

Plugs: See class 39

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13. Point to Point Equipment.

5. Receivers 10. Transmitters

AME, France, 5, 10
Adler Electronics, Inc., N.Y., 10
Aeronautical Communications Equip., Co., Fla., 5, 10, Remote Controls
Allied Internat'l. Co., N.Y., 5, 10
American Microwave Corp., Calif., 5, 10

13. Point to Point Equipment.

American Missile Products Co., Inc., Calif., 5, 10
Avco Mfg. Co., Crosley Div., Ohio, 5, 10
Avco Mfg. Corp., Mass., 5, 10
Barber Labs., A. W., N.Y., 10
Barker & Williamson, Inc., Pa., 5, 10
Bassett, Inc., R., Fla., 55, 10
Bendix Aviation Corp, Mobile & RR Prods. Div., Md., 5, 10
Bludworth Marine Div., Kearfott Co., Inc., N.J., 10
Browning Labs., Inc., Mass., 5
Budelman Electronics Corp., Conn., 5, 10
Camden Electronics, Inc., N.J., 5, 10
Canadian GE Co., Ltd., Canada, 5, 10
Canadian Marconi Co., Canada, 5, 10
Canadian Westinghouse Co., Ltd., Canada, 5, 10
Chisholm Industries, Ltd., Canada, 5
Clegg Labs. Div., Clegg, Inc., N.Y., 10
Collins Radio Co., Iowa, 5, 10
Connecticut Tel. & Elec. Co., Conn., 5, 10
Continental Electronics Mfg. Co., Tex., 10
Corbin Corp., Md., 5, 10
Dumont Labs., Inc., A. B., Internat'l. Div., N.Y., 5, 10

Eldema Corp., 1805 Belcroft Ave., El Monte, Calif., 5, 10
See ad on page 372
Tel: GIlbert 4-7077
& CUmberland 3-3498

Eldico Elecncs, N.Y., 10
Elecnc Comm., Inc., Fla., 5, 10
Elecncs Design Co., Okla., 5, 10
Elecncs Develop. Co., Inc., Calif., 10
Elliott Bros., Ltd., England, 5, 10
Erco Radio Labs., Inc., N.Y., 5, 10
Farinon Electric Co., Calif., 5, 10
Ferranti Electric, Ltd., Canada, 5, 10
Gates Radio Co., Ill., 10

General Devices, Inc., P.O. Box 253, Princeton, N.J., 10
See ad on page 270
Tel: DAvis 9-2323

General Dynamics Corp., Stromberg-Carlson Div., N.Y., 5, 10
Haller, Raymond and Brown, Inc., Pa., 5, 10
Hartford Ear & Acoustic Research Labs., Conn., 5

Heath Co., Subsidiary of Daystrom, Inc., Benton Harbor 4, Mich., 5, 10
See ad on page 482
Tel: YUkon 3-3961

Intelex Systems, Inc., N.Y., 5, 10
Intercontinental Electronics Corp., N.Y., 5, 10
International Telephone & Telegraph Corp., Federal Telephone & Radio Co. Div., N.J., 5, 10
International Telephone & Telegraph Corp., Ind. Prods. Div., Calif., 5, 10
Kaar Engineering Corp., Calif., 5, 10
Kaiser Aircraft & Electronics Div., Kaiser Ind. Corp., Ohio, 10
Lenkurt Electric Co., Inc., Calif., 5, 10
Lettine Radio Mfg. Co., N.Y., 10
Ling Systems, Inc., Calif., 5, 10
Link Radio Corp., N.Y., 5, 10
Mack Electronics Div., Inc., N.J., 5, 10
Magnavox Co., Resch. Labs., Calif., 5, 10

Directory I. Communications

13. Point to Point Equipment.

Measurement Engrg., Ltd., Canada, 5, 10
McPherson Engrg. Co., N.Y., 5, 10
Motorola Communications & Elect., Inc., Ill., 5, 10
National Co., Inc., Mass., 5, 10
National Electronics Labs., D.C., 5, 10

Northern Radio Co., Inc., 147 W. 22nd St., New York 11, N.Y., 5
See ad on pages 130-132
Tel: WAtkins 9-9117

Olympic Radio & TV, Inc., N.Y., 5, 10
Panseal, Inc., N.J., 10
Peer, Inc., Mich., 10
Philco Corp., Government & Industrial Div., Pa., 5, 10
Press Wireless Laboratories, Inc., 5, 10
Production Research Corp., N.Y., 10
Pye Telecommunications, Ltd., England, 5, 10
Radio Broadcasting Co., Pa., 5
Radio Engineering Labs., Inc., N.Y., 5, 10
Radio Engineering Prods., Canada, 5, 10
Radio Receptor Co., Inc., N.Y., 5, 10
Raytheon Mfg. Co., Mass., 5, 10
Roflan Co., The, Mass., 5, 10
Standard Electronics, Div. of Radio Engrg. Labs., Inc., N.Y., 5, 10
Superior Marine Radio Co., Fla., 5, 10
Tabet Mfg. Co., Inc., Va., 5, 10
Taffet Radio & TV Co., N.Y., 5, 10
Taller & Cooper, Inc., Div. American Electronic, N.Y., 5, 10
Technical Materiel Corp., The, N.Y., 5, 10

Telechrome, Inc., 28 Ranick Dr., Amityville, L.I., N.Y., 10
See ad on page 228
Tel: LIncoln 1-3600

Telectron Co., The, Fla., 5, 10
Telephonics Corp., N.Y., 5, 10
Television Utilities Corp., N.Y., 5
Topping Electronics, Ltd., F. V., Canada, 5, 10
Transline Associates, N.J., 5, 10
Uniwave, Inc., N.Y., 5
Varo Mfg. Co., Inc., Tex., 5, 10
Warren Corp., J. C., N.Y., 5, 10
Westinghouse Electric Corp., Md., 10
Westrex Corp., N.Y., 5, 10
Wilcox Electric Co., Inc., Mo., 5, 10
Wunderlich Radio Co., Ill., 5, 10

Power supplies: See class 47

Pre-amplifiers: See class 21

Projectors, television film: See class 18

Public address amplifiers: See class 21

Radar reflectors: See class 3

14. Radar-Microwave Receivers.

5. Microwave relay 15. Radar
10. Position indicators

ACF Industries, Erco Div., Md., 15
Airborne Instruments Lab., Inc., N.Y., 15

Airtron, Inc., Dept. I, 1106 W. Elizabeth Ave., Linden, N.J., 5, 15
See ad on page 454
Tel: HUnter 6-1000

Altair Co., Calif., 5, 15
American Machine & Foundry Co., Va., 15
American Machine & Foundry Co., Mass., Radar Beacon
American Microwave Corp., Calif., 5
Arma Div., N.Y., 15
Autonetics, Calif., 15
Avco Mfg. Corp., Mass., 15
Bell Aircraft Corp., N.Y., 5
Bendix Aviation Corp., Md., 15
Bendix Aviation Corp., Bendix-Pacific Div., Calif., 15
Bludworth Marine Div., Kearfott Co., N.J., 15
Canadian GE Co., Ltd., Canada, 5, 10, 15
Canadian Marconi Co., Canada, 15
Canadian Westinghouse Co., Ltd., Canada, 5, 15
Canoga Corp., Calif., 15
Collins Radio Co., Iowa, 5
Continental Electronics Mfg., Co., Tex., 5

Control Electronics Co., Inc., 10 Stepar Place, Huntington Station, L.I., N.Y., 5, 15
See ads on pages 343, 507
Tel: HAmilton 7-7961

Daystrom, Inc., N.J., 15
Daystrom Instrument, Pa., 15
Defiance Engrg. & Microwave Corp., Mass., 5
Dymec Inc., Calif., Simulators
E M I Electronics, Ltd., England, 5, 10, 15
Edo Corp., N.Y., 15
Electro Develop. Corp., Wash., 15
Electronic Communications, Inc., Fla., 15
Elliott Bros., Ltd., England, 5, 15
Elsin Electronics Corp., N.Y., 5
Emerson Radio & Phono. Corp., Md., 5, 10, 15

Empire Devices Prods. Corp., 37 Prospect St., Amsterdam, N.Y., 15
See ad on page 462
Tel: VIctor 2-8400

F-R Machine Works, Inc., 26-12 Borough Pl., Woodside 77, N.Y., 5, 15
See ad on pages 117-120
Tel: AStoria 8-2800

Ferranti Electric, Ltd., Canada, 15

14. Radar-Microwave Receivers.

General Communication Co., Mass., 15
General Dynamics Corp., Stromberg-Carlson Div., N.Y., 5, 10, 15
General Electronic Labs., Inc., Mass., 5
Gilfillan Bros., Inc., Calif., 15
Gramatan Instrument Co., N.Y., 5, 15
Granger Associates, Calif., 15
Gulton Industries, Inc., Nuclear Instru. Div., N.M., 10
Haller, Raymond and Brown, Inc., Pa., 5, 10, 15
Harrison Labs., B. M., Mass., Sonar Systems
Hazeltine Electronics Corp., N.Y., 5, 10, 15
Hoover Electronics Co., Md., 15
Intelex Systems, Inc., N.Y., 5
Intercontinental Electronics Corp., N.Y., 5, 15
International Telephone & Telegraph Corp., Federal Telephone & Radio Co. Div., N.J., 5, 10

J-V-M Microwave Co., 9305 W. 47th St., Brookfield, Ill., 15
See ad on page 500
Tel: HUnter 5-2000

Kama Instrument Corp., N.Y., 15
Kellogg Switchboard & Supply Co., Ill., 5
Laboratory For Electronics, Inc., Mass., 5, 15
Lambda-Pacific Engr., Inc., Calif., 5
Larson Instrument Co., N.Y., 15, 25

Lavoie Labs., Inc., Matawan-Freehold Rd., Morganville, N.J., 10, 15
See ad on page 100
Tel: MAtawan 1-2600

Lenkurt Electric Co., Inc., Calif., 5
Ling Systems, Inc., Calif., 5
Litton Industries, Md., 5, 10, 15
Loral Electronics Corp., N.Y., 10, 15
Mack Electronics Div., Inc., N.J., 15
Magnavox Co., Ind., 15
Magnavox Co., Research Labs., Calif., 15
Melpar, Inc., Va., 15
Microwave Engrg. Labs., Calif., 5, 10, 15
Motorola Communications & Elect., Inc., Ill., 5
Nevada Air Prods. Co., Nev., 15
Norden-Ketay Corp., Conn., 10, 15
Northern Electric Co., Ltd., Canada, 5, 10, 15
Ostlund Associates, E. M., N.J., 5
P S C Applied Research. Ltd., Canada, 15

Packard-Bell Electronics, 12333 W. Olympic Blvd., Los Angeles 64, Calif., 15
See ad on page 204
Tel: BRadshaw 2-2171

Panseal, Inc., N.J., 10, 15

14. Radar-Microwave Receivers.

Philco Corp., Government & Industrial Div., Pa., 5, 10, 15
Philco Corp., Western Development Labs., Calif., 10, 15
Polarad Electronics Corp., 43-20 34th St., Long Island City 1, N.Y., 5, 15
See ad on pages 103-104
Tel: EXeter 2-4500
Portchester Instrument Corp., 114 Wilkins Ave., Port Chester, N.Y., 5
See ad on page 459
Tel: WEstmore 9-4092
Pye Telecommunications, Ltd., England, 5
R-S Electronics Corp., Calif., 15
Radio Corp. of America, Defense Electronics Prod., N.J., 5, 15
Radio Receptor Co., Inc., N.Y., 5, 10, 15
Radio Research Instrument Co., N.Y., 15
Raytheon Mfg. Co., Mass., 5
Resdel Engineering Corp., Calif., 15
Republic Electronic Industries Corp., N.Y., 15
Sanders Associates, Inc., N.H., 5, 10, 15
Singer Mfg. Co., The, Military Prods. Div., N.Y., 5
Sperry Gyroscope Co., Div. Sperry Rand Corp., N.Y., 10, 15
Sperry Gyroscope Co., Surface Armament Div., N.Y., 15
Sperry Gyroscope Co. of Canada, Ltd., Canada, 10, 15
Sperry Piedmont Co., Div. Sperry Rand Corp., Va., 10, 15
Stavid Engineering, Inc., N.J., 5, 15
Sylvania Electronic Systems, Div. Sylvania Elec. Prods., Inc., Mass., 15
Systems, Inc., Fla., 15
Telerad Mfg. Corp., N.Y., 5, 15
Texas Instruments Incorporated, 6000 Lemmon Ave., P.O. Box 312, Dallas 9, Tex., 15
See ad on page 418
Tel: FLeetwood 7-4311
Uniwave, Inc., N.Y., 5, 15
Visual Electronics Corp., N.Y., 5
Waldorf Instrument Co., Div. F. C. Huyck & Sons, N.Y., 15
Waltham Precision Inst. Co., Thermal Dynamic Prods. Div., N.Y., 10
Watkins-Johnson Co., Calif., 15
Westinghouse Electric Corp., Pa., 15
Westinghouse Electric Corp., Md., 5, 15
Wunderlich Radio Co., Ill., 5, 10, 15

15. Radar-Microwave Transmitters.

5. Microwave 15. Radar
10. Microwave relay

Adler Electronics, Inc., N.Y., 5, 10
Aermotive Equip. Corp., Mo., 5
Airborne Instruments Lab., Inc., N.Y., 15
Aircom, Inc., 354 Main St., Winthrop 52, Mass., 5
See ad on page 454
Tel: OCean 3-3096
Airtron, Inc., Dept. I, 1106 W. Elizabeth Ave., Linden, N.J., 5, 10, 15
See ad on page 454
Tel: HUnter 6-1000
Altair Co., Calif., 5, 10, 15
Amerac, Inc., Mass., 5
American Mach. & Foundry Co., Va., 15

15. Radar-Microwave Transmitters.

American Microwave Corp., Calif., 5, 10
American Tradair Corp., N.Y., 15
Arma Div., N.Y., 15
Autonetics, Calif., 15
Avco Mfg. Corp., Mass., 15
Baughman Co., E. J., Calif., Remote Controlled
Bell Aircraft Corp., N.Y., 5, 15
Bendix Aviation Corp., Md., 15
Bendix Aviation Corp., Bendix-Pacific Div., Calif., 15
Bludworth Marine Div., Kearfott Co., N.J., 15
Canadian GE Co., Ltd., Canada, 5, 10, 15
Canadian Marconi Co., Canada, 5, 10, 15
Canadian Westinghouse Co., Ltd., Canada, 5, 10, 15
Canoga Corp., Calif., 5, 15
Chicago Condenser Corp., 3255 W. Armitage Ave., Chicago 47, Ill., 15
See ad on page 374
Tel: CApitol 7-7070
Collins Radio Co., Iowa, 10
Communications Co., Inc., Fla., 5, 10
Continental Electronics Mfg. Co., Tex., 5, 10, 15
Control Electronics Co., Inc., 10 Stepar Place, Huntington Station, L.I., N.Y., 5, 10
See ads on pages 343, 507
Tel: HAmilton 7-7961
Cubic Corp., Calif., 5
Daystrom, Inc., N.J., 15
Defiance Engrg. & Microwave Corp., Mass., 5
E M I Electronics, Ltd., England, 5, 10, 15
Electro Develop. Corp., Wash., 15
Electronic Communications, Inc., Fla., 15
Electronic Plastics Co., Calif., 5, Beacon Transmitter
Elliott Bros., Ltd., England, 10, 15
Elsin Electronics Corp., N.Y., 5
Emerson Radio & Phono Corp., Md., 5, 10, 15
F-R Machine Works, Inc., 26-12 Borough Pl., Woodside 77, N.Y., 5, 10, 15
See ad on pages 117-120
Tel: AStoria 8-2800
Ferranti Electric, Ltd., Canada, 15
Frequency Standards, Inc., P.O. Box 504, Shaftc Rd., Asbury Park, N.J., Beacons
See ad on page 133
Tel: PRospect 4-0500
General Communication Co., Mass., 5, 15, Beacons
General Dynamics Corp., Stromberg-Carlson Div., N.Y., 5, 10, 15
General Electric Co., Technical Prods. Dept., N.Y., 10
Gilfillan Bros., Inc., Calif., 15
Gramatan Instrument Co., N.Y., 5, 15
Granger Associates, Calif., 15
Gulton Industries, Inc., Nuclear Instru. Div., N.M., 5
Hallicrafters Co., Ill., 5, 10, 15
Harris Transducer Corp., Conn., Sonar
Hastings-Raydist, Inc., Va., Tracking & Navigation Type
Hoover Electronics Co., Md., 15
Intelex Systems, Inc., N.Y., 5, 10
Intercontinental Electronics Corp., N.Y., 5, 10, 15
International Telephone & Telegraph Corp., Federal Telephone & Radio Co. Div., N.J., 5, 10
J-V-M Microwave Co., 9305 W. 47th St., Brookfield, Ill., 5, 15
See ad on page 500
Tel: HUnter 5-2000
Kama Instrument Corp., N.Y., 5
Kellogg Switchboard & Supply Co., Ill., 5, 10
Laboratory For Electronics, Inc., Mass., 5, 15
Lambda-Pacific Engr., Inc., Calif., 10
Lavoie Labs., Inc., Matawan-Freehold Rd., Morganville, N.J., 15
See ad on page 100
Tel: MAtawan 1-2600
Lenkurt Electric Co., Inc., Calif., 5, 10
Levinthal Electronic Prods., Inc., Calif., 5, 15
Ling Systems, Inc., Calif., 5, 10
Litton Industries, Md., 5, 10, 15
Loral Electronics Corp., N.Y., 5, 15
Mack Electronics Div., Inc., N.J., 5, 15
Magnavox Co., Research Labs., Calif., 15
Manson Labs., Inc., 207 Greenwich Ave., Stamford, Conn., 15
See ad on page 498
Tel: DAvis 5-1391
Melpar, Inc., Va., 15
Microwave Engrg. Labs., Calif., 5, 10, 15
Motorola Communications & Elect., Inc., Ill., 5, 10
Nevada Air Prods. Co., Nev., 15
Norden-Ketay Corp., Conn., 15
Northern Electric Co., Ltd., Canada, 5, 10, 15
Packard-Bell Electronics, 12333 W. Olympic Blvd., Los Angeles 64, Calif., 15
See ad on page 204
Tel: BRadshaw 2-2171
Panseal, Inc., N.J., 15
Philco Corp., Government & Industrial Div., Pa., 5, 10, 15
Philco Corp., Western Development Labs., Calif., 5, 15
Polytechnic Research & Development Co., Inc., N.Y., 5
Portchester Instrument Corp., 114 Wilkins Ave., Port Chester, N.Y., 5, 10
See ad on page 459
Tel: WEstmore 9-4092
Pye Telecommunications, Ltd., England, 5, 10
Radio Corp. of America, Defense Elec. Prod., N.J., 5, 10, 15
Radio Receptor Co., Inc., N.Y., 5, 10, 15
Radio Research Instrument Co., N.Y., 5, 15
Raytheon Mfg. Co., Mass., 5, 10
Reeves Instrument Corp., N.Y., 15
Resdel Engineering Corp., Calif., 5, 15
Sanders Associates, Inc., N.H., 5, 10, 15
Sierra Electronic Corp., 3753D Bohannon Dr., Menlo Park, Calif., 5
See ad on pages 78-79
Tel: DAvenport 6-2060
Solartron Electronic Group, Ltd., England, Simulators
Sperry Gyroscope Co. of Canada, Ltd., Canada, 15
Sperry Piedmont Co., Div. Sperry Rand Corp., Va., 15
Stavid Engineering, Inc., N.J., 5, 15

Directory I. Communications

15. Radar-Microwave Transmitters.

Sylvania Electronic Systems, Div. Sylvania Elec. Prods., Inc., Mass., 5, 15
Systems, Inc., Fla., 15
Technicraft Laboratories, Inc., Conn., 5
Telerad Mfg. Corp., N.Y., 5, 15

Texas Instruments Incorporated, 6000 Lemmon Ave., P.O. Box 312, Dallas 9, Tex., 15
See ad on page 418
Tel: FLeetwood 7-4311

Toroid Coil Winding, Inc., 171 Coit St., Irvington 11, N.J., 5
See ad on page 316
Tel: ESsex 4-9800

Universal Mfg. Co., Inc., 1168 Grove St., Irvington 11, N.J., 5
See ad on page 576
Tel: ESsex 4-9800

Visual Electronics Corp., N.Y., 5, 10
Waldorf Instrument Co., Div. F. C. Huyck & Sons, N.Y., 15
Watkins-Johnson Co., Calif., 15
Westinghouse Electric Corp., Pa. 15
Westinghouse Electric Corp., Md., 5, 10, 15
Wunderlich Radio Co., Ill., 5, 10, 15

Receivers, airborne & airport: See class 1

Receivers, amateur: See class 2

Receivers, broadcast: See class 4

Receivers, facsimile: See class 8

Receivers, microwave: See class 14

Receivers, mobile: See class 11

Receivers, point-to-point: 13

Receivers, radar: See class 14

Receivers, telegraph & teleprinter: See class 19

Receivers, telemeter: 20

Receivers, television: See class 4

Record changers & players: See class 45

Recorders, graphic: See class 74

Recording accessories: See class 49

Recording amplifiers: See class 21

16. Recording Equipment.

5. Disk recorders
10. Embossing types of recorders
15. Magnetic tape recorders
20. Magnetic wire recorders

American Electronics, Inc., Calif., 15

Ampex Corp., 934 Charter St., Redwood City, Calif., 15
See ad on page 266
Tel: EMerson 9-1481

Amplifier Corp. of America, N.Y., Tape Loop Recorders
Audio Instrument Co., Inc., N.Y., 15
Audio-Master Corp., N.Y., 15
Audio-Video Corp., N.Y., 5, 15
Autonetics, Calif., 15
Avco Mfg. Corp., Mass., 15
Avionics, Ltd., Canada, 15
Barnes Engrg. Co., Comm., Binatrol Tape Program

Bergen Laboratories, Inc., 247 Crooks Ave., Clifton, N.J., 5, 15
See ad on page 359
Tel: GRegory 3-7800

Berndt-Bach, Inc., Calif., 15
Broadcast Equip. Spec. Corp., N.Y., 15
Camera Equip. Co., Inc., N.Y., 5, 15, 20
Canadian GE Co., Ltd., Canada, 5, 10, 15, 20
Chicago Aerial Ind., Inc., Ill., 15, 20
Clary Corp., Calif., Digital Recorder
Components Corp., N.J., 5
Connecticut Telephone & Elec. Co., Conn., 5, 15
Consolidated Electrodynamics Corp., Calif., 15
Cook Electric Co., Ill., 15
Dictaphone Corp., N.Y., 10, 15, Dictating Equip.

Digitronics Corp., Albertson Ave., Albertson, L.I., N.Y., 15
See ad on page 343
Tel: PIoneer 7-5090

E M I Electronics, Ltd., England, 15
El-Tronics, Inc., Alwac Div., Calif., 15
Emerson Radio & Phono. Corp., Md., 15
Fairchild Recording Equipment Corp., N.Y., 5, 15
Federal Mfg. & Eng. Co., N.Y., 15
Fen-Tone Corp., N.Y., 15
Fonda Corp., Pa., Tape Recorders

16. Recording Equipment.

General Kinetics, Inc., Va., 15
Gray Mfg. Co., Conn., 5, 10
Haller, Raymond and Brown, Inc., Pa., 15

Heath Co., Subsidiary of Daystrom, Inc., Benton Harbor 4, Mich., 15
See ad on page 482
Tel: YUkon 3-3961

Herold Radio & Electronics Corp., N.Y., 15
Key Electric Corp., N.Y., 15
Kinevox, Div. of Electromation Co., Calif., 15
L E E Inc., D.C., 15
Land-C-Air Sales Co., N.Y., 5, 15
Le Roi Engrg., Ill., Reel Adapters
Magnasync Mfg. Co., Ltd., Calif., 15
Magnecord, Inc., Ill., 15
Maico Electronics, Inc., Minn., 15
Midwestern Instruments, Inc., Magnecord Div., Okla., 15
Miles Reproducer Co., Inc., N.Y., 10
Minicord Corp. of America, N.J., 15, 20
Minifon-ABC Sound Engineering Co., N.Y., 15
Minneapolis-Honeywell Reg. Co., Md., 15
Minnesota Mining & Mfg. Co., Mincom Div., Calif., 15
Mohawk Business Machines Corp., N.Y., 15
Newcomb Audio Products Co., Calif., 15
North American Philips Co., Inc., N.Y., 15
Northam c/o Travco Assoc., N.Y., 15
Oakton Engineering Corp., Ill., 15
Olympic Radio & TV, Inc., N.Y., 15
Orradio Industries, Inc., Ala., 15

Packard-Bell Electronics, 12333 W. Olympic Blvd., Los Angeles 64, Calif., 15
See ad on page 204
Tel: BRadshaw 2-2171

Peirce Dictation Systems, Ill., 20, Airborne & Telephone Dictation Systems
Pentron Corp., Ill., 15
Polydoroff & Assoc., D.C., 15

Potter Instrument Co., Inc., Sunnyside Blvd., Plainview, L.I., N.Y., 15
See ad on page 475
Tel: OVerbrook 1-3200

Precision Instrument Co., Calif., 15
Press Wireless Laboratories, Inc., 15
Presto Recording Corp., N.J., 5, 15
Radio Corp. of America, Defense Elec. Prod., N.J., 15
Radiometer, Denmark, Frequency Response
Reed Research, Inc., D.C., 15
Reeves Equipment Corp., N.Y., 5, 15
Schloer, Inc., Modern Design Div., N.Y., 15

Code numbers shown after each firm refer to product or service sub-classes listed at the beginning of each major classification. Complete addresses will be found in the Alphabetical Directory.

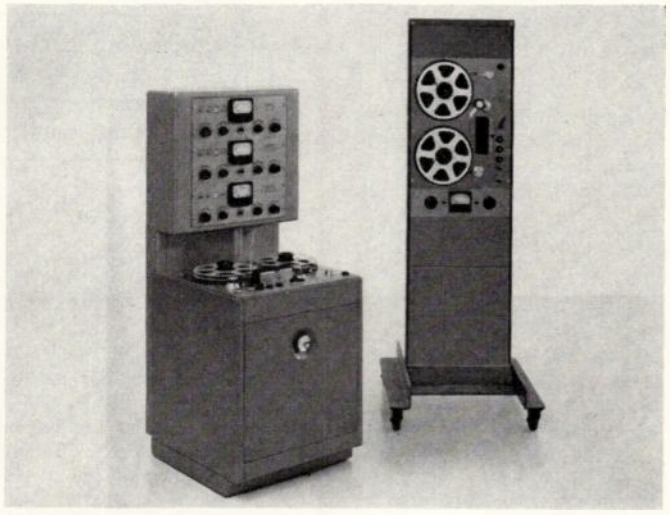
AMPEX

World Leader in Precision Magnetic Tape Recording Instruments

Ampex Tape Recorders are in service throughout the world in television and radio stations, and in professional sound recording studios . . . wherever finest quality is required.



VR-1000 *Videotape* Recorder*
First commercially available Videotape Recorder. Magnetically records what the TV camera "sees," in either black and white or color. Playbacks look "live."



MODEL 300 *Magnetic Tape Recorder*
Standard of the professional recording industry, it consistently delivers the finest in audio reproduction. Available in as many as 8 channels, in console and rack mounting.



MODEL 351 *Magnetic Tape Recorder*
First choice of the broadcasting industry. Features printed circuits and miniature tubes. Available in console, rack and portable models, with one or two channels. Sold by dealers.



MODEL 3200 *Magnetic Tape Duplicator*
High speed duplication, with superb fidelity, of recorded master tapes. Makes up to 10 copies at one time. Available with one, two or four channel heads.

Fully illustrated brochures, complete with specifications, are available on each recorder and the duplicator. Technical bulletins are also available on the following subjects: VIDEOTAPE RECORDING • VIDEOTAPE SPLICING • MULTI-CHANNEL RECORDING • MULTI-CHANNEL TECHNIQUES • Write for the copies you want, today.

Tenth Year of Leadership

934 CHARTER STREET, REDWOOD CITY, CALIFORNIA

AMPEX
CORPORATION
professional products division

*TM Ampex Corporation

For details, circle #196 on Reader Service Card

Directory I. Communications

16. Recording Equipment.

Seeburg Corp., The, Ill., 15, 20
Simpson Mfg. Co., Inc., Mark, N.Y., 15
Soundscriber Corp., Conn., 5, 15, Office Dictation Equip.

Southwestern Industrial Electronics Co., 2831 Post Oak Rd., P.O. Box 13058, Houston 19, Tex., 15
See ad on page 192
Tel: MOhawk 7-6611

Stancil-Hoffman Corp., Calif., 15
Taller & Cooper, Inc., Div. American Electronic, N.Y., 15
Technisonic Studios, Inc., Mo., 5
Telectro Industries Corp., N.Y., 15, 20

Thomas & Skinner, Inc., 1125 E. 23rd St., Indianapolis 7, Ind., 15
See ad on page 358
Tel: WAlnut 3-2448

Transval Engineering Corp., Calif., 15
U.S. Recording Co., D.C., 5, 15, 20
V-M Corp., Mich., 15
Warren Corp., J. C., N.Y., 15
Webcor, Inc., Ill., 15
Webster Electric Co., Wis., 15
Wells-Gardner & Co., Ill., 15

Recording tape & wire: See class 49

Reflectors, radar: See class 3

Relay broadcast equipment: See class 5

Rotators: See class 3

S T L equipment: See class 5

Selective calling equipment: See class 11

Shipborne communications equipment: See class 10

Signal generators, AM & FM: See class 80

Signal generators, TV: See class 82

17. Single Sideband.

5. Receivers **10. Transmitters**

AME, France, 5, 10
Adler Electronics, Inc., N.Y., 5, 10
Allied Internat'l. Co., N.Y., 5, 10

17. Single Sideband.

Altair Co., Calif., 5, 10
Automation Electronics, Inc., Calif., 5, 10
Avco Mfg. Corp., Mass., 5, 10
Barber Labs., A. W., N.Y., 10
Barker & Williamson, Inc., Pa., 5, 10
Bell Aircraft Corp., N.Y., 5, 10
Canadian GE Co., Ltd., Canada, 5, 10
Canadian Marconi Co., Canada, 5, 10
Canadian Westinghouse Co., Ltd., Canada, 5, 10
Clegg Labs., Div. Clegg, Inc., N.Y., 5, 10
Collins Radio Co., Iowa, 5, 10
Connecticut Telephone & Elec. Co., Conn., 5, 10
Continental Electronics Mfg. Co., Tex., 10
Corbin Corp., Md., 5, 10
Crosby Labs., Inc., N.Y., 5, 10
Daystrom Instrument, Pa., 10
Eldico Electronics, N. Y., 10
Electronic Communications, Inc., Fla., 5, 10
Erco Radio Labs., Inc., N.Y., 5, 10
Federal Telecommunication Labs., Calif., 5, 10
General Electric Co., Technical Prods. Dept., N.Y., 5, 10
Gonset Div., Young Spring & Wire Corp., Calif., 10
Hammarlund Mfg. Co., Inc., N.Y., 5

Heath Co., Subsidiary of Daystrom, Inc., Benton Harbor 4, Mich., 5, 10
See ad on page 482
Tel: YUkon 3-3961

Hoffman Electronics Corp., Hoffman Labs. Div., Calif., 5
Intelex Systems, Inc., N.Y., 5, 10
Intercontinental Electronics Corp., N.Y., 5, 10
International Electronics Corp., N.Y., 5, 10
Johnson Co., E. F., Minn., 10
Kahn Research Labs., Inc., N.Y., 5, 10
Kaiser Aircraft & Electronics Div., Kaiser Ind. Corp., Ohio, 5, 10
Levinthal Electronic Prods., Inc., Calif., 10
Mack Electronics Div., Inc., N.J., 5

Manson Labs., Inc., 207 Greenwich Ave., Stamford, Conn., 10
See ad on page 498
Tel: DAvis 5-1391

Model Engineering & Mfg., Inc., Ind., Converters
Motorola, Inc., Ariz., 5, 10
National Co., Inc., Mass., 5
Olympic Radio & TV, Inc., N.Y., 5, 10

Panoramic Radio Products, Inc., 528 S. Fulton Ave., Mount Vernon, N.Y., Analyzers
See ad on page 510
Tel: OWens 9-4600

Panseal, Inc., N.J., 5, 10
Philco Corp., Government & Industrial Div., Pa., 5, 10
Radio Corp. of America, Defense Elec. Prod., N.J., 5, 10
Radio Engineering Labs., Inc., N.Y., 5, 10
Radio Receptor Co., Inc., N.Y., 5, 10
Siemens & Halske A.G., Germany, 5, 10
Technical Materiel Corp., The, N.Y., 5, 10, Exciters

Telechrome Inc., 28 Ranick Dr., Amityville, L.I., N.Y., 10
See ad on page 228
Tel: LIncoln 1-3600

Telephonics Corp., N.Y., 5, 10
Transval Engineering Corp., Calif., 5, 10
Westinghouse Electric Corp., Md., 5, 10
Westrex Corp., N.Y., 5, 10
Wilcox Electric Co., Inc., Mo., 5, 10
Wunderlich Radio Co., Ill., 5, 10

18. Studio Equipment.

5. Consoles & speech input equipment
10. TV cameras
15. TV camera control equipment
17. TV camera lenses
20. TV film projectors
25. TV studio lighting equipment
30. Turntables

Adler Electronics, Inc., N.Y., 5
Aeroflex Corp., N.Y., 15
Aerovox Corp., Mass., 5
Altec Lansing Corp., Calif., 5
Altec Service Co., N. Y., 5
American Microwave Corp., Calif., 5

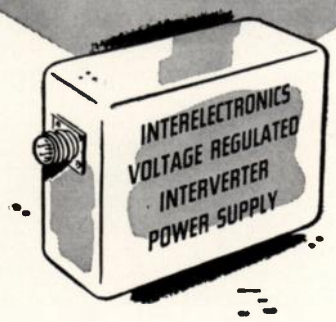
Ampex Corp., 934 Charter St., Redwood City, Calif., Tape Recorders
See ad on page 266
Tel: EMerson 9-1481

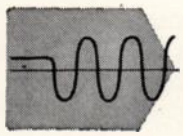
Atlas Sound Corp., N.Y., TV Boom stand
Audio-Master Corp., N.Y., 30
Audio-Video Corp., N.Y., 5, 10, 15, 17, 30
Autometric Corp., N.Y., 10, 20
Bache & Co., S., N.Y., 17
Berndt-Bach, Inc., Calif., 10, Camera Data Recorders
Bludworth Marine Div., Kearfott Co., N.J., 10, 15, 20, Marine
Burke & James, Inc., Ill., 17
Camera Equip. Co., Inc., N.Y., 17, 20, 25, 30
Canadian GE Co., Ltd., Canada, 5, 10, 15, 17, 20, 25, 30
Canadian Research Instrument, Canada, 5
Collins Radio Co., Iowa, 5, 30
Components Corp., N.J., 30
Dage TV Div., Thompson Products, Inc., Ind., 5, 10, 15, 20
Daven Co., N.J., 5, 15
Diamond Power Specialty Corp., Ohio, 10
Doty Acoustical Elec. Labs., N.Y., 15
Dumont Labs., Inc., A. B., Industrial TV Div., N.J., 10, 15, 17
Dunlap Electronics, Inc., Iowa, 5
E M I Electronics, Ltd., England, 5, 10, 15, 20

Code numbers shown after each firm refer to product or service sub-classes listed at the beginning of each major classification. Complete addresses will be found in the Alphabetical Directory.

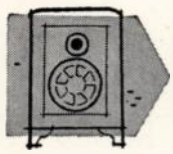
NEW!

DC to DC and DC to AC solid-state power converters voltage regulated, frequency controlled, for missiles, telemetering, gyros, servos

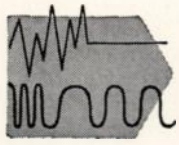




Interelectronics Interverter solid-state thyratron-like elements and magnetic components convert DC to any number of voltage regulated or controlled frequency AC or filtered DC outputs from 1 to 1800 watts. Light weight, compact, 90% or better conversion efficiency.



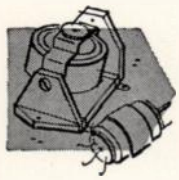
Ultra-reliable in operation, no moving parts, unharmed by shorting output or reversing input polarity. Complies with MIL specs for shock, acceleration, vibration, temperature, RF noise.



Now in use in major missiles, powering telemetering transmitters, radar beacons, electronic equipment. Single and polyphase AC output units now power airborne and marine missile gyros, synchros, servos, magnetic amplifiers.



Interelectronics — first and most experienced in the DC input solid-state power supply field, produces its own solid-state gating elements, all magnetic components, has the most complete facilities and know-how—has designed and delivered more working KVA than any other firm!



For complete engineering data write Interelectronics today, or call LUdlow 4-6200 in N. Y.

INTERELECTRONICS CORPORATION

2432 GR. CONCOURSE, N. Y. 58, N. Y.

For details, circle #197 on Reader Service Card

18. Studio Equipment

Eastman Kodak Co., 343 State St., Rochester 4, N.Y., 17, 20
See ad on page 419
Tel: LOcust 2-6000

Electromation Co., Calif., 15
Engineered Sound Systems, Ltd., Canada, 5
Exarta Camera Co., N.Y., 10, 17, Tripods
Fairchild Recording Equipment Corp., N.Y., 5, 30
Falstrom Co., N.J., 5

Foto-Video Labs., Inc., 36 Commerce Rd., Cedar Grove, N.J., 10, 15
See ad on page 376
Tel: CEnter 9-6100

Garrard Sales Corp., N.Y., 30
Gates Radio Co., Ill., 5, 30
General Communications, Inc., Wis., 5, 15
General Dynamics Corp., Stromberg-Carlson Div., N.Y., 5
General Electric Co., Technical Prods. Dept., N.Y., 10, 15, 17, 20
General Precision Lab., Inc., N.Y., 10, 15, 20
Gotham Audio Dev. Corp., N.Y., 30
Gray Mfg. Co., Conn., 30
Heitz, Inc., Karl, N.Y., 17
Houston Fearless Div., Color Corp. of America, Calif., Dollies & Tripods
Ilex Optical Co., N.Y., 17
Insul-8 Corp., Calif., 10, 15, 17, 20
Intercontinental Electronics Corp., N.Y., 10, 15
International Optical Co., Inc., N.Y., 17
International Telephone & Telegraph Corp., Calif., 10, 15, 17, 20
International Telephone & Telegraph Corp., Industrial Prods. Div., Calif., 10, 15
Kemlite Labs., Inc., Ill., 25

KinTel, Div. Cohu Electronics, 5725 Kearny Villa Rd., San Diego 11, Calif., 10, 15, 17, 20
See ad on pages 80-81
Tel: BRowning 7-6700

Kliegl Bros., N.Y., 25
Kuss Industries, Inc., Pa., 5
Land-C-Air Sales Co., N.Y., 30
Magnasync Mfg. Co., Ltd., Calif., 5
Magnecord, Inc., Ill., 5
Magne-Tronics, Inc., N.Y., Wired Music
Mastertone Recording Studios, Inc., N.Y., 5
McAlister, Inc., J. G., Calif., 25, Camera Dollies
McCurdy Radio Industries, Ltd., Canada, 5, 30, Film & Sound Systems
Mole-Richardson Co., Calif., 25
National Cine Equip., Inc., N.Y., 15, 17, 25
North Electric Co., Ohio, 15
Northern Electric Co., Ltd., Canada, 5
O'Brien Electric Corp., Calif., 5
Panseal, Inc., N.J., 5, 10
Philco Corp., Government & Industrial Div., Pa. 5, 15, 20
Photo Research Corp., Calif., 10
Presto Recording Corp., N.J., 30
Radio Corp. of America, Defense Elec. Prod., N.J., 5, 10, 15, 30
Radio Music Corp., N.Y., 30
Rank Cintel, Ltd., England, 20
Rhein Sound Systems, Inc., Conn., 5
Robinson Recording Labs., Pa., 30
Specialties, Inc., N.Y., 15
Stancil-Hoffman Corp., Calif., 5
Summit Electronics, Inc., N.J., 5

Switchcraft, Inc., 5561 N. Elston Ave., Chicago 30, Ill., Audio Mixers
See ad on page 428
Tel: SPring 4-1515

Technical Materiel Corp., The, N.Y., 5

Telechrome, Inc., 28 Ranick Dr., Amityville, L.I., N.Y., 10, 15
See ad on page 228
Tel: LIncoln 1-3600

Telectro Industries Corp., N.Y., 5
Television Zoomar Corp., N.Y., 17
Tesla Electric Co., Ill., 5
Trans-Lux Corp., N.Y., Rear Projection Screens and Teleprocess Projectors
U.S. Recording Co., D.C., 5
Victorlite Industries, Inc., Calif., 20
Visual Electronics Corp., N.Y., 5, 10, 15, 17, 20, 25

Western Devices, Inc., 600 W. Florence Ave., Inglewood 1, Calif., TV Camera Dollies
See ad on page 309
Tel: ORegon 8-7827

Wickes Engineering, N.J., 15
Zoomar, Inc., N.Y., 17

Styli: See class 45

Sweep generators, radio frequency: See class 80

Sweep generators, TV: See class 82

Tape, magnetic recording: See class 49

Tape phonographs: See class 45

Tape recorders: See class 16

19. Telegraph & Teleprinter Equipment.

5. Frequency shift converters
10. Frequency shift keyers
15. Receivers
20. Transmitters

AME, France, 5, 10, 15, 20
Adler Electronics, Inc., N.Y., 5, 10
Aermotive Equip. Corp., Mo., 5, 15, 20
Aeronautical Communications Equip., Inc., Fla., 10, 15, 20
Avco Mfg. Corp., Mass., 15
Barker & Williamson, Inc., Pa., 5, 10, 15, 20
Boehme, Inc., H. O., N.Y., 5, 10
Browning Labs., Inc., Mass., 15
Burroughs Corp., Mich., 5, 10, 15, 20
Clegg Labs., Div. Clegg, Inc., N.Y., 20
Collins Radio Co., Iowa, 5, 10

Directory I. Communications

19. Telegraph and Teleprinter Equipment.

Connecticut Telephone & Elec. Co., Conn., 5, 10, 15, 20
Crosby Labs., Inc., N.Y., 5, 10
Denson Electronics Corp., Conn., 5, 10
Electronic Communications, Inc., Calif., Tone Decoders & Senders
Erco Radio Labs., Inc., N.Y., 5, 10, 15, 20
Gates Radio Co., Ill., 20
General Dynamics Corp., Stromberg-Carlson Div., N.Y., 10, 15, 20
Hallicrafters Co., Ill., 5
Harmon Electronics Co., Mo., 5, 10, 15, 20
Hoffman Electronics Corp., Hoffman Labs. Div., 5, 10
Hoover Electronics Co., Md., 5, 10
Intelex Systems, Inc., N.Y., 15, 20
Kleinschmidt Labs. Inc., Ill., 15, 20 Reperforators

Manson Labs., Inc., 207 Greenwich Ave., Stamford, Conn., 10
See ad on page 498
Tel: DAvis 5-1391

Marine View Electronics, Inc., N.Y., 10
Model Engineering & Mfg., Inc., Ind., 5
Motorola, Inc., Ariz., 5, 10, 15, 20
North Electric Co., Ohio, 5

Northern Radio Co., Inc., 147 W. 22nd St., New York 11, N.Y., 5, 10, 15
See ad on pages 130-132
Tel: WAtkins 9-9117

Panseal, Inc., N.J., 15, 20
Philco Corp., Government & Industrial Div., Pa., 15, 20

Potter Instrument Co., Inc., Sunnyside Blvd., Plainview, L.I., N.Y., 5
See ad on page 475
Tel: OVerbrook 1-3200

Press Wireless Laboratories, Inc., 5, 10, 15, 20
Presto Recording Corp., N.J., FM Multiplex Receiver

Radiation, Inc., P.O. Box 37, Melbourne, Fla., Teleprinter test equip.
See ad on page 272
Tel: 1800

Radio Engineering Prods., Canada, 5, 10, 15, 20

Radio Frequency Labs., Inc., Powerville Rd., Boonton, N.J., 5, 15, 20
See ad on page 512
Tel: DEerfield 4-3100

Richardson Co., The, 2749 Lake St., Melrose Park, Ill., 20
See ad on page 390
Tel: (Chicago) MAnsfield 6-8900

Shepard Labs., Inc., N.J., 15, 20
Stelma, Inc., Conn., 5, 10, 15, 20, Repeaters
Stromberg-Carlson Div., of General Dynamics Corp., Calif., 15
Taller & Cooper, Inc., Div. American Electronic, N.Y., 5

Technical Appliance Corp., 1 Taco St., P.O. Box 38, Sherburne, N.Y., antennas
See ad on page 251
Tel: SHerburne 7-2211

Technical Materiel Corp., The, N.Y., 5, 10, 15, 20
Tele-Signal Corp., N.Y., 5, 10
Teletype Corp., Ill., 15, 20

Times Facsimile Corp., 540 W. 58th St., New York 19, N.Y., 5
See ad on page 497
Tel: JUdson 2-3030

Towaco Electronics, N.J., Telegraph Distortion Analyzer
Virginia Electronics Co., Inc., D.C., 10
Westinghouse Electric Corp., Md., 10, 20
Westrex Corp., N.Y., 5, 10, 15, 20
Wilcox Electric Co., Inc., Mo., 20

20. Telemetering Equipment.

5. Data recorders
10. Data storage mechanisms
15. FM/FM modulators
20. Receivers
25. Transmitters

Adler Electronics, Inc., N.Y., 25
Aeronca Research Div., Md., 5, 10, 15
Aerotronic Assoc., N.H., 20, 25
Airborne Instruments Lab., Inc., N.Y., 10

Aircom, Inc., 354 Main St., Winthrop 52, Mass., 20, 25
See ad on page 454
Tel: OCean 3-3096

Aironic Accessory Co., Inc., N.Y., 20, 25

Alden Electronic & Impulse Recording Equipment Co., Alden Research Center, P.O. Box 125, Westboro 6, Mass., 5
See ad on page 258
Tel: FOrest 6-4467

Altair Co., Calif., 15, 20, 25
American Electronics, Inc., Calif., 5, 10
American Machine & Foundry Co., Va., 5, 10, 15, 20, 25
American Microwave Corp., Calif., 15
American Missile Products Co., Inc., Calif., 5, 10, 15, 20, 25, Current-Resistance & Voltage Controlled Oscillators, DC Amplifier

Ampex Corp., 934 Charter St., Redwood City, Calif., 5
See ad on page 266
Tel: EMerson 9-1481

Applied Research, Inc., 76 S. Bayles Ave., Port Washington, L.I., N.Y., 20, 25
See ad on page 276
Tel: POrt Washington 7-8707

Applied Science Corp., N.J., 5, 10, 15, 20, 25, PDM Equipment
Armstrong Whitworth Aircraft, England, 5, 20, 25
Associated Missile Prods. Corp., Calif., 5, 20, 25
Auerbach Electronics Corp., Pa., 10, 15
Austin Co., The, N.Y., 5
Autometric Corp., N.Y., 5
Avco Mfg. Co., Crosley Div., Ohio, 5

20. Telemetering Equipment.

Beckman Systems Div., Calif., 5
Bell Aircraft Corp., N.Y., 15, 20, 25
Bendix Aviation Corp., Bendix-Pacific Div., Calif., 15, 20, 25
Berndt-Bach, Inc., Calif., 5
Borden Engrg. Co., Johnson Aircraft Engrg. Co., N.J., 25
Borg-Warner Corp., B. J., Electronics Div., Calif., 5, 10
Bristol Co., The, Conn., 20, 25
Browning Labs., Inc., Mass., 20
Brush Instrument Div., Clevite Corp., Ohio, 5
Burke & James, Inc., Ill., Optics for Data Recorders
Burroughs Corp., Mich., 5
CG Electronics Corp., N.M., 10
Canadian GE Co., Ltd., Canada, 5, 10, 15, 20, 25
Centronix, Inc., Fla., 5
Chicago Aerial Ind., Inc., Ill., 5
Computer Measurement Corp., Calif., 5
Connecticut Telephone & Electric Co., Conn., 20, 25
Consolidated Avionics Corp., N.Y., 10
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Control Data Corp., Minn., 5, 10
Cook Electric Co., Ill., 5
Corbin Corp., Md., 20, 25
Cubic Corp., Calif., 5, 20, 25

Curtiss-Wright Corp., 631 Central Ave., Carlstadt, N.J., 5
See ad on page 400
Tel: GEneva 8-4000

Dalmo Victor Co., Calif., 20, 25
Daystrom Instruments, Pa., 20, 25
Devol Research Co., Conn., 10

Digitronics Corp., Albertson Ave., Albertson, L.I., N.Y., 5
See ad on page 343
Tel: PIoneer 7-5090

Dorsett Labs., Inc., Okla., 15
Dukane Corp., Ill., 25

Dwyer Engineering Co., Inc., Airport Rd., Box 452, Nashua, N.H., 15
See ad on page 563
Tel: TUxedo 3-3206

E M I Electronics, Ltd., England, 5, 10, 20, 25

Eldema Corp., 1805 Belcroft Ave., El Monte, Calif., 20, 25
See ad on page 372
Tel: GIlbert 4-7077 & CUmberland 3-3498

Electro Mechanical Research, Inc., Fla., 10, 15, 25
Electromation Co., Calif., 5
Electronic Associates, Inc., N.J., 5
Electronic Communications, Inc., Fla., 10, 20, 25
Elliott Bros., Ltd., England, 5, 10, 20, 25

Code numbers shown after each firm refer to product or service sub-classes listed at the beginning of each major classification. Complete addresses will be found in the Alphabetical Directory.

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its new and expanded product line and facilities as part of a well organized plan now in operation. The company has moved to modify, improve and expand its organization and to considerably increase its financial working base. Its Multichannel Products Division is the first specialized operation of its kind in the country dealing exclusively with multichannel instrumentation and related problems. The Division is made up of three major sections each of which provide the latest technology in the field.

MULTICHANNEL SYSTEMS PRODUCTS SECTION

This section is capable of complete theoretical analyses of multichannel problems including the choice of basic modulation methods, the application of information theory, practical considerations in providing optimum systems for given applications, ground and airborne radio link systems; creation of standard and special telemetery and data handling systems, particularly FM-FM, PWM and PCM systems. Equipment is currently available for systems and for portions of systems from the end instruments to the final record or computer. All electronic (non-mechanical) systems are now available. Applications range from commercial plant installations on the ground to complex minimum equipment space instrumentation installations.

—*A booklet dealing with the choice and application of sampling devices entitled: "Electronic and Electro-mechanical Sampling Devices for Instrumentation", is available upon request.*



The only combined high and low level PDM multicoder miniaturized and qualified for the most rugged applications.



Switches shown above represent typical applications, namely drift compensation of analog computer amplifiers, high performance aircraft telemetering and ICBM nose instrumentation.

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—*Send for customer requirement data sheet for mechanical switch applications. (GDI 4-56A)*

MULTICHANNEL ELECTRONIC SWITCH PRODUCTS SECTION

This section comprises a group of specialists in the development and design of multichannel switches using non-mechanical methods. Together with its engineering model shop and specialized production capacity, it is able to appraise and fulfill any practical switching requirement. Technically it employs a number of approaches including solid state, electronic and in some cases entirely passive elements to effect the required switching process with no moving or wearing parts. Many U. S. and Foreign Patents have been applied for. An intimate knowledge of the related systems circuitry makes it possible to provide custom designs for maximum performance and minimum cost.

—*Send for customer requirement data sheet for electronic switch applications. (GDI 4-58C)*



Typical high level solid state electronic commutators (Electrocoms) available with mating keyers or subcarrier oscillators, standard 45x20 and 30 channel types capable of any of three standard sampling rates.

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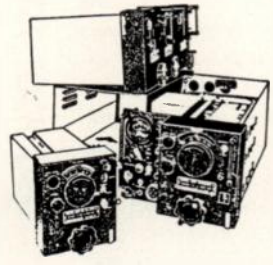
Directory I. Communications

20. Telemetering Equipment.

Elsin Electronic Corp., N.Y., 5, 20, 25
El-Tronics, Inc., Alwac Div., Calif., 5, 10
Emerson Radio & Phono. Corp., Md., 5, 10, 15, 20, 25
Engineering Associates, 434 Patterson Rd., Dayton 9, Ohio, 20
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Epsco, Inc., Mass., 5
Erco Radio Labs., Inc., N.Y., 20, 25
Ferranti Electric Ltd., Canada, 10
Fischer & Porter Co., Pa., 5, 10
General Devices, Inc., P.O. Box 253, Princeton, N.J., 5, 15, 20, 25
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Tel: DAvis 9-2323
General Dynamics Corp., Stromberg-Carlson Div., N.Y., 5, 10, 20, 25
General Electronic Labs., Inc., Mass., 20, 25
General Electric Co., Instrument Dept., Mass., 20, 25
Geotechnical Corp., Tex., 5, 15, 20, 25
Giannini & Co., Inc., G. M., 918 E. Green St., Pasadena, Calif., 5
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Tel: SYcamore 3-2101 & RYan 1-7152
Granger Associates, Calif., 25
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Haller, Raymond and Brown, Inc., Pa., 5, 10, 15, 20, 25
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Hammarlund Mfg. Co., Inc., N.Y., 20, 25
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Hewlett-Packard Co., 275 Page Mill Rd., Palo Alto, Calif., 5
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Hughes Products, Hughes Aircraft Co., Calif., 10
Hycon Electronics, Inc., Calif., 5, 10, 20, 25
Industrial Television, Inc., N.J., 20
Interelectronics Corp., 2432 Grand Concourse, New York 58, N.Y., 25, transmitter power supplies
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Invar Electronic Co., Calif., 15
Kauke & Co., Calif., 5, 10 PDM Modulators
Kinevox, Div. of Electromation Co., Calif., 5
Kinn Electronics Corp., Md., 25
Levinthal Electronic Prods. Inc., Calif., 25
Librascope, Inc., Calif., 5, 10
Link Aviation, Inc., N.Y., 5, 10
Litton Industries, Md., 5, 10, 15, 20, 25
Loral Electronics Corp., N.Y., 20, 25
Magnasync Mfg. Co. Ltd., Calif., 5
Magnecord Inc., Ill., 5, 10
Magnetic Instruments Co., N.Y., 5
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Micropulse Engrg., Calif., 10
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Monroe Calculating Mach., Co., Inc., N.J., 10
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Mu Beta Products, Calif., 25
National Electronics Labs., Inc., D. C., 20, 25
Navigation Computer Corp., 1621 Snyder Ave., Philadelphia 45, Pa., 10
See ad on page 474
Tel: HOward 5-7700
New London Instrument Co., Conn., 15, 20
Nichols, Ltd., R. H., Ont., Canada, 5, 10

AN/APR-4 RECEIVERS

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See ad on pages 130-132
Tel: WAtkins 9-9117
Orbitran Co., Inc., Calif., 5
Packard-Bell Electronics, 12333 W. Olympic Blvd., Los Angeles 64, Calif., 20, 25
See ad on page 204
Tel: BRadshaw 2-2171
Panellit, Inc., Ill., 5
Panseal, Inc., N.J., 5, 15, 20, 25
Parsons Co., Ralph M., Electronics Div., Calif., 25 Decommutition System
Philco Corp., Government & Industrial Div., Pa., 10, 15, 20, 25
Philco Corp., Western Development Labs., Calif., 15, 20, 25
Photographic Prods., Inc., Calif., 5
Polarad Electronics Corp., 43-20 34th St., Long Island City 1, N.Y., 20
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Tel: EXeter 2-4500
Potter Instrument Co., Inc., Sunnyside Blvd., Plainview, L.I., N.Y., 5, 10
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Tel: OVerbrook 1-3200
Precision Instrument Co., Calif., 5, 10
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Telecommunications, Ltd., England, 20, 25
Radiation, Inc., P.O. Box 37, Melbourne, Fla., 5, 15, 25
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Tel: 1800
Radio Corp. of America, Defense Elec. Prod., N.J., 5, 10
Radio Engineering Products, Canada, 15, 20, 25
Radio Frequency Labs., Inc., Powerville Rd., Boonton, N.J., 20, 25
See ad on page 512
Tel: DEerfield 4-3100
Radio Receptor Co., Inc., N.Y., 15, 20, 25
Ram Meter, Inc., Mich., 10
Ramo-Wooldridge Corp., Calif., 15, 20, 25
Rhein Sound Systems, Inc., Conn., 40, 54, 60, 65
Robertshaw-Fulton Controls Co., Calif., 5
Sanborn Co., 175 Wyman St., Waltham 54, Mass., 5
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Tel: TWinbrook 4-6300
Savage Industries Inc., Shepard Instrument Div., Ariz., 15, 20, 25
Schafer Custom Engineering, Calif., 20, 25
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Shand & Jurs Co., Calif., 5
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Specialties, Inc., N.Y., 5
Spectralab Instruments, Calif., 25
Sperry Gyroscope Co. of Canada, Ltd., Canada, 7, 45, 50, 60, 62, 67, 70, 80

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MELBOURNE AND ORLANDO, FLORIDA

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POWER AMPLIFIER

MODEL A-3052-2



This companion unit to the Model 3115 Transmitter is employed to achieve 25 to 100 watts r-f power with as little as 2 watts input. The same rugged design criteria are inherent with this instrument as are designed into the Transmitter. It is also approved for use in several missile system programs.

- Frequency—215-260 mc.
- Temperature— −55°C to +75°C
- Shock—100g
- Vibration—20g, 20-2000 cps
- Altitude—0-70,000 ft.

Bulletin RAD B-102

MULTICOUPLER for TELEMETRY RECEIVERS

- 9 Channels
- 55-85 db Interchannel Isolation

Designed to the exacting specifications of an advanced ground telemetry receiving system used in missile range instrumentation. Provides for coupling up to nine receivers into a single antenna output. High degree of isolation between outputs (55-85 db) effectively eliminates crosstalk and impedance problems. Tuning range of 216-255 mc and a bandwidth of 30 mc.

Bulletin RAD B-106



MODEL 4-100

FM TELEMETERING TRANSMITTER

MODEL 3115



This new improved model, approved for use in several missile systems, is designed for extreme environmental conditions: 100g shock for 6 milliseconds, 20-2000 cps vibration at 10g, −55° to +75° C, 70,000 ft. altitude. Subminiaturized and crystal-controlled. Spurious output better than 60 db below carrier in the telemetering band.

- Power output—2 watts nominal
- Frequency—215-260 mc
- Weight—32 ounces
- Sensitivity—1.13 vrms
- Deviation—150 kc with 1% linearity
- Output Impedance—50 ohms nominal
- Stability—0.01%

Bulletin RAD B-102

MIXER-MONITOR

MODEL 7-100



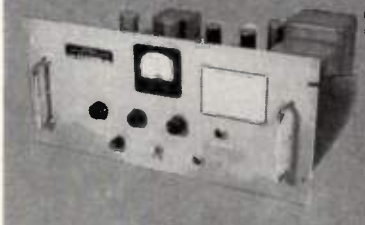
This system is capable of accepting as many as four incoming signals from various sources including time and reference, and mixing these signals for recording on a magnetic tape for further processing. Controls provide attenuation and monitoring of individual input signals and the output. Frequency response 300 cps to 100 kc with less than 0.3% harmonic distortion.

Bulletin RAD B-101

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This demodulator applies the advantages of advanced demodulation techniques currently used in FM/FM telemetry receivers. When used with popular receivers, the receiver improvement threshold is lowered by a minimum of 6 db. In this manner, greater range capability is provided for existing systems with no increase in transmitter power. Installation and operation are simplified to the extreme. No soldering is required for connecting to the receiver.

Bulletin RAD B-110



MODEL 8-100

FIXED STYLI RECORDER

MODEL 3-100



Utilizing 640 individual styli writing on electrosensitive paper this recorder is unique in its variety of applications. *As an on-off recorder-indicator,* it monitors as many as 640 individual circuits at one time. *As a data recorder,* (in the ADAR System) it plots digital data in analog form for immediate analysis. *As a high-speed printer,* it records digital outputs from electronic computers at the rate of 400 lines per second; each line may contain as many as 102 characters. Features: real-time viewing, 100" per second chart speed, no photographic developing, transient response equal to 50-microsecond squarewave.

Bulletin RAD A-100

For more information and specification bulletins write:

RADIATION, INC. • P. O. BOX 37 • MELBOURNE, FLORIDA

Directory I. Communications

20. Telemetering Equipment.

Spivey, Inc., James S., D.C., Sub Carrier Oscillators

Stavid Engineering, Inc., N.J., 5, 20, 25

Taller & Cooper, Inc., Div. American Electronic, N.Y., 5, 10, 15, 20, 25

Tarc Electronics, Inc., N.Y., 5, 10

Telecomputing Corp., Calif., 5, 10

Telechrome, Inc., 28 Ranick Dr., Amityville, L.I., N.Y., 15, 25
See ad on page 228
Tel: LIncoln 1-3600

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Tele-Dynamics, Inc., Pa., 5, 10, 15, 20, 25

Telerad Mfg. Corp., N.Y., 20, 25

Tele-Signal Corp., N.Y., 5, 10, 15

Texas Instruments Incorporated, 6000 Lemmon Ave., P.O. Box 312, Dallas 9, Tex., 15, 25
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Tel: FLeetwood 7-4311

United Electrodynamics, Calif., 15, 25 Transistorized

Victor Adding Machine Co., Ill., 5

Vitro Labs., N.J., 5, 10

Waldorf Instrument Co., Div. F. C. Huyck & Sons, N.Y., 5

Westgate Lab., Inc., Ohio, 5, 10

Television boosters: See class 21

Television monitors: See class 12

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Television transmitters: See class 5

Television transmitting antennas: See class 3

Test Equipment: See Directory III

Tower lighting equipment: See class 3

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Transmitters, airborne & airport: See class 1

Transmitters, amateur: See class 2

Transmitters, broadcast: See class 5

Transmitters, facsimile: See class 8

Transmitters, microwave: See class 15

Transmitters, mobile: See class 11

Transmitters, point-to-point: See class 13

Transmitters, radar: See class 15

Transmitters, telegraph & teleprinter: See class 19

Transmitters, telemeter: See class 20

Transmitters, television: See class 5

Tubes, receiving: See class 61

Tubes, transmitting: See class 63

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Tuning coils: See class 29

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VOR equipment: See class 1

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Vacuum tubes, special purpose: See class 62

Vacuum tubes, transmitting: See class 63

Video monitors: See class 12

Waveguides: See class 66

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Wire recorders: See class 16

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46 major groups
424 products

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I. Communications

II. Components

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IV. Materials & Services

Within these four basic directories, 100 major product and service groups are numbered consecutively throughout. Under each of these 100 classes a further breakdown is given, showing in detail by a system of code numbers after each firm listed what specific products within the class are manufactured by that firm.

For a terminology cross-index listing the 852 subproducts in alphabetical order, consult the pink section preceding page 1.

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For complete list of products and services, arranged alphabetically for fast reference, see the pink section preceding page 1.

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241	DIRECTORY I COMMUNICATIONS
275	DIRECTORY II COMPONENTS
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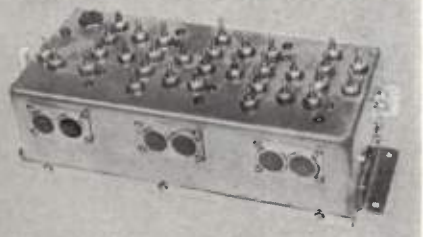
advances in **RF** *techniques*

In recent years, Applied Research Inc. has contributed notably to the state of the art with unique originations in RF components and equipments. Much must remain undiscussed; the production items below are representative.

Broadband RF Amplifiers

40-1000 mcs

Model HFW Amplifiers cover an octave of frequency. Their truly exceptional performance features low noise, high gain with low power drain.



SPECIFICATIONS (condensed) — *Model HFW-302*

Input freq.	300 to 600 mcs
Input, output VSWR	Less than 1.5 in pass band
Noise figure, average	7 db
Gain	20 db

UHF Converters

300-900 mcs

Model UHC-R Converters provide the ultimate ir sensitivity and performance, featuring low noise, high image and spurious rejection, minimum adjacent channel interference.

TYPICAL SPECIFICATIONS (condensed)

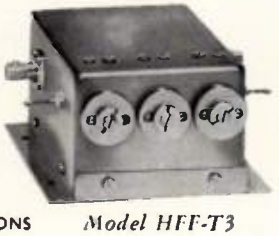
(Model UHC-R-4.5)

Input freq.	400-525 mcs
RF bandwidth	10 mcs
Noise figure	5.5 db
Output bandwidth	5 mcs
Converter gain	50 db (min.) overall

Bandpass Filters

30-2000 mcs

Model HFF and HFF-T Bandpass Filters are rugged, reversible in operation, remarkable in performance (which approximates theoretical expectations). Advanced filter designs are also available for antenna couplers and diplexers



SPECIFICATIONS (condensed) — *Model HFF-T3*

Center freq	425 mcs
Bandwidth	50 mcs
Insertion loss	0.15 db
VSWR	1.03 in passband

RF Multiplexers

40-2000 mcs

Type RFM Multiplexers operate over an octave of frequency with outputs divided into channels of equal bandwidths, overlapping to eliminate dead spots. Multiple resonant circuits in each channel minimize cross-channel interference and provide very sharp skirt selectivity.

TYPICAL SPECIFICATIONS (condensed)

(Model RFM-102)

Freq. range	100-200 mcs
No. of output channels	5
Bandwidth/channel	20 mcs
Peak-valley ratio/filter	1 db
Overall insertion loss	2 db
Input-output impedance	50 ohms



Attenuators and Terminations

DC-1000 mcs



HFA-50 and HFA-75 Fixed Pad Attenuators; HFT-50 and HFT-75 Coaxial Terminations have impedances of 52.5 and 75 ohms; VSWR is 1.2 maximum, up to 1000 mcs. Nominal attenuation is 2, 3, 6, 10, or 20 db. BNC connectors are standard. *Prices are realistically reasonable.*

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Literature is available on all ARI systems and equipments.

Applied Research inc.

76 S. Bayles Avenue, Port Washington, N.Y., Port Wash. 7-8707

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MILITARY & INDUSTRIAL

PRECISION TYPES, for analog computing, telemetering, industrial and nuclear controls, data logging; 60 and 400 CPS.

Input, 100 microamperes, DC
Output, 15 volts, DC
Gain, to 1,000,000 per stage
Linearity, to 1%
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Response, to 100 CPS.

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Output, to 1 milliampere, DC
Frequencies, to 2000 CPS.

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The use of 93 ohms rather than 50 or 75 allows operation at a higher signal to noise level than common, while 1 watt precision resistors give a safety margin with intense sources.

The 122 db range ensures that all practical measurements can be made in one box. The switches and case are selected for long, trouble-free life.

Range	0-122 db
Steps	1 db
Impedance	50 or 93
Accuracy	1 db Max. absolute Error
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Standing Wave Ratio	50 MC 1.05
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	150 MC 1.15
	300 MC 1.5
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Designed to allow complete coverage of the 6-60 MC range without adjustment or change in I.F. strips. The output is available either at the original frequency or from a full wave detector.

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Choice of D.C. Amplifier Flat to 2 KC for band pass measurements with Wobbulator.

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R. F. Output Voltage (Min.)	0-300 peak to peak into 93 ohms
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** This range may be extended with special coils from 0.5 to 150 MC*

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Tel: UNiversity 4-7200

INSTRUMENTS FOR INDUSTRY, Inc.

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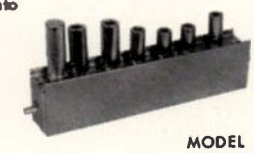
MODEL 395A

Includes two Mod. 600 and power supply

SPECIFICATIONS FOR MODEL 600, AND FOR EACH AMPLIFIER SECTION OF MODEL 395A

Bandpass	200 cps to 50 mcs
Gain	40 db ± 1½ db (into matched load)
Input & Output Zo	90 ohms
Pulse Rise Time	10 microsecs
Gain Control Range	20 db

PRICE
395A—$495; 600—$225



MODEL 600

WIDE BAND AMPLIFIERS

SPECIFICATIONS



500 SERIES



400 MODEL

	M-500A*	M-510	M-530	M-400
Band Pass	200KC to 220MC	200KC to 220MC	10KC to 300MC	200KC to 300MC
Input Impedance	90 ohms	90 ohms	135 ohms	50 ohms
Output Impedance	185 ohms	185 ohms	150 ohms	90 ohms
Gain	12 DB	16 DB (90 ohm load)	18 DB	10 DB
Rise Time				
Average Power				
Peak Pulse Power	2.5 mμsec. 3 Watts CW 300 Watts (Negative pulse into 185 ohm load)	2.5 mμsecs. 0.75 W	2 mμsecs. 0.08 W	1.6 mμsecs. 100 W: CW
RMS Voltage out —across rated load Impedance	22 Volts	12 volts	3.2 Volts	95 Volts
Peak to Peak Voltage—across rated load impedance	62 Volts	33 volts	7 Volts	270 Volts
Price including Power Supply	$390	$325	$245	$4900

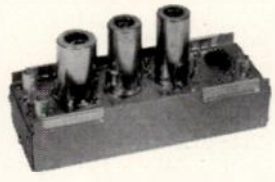
*All prices F.O.B. Mineola, N.Y. unless otherwise specified. Prices subject to change without notice.

*A modified version of the M-500A which operates only in the linear mode, is the M-500 which is available at a price of $330. All prices F.O.B., Mineola, New York.

I-F AMPLIFIERS
M-200 SERIES



PRE-AMPLIFIERS
P-205 SERIES



SPECIFICATIONS OF STANDARD UNITS

	M-260	M-230	M-235
Band center	60 mc	30 mc	30 mc
Band width	10 mc	2 mc	10 mc
Voltage gain	90 db	110 db	90 db
Input impedance	50 ohms	50 ohms	50 ohms
Input V.S.W.R. less than	1.3:1	1.3:1	1.3:1

Note: M-230 model available with 1.5 db noise figure. The low noise does not maintain the low input V.S.W.R. but is designed for a 50 ohm source.

Price $180 each

SPECIFICATIONS P-205, P-205A

Band center	30 mcs
Band width	10 mcs (3 db point)
Gain	20 db minimum
Noise figure	2 db
Input impedance	P-205 . . . 200-300 ohm balanced P-205A . . . 200 ohm unbalanced
Output impedance	50 ohms

Price $150 each

REPRESENTATIVES

METRO, N. Y.—Hunter & Salsbury, Inc., Box #403, Hicksville, L.I., N.Y., WEIls 8-1080
NORTH NEW YORK & NEW ENGLAND—Richard F. MacDowell Co., 58 Orient Ave., Melrose, Mass., NOrmandy 5-8893
D.C., MD., DEL., VA., N.C., TENN.—T. Taylor, 2100 St. Paul St., Baltimore, Md., BElmont 5-9126
FLORIDA—T. Taylor, 711 Magnolia Ave., Orlando, Fla., CHerry 1-2941
MICHIGAN—Ben Z. Rubin, 16222 Cheyenne Ave., Detroit, Mich., UNiversity 4-4958
OHIO & INDIANA—Jack Carney & Associates, P.O. Box 64, Dayton View Station, Dayton, Ohio, CRestview 5-8142
MIDWEST—Edwin Murty, 3505 Ridgedale Ave., St. Louis, Mo., EVergreen 5-7728
NORTHWEST—Rush Drake Associates, 1806 Bush Pl., Seattle 44, Wash., EAst 1737
CALIFORNIA, NEVADA, ARIZONA & NEW MEXICO—G. E. Moxon Sales, 7553 Melrose Ave., Los Angeles 46, Calif., WEbster 8-2565; 15 - 41st Ave., San Mateo, Calif., FIreside 5-2866
COLORADO, WYOMING & UTAH—Vines & Co., P.O. Box 1025, Denver 1, Colo., KEystone 4-8067
TEXAS, OKLA., ARK. & LOUISIANA—J. Earl Smith, P.O. Box 35331, Dallas 35, Texas, FL 7-1727
CANADA—Electrodesign, 737 Notre Dame St. W., Montreal, Quebec, UNiversity 6-7367; 109 Eglington Ave. East., Toronto, Ont.
EXPORT—Electronics Manufacturers Export Co., 127 Grace St., Plainview, L.I., N.Y., WEIls 1-3701

For details, circle #204 on Reader Service Card

21. Amplifiers.

I.D.E.A., Inc., Ind., 30, 40, 55, 90, 92
Indikon Co., Mass., 5, 80, 85
Industrial Control Co., N.Y., 5, 45, 52, 62, 80, 85, 92
Industrial Electronics, Inc., Mich., 57, 85
Industrial Products Div., I.T.&T., N.J., 52
Industrial Test Equipment Co., 55 E. 11th St., New York 3, N.Y., 12, 42, 52, 60, 80, 96
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Tel: GRamercy 3-4684
Industron Co., N.Y., 60
Instruments for Industry, Inc., 155 Glen Cove Rd., Mineola, L.I., N.Y., 35, 70, 90, 96, preamplifiers
See ad on this page
Tel: PIoneer 2-5300
Insul-8 Corp., Calif., 88, 90
Interelectronics Corp., 2432 Grand Concourse, New York 58, N.Y., 15, 30, 35, 45, 47, 55, 60, 65, 67, 75, 92, 94, 95, 96
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Tel: LUdlow 4-6200
International Rectifier Corp., 1521 E. Grand Ave., El Segundo, Calif., 57
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Tel: ORegon 8-6281
International Res. Co., Calif., 5, 42, 45, 57, 80, 85, All are magnetic
International Resistance Co., Pa., 45
International Telephone & Telegraph Corp., Calif., 45, 88
International Telephone & Telegraph Corp., Federal Instruments, Industrial Products Div., 250 Garibaldi Ave., Lodi, N.J., 52
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Tel: PRescott 3-1550
J-V-M Microwave Co., 9305 W. 47th St., Brookfield, Ill., 50, 70
See ad on page 500
Tel: HUnter 5-2000
Jerrold Electronics Corp., Dept. 23, Jerrold Bldg., 15th & Lehigh, Philadelphia 32, Pa., 70, 88, 90
See ad on page 518
Tel: BAldwin 6-3456
Jerrold Electronics Ltd., Canada, 70, 88, 90, 96
Johnson Co., E. F., Minn., 42, 60
Kearfott Co., Inc., 1378 Main Ave., Clifton, N.J., 5, 12, 45, 50, 80, 92
See ad on page 364
Tel: GRegory 2-1000
Kearfott Co., Inc., Microwave Div., Dept. 24J, 14844 Oxnard St., Van Nuys, Calif., 50
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Tel: STate 6-1760
Keithley Instruments, Inc., 12415 Euclid Ave., Cleveland 6, Ohio, 5, 10, 12, 52, 75, 92
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Tel: TRinity 1-8000
Kenilworth Coupling Co., N.C., 7, Flexible
Kenyon Transformer Co., Inc., N.Y., 45
Kepco Laboratories, Inc., 131-38 Sanford Ave., Flushing 55, N.Y., 45
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Tel: INdependence 1-7000
Kinevox, Div. of Electromation Co., Calif., 5, 7, 60, 80

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Tel: BRowning 7-6700

Knight Corp., E., Mass., 50, 70

Kollsman Instrument Corp., 80-08 45th Ave., Elmhurst 73, L.I., N.Y., 45
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Tel: NEwtown 9-2900

Krohn-Hite Corp., 580 Massachusetts Ave., Cambridge 39, Mass., 5, 60, 94, 96
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Tel: UNiversity 4-4272

Kuss Industries, Inc., Pa., 40

LEL, Inc., 380 Oak St., Copiague, L.I., N.Y., 35, 50, 70, 92, 96
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Tel: AMityville 4-2200

L. & O Research & Development Corp., Pa., 47, 60, 67

Labko Scientific, Inc., Okla., 47, 55, 62, 92

Lambda-Pacific Engr., Inc., Calif., 50, 90

Land-Air, Inc., Calif., 95

Land-C-Air Sales Co., N.Y., 30, 67, 75, 90

Langevin Mfg. Corp., N.Y., 65

Lapointe Industries Inc., Printed Circuit Div., Conn., 5, 7, 30, 35, 62, 67, 70, 88, 90

Lawn Electronics Co., Inc., N.J., 5, 12, 60

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Lear, Inc., Mich., 80

Leeds & Northrup Co., Pa., 5, 42, 52

Lesa, S. P. A., Italy, 5, 30, 55, 57, 60, 65

Levinthal Electronic Prods. Inc., Calif., 47, 50, 67, 70

Librascope, Inc., Calif., 12, 42, 45, 62, 67, 80, 85

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Ling Electronics, Inc., 9937 W. Jefferson Blvd., Culver City, Calif., 5, 54, high power
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Tel: TExas 0-7711

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Link Aviation, Inc., N.Y., 5, 80

Liston Becker Instrument Div., Beckman Insts. Inc., Conn., 5

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Loral Electronics Corp., N.Y., 5, 35, 50, 67, 70, 80, 92, 96

Luther Mfg. Co., Calif., 80, 92

Lynmar Engineers, Inc., Pa., 35, 70

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Tel: GRamercy 3-5899

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Magnetic Amplifiers, Inc., 632 Tinton Ave., New York 55, N.Y., 45, 65, 80, 92
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Tel: CYpress 2-6610

Magnetic Controls Co., Minn., 5, 45, 62, 80, 92

Magnetic Instruments Co., N.Y., 5, 10, 12, 42, 47, 75, 80, 85, 92

Magnetic Research Corp., 3160 W. El Segundo Blvd., Hawthorne, Calif., 5, 40, 42, 45, 52, 57, 60, 67, 80, 85, 92
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Maico Electronics, Inc., Minn., 7, 25, 47

Mandex Mfg. Co., Inc., Ill., 5, 7

Marantz Co., N.Y., 30, Stereo & Pre-Amplifiers

TRAVELING WAVE
LOW NOISE
MICROWAVE AMPLIFIER



LEL TWT-10 CM

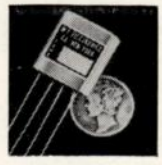
The TWT-10 CM has been designed specifically for use with RCA Traveling Wave Tubes and will accommodate six of the various types currently available from RCA. Amplifiers for other RCA types available on special order.

The TWT-10 CM features tube helix protection thru incorporation of a high sensitivity relay circuit. Noise figures of less than seven db over a wide band of frequencies can be obtained.

LEL, Inc. 380 OAK STREET COPIAGUE, N. Y.

For details, circle #205 on Reader Service Card

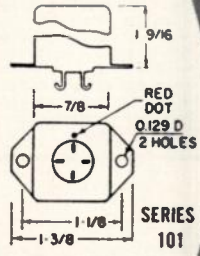
FOR USE WHERE SPACE IS AT A PREMIUM



- 6 volt input
- Operation from −25 to 50°C
- 1/5 cubic inch

FLIP FLOP, Type 11—50 KC input
SAWTOOTH GENERATOR, Type 17
MULTIVIBRATOR, Type 12—400 cps
ONE SHOT MULTIVIBRATOR, Type 18 • AMPLIFIER, Type 15—30 cps to 30 KC
MEMORY AMPLIFIER, Type 19

FIXED FREQUENCY OSCILLATORS



- 12 volts DC
- 28 volts DC
- Standard frequencies. from 400 cps to 30 KC

TINY TRANSISTORIZED AMPLIFIER— Model M-10



This amplifier is small and completely self-contained. A matched earpiece is included for audio use.
Input Impedance—150 kilohms
Voltage Gain—1000 or greater
Power Gain—85 DB
100 microvolts input for full output

ECONOMICAL FLIP FLOPS FOR COUNTER USE

Low current, 12 volts, ½ cubic in. Indicating Flip Flop, Type 20, directly indicates the count
Low Speed F.F., Type 21—30 KC • Medium Speed F.F., Type 22—150 KC • High Speed F.F., Type 23—300 KC

TRANSISTORIZED PACKAGES MADE TO YOUR REQUIREMENTS
WRITE FOR FREE LITERATURE

M F Electronics Co. 122 East 25 St., New York 10, N. Y. GRamercy 3-5899

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MAGNETIC RESEARCH CORPORATION

Serving Industry and Defense

AN OUTSTANDING LINE OF ALL-MAGNETIC COMPONENTS, SYSTEMS AND MAGNETICALLY REGULATED POWER SUPPLIES

Stablvolt 60 Cycle DC Power Supplies



These new DC power supplies feature line transient suppression, fast response and achieve the highest degree of reliability. Designed for a broad range of applications, they are recommended wherever accurate, trouble-free performance is desired. Dual magnetic regulation plus the most modern electrical and mechanical design techniques are combined in these competitively priced power supplies. Built and guaranteed for the most rugged duty by Stablvolt* and available in a wide range of voltages and currents.
*Reg. Trade Mark.

Magnestat Magnetic Servo Amplifier Series



Complete series of precisely engineered Magnetic Servo Amplifiers is available from stock. Magnestats are available ranging from smallest model rated at 3 watts with a frequency response of from 0 to 30 cps to largest 40 watt model with a frequency response of from 0 to 10 cps. These units have sinusoidal phase reversing output, with transistor or tube control . . . a.c. or d.c. input. They have been qualification tested and meet stringent requirements encountered in aircraft and missile control systems.

Micromag Low-level Magnetic DC Signal Amplifier



The Micromag is a drift-free d.c. signal amplifier designed for use in aircraft and missile telemetering instrumentation. It produces ripple-free 5 VDC output from 10 millivolt d.c. input for the amplification of signals from thermocouples and strain gauges. It provides extremely stable linear d.c. voltage amplification with gain changes of less than 2% for temperature change of 100°C. and less than ½% for line voltage changes of from 105 V. to 125 V.

Line Regulators



Designed to insure proper operation of equipment where changes in AC voltage could cause malfunctioning or loss of accuracy. Regulation held within plus or minus .5% against line changes between 100-130V., load changes from 2.5-25 amperes, and frequency changes between 380 and 420 cps. Response time less than 10 milliseconds. Output wave form distortion is 5% maximum. Output voltage continuously adjustable between 110 and 120 volts. Available in military and commercial design.

6 Channel Universal Temperature Measuring System



This new versatile system is the result of six years of extensive laboratory and field experience in temperature measuring problems with features found in no other comparable system. This unit has been designed to cover the entire practical temperature range. The Magnetic DC Amplifiers have exceedingly high gain stability even under adverse conditions and are absolutely drift-free. The Wheatstone plug-in bridges are completely interchangeable.

Thermocouple measurements are made without the use of ice baths or ovens and thermistor and resistance thermometer measurements are made without the use of any additional power supply. The low-level d.c. magnetic amplifiers produce 0 to 5 V output.

Servomag Industrial Magnetic Servo Amplifier Series



New Servomag amplifier series has been designed to fill the long standing need for a rugged maintenance free power amplifier for the stepless control of high power AC or DC Servo motors. Servomags exceeds the response time of rotating amplifiers by very wide margin, allowing the use of simplified control circuitry with greatly reduced servo stability problems.

Delivers phase reversible AC (or polarity reversible DC) in response to phase reversing AC signals or polarity reversible signals; has outstanding zero stability as well as high gain stability. Amplifier designed to take severe overloads and output can be short-circuited without damage.

Stablvolt 400 cps Power Supplies



Features magnetic flux oscillator circuitry to provide precision regulated 5V transient-free d.c. output voltage. The unit is a tubeless, dual magnetic system which effectively isolates line voltage transients from the output and regulates d.c. to 0.1% accuracy. Current capacity is 1 ampere. Short circuit proof, no fusing required. The units are hermetically sealed with all components cast in thermosetting plastic, meet MIL-T-27 and MIL-E-5272-A specifications. Operates on standard 115 V-400 cycle aircraft supply mains.

Magnetic Frequency Discriminators



Produce a well filtered 0-5 V DC output voltage in response to a frequency deviation. One application is the measuring of the power frequency of aircraft and missile power sources and frequency deviation from their normal value.

Power input requirement for units is approximately 2½ watts. Supply voltage can vary between 95 and 150 volts. Output variation is less than ½% or less than 25 millivolts for line voltage variations from 105 to 125 volts; slightly higher for the extremes of the supply voltage limits.

Two representative models of the new line are the FD-400 for 400 cycle power sources and the FD-2000 for inverters operating at 2000 cps; also available for frequencies up to 10 KC.

MAGNETIC RESEARCH CORPORATION

3160 West El Segundo Blvd., Hawthorne, California

Directory II. Components

21. Amplifiers.

Marine View Electronics, Inc., N.Y., 7, 40, 55, 65
Marsland Engrg. Ltd., Canada, 80
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Mayberry Electronics Co., Calif., 5, 7, 12, 42, 52, 80, 92
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Tel: DAvenport 6-9080
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Regulator Equipment Corp., N.J., 45

Code numbers shown after each firm refer to product or service sub-classes listed at the beginning of each major classification. Complete addresses will be found in the Alphabetical Directory.

NEW

AC Microammeter

Model 30



Enables rapid, accurate AC current measurements and observations of wave forms in transistors, magnetic amplifiers, small servo systems, etc. A clamp-on probe and an insertion probe are provided with each instrument.

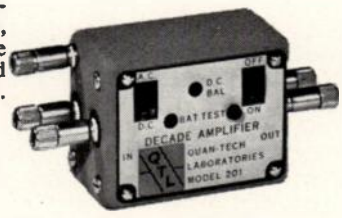
Sensitivity: 3 ua to 100 ma full scale (300 ua to 100 ma—clamp on probe).
Frequency: ±2% 100 ∿ to 100 KC (±5% 100 ∿ to 100 KC—clamp on probe).
Input impedance: 2 ohms—3 ua to 1 ma; negligible 300 ua to 100 ma.
Price: $290.00

CONCEPTS

DC-Coupled Decade Amplifier

Extremely compact and stable, a completely self-contained miniature amplifier. Its DC response, low noise, and freedom from microphonics make it exceptionally useful with DC oscilloscopes and in sub-sonic as well as conventional applications.

Gain: 10 ±2%, flat within ±2% DC to 100 KC.
Input: 400k ohms and 30 mmf, 20 uv input noise.
Output: 100 ohms, 1 volt P-P max, ½% distortion.
Batteries: Three ZM 9 mercury cells, life 600 hrs.
Price: $85.00



Model 201

IN

Isolation Amplifier

Useful as a Differential or Isolation Amplifier. Supplements voltmeters and oscilloscopes in the measurement of AC voltages whose reference is not at ground potential as in servo systems, motors, magnetic amplifiers etc.

Frequency Response: ±½ db 30 ∿ —100 KC; —3 db at 5 ∿ and 1 MC.
Voltage gain: 1, 0.1, 0.01, 0.001.
Input Impedance: 100k ohm and 50 mmf.
Output: Nominally 20 ohms, 1V. P-P max.
Mercury Battery: Life 600 hours.
Price: $135.00



Model 202

ELECTRONIC

Regulated, Transistorized Power Supplies

Model 104 Power Supply features 0.1% regulation and three metered ranges of voltage and current. Models 101, 102, and 103 (not shown) are compact, lightweight supplies providing voltage metering and 0.25% regulation. Continuous adjustment and overload protection on all models.

Model 101: 0-8 volts DC, 0-2 amps.	Price $175.00
Model 102: 0-14 volts DC, 0-1 amp.	Price $175.00
Model 103: 0-30 volts DC, 0-½ amp.	Price $175.00
Model 104: 0-50 volts DC, 0-1 amp.	Price $325.00



Model 104

EQUIPMENT

QTL
Quantitative Technology

QUAN-TECH LABORATORIES
236 Mt. Kemble Ave., Morristown, New Jersey

For details, circle #208 on Reader Service Card

21. Amplifiers.

Remler Co., Calif., 7, 25, 40, 65
Resdel Engineering Corp., Calif., 5, 12, 35, 42, 50, 60, 70, 96
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Robinette Co., W. C., Calif., 80
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Tel: TWinbrook 4-6300
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Tel: LYric 2-6400
Southwestern Industrial Electronics Co., 2831 Post Oak Rd., P.O. Box 13058, Houston 19, Tex., 5, 20, 60, 92, 95
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Tel: MOhawk 7-6611
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Westlab Electronics, Inc., N.Y., 40, 60, 65
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Antennas and accessories: See class 3

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22. Attenuators.

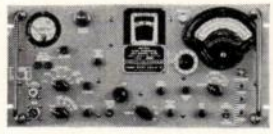
2. IF
4. RF
5. Decade
10. Impedance matching
15. Microwave
18. Fixed microwave step
20. Volume controlling

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Code numbers shown after each firm refer to product or service sub-classes listed at the beginning of each major classification. Complete addresses will be found in the Alphabetical Directory.

STODDART RADIO INTERFERENCE
AND FIELD INTENSITY MEASURING EQUIPMENT

covering a frequency range of 30 cps to 1000 mc



NM-40A (AN/URM-41)
30 cps to 15 kc

SELECTIVE OPERATION/Specifications

Sensitivity: For a one-to-one signal-to-noise ratio, the sensitivity of the NM-40A is better than 0.15 microvolt from 1000 to 15,000 cps, 0.25 microvolt from 300 to 1000 cps and 1.0 microvolt from 30 to 300 cps, when used as a selective two-terminal voltmeter with its narrowest bandwidth and an input impedance of 100,000 ohms.

Spurious Responses:

$2F_0' >$ 60db down from F_0
$3F_0' >$ 55db down from F_0
All others > 75 db down
} where F_0 is any input signal using selective operation

WIDEBAND OPERATION/Specifications

Frequency Response: 30 cps to 15 kcs, ±0.5 db.

Sensitivity: 15 microvolts sensitivity at input impedance of 100,000 ohms.
Input Impedance: 50, 600, 10,000 and 100,000 ohms.
The NM-40A may also be used as an ultra-sensitive AUDIO frequency WAVE ANALYZER.



NM-10A (AN/URM-6B)
14 kc to 250 kc

GENERAL SPECIFICATIONS:

Sensitivity: Electrostatic pickup using rod antennas, one microvolt-per-meter to 2 volts-per-meter. Electro-magnetic pickup using shielded loop antennas, 10 microvolts-per-meter to 100 volts-per-meter. As a two-terminal voltmeter, either balanced or unbalanced, one microvolt to one volt.

Effective Random Noise Bandwidth: Varies from approximately 55 cps to 400 cps over the frequency range. Calibration charts give exact figures for each frequency.

Image Rejection: Better than 50 db.

I.F. Rejection: Greater than 60 db.

The equipment is of sturdy drip-proof construction and may be operated for prolonged periods in driving rain or snow with no deleterious effects.



NM-20B (AN/PRM-1A)
150 kc to 25 mc

GENERAL SPECIFICATIONS:

Sensitivity: As a two-terminal voltmeter, either balanced or unbalanced, one microvolt to one volt. Electrostatic pickup using rod antenna, two microvolts-per-meter to 2 volts-per-meter. Electromagnetic pickup using shielded loop antenna, 100 microvolts-per-meter to 100,000 microvolts-per-meter.

Image Rejection: Better than 50 db.

I.F. Rejection: Greater than 45 db.

BFO is provided for c.w. reception.



NM-30A (AN-URM-47)
20 mc to 400 mc

Sensitivity: Radiated pick-up using a calibrated, tuned dipole (without reflector), one to ten microvolts-per-meter, depending on frequency. Conducted pick-up via 50-ohm matched coaxial line, one microvolt from 20 to 240 Mc, five microvolts from 240 to 400 Mc.

Spurious Response Rejection: Better than 40 db.

I.F. Rejection: Greater than 60 db.



NM-50A (AN/URM-17)
375 mc to 1000 mc

Sensitivity: Radiated pick-up using a calibrated, tuned dipole (without reflector) 100 to 350 microvolts-per-meter, depending on frequency. Conducted pick-up via 50-ohm matched coaxial line, 10 microvolts.

Effective Random Noise Bandwidth: Approximately one megacycle over entire frequency range.

Image Rejection: Better than 40 db.

Spurious Response Rejection: Better than 40 db.

I.F. Rejection: Greater than 80 db.

APPROVAL DATA CHART

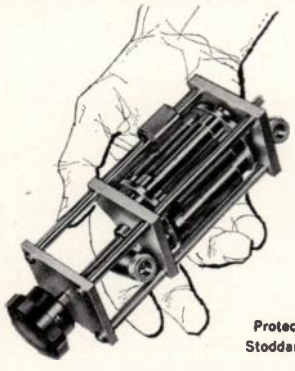
STODDART & MILITARY TYPE	FREQUENCY	MIL-I-16910 (Ships)	MIL-I-6181 MIL-I-006181C	S.A.E.	A.S.A.	C.I.S.P.R.
NM-40A (AN/URM-41)	30cps-15Kc	CLASS '1'	Not Req'd	Not Req'd	Not Req'd	Not Req'd
NM-10A (AN/URM-6B)	14Kc-250Kc	CLASS '1'	Not Req'd	Not Req'd	C63.2 (Proposed)	Not Req'd
NM-20B (AN/PRM-1A)	150Kc-25Mc	CLASS '1'	CLASS '1' CATEGORY 'A'	Not Req'd	C63.2 (Proposed)	*
NM-30A (AN/URM-47)	20Mc-400Mc	CLASS '1'	CLASS '1' CATEGORY 'A'	APPROVED	C63.3 (Proposed)	*
NM-50A (AN/URM-17)	375Mc-1000Mc	CLASS '1'	CLASS '1' CATEGORY 'A'	Not Req'd	C63.3 (Proposed)	Not Req'd

*Can be supplied to C.I.S.P.R. Recommendations
S.A.E. (Society of Automotive Engineers)
A.S.A. (American Standards Association)
C.I.S.P.R. (Comite International Special des Perturbations Radioelectriques) (International Special Committee on Radio Interference)

All items immediately available from stock

STODDART COAXIAL ATTENUATORS AND TERMINATIONS

made with exclusive Stoddart Filmistors for highly accurate and stable resistive values from dc to 3000 mc.



Protected under Stoddart Patents

2, 6 AND 10-POSITION
TURRET ATTENUATORS
WITH SIMPLE
"PULL-TURN-PUSH" OPERATION,
SMALL AND RUGGED

ATTENUATOR PADS



Available in any conceivable combination of male and female Type C and Type N connectors. Maximum length of 3" for any attenuation value.

GENERAL SPECIFICATIONS
VSWR: Less than 1.2 to 3000 mc.
Characteristic Impedance: 50 ohms.
Attenuation Value: Any value from 0 db to 60 db including fractional values.
Accuracy: ±0.5 db; values above 50 db have rated accuracy of attenuation through 1000 mc only.
Power Rating: 1.0 watt sine wave.

COAXIAL TERMINATIONS



Small-stable-50 or 70 ohms

½-Watt: 50 ohms impedance, TNC or BNC connectors, dc to 1000 mc, VSWR less than 1.2.

1-Watt: 50 ohms impedance, dc to 3000 mc or dc to 7000 mc, Type N or Type C connectors, male or female; VSWR less than 1.2, 70 ohm, Type N, male or female terminations available.

Fast delivery on all items/Send for complete literature

STODDART
AIRCRAFT RADIO CO., INC.

6644 Santa Monica Blvd., Hollywood 38, Calif. HO 4-9292

For details, circle #209 on Reader Service Card

Directory II. Components

22. Attenuators.

Airtron, Inc., Dept. I, 1106 W. Elizabeth Ave., Linden, N.J., 15, 18, Ferrite
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Tel: HUnter 6-1000

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Tel: HAncock 6-2150

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Tel: EDgewood 3-3090

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Tel: ADams 3-4491

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Tel: POrt Washington 7-8707

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Bird Electronic Corp., 1800 E. 38th St., Cleveland 14, Ohio, Directional & Coaxial RF
See ad on page 346
Tel: EXpress 1-3535

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Tel: HAmilton 7-7961

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Tel: LOcust 4-3131

Dallons Labs., Inc., Calif., 10

Danbury-Knudsen, Div. of Amphenol Electronics Corp., Box 170, Danbury, Conn., 4, 10, 15
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Tel: PI 8-3549

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Defiance Engrg. & Microwave Corp., Mass., 4, 15, 18

Dell Optics Co., Ltd., 327 55th St., West New York, N.J., glass attenuator blanks
See ad on page 558
Tel: UNion 7-1599

DeMornay-Bonardi, 780 S. Arroyo Pkwy., Pasadena, Calif., 15, 18
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Tel: SYcamore 2-4142

Diamond Antenna & Microwave Corp., Mass., 4, 15, 18

Dmeter Mfg., Co., Inc., N.Y., 5

Douglas Microwave Co., Inc., Dept. RE-8, 252 E. Third St., Mount Vernon, N.Y., 15, 18
See ad on page 456
Tel: MOunt Vernon 8-6900

Dunlap Electronics Inc., Iowa, 20

Dwyer Engineering Co., Inc., Airport Rd., Box 452, Nashua, N.H., 15
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Tel: TUxedo 3-3206

Dymec, Inc., Calif., 15

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Electro Measurements, Inc., Ore., 5

Electro-Pulse, Inc., 11861 Teale St., Culver City, Calif., 5
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Tel: TExas 0-8006

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Tel: VIctor 2-8400

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Tel: AStoria 8-2800

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Frequency Standards, P.O. Box 504, Shafto Rd., Asbury Park, N.J., 4, 15
See ad on page 133
Tel: PRospect 4-0500

G B Electronics Corp., Subsidiary of General Bronze Corp., Hook Creek Blvd., Valley Stream, L.I., N.Y., 15
See ad on page 246
Tel: LOcust 1-1125

Manufacturer of
COAXIAL ATTENUATORS
Since 1947

Many standard models covering DC—10 KMC available using our own Metal Film and Cracked Carbon Film Resistors. Connectors: "N", "BNC", "C" and "7/8".

MODEL 10 Bilateral			MODEL 11 or 12		
Cat. No.	Nominal Attenuation DB	Power Sensitivity DB at 10 Watts	Cat. No.	Nominal Attenuation DB	Power Sensitivity DB at 10 Watts
10-1	1	0.01	11 or 12-4	4	0.02
10-2	2	0.01	11 or 12-5	5	0.03
10-3	3	0.01	11 or 12-6	6	0.03
.....	.....	.....	11 or 12-7	7	0.05
.....	.....	.....	11 or 12-8	8	0.07
.....	.....	.....	11 or 12-9	9	0.09
.....	.....	.....	11 or 12-10	10	0.10

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PRECISION
10 WATT POWER
PADS



50 OHM
IMPEDANCE

DC to 1 KMC
FREQUENCY RANGE

1 to 10 DB
ATTENUATION

Connectors: "N"
Model 10: bilateral.
Model 11: female input.
Model 12: male input.

- Maximum Input VSWR. 1.15.
- Resistors: Pulsed stabilized.
- Maximum Deviation of Insertion Loss from Nominal: ±0.2 DB (indicates frequency sensitivity and DC inaccuracy).
- Calibration Frequencies: DC; 400 MC; 750 MC; 1000 MC.

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10503 Metropolitan Ave., Kensington, Md.

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MOST COMPLETE LINE OF STANDARD BATTERIES

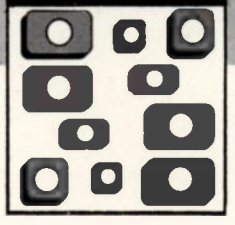
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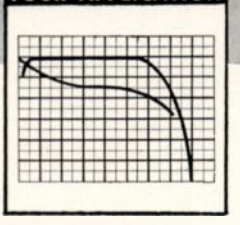
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UNLIMITED RANGE OF VOLTAGES



CAPACITY TAILORED TO YOUR APPLICATION



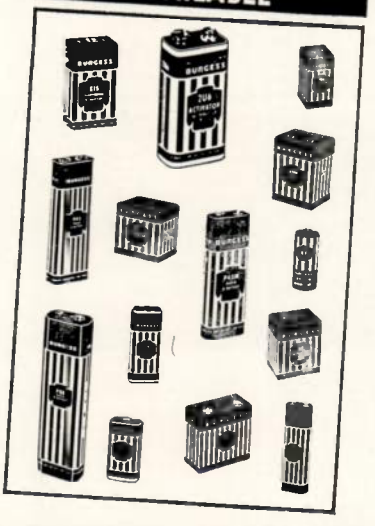
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Gives Greatest Selection of Dry Batteries

The revolutionary Wafer Cell offers a 30% increase in battery life at no increase in size. This exclusive Burgess construction consists of a sandwich of manganese dioxide mix between two flat electrodes of zinc and carbon with spots of hot silver wax applied to each exposed pole of the cell, allowing perfect electrical contacts throughout and almost complete absence of vibration. Cells are wrapped in Mylar film and packed in such modern materials as aluminum for compactness, long shelf life, excetional service life, outstanding dependability.

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22. Attenuators.

Gates Radio Co., Ill., 10, 20
General Bronze Corp., N.Y., 15
General Communication Co., Mass., 15, 18
General Radio Co., 275 Massachusetts Ave., Cambridge 39, Mass., 4, 5
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Gramatan Instrument Co., N.Y., 10, 15
Gulton Industries, Inc., Nuclear Instrument Div., N.M., 4, 15, 18
Hallicrafters Co., Ill., 15
Hansen Electronics Co., Calif., 15
Hewlett-Packard Co., 275 Page Mill Rd., Palo Alto, Calif., 4, 15
See ad on pages 3-18
Tel: DAvenport 5-4451
Industrial Products Div. I.T. & T., N.J., 2, 4, 5
International Resistance Co., Pa., 4
International Tel. & Tel. Corp., Federal Instruments, Industrial Prods. Div., 250 Garibaldi Ave., Lodi, N.J., 2, 4, 5
See ad on page 484
Tel: PRescott 3-1550
J-V-M Microwave Co., 9305 W. 47th St., Brookfield, Ill., 4, 15
See ad on page 500
Tel: HUnter 5-2000
Javex, Calif., 20
Jerrold Electronics Corp., Dept. 23, Jerrold Bldg., 15th & Lehigh, Philadelphia 32, Pa., 4
See ad on page 518
Tel: BAldwin 6-3456
Jerrold Electronics Ltd., Canada, 4
Johnson Co., E. F., Minn., 4
Julie Research Labs. Inc., N.Y., 5
Kama Instrument Corp., N.Y., 15, 18
Kay Electric Co., Dept. ID-9, Maple Ave., Pine Brook, N.J., 2, 4, 10
See ad on page 516
Tel: CApital 6-4000
Kearfott Co., Inc., Microwave Div., Dept. 24J, 14844 Oxnard St., Van Nuys, Calif., 4, 15, 18
See ad on page 458
Tel: STate 6-1760
Kings Electronics Co., Inc., N.Y., 4, 15
Leeds & Northrup Co., Pa., 10
Lesa, S. P. A., Italy, 20
Lieco, Inc., 3610 Oceanside Rd., Oceanside, L.I., N.Y., 15
See ad on page 457
Tel: ROckville Centre 6-7620
Ling Electronics, Inc., 9937 W. Jefferson Blvd., Culver City, Calif., 10
See ad on page 488
Tel:TExas 0-7711
Ling Systems, Inc., Calif., 15, 18
Litton Industries, Md., 15
Lynmar Engineers, Inc., Pa., 10
Marconi Instruments, 111 Cedar Lane, Englewood, N.J., 4, 5
See ad on page 502
Tel: LOwell 7-0607
McGraw-Edison Co., Measurements Div., N.J., 2, 4, 5
McMillan Industrial Corp., Mass., 15

Directory II. Components

22. Attenuators.

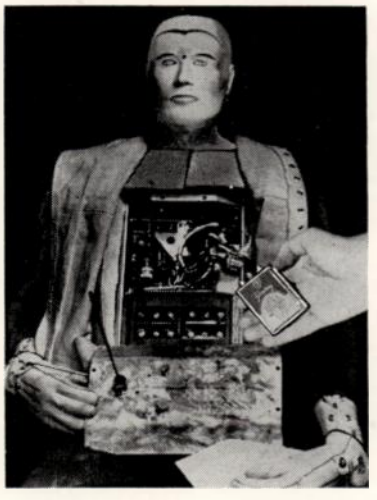
Measurements, A McGraw-Edison Div., Box 180, Boonton, N.J., 2, 4, 5
See ad on page 509
Tel: DEerfield 4-2131
Meridian Metalcraft, Calif., 10, 15, 18
Metavac, Inc., N.Y., 4, 5, 10, 15, 18
Microlab, 71 Okner Pkwy., Livingston, N.J., 4, 5, 10, 15, 18
See ad on page 349
Tel: LIvingston 6-0692
Micromat Co., N.J., 15
Microwave Associates, Inc., Mass., 4, 15
Microwave Engrg. Labs., Calif., 15, 18
Motorola, Inc., Ariz., 2, 4, 5, 10, 15, 18, 20
Muirhead & Co., Ltd., England, 2, 4, 5
Muirhead Instruments, Inc., N.Y., 4, 5
NRK Mfg. & Eng. Co., Ill., 15
Narda Microwave Corp., Dept. IRE-8, 118-160 Herricks Rd., Mineola, L.I., N.Y., 15, 18
See ad on pages 124-127
Tel: PIoneer 6-4650
New London Instrument Co., Conn., 4
North Hills Electric Co., Inc., 402 Saga-more Ave., Mineola, L.I., N.Y., video
See ads on pages 315, 453
Tel: PIoneer 7-0555
Ohmite Mfg. Co., Ill., 20
Omega Labs, Inc., Mass., 15
Ortho Filter Corp., N.J., 4
Painton & Co., England, 2, 4, 5, 10, 20
Philco Corp., Government & Industrial Div., Pa., 15, 18
Photo-Crystals, Inc., Ill., 15
Polydoroff & Assoc., D.C., 4, 15
Polytechnic Research & Development Co., Inc., N.Y., 10, 15, 18
Pylon Electronic Development Co., Ltd., Canada, 2, 4
Radar Design Corp., N.Y., 15
Radio Engineering Prods., Canada, 5
Rho Engineering Co., Calif., 10
Rinco, Inc., Ore., 5
Rixon Electronics, Inc., Md., 4, 10
Sage Laboratories, Inc., Mass., 15
Sanders Associates, Inc., N.H., 15
Saratoga Industries, N.Y., 15, 18
Shallcross Mfg. Co., Selma, N.C., 4, 5, 10, 20
See ad on page 468
Tel: WOodlawn 5-2341
Sivers Lab., Sweden, 15
Solartron Electronic Group Ltd., England, 2, 4
Southwestern Industrial Electronics Co., 2831 Post Oak Rd., P.O. Box 13058, Houston 19, Tex., 5
See ad on page 192
Tel: MOhawk 7-6611
Specialty Engineering & Electronics Co., N.Y., 5
Sperry Gyroscope Co., Microwave Electronics Div., N.Y., 15
Sperry Gyroscope Co. of Canada, Ltd., Canada, 15
Stoddart Aircraft Radio Co., Inc., 6644 Santa Monica Blvd., Hollywood 38, Calif., 4, 5, 15, 18
See ad on page 286
Tel: HOllywood 4-9292
Sylvania Electric Products Inc., Microwave Physics Lab., 500 Evelyn Ave., P.O. Box 1296, Mountain View, Calif., 15
See ad on page 28
Tel: YOrkshire 8-0051
Taffet Radio & TV Co., N.Y., 2, 4, 5
Tech Laboratories, Inc., Bergen & Edsall Blvds., Palisades Park, N.J., 5, 10, 15, 20
See ad on page 430
Tel: WIndsor 4-2221
Technicraft Laboratories, Inc., Conn., 15, 18
Telectro Industries Corp., N.Y., 2, 4, 5, 15, 20
Telerad Mfg. Corp., N.Y., 2, 4, 15, 18
Telonic Industries, Inc., Ind., 2, 4, 5
Trad Electronics Corp., 1001 First Ave., Asbury Park, N.J., 4, 10
See ad on page 513
Tel: PRospect 6-7445
Transline Associates, N.J., 15
Uniwave, Inc., N.Y., 10, 15
Van Norman Industries, Inc., Electronics Div., N.H., 2, 4, 5, 18
Wac Line, Inc., Ohio, 15, 18
Waltham Electronics Corp., Mass., 4
Waveline, Inc., N.J., 15
Wayne Kerr Laboratories, Pa., 5
Weinschel Engineering, 10503 Metropolitan Ave., Kensington, Md., 4, 15, 18
See ads on pages 287, 503
Tel: LOckwood 4-0122
Westbury Electronics, Inc., N.Y., 4
White Electron Devices, Inc., Roger, N.J., 15
Whiting & Davis Co., Mass., 15, 18
Wunderlich Radio Co., Ill., 2, 4, 15

Ballasts and voltage regulators: See class 62

23. Batteries.

5. Dry batteries
10. Mercury batteries
15. Storage batteries —lead-acid
20. Storage batteries —nickel-alkali
25. Storage batteries —silver-zinc
30. Sun batteries

American Machine & Foundry Co., Va., 25
Bright Star Ind., N.J., 5
Brown Co., I., N.Y., 30
Burgess Battery Co., Exchange St., Freeport, Ill., 5
See ad on page 288
Tel: ADams 2-2161



HIS HEART IS A YARDNEY SILVERCEL® BATTERY!

Because YARDNEY SILVERCEL® Batteries are up to 5 times smaller and 6 times lighter than any other batteries of equal capacity, they power measuring devices inside "Hurricane Sam", an artificial man used to perfect jet escape techniques. Today, imaginative engineers are also using SILVERCEL® Batteries in communications, portable power supplies, telemetering and instrumentation . . . either as standard or custom-built models. Couldn't you use these light, compact, powerful SILVERCEL® Batteries? Write for complete data today.

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*"Pioneers in Compact Power"**
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MANUFACTURERS OF YARDNEY SILVERCEL®, YARDNEY SILCAD® AND YARDNEY ARCTIC* BATTERIES
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*Trade Mark

Code numbers shown after each firm refer to product or service sub-classes listed at the beginning of each major classification. Complete addresses will be found in the Alphabetical Directory.

NICKEL CADMIUM STORAGE BATTERIES by NICAD

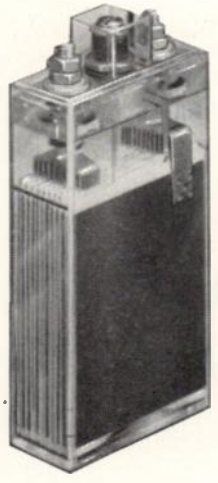
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NICAD—pioneer in the United States in the development, manufacture, and proper application of Pocket Plate and Miniaturized Sintered Plate types of Nickel Cadmium Storage Batteries, offers a complete line of this vital equipment . . . with capacities and engineered construction to meet every demand for constant, lasting, and dependable service.

NICAD batteries—with a long history of superior performance in a wide variety of critical applications—constantly are in demand where there is a vital need for highly reliable and durable equipment.

SINTERED PLATE Capacities ½ AH to 150 AH

USES:
Missile & Rocket Control
Guidance Systems
Communications Equipment
Data Processing Equipment
Alarm & Signal Systems
Aircraft Engine Starting
Microwave & Telemetering
Portable Electronic Equipment
Instruments



ADVANTAGES:
Matchless Reliability • Sustained Voltage at Heavy Discharge Rates • Rapid Charge Acceptance • Long Life • Extreme Temperature Operation (from —60 to 200° F) • Discharges in any position • Easy Maintenance • Pressure Sealed • Steel Encased • Small, Lightweight • No Corrosive Fumes

CHARACTERISTICS:
Nominal voltage per cell: 1.2 volts (a 6 volt battery consists of 5 cells)
Temperature range: —60°F to +200°F
Maximum Discharge Current: up to 25 times rated ampere hour capacity
Capacity at—60°F: up to 90% at low rates
Internal resistance very low: 0.001 ohms for 10 AH type cell
Full Charge: by constant potential in one hour at 1.55 volts per cell
Full Charge: by constant potential in six hours at 1.43 volts per cell
Charge, trickle: 1.35 volts per cell to maintain a charged battery
Gassing Discharge: None
Gassing Charge: virtually none below 1.47 volts per cell
Vibration resistance: excellent
Shock: 80G
Altitude: pressure release valve opens 25 P.S.I. above ambient
Cycle life: no known limit
Storage life: no known limit in any state of charge
Charge retention: up to 70% after one year at room temperature
Orientation: any position on discharge

POCKET PLATE Capacities 10 AH to 2048 AH



USES:
Stationary Engine Cranking
Standby Power & Control
Signal & Alarm Systems
Switchgear Tripping & Closing
Ground Power Supply
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Emergency Lighting
Locomotive Starting

ADVANTAGES:
Matchless Reliability • Seldom Requires Maintenance • Exceptionally Long Life • Virtually Indestructible • Excellent Voltage Regulation • Sustained Voltage at Heavy Discharge rates • No Corrosive Fumes • Withstands High Ambients • No Sulphation • All-steel Construction

NICAD

NICAD DIVISION GOULD-NATIONAL BATTERIES, INC.
Easthampton, Mass.

For details, circle #213 on Reader Service Card

23. Batteries.

Camera Equipment Co., Inc., N.Y., 5, 20
Cook Co., F. R., Colo., 25
Electric Auto-Lite Co., Ohio, 15
Exide Industrial Div., Electric Storage Battery Co., Pa., 5, 15, 25
Electric Storage Battery Co., Pa., 5, 15, 25
Electronic Batteries, Inc., N.Y., 15
General Electric Co., Rectifier Dept., Va., Battery Chargers—All Types

Gould-National Batteries, Inc., Nicad Div., 172 Pleasant St., Easthampton 6, Mass., 20, Cadmium only
See ad on this page
Tel: EAsthampton 1200

Gulton Industries, Inc., N.J., 20

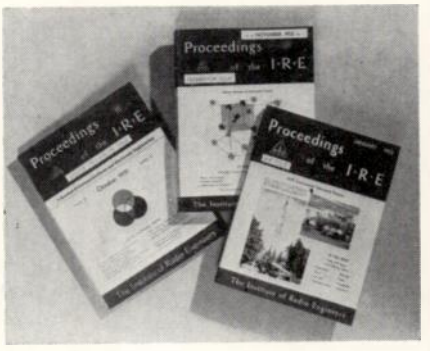
Hoffman Electronics Corp., Semiconductor Div., 930 Pitner Ave., Evanston, Ill., 30
See ad on page 184
Tel: UNiversity 9-9850

Interelectronics Corp., 2432 Grand Concourse, New York 58, N.Y., 5, 10, 15, 20, 25
See ads on pages 268, 376
Tel: LUdlow 4-6200

International Rectifier Corp., 1521 E. Grand Ave., El Segundo, Calif., 30
See ad on pages 86-87
Tel: ORegon 8-6281

Leclanche, S. A., Switzerland, 5, 15
Magnavox Co., Ind., 10
Mallory Battery Co., Ohio, 5, 10
Mallory & Co., Inc., P.R., Ind., 5, 10, 15

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Directory II. Components

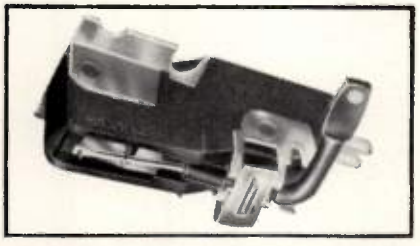
23. Batteries.

Marathon Battery Co., Wis., 5
Minicord Corp. of America, N.J., 5
National Carbon Co., N.Y., 5, 10
Nicad Div., Gould-National Batteries, Inc., 172 Pleasant St., Easthampton 6, Mass., 20, Cadmium only
See ad on page 290
Tel: EAsthampton 1200
Patterson Moos Div., Universal Winding Co., N.Y., 5, Nuclear Batteries
Radiation Research Corp., N.Y., Nuclear Batteries
Radio Corp. of America, Defense Elec. Prod., N.J., 5
Radio Corp. of America, Electron Tube Div., Sec. I-20-Q, 415 S. Fifth St., Harrison, N.J., 5, 10
See ad on pages 113-116
Tel: HUmboldt 5-3900
Ray-O-Vac Co., Wis., 5
Rockland County Battery Co., N.Y., 5, 15, 30
Saft Corp. of America, N.J., 20
Sonotone Corp., Dept. COO-108, P.O. Box 200, Elmsford, N.Y., Nickel-Cadmium
See ad on this page
Tel: LYric 2-6400
Standard Electric Time Co., Mass., 20
Yardney Electric Corp., 40-50 Leonard St., New York 13, N.Y., 25 storage batteries—silver cadmium, primary batteries—silver zinc
See ad on page 289
Tel: WOrth 6-3100

More sound for your dollar from

Sonotone

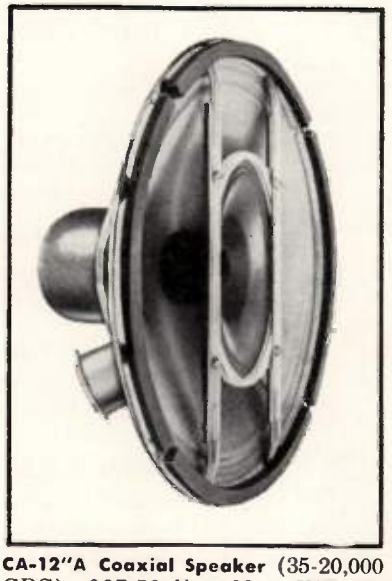
Electronic Applications Division



Ceramic Cartridge Leadership from 3T monophonic to 8T compatible stereophonic. Choice of 50 manufacturers.



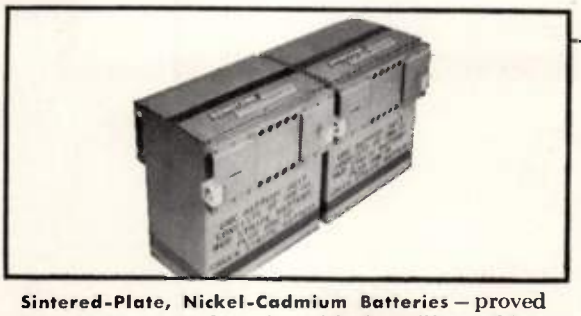
Tape Heads—3/1,000,000ths of an inch accuracy, 3 microvolts sensitivity with response 20-15,000 cps assures the highest professional quality. The price? Bargain low.



CA-12"A Coaxial Speaker (35-20,000 CPS)—$27.50 list. New WR-8", perfect for second stereo speaker, (55-15,000 CPS) only $12.00 list.



Miniature and Subminiature Tubes designed to solve problems in civilian and military applications like the "Nike" and the "Corporal" missiles.



Sintered-Plate, Nickel-Cadmium Batteries—proved in over 10 years of service with the military. Now used in missiles and SAC bombers where ruggedness and dependability are a must.

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Electronic Applications Division, Dept. COO-108
ELMSFORD, NEW YORK

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air · marine motors, inc.

Designers and manufacturers of sub-fractional h.p. motors, blowers and fans . . .

. . . application engineered and proven by environmental laboratory testing, to customer or MIL specifications.

Air-Marine manufactures electric motors for the following general performance ranges:

- **HORSEPOWER** . . . . . 1/500th to 1/2 h.p.
- **SPEEDS** . . . . . 3600 rpm max. at 60 cps
  24,000 rpm max. at 400 cps
  Dual and Variable Speed Units
- **FREQUENCY** . . . . . Fixed . . . 50, 60 or 400 cps
  Variable . . . 50 to 450 cps, and 320 to 1,000 cps
  Special . . . as required
- **VOLTAGE** . . . . . Standard 115V and 230V
  Special . . . as required
- **PHASE** . . . . . 1, 2 or 3 phase
- **SIZE** . . . . . 1" O.D. to 4 3/4" O.D.
- **BLOWER CAPACITY** . . . . . To 1,000 CFM air delivery for blowers and fans depending on Static Pressure encountered.

TYPES OF SUB-FRACTIONAL MOTORS MANUFACTURED:

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BLOWER AND FAN TYPES OFFERED

Centrifugal and Vane Axial Blowers, Blower Housings, Axial Flow Fans.

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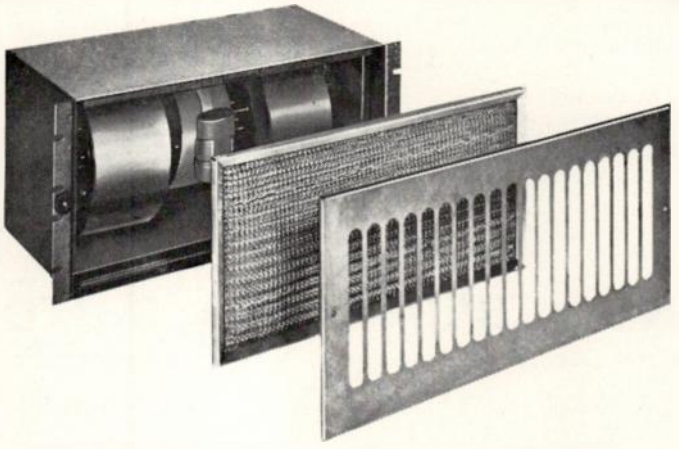
Complete design and development
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RACK MOUNTED
FANS and BLOWERS*
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STANDARD RACK MOUNTED FANS & BLOWERS

Over 15 models available in panel heights of 3½" to 12¼" in increments of 1¾". Range, 80 to 1200 cfm. All units feature quiet operation, no electrical noise and maximum air delivery. Blower units provide better air delivery against pressure and higher velocity for faster cooling. Highly reliable, rubber mounted, 115 volts, 60 cycle motors. Also Mil. Spec. and DC motors available. Permanent filters. Smart, heavy gauge, stainless steel grilles.

RECESSED MODELS



Provide higher performance with minimum panel height. Filter and blower are recessed into the unused portion of the open base commercial type rack. Fit 3½", 5¼", 7", 8¾" and 10½" panel heights and deliver 150 cfm to 1200 cfm. Highly reliable, rubber mounted, 115 volts, 60 cycle motors. Mil. Spec. and DC motors available. Permanent filters.

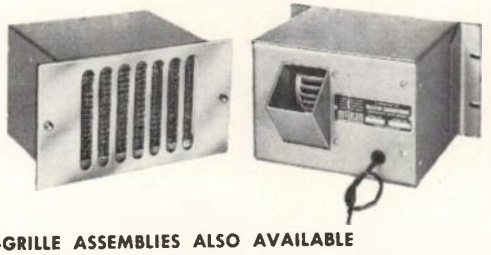
REVERSIBLE FAN



Easy-to-install Filter Box Propeller Fan gives wide choice of cfm's and great mounting flexibility. Operates as blow or suck without rework. Compact, low-cost. Long, service-free life. Operates from various power sources.

HALF PANEL WIDTHS

For narrow racks or where space is a problem. Fit half the width of standard 19" racks leaving balance of space for other components. Blower model (5¼" high) delivers 100 cfm. Fan model (7" high) delivers 225 cfm. Powered by highly reliable, rubber mounted, 115 volts, 60 cycle motors. Mil. Spec. and DC motors available. Permanent type filter.

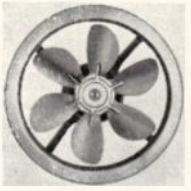


HALF PANEL WIDTH FILTER-GRILLE ASSEMBLIES ALSO AVAILABLE



MIL. SPEC. BLOWERS

Meet most rigid specifications. Mount in any position. Deliver 10 cfm. Fit 3¾" cube. Continuous duty, totally enclosed motor, 1/300 hp. 115 volts, 60 cycle, 3400 rpm.



RING TYPE FANS

175 to 395 cfm. Fan diameters 6½" and 8". Motors totally enclosed, highly reliable, 115 volts, 60 cycle, 3000 rpm. Mil. Spec. and DC motors available. Other sizes available.

FREE! Engineering Booklet on Forced Air Cooling. Describes air convection methods. Includes design data, tables, charts, etc.

FREE! 34 page catalog loaded with helpful data. Shows complete line of fans, blowers.

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TWX Princeton, New Jersey 636

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Directory II. Components

Bearings: See class 87

24. Blowers & Cooling Fans

5. Air wheels & housings
10. Complete blower assemblies
15. Fan blades

Air-Marine Motors, Inc., 369 Bayview Ave., Amityville, L.I., N.Y., 5, 10
See ad on page 292
Tel: AMityville 4-3700

Aironic Accessory Co., Inc., N.Y., 10
Alert Products Inc., N.J., 10

Amco Engineering Co., Dept. M, 7333 W. Ainslie St., Chicago 31, Ill., 10
See ad on page 294
Tel: UNderhill 7-8500

Ashland Electric Prods., Inc., N.Y., 10

Barber-Colman Co., Dept. 59 Directory, 1856 Rock St., Rockford, Ill., 10, 15
See ads on pages 328, 367
Tel: 8-6833

Borg-Warner Corp., Pesco Prods. Div., Ohio, 10
Centronix, Inc., Fla., 10
Craig Corp., Mass., 10
Dynamic Air Engrg. Inc., Calif., 10

Eastern Industries Inc., 100 Skiff St., Hamden 14, Conn., 10
See ad on page 35
Tel: CH 8-3841

Eicor Div., Ill., 10
Electric Indicator Co., Inc., Conn., 10
Electro Sales Co., Inc., Mass., 5, 10, 15
Electronic Techniques, Inc., Calif., 10
Fairchild Camera & Instr. Corp., N.Y., 10
Fasco Industries, Inc., N.Y., 5, 10, 15
Garrett Corp., Calif., 5, 10, 15
Globe Industries, Inc., Ohio, 10
Grieve-Hendry Co., Ill., 5, 10, 15
Handee Household Prods., Inc., N.Y., 15
Heinze Electric Co., Mass., 10, Fractional HP only
ILG Electric Ventilating Co., Ill., 5, 10, 15
Induction Motors Corp., N.Y., 10
Joy Mfg. Co., Pa., 5, 10, 15

Kearfott Co., Inc., 1378 Main Ave., Clifton, N.J., 10
See ad on page 364
Tel: GRegory 2-1000

Lesa, S. P. A., Italy, 5
Luther Mfg. Co., Calif., 10

Manson Labs., Inc., 207 Greenwich Ave., Stamford, Conn., 10
See ad on page 498
Tel: DAvis 5-1391

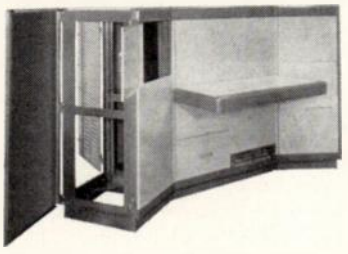
Master Appliance Mfg. Co., Wis., 5, 10, 15

McLean Engineering Labs., P.O. Box 228, 70 Washington Rd., Princeton, N.J., 5, 10, 15
See ad on this page
Tel: WAlnut 4-4440

Motordyne, Inc., Calif., 10

MODULAR ENCLOSURES

BLOWERS CHASSIS SLIDES
SMALL INSTRUMENT CABINETS

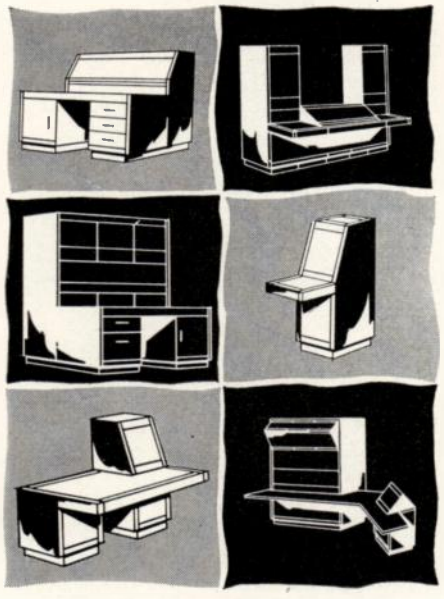


Modular rack type frames (conforming to E.I.A. mounting standards) in two depths, 22" & 25½", for custom appearing individual or console arrangements. Complete integrated accessories . . . turrets, writing surfaces, pie sections, blowers, chassis slides, doors, hinged side panels, etc.

Two systems of small instrument enclosures. Radius edges and corners on all cabinets. Infinite arrangements possible. Exclusive stock 38", 57" and 76" cowlings, panels and writing surfaces provide single unit custom appearance on console assemblies. Rugged construction. Integrated blowers, cooling systems and chassis slides.

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Chicago 31, Illinois

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24. Blowers & Cooling Fans.

Oster Mfg. Co., John, Avionic Div., 1 Main St., Racine, Wis., 10
See ad on page 368
Tel: MElrose 3-6331

Ripley Co., Inc., P.O. Box 31, 1 Factory St., Middletown, Conn., 5, 10
See ad on this page
Tel: DIamond 6-6679

Rotating Components, Inc., 269 Green St., Brooklyn 22, N.Y., 10, cooling cabinets
See ad on this page
Tel: EVergreen 9-3490

Rotron Mfg. Co., Inc., N.Y., 10
Sanders Associates, Inc., N.H., 10
Small Motors, Inc., Ill., 10

Technical Apparatus Builders, 109 W. Liberty St., New York 6E, N.Y., 10
See ad on page 384
Tel: REctor 2-6248

Tepfer & Sons, Inc., S., N.Y., 5
Torrington Mfg. Co., Conn., 5, 10, 15

Western Devices, Inc., 600 W. Florence Ave., Inglewood 1, Calif., 10, Blowers —refrigerated
See ad on page 309
Tel: ORegon 8-7827

Western Gear Corp., Electro Products Div., Calif., 10

Bridges: See class 69

FANS • BLOWERS • MOTORS

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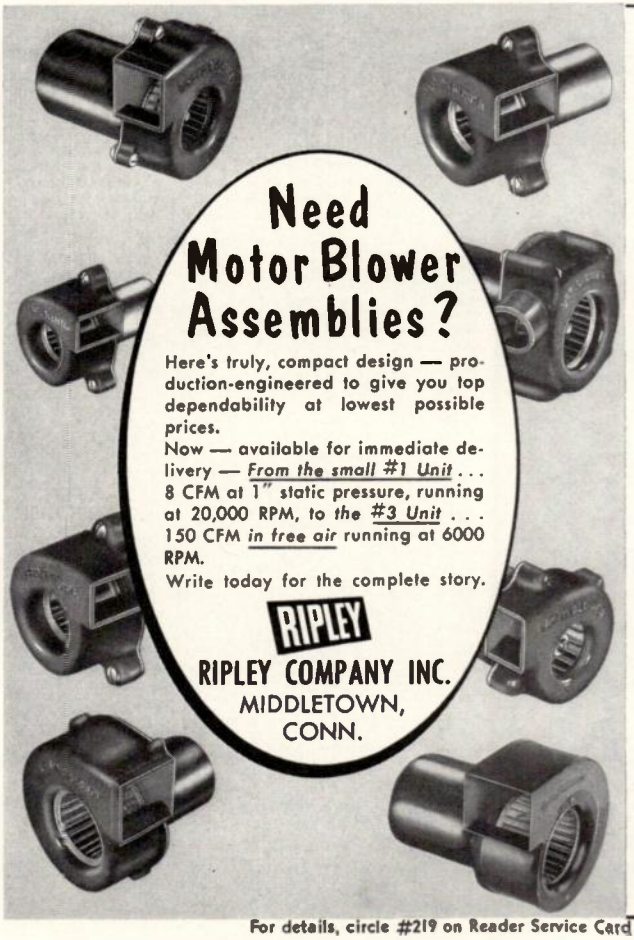
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ROTATING COMPONENTS, Inc.

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- **ELECTRONIC COUNTERS**
- **REGISTRATION CONTROLS**
- **WEB ALIGNMENT CONTROLS**

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Directory II. Components

Broadcast equipment:
See Directory I

Brushes, motor: See class 87

Bushings: See class 87

25. Cabinets, Consoles, Boxes, Enclosures & Panels.

5. Assembly enclosures
7. Boxes, metal
8. Boxes, plastic
10. Instrument & meter panels
11. Instrument & meter cases
12. Metal cabinets
15. Metal relay rack panels
20. Moulded plastic cabinets
22. Transit cases
25. Wood cabinets

A A Metal Prods., Inc., Vt., 5, 7, 12
ACF Industries Inc., Erco Div., Md., 5, 7, 10, 12, 15
AME, France, 5, 10, 15
A & P Metal Prods. Mfg. Corp., N.Y., 5, 7, 10, 11, 12, 15, 22
A R F Products, Inc., Ill., 5, 22
Abalon Precision Mfg. Corp., N.Y., 5, 7, 10, 11, 12, 15, 22
Ace Engrg. & Machine Co., Inc., Pa., 5, 12
Adler Electronics Inc., N.Y., 22
Admiral Corp., Ill., 20, 25

Ainslie Corp., 312 Quincy Ave., Quincy 69, Mass., dollies
See ad on page 243
Tel: GRanite 2-8747

Aircraft Armaments, Inc., Md., 12
Albano Co., N.Y., 22

Alden Products Co., 9140 N. Main St., Brockton 64, Mass., 5, 12, 15
See ad on page 319
Tel: BRockton 160

Alloy Metalsmiths, Inc., N.J., 5, 12, 15
Altec Lansing Corp., Calif., 5, 10, 12, 15, 25
Althor Products, N.Y., 8

Amco Engineering Co., Dept. M, 7333 W. Ainslie St., Chicago 31, Ill., 5, 7, 10, 11, 12, 15
See ad on page 294
Tel: UNderhill 7-8500

American Communications Corp., N.Y., 25
American Insulator Corp., Pa., 8, 20
American Machine & Foundry Co., Va., 5, 15, 22
Anchor Specialty Mfg. Co., Inc., N.J., 5, 10, 11, 12, 25
Argos Products Co., Ill., 11, 25, Speaker Enclosures
Armstrong Whitworth Aircraft, England, 7, 10, 11

Arrow Machinists & Fabricators, 154 E. Third St., Mount Vernon, N.Y., 5, 7, 10, 11, 12, 15, 22
See ad on page 538
Tel: OWens 9-4000

25. Cabinets, Consoles, Boxes, Enclosures & Panels.

Artisan Metal Works Co., Ohio, 5, 7, 10, 11, 12, 15
Audio-Video Corp., N.Y., 5, 7, 10, 12, 15
Avco Mfg. Co., Crosley Div., Ohio, 5, 7, 10, 12
Baker Co., Inc., The, Maine, 5, 12
Bennett Mfg. Co., N.Y., 12, 15
Bernard-Franklin Co., Inc., Pa., 12
Bernco Engrg. Corp., Ind., 5, 7, 10, 11, 12, 15
Boyle Metalcraft Corp., N.Y., 5, 12, 15, 22
Brenner Metal Prods. Corp., N.Y., 5, 12, 15, 22
Bristol Co., The, Conn., 10, 11
Brooks & Perkins, Inc., Mich., 5, 7, 11, 12, 22
Buck Engrg. Co., Inc., N.J., 5, 12, 15, 20, 22
Cambridge Pattern Works, Inc., Mass., 25
Canadian GE Co., Ltd., Canada, 10, 11, 20
Canadian Radium & Uranium Corp., N.Y., Panels
Canadian Research Instr., Canada, 5, 10
Chisholm Ind. Ltd., Canada, 7, 25
Churchill Cabinet Co., Ill., 5, 22, 25
Circle Dot Mfg. Corp., Conn., 5, 10, 15
Cleveland Metal Specialties Co., Ohio, 10
Coils Electronics Co., Pa., 7, 12
Columbia Metal Box Co., N.Y., 5, 7, 10, 11, 12, 15
Communications Equip. & Engrg. Co., Ill., 10, 15
Conn-Craft Co., Conn., 10
Connecticut Tel. & Elec. Co., Conn., 5, 10, 15
Controlled Atmosphere Enclosure Corp., N.Y., 5, 8, 20, 22, Dry Boxes & Test Hood
Corry Jamestown Mfg. Corp., Pa., 7, 10, 12, 15
Cossor (Canada) Ltd., Canada, 10

Craig Systems, Inc., 360 Merrimack St., Lawrence, Mass., 5, 7, 8, 11, 12, 22
See ad on this page
Tel: MUrdock 8-6961

Croname, Inc., Ill., 10, 11
Crystal-X Corp., Pa., 8, 20
Cutler Metal Prods. Co., N.J., 5, 7, 10, 11, 12, 15
Dahlstrom Metallic Door Co., N.Y., 5, 7, 12, 15
Daven Co., N.J., 25
Davies Molding Co., H., Ill., 8, 11, 20
Devco Engrg. Inc., N.J., 10



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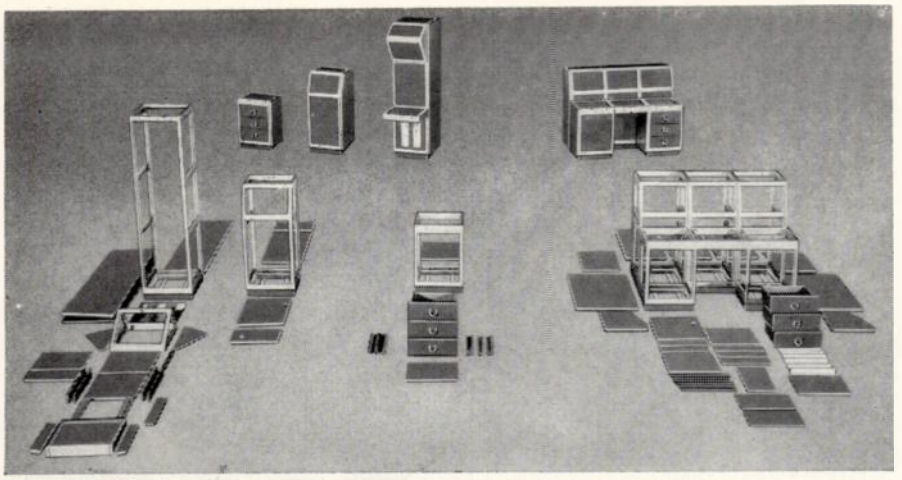
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Telephone: MUrdock 8-6961

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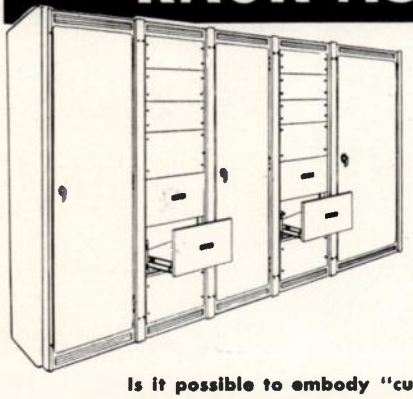
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Only PAR-METAL Universal Cabinet Racks have these adjustable features:

• Solid Sides or Open Sides. Open sides have detachable side panel arrangement. Front Doors are optional equipment. • Single units, or any arrangement of "multi-racks." • Vertical Side Supports for adjustable brackets, shelves, and sliding devices. • Heights: 48⅛" 67⅜", 76⅛", 83⅛" • Depths: 18", 24". Panel Widths: 19", 24", 30". • Finishes: Black ripple, grey ripple, primer coat only, grey hammertone enamel, medium grey enamel.

Is it possible to embody "custom-quality" in a standardized unit? *Par-Metal* answers definitely "yes" . . . Indeed, you'll be delighted how easily you can fill your needs with a distinctive Housing from our line of *completely welded* standardized units. And *you'll save money too*—not to mention the time and fuss connected with blueprints when ordering "special" equipment. So give us your problem in metal and enjoy a quick, economical solution.



Write for our 28-page Catalog, listing prices, and complete constructional information on *Par-Metal Universal Cabinet Racks*, and standard accessories which are used with these units.

PAR-METAL PRODUCTS CORP.
32-50—49 St., Long Island City 3, N.Y., AStoria 8-8905
For details, circle #222 on Reader Service Card

25. Cabinets, Consoles, Boxes, Enclosures & Panels

Dietz Co., Inc., H. G., N.Y., 10
Dolin Metal Prods., Inc., N.Y., 7, 12, 22
Donnelly Mfg. Co., Mass., 5, 7, 10, 11, 12, 15, 22
E B Metal Products Co., Inc., N.Y., 5, 10, 15
Eagle Metalcraft, Inc., N.Y., 5, 7, 10, 11, 12, 15
Eagle Signal Corp., Ill., 12
Ehrick Co., F., N.Y., Canvas Carrying Cases & Web Strap Assemblies
Electro-Chemical Engraving Co., Inc., N.Y., 10, 15
Electronic Engrg. Co. of Calif., Calif., 12
Electronic Plastics Corp., Mass., 10
Electronic Techniques, Inc., Calif., 5, 7
Elgin Metalformers Corp., Dept. 1227, 630 Congdon Ave., Elgin, Ill., 5, 12, 15
See ad on this page
Tel: SHerwood 1-3490
Elzee Metal Prods. Co., Inc., N.Y., 5, 7, 10, 11, 12, 15, 22
Engineered Sound Systems, Ltd., Canada, 10
Erie Resistor Corp., 644 W. 12th St., Erie 6, Pa., 8, 20
See ad on pages 62-63
Tel: ERie 2-1481
Etched Products Corp., N.Y., 10
Eugene Engrg. Co., Inc., Mass., 5, 10, 15, 20, 22
Excellex Electronics, Inc., N.Y., 25
Falls Metal Works, N.J., 7, 10, 11, 12
Falstrom Co., N.J., 5, 7, 10, 11, 12, 15, 22
Farwell Metal Fabricating, 73 W. Fairfield Ave., St. Paul 7, Minn., 12
See ad on page 297
Tel: CApitol 4-5318
Fischer & Porter Co., Pa., 8, 11, 20
Food Machinery & Chemical Corp., Calif., 5, 7, 12, 22
Formica Metal Products, Mass., 7, 12
Forway Industries, Inc., N.J., 5, 10
G B Electronics Corp., subsid. of General Bronze Corp., Hook Creek Blvd., Valley Stream, L.I., N.Y., 5, 11, 12
See ad on page 246
Tel: LOcust 1-1125
Gasser Metal Products, N.Y., 5, 10, 15
Gates Radio Co., Ill., 5, 10, 12, 15, 22
General Aviation & Electronic Mfg. Co., N.J., 5, 7, 10, 11, 12, 15, 22
General Bronze Corp., N.Y., 5, 11, 12
General Dynamics Corp., Stromberg-Carlson Div., N.Y., 12, 15
General Electric Co., Special Electronic Components Dept., N.Y., 25
General Electric Co., S.C., 15
Glasply Corp., N.Y., 22
Golding Mfg. Co., N.J., 5, 12, 15, 20
Goldsman, Pa., 5, 11, 22, 25
Goodmans Industries, Ltd., England, 25
Gramm Trailer Corp., Ohio, Trailers & Shelters
Guaranteed Welding Eng. Co., N.J., 5, 10, 15
Hallamore Electronics Co., Calif., 12
Halliburton, Inc., Mfg. Div., Calif., 5, 7, 11, 12, 25, Mil Spec
Hammond Mfg. Co., Ltd., Canada, 5, 40
Hamner Electronics Co., Inc., N.J., 15
Handee Household Prods., Inc., N.Y., 5, 7, 12
Hartley Products Co., N.Y., 25

Directory II. Components

25. Cabinets, Consoles, Boxes, Enclosures & Panels.

Heldor Mfg. Corp., N.J., 5, 7, 10, 11, 12, 15
Henry & Miller Industries, Inc., N.J., 5, 12, 15
Hi-Video, Inc., N.Y., 5, 12, 15, 20, 25
Honeycomb Co. of America, Conn., 22
Houston Fearless Div., Color Corp. of America, Calif., 12, 15
Hull Corp., Pa., 20
IE Manufacturing, Ill., 5, 7, 10, 11, 12, 15
Industrial Engravers, Inc., N.Y., 10
Instrument Cases, Inc., Calif., 5, 22
Insuline Corp. of America, N.H., 5, 12, 15, 22
Jamison Plastics Corp., N.Y., 8, 20
Jan Hardware Mfg. Co., Inc., N.Y., 5, 7, 12
Jodee Plastics Co., N.Y., 8, 10, 11, 20
Kane Mfg. Corp., Pa., 5, 12, 15, 22
Karlson Assoc., Inc., N.Y., 25
Keller Products, Inc., N.H., 7, 8, 10, 22
Kern & Co., Inc., L. M., N.Y., 10, 15
Kerrco Products, Neb., 10, 20
Kinn Electronics Corp., Md., 5, 7, 12
Koch & Sons, H, Calif., 8, 11, 20
Kollman Case Corp., Ind., 22, 25
Kuss Industries, Inc., Pa., 5, 7, 10, 11, 12, 15, 22
L. M. B., Calif., 10, 22
Laboratory Furniture Co., Inc., N.Y., 5, 7, 12, 25
Laminated Sheet Prods. Corp., Mass., 8, 10, 11
Landau Metal Prods. Corp., N.Y., 5, 12, 15, 22
Litton Industries, Md., 5, 7, 10, 11, 12, 15
Lowell Mfg. Co., Mo., 7
Machinery Electrification, Inc., Mass., 5, 7, 10, 11, 12
Malkin-Illion Co., 5, 7, 10, 11, 12, 15, 22
Marine View Electronics, Inc., N.Y., 12, 15
Masonite Corp., Ill., Hardboard Panels
McCurdy Radio Industries, Ltd., Canada, 15
Measurement Engrg. Ltd., Canada, 5, 7, 10, 11, 12, 15, 22
Metal Fabricators Corp., Mass., 5, 7, 12, 15
Metalab Equipment Co., N.Y., Lab. Cabinets, Metal or Wood
Metalcraft, Inc., N.Y., 5, 12, 15
Metallic Arts of N.E., Inc., Mass., 5, 7, 10, 11, 12, 15, 22
Metaplast Corp., Pa., 8, 11, 20
Metox, France, 5, 7, 12, 15
Micarta Fabricators, Inc., Ill., 10
Mid-West Metal Prods., Inc., Kansas, 5, 7, 10, 11, 12, 15, 22
Milwaukee Stamping Co., Wis., 5, 12, 22
Mobil Electronics Mfg. Co., Ind., 5, 10, 15
Molded Insulation Co., Pa., 8, 11, 20
Motson & Co., Walter, N.J., 5, 22, 25
Muckle Mfg. Co., Minn., 10, 22
Mutual Electronic Industries Corp., N.Y., 10
Newcomb Audio Products Co., Calif., 12, 15
North Electric Co., Ohio, 15
Northeast Electronics Corp., N.H., 12
Nutron Mfg. Co., Inc., N.Y., 7, 12, 15
O'Brien Electric Corp., Calif., 12, 15
Olympic Prods. Co., Inc., N.J., 5, 12, 15
P B R Mfg. Co., Pa., 5, 7, 11, 12, 22
Pacific Automation Products, Inc., Calif., 5
Par-Metal Products Corp., 32-50 49th St., Long Island City 3, N.Y., 5, 7, 11, 12, 15
See ad on page 296
Tel: AStoria 8-8905
Peters-Dalton, Inc., Mich., 22
Philco Corp., Government & Industrial Div., Pa., 25
Plasteck, Inc., Okla., 15, Edge-Lighted Panel
Powers Co., J. J., Ill., 7, 25
Premier Metal Products Co., 337 Manida St., New York 59, N.Y., 5, 7, 10, 11, 12, 15
See ad on page 298
Tel: WYandotte 1-6600
Printloid, Inc., N.Y., 8

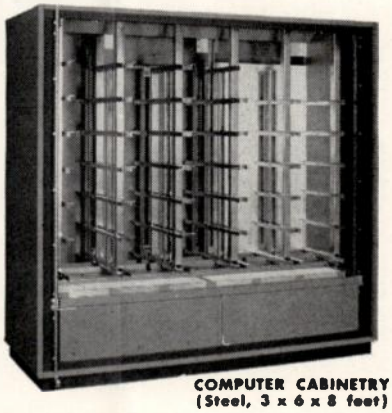


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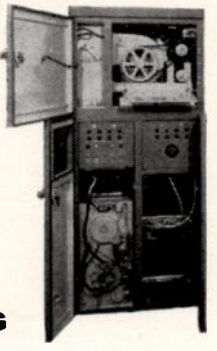
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(Steel, 3 x 6 x 8 feet)



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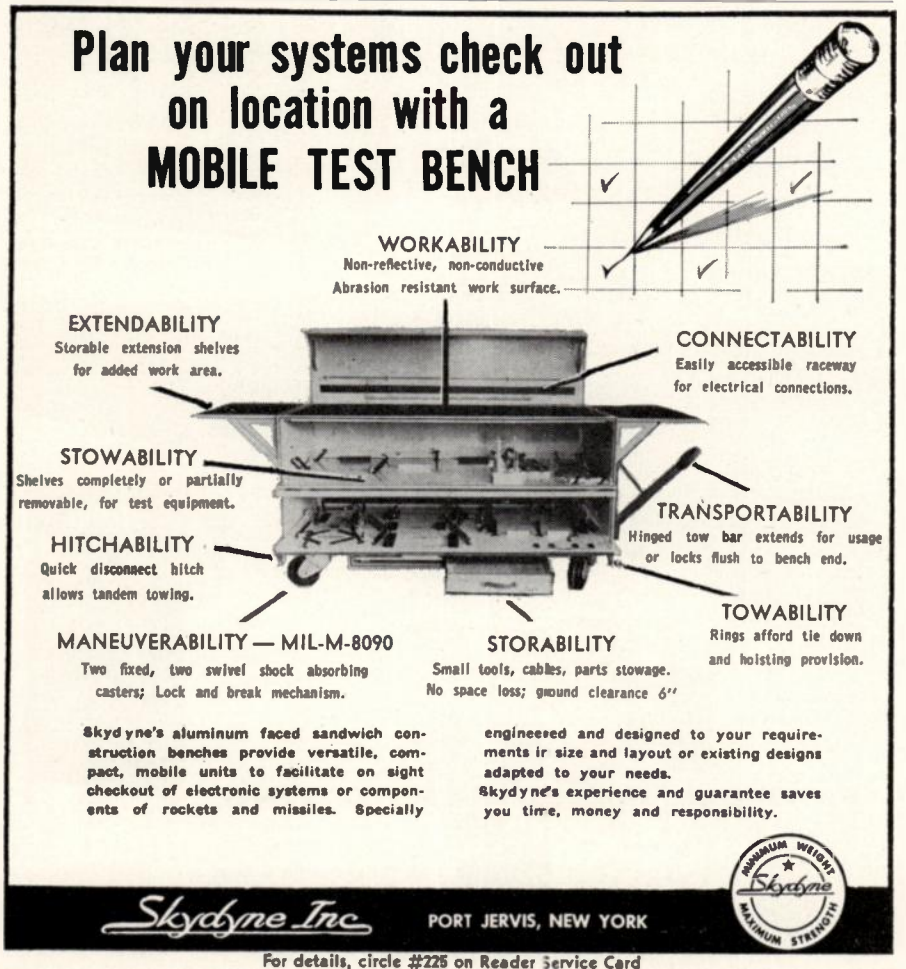
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25. Cabinets, Consoles, Boxes, Enclosures & Panels.

Pylon Electronic Development Co., Ltd., Canada, 5, 7, 10, 12, 22
Q-Line Manufacturing Corp., 5, 7, 11, 12, 15, 22
Quality Name Plate, Inc., N.J., 10, 15
REF Manufacturing Corp., N.Y., 5, 7, 8, 12, 15, 20, 22
R-J Audio Products, Inc., N.Y., 25
R.N.R. Metal Products, Inc., N.Y., 12
Radio City Products Co , Inc., Pa., 5, 10
Radionic Labs., Inc,, Ind., 5, 7, 10, 11, 12, 15
Rank Cintel Ltd., Eng., 12
Remler Co., Calif., 7, 8, 12
Riester & Thesmacher Co., The, Ohio, 10

Rogan Brothers, 8009 N. Monticello Ave., Skokie, Ill., 8
See ad on page 582
Tel: ORchard 5-1233

Rumple, Inc., Calif., 25

Saxton Products, Inc., Wire & Cable Div., 1661 Boone Ave., New York 60, N.Y., 8, 20
See ad on page 531
Tel: WYandotte 1-0120

Scientific Wood Cabinet Co., N.J., 5, 10, 11, 22, 25
Silicone Seals, Inc., Ill., 7

Skydyne, Inc., River Rd., P.O. Box 1106, Port Jervis, N.Y., 20, 22
See ads on pages 226, 298
Tel: POrt Jervis 3-2241

Solartron Electronic Group Ltd., England, 11, 12
Specialties, Inc., N.Y., 10, 11
Spinform, Inc., Mass., 12, 15, 20, 22, 25
Standard Electric Time Co., The, Mass., 10, 12
Stevens Walden, Inc., Mass., 12

Sun Dial Corp., Passaic Ave., Caldwell, N.J., 10
See ad on page 556
Tel: CApital 6-4334

Supreme Process Co., N.Y., 10, 15

Sylvania Electric Products Inc., Parts Div., 12 2nd Ave., Warren, Pa., 20
See ad on page 29
Tel: WArren 3220

TA Mfg. Corp., Calif., 7, 11, 22
Tabet Mfg. Co., Inc., Va., 7, 10, 12, 15
Taffet Radio & TV Co., N.Y., 5, 7, 10, 11, 12, 15, 22
Technical Materiel Corp., The, N.Y., 5
Technical Service Corp., Ky., Electronic Control Test Panels & Cabinets
Teiner Co., Inc., Roland, Mass., 7, 11
Telectro Industries Corp., N.Y., 5, 22
Teletronics Laboratory, Inc., N.Y., 10, 11
Tenney Engineering, Inc., N.J., Camera Housings
Tepfer & Sons, Inc., S., N.Y., 5, 10
Thal, Bernard, Mass., 8
Trump, Walter N., Kansas, 10
United States Radium Corp., N.J., 10
Valtronic Corp., The, N.Y., 5, 8, 20, 25, Formica
Van Norman Industries, Inc., Electronics Div., N.H., 5, 7, 10, 11, 12, 15
Waldom Electronics, Inc., Ill., 8, 10, 11, 20
Walter Co., Inc., S., N.Y., 10, 15

Directory II. Components

25. Cabinets, Consoles, Boxes, Enclosures & Panels

Washington Aluminum Co., Inc., Dept. 19-9, Knecht Ave. & Penna. R.R., Baltimore 29, Md., 5, 7, 8, 10, 11, 12, 15, 22
See ad on page 255
Tel: CIrcle 2-1000
Wells Co., Inc., Gary, N.Y., 15
Wells-Gardner & Co., Ill., 25
Western Devices, Inc., 600 West Florence Ave., Inglewood 1, Calif., 5, 12, 15, Consoles Cabinets-Ventilated
See ad on page 309
Tel: ORegon 8-7827
Westgate Lab., Inc., Ohio, 10, 11
White Aircraft Corp., Mass., 5, 7, 10, 11, 12, 15, 22, 25
Wilder Mfg. Co., Inc., Dept. E, Mechanic St. & Erie R.R., Port Jervis, N.Y., Trucks
See ad on page 578
Tel: POrt Jervis 3-2291
Willson Camera Co., Inc., Pa., 10
Wright, Inc., Minn., 12
Wyco Metal Products, Calif., 5, 7, 10, 11, 12, 15
Zenith Plastics Co., Sub Minn. Mining & Mfg Co., Calif., 8, 20
Zero Mfg Co., Calif., 5, 7, 11, 12, 22

Cable clips: See class 87

Cable & Wire: See class 83

Cans: See class 87

26. Capacitors: Fixed.

5. Ceramic	55. Oil filled
10. Decade	60. Paper
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35. Glass dielectric	90. Silvered mica
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50. Mica	

ACF Industries, ACF Electronics, Va., 55, 65, 80
AMP, Inc, Pa., 40, 55, 85
Aerovox Corp., N.Y., 5, 20, 40, 80
Aerovox Corp., Mass., 5, 10, 15, 17, 20, 25, 40, 45, 50, 55, 60, 65, 70, 80, 85, 90, 95
Airborne Accessories Corp., N.J., 20, 45, 65, 80, Mylar
Ajax Condenser Co., Inc., Ill., 15, 17, 40, 55, 60, 65, 80
All-Tronics, Inc., 45 Bond St., Westbury, L.I., N.Y., 85
See ad on page 345
Tel: EDgewood 3-3090
Allen Bradley Co., Wis., 5, 20
American Condenser Corp., Ill., 15, 55, 60, 65, 80

26. Capacitors: Fixed.

American Lava Corp., Subs. of Minnesota Mining & Mfg. Co., Cherokee & Mfrs. Rd., Chattanooga 5, Tenn., 5, 20, 40, 80
See ad on page 2
Tel: AM 5-3411
American Radionic Co., Inc., Conn., 5, 55, 60
Amperex Electronic Corp., 230 Duffy Ave., Hicksville, L.I., N.Y., 40, 98
See ad on pages 72-73
Tel: WElls 1-6200
Arco Electronics, Inc., 64 White St., New York 13, N.Y., 5, 10, 40, 50, 60, 65, 90
See ad on this page
Tel: WOrth 6-0530



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STANDARD CAPACITORS

- High Precision
- High Long Term Stability
- Miniaturized
- Light Weight
- Low Cost
- Versatile

The new line of ARCO Standard Capacitors is designed to provide high precision, versatile laboratory standards at moderate prices. The units are much smaller and lighter than other designs of comparable accuracy. Use of multiples and combinations does not become unwieldy. The banana plug terminals are detachable. Their removal leaves a threaded 6-32 bushing for easy attachment of terminals of another design.

The ARCO Standard Capacitor line will find wide application in use as calibration standards, breadboard components, circuit simulation devices; even precision components in stable frequency or timing networks.

Specifications:

ACCURACY OF CALIBRATION
±0.1% +0.5 mmf. of nominal printed on capacitor at 1000 cycles frequency and 24°C.

LONG TERM STABILITY
±0.05% +0.1 mmf.

INSULATION RESISTANCE
5000 megohm-microfarads or 50,000 megohms, whichever is the lesser.

TEMPERATURE COEFFICIENT
.0001 to .1 mfd.
+40 ±15ppm/°C
0.2 to 0.5 mfd.
—130 ±10 ppm/°C.

MAXIMUM VOLTAGE
.0001 to 0.04 mfd.
500 volts peak.
.05 to 0.5 mfd.
300 volts peak.

DISSIPATION FACTOR
.0001 to .0004 mfd. — 0.15%
.0005 to .001 mfd. — 0.1%
.002 to 0.5 mfd. — 0.05%

CASE SIZE
All standards have mounting base 1-9/16" long by 15/16" wide. .0001 to 0.1 mfd. is 1-5/16" high. 0.2 to 0.5 mfd. is 2-7/32" high. Height dimension excludes banana plugs.

COMPLETE SETS OF PRECISION STANDARDS



KIT #SS-32
Complete Set of 32 Precision Standards ranging from .0001 to .5 mfd.
Net Price $510.00
Including handsome, durable carrying case (Dimensions: 11⅜W x 9⅜H x 3⅝D) plus 4 POSITION ADAPTER

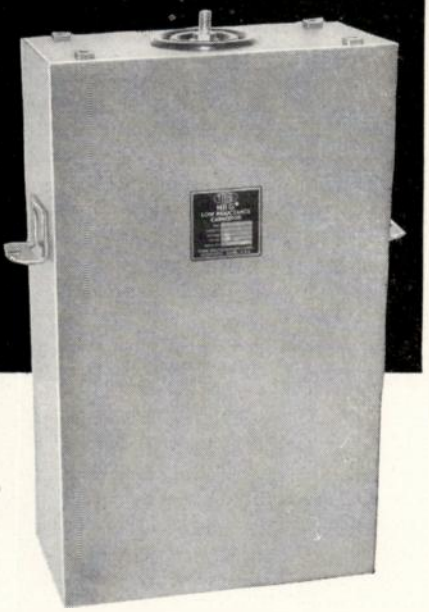
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Complete Set of 23 Precision Standards ranging from .001 to .5 mfd.
Net Price $405.00
Including handsome, durable carrying case (Dimensions: 11⅜W x 7-5/16H x 3⅝D) plus 4 POSITION ADAPTER

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NRG-200 SERIES SPECIFICATIONS				
Type No.	Watt Seconds	Rating		Self Inductance (Microhenries)
		Mfd.	DC Peak	
NRG-201	1000	5.0	20 KV	.04
NRG-202	1500	7.5	20 KV	.045
NRG-203	2000	10.0	20 KV	055
NRG-204	3000	15.0	20 KV	.06

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For further technical information or engineering aid, write Tobe Deutschmann Corporation, Norwood, Mass.

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26. Capacitors: Fixed.

Argonne Electronics Mfg. Corp., N.Y., 5, 15
Arrow Radio Co., Ont., Canada, 55, 60, 65
Associated Communications Corp., N.Y., 50
Astron Corp., 255 Grant Ave., East Newark, N.J., 5, 15, 17, 20, 25, 45, 55, 60, 65, 70, 80, 85
See ad on page 144
Tel: HUmboldt 2-7800
Axel Bros., Inc., N.Y., 17, 20, 40, 55, 60, 70, 85
Balco Research Labs., Inc., N.J., 10, 20, 25, 40, 65
Barco, Inc., Wis., 15, 90, 95
Barnes Develop. Co., Pa., 10
Bendix Aviation Corp., Ohio, Radiation Resistant
Boonton Electronics Corp., 738 Speedwell Ave., Morris Plains, N.J., 75
See ad on page 481
Tel: JEfferson 9-4210
Bradford Components, Inc., N.Y., 5
Bram Metallurgical Chem. Co., Pa., 50, 95
British Industries Corp., H. W., Sullivan Div., N.Y., 10, 50, 75, 90
British Radio Electronics Ltd., D.C., 5, 80, 90
Cal-Ros Instruments, Inc., Ill., 15
Cambridge Thermionic Corp., 440 Concord Ave., Cambridge 38, Mass., 5, 20
See ad on page 545
Tel: TRowbridge 6-2800
Canadian GE Co. Ltd., Canada, 5, 15 35, 40, 45, 50, 55, 60, 70, 85, 95
Canadian Research Inst., Canada, 10
Carad Corp., Calif., 85
Centralab, Wis., 5, 20, 40, 80
Chicago Condenser Corp., Dept. A, 3255 W. Armitage Ave., Chicago 47, Ill., 17, 20, 40, 45, 55, 60, 65, 70, 80, 85
See ad on page 374
Tel: CApitol 7-7070
Church Co., G. H., Minn., 17, 20, 40, 45, 55, 60, 65, 70
Cleveland Metal Specialties Co., Ohio, 80
Continental Electronics Mfg. Co., Texas, 65
Cornell-Dubilier Elec. Corp., 333 Hamilton Blvd., South Plainfield, N.J., 5, 10, 15, 17, 20, 25, 40, 45, 50, 55, 60, 65, 70 80, 85, 90, 95
See ad on Cover 3
Tel: PLainfield 6-9000
Corning Glass Works, Pa., 80, 85
Corson Electric Mfg. Corp., N.J., 17, 40 60, 65, 85
Cosmic Condenser Corp. & Cosmic Radio Corp., 853 Whittier St., New York 59, N.Y., 15, 60, 80
See ad on page 301
Tel: LUdlow 9-3360
Craig Corp., Mass., 40, 50, 55, 60
Crystal-X Corp., Pa., 65
Dearborn Elecnc Labs., Ill., 17, 20, 25, 40, 45, 55, 60, 65, Metallized Teflon Subminiature
Derf Radio Co., N.Y., 5, 15, 20, 25, 45, 50, 55, 60, 90
Deutschmann Corp., Tobe, Providence Highway, Norwood, Mass., 17, 20, 25
See ad on this page
Tel: NOrwood 7-2620
Diamond Electronics Corp., N.Y., 40, 65, Film Dielectric

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26. Capacitors: Fixed.

Dolinko & Wilkens, Inc., N.J., 40, 98
Double E Products Co., Calif., 20, 45, 60, 85, Teflon Dielectric-500°F
Dumont Airplane-Marine Instrument Corp., N.Y., 15, 60, 65
E M I Electronics Ltd., England, 25, 60
ESC Corp., 534 Bergen Blvd., Palisades Park, N.J., 85
See ad on page 342
Tel: WIndsor 7-0400
Eclipse Electronics Co., Canada, 55, 60, 65
Electra Mfg. Co., 4051 Broadway, Kansas City 11, Mo., 5
See ad on page 409
Tel: WEstport 1-6864
Electric Auto-Lite Co., Ohio, 15
Elec Mach. Mfg. Co., Mullenbach Div., Calif., 5
Electrical Utilities Co., Ill., 17, 20, 40, 45, 55, 60, 65, 70, 80, 85
Electro-Capacitors Co., Calif., 15, 17, Motor Starting
Electro Measurements Inc., Ore., 10, 25, 65
Electro Motive Mfg. Co., Inc., S. Park & John Sts., Willimantic, Conn., 5, 20, 40, 50, 60, 90
See ad on page 162
Tel: WIllimantic 3-4551
Electron Prods., Calif., 20, 40, 45, 55, 60, 65
Electronic Fabricators, Inc., Efcon Div., Dept. R1, 682 Broadway, New York 12, N.Y., 65
See ad on this page
Tel: SPring 7-4900
Electronic Plastics Co., Calif., Computer Plug In
Electronica Industrial Ltda, Brazil, 5, 98
Erie Resistor Corp., 644 W. 12th St., Erie 6, Pa., 5, 20, 25, 35, 40, 50, 65, 70 80, 90
See ad on pages 62-63
Tel: ERie 2-1481
FSD Laboratories, Conn., 15, 17, 95
Fansteel Metallurgical Corp., North Chicago, Ill., 15, 95
See ad on pages 138-139
Tel: DExter 6-4900
Ferranti Electric Ltd., Canada, 98
Film Capacitors Inc., N.Y., 40, 45, 65
Filtron Co., Inc., N.Y., 17, 20, 40, 45, 55, 60, 65, 85
Freed Transformer Co., Inc., 1713 Weirfield St., Brooklyn 27, N.Y., 10
See ad on page 438
Tel: EVergreen 6-1300
General Electric Co., Apparatus Sales Div., N.Y., 15, 17, 25, 40, 50, 70, 85, 95
General Electric Co., Capacitor Dept., N.Y., 15, 17, 25, 40, 50, 55, 60, 65, 70, 80, 85, 95
General Instrument Corp., Automatic Mfg. Div., N.J., 15, 25, 50, 60, 80, 85
General Radio Co., 275 Massachusetts Ave., Cambridge 39, Mass., 10, 50, 65, 75, 90
See ad on Cover 4
Tel: TRowbridge 6-4400
Girard-Hopkins, Calif., 55, 60, 70
Glenco Corp. Subsid. of Gulton Industries, N.J., 5
Good-All Electric Mfg. Co., Neb., 5, 15, 17, 20, 60, 65, 80
Gudeman Co., 340 W. Huron St., Chicago 10, Ill., 5, 15, 17, 20, 25, 40, 45, 55, 60, 65, 70, 85
See ad on page 302
Tel: DE 7-7400
Gudeman Co., Dilectron Div., Calif., 5, 40
Gulton Industries, Inc., N.J., 5, 80
Hansen Electronics Co., Calif., 80
Hilger & Watts, Ltd., N.Y., 5, 20, 50, 90
Hopkins Engineering Co., Calif., 10, 20, 25, 45, 55, 60, 65, 70
Hydrawerk Aktiengesellschaft, Germany, 15, 17, 20, 35, 40, 45, 55, 60, 65, 70, 80, 85, 95
Illinois Condenser Co., 1616 N. Throop St., Chicago 22, Ill., 5, 15, 17, 25, 40, 45, 55, 60, 65, 80
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Tel: EVerglade 4-1300

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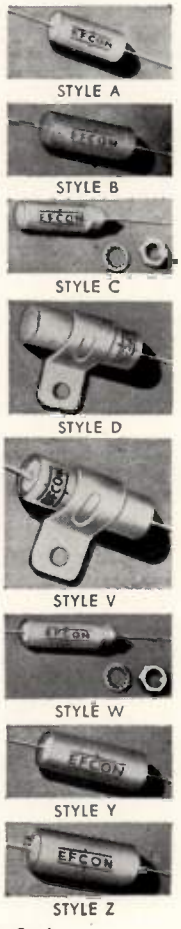
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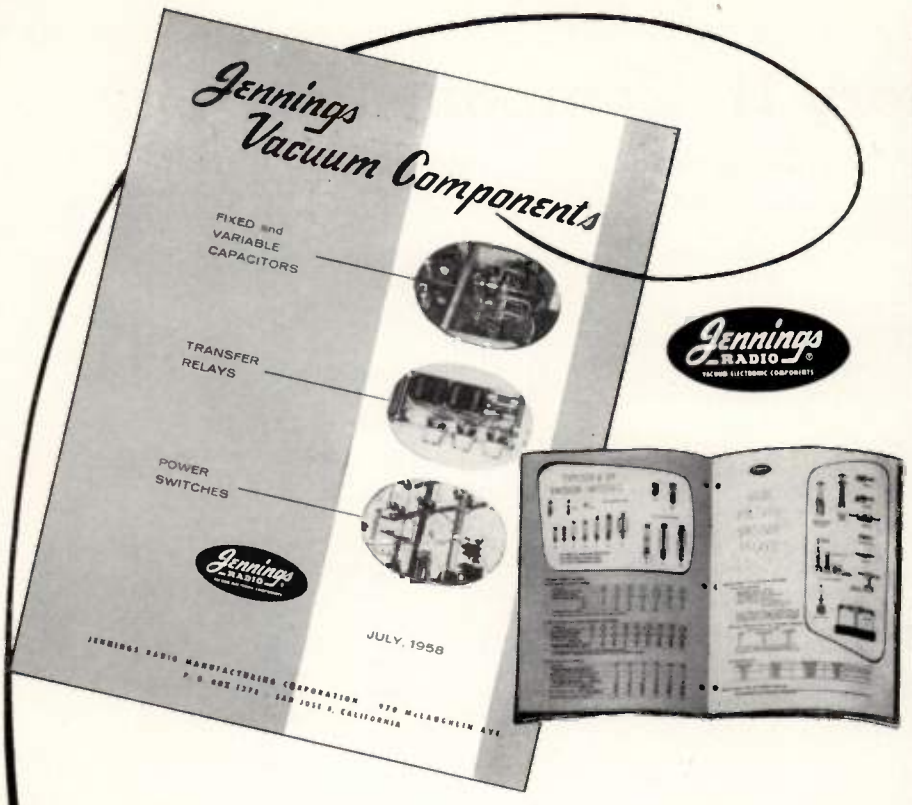
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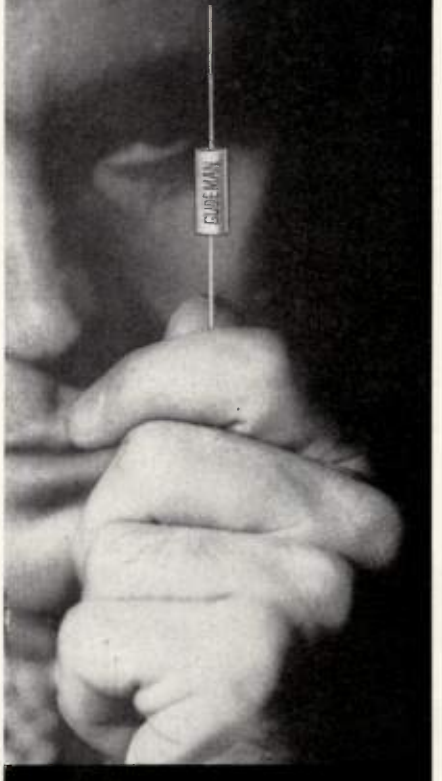
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Intelex Systems, Inc., N.Y., 15, 95
Interstate Cable-Connector Co., N.Y., 5, 15, 20, 35, 45, 50, 55, 60, 65, 95
International Electronics Ind. Inc., Tenn., 15, 95
International Telephone & Telegraph Corp., ITT Components Div., P.O. Box 412, Clifton, N.J., 95
See ad on page 182
Tel: NUtley 2-3600
Interstate Electronics, Inc., 227 Fulton St., New York 7, N.Y., distributor
See ad on this page
Tel: BEekman 3-8780
Jeffers Electronics Div., Pa., 25
Jennings Radio Mfg. Corp., 970 McLaughlin Ave., San Jose 8, Calif., 40
See ad on page 302
Tel: CYpress 2-4025
Kemet Co., Div. of U. C. C., Ohio, 95
Laboratory Equip. Corp., Mich., 40
Lapp Insulator Co., Inc., Radio Specialties Div., 150 Sumner St., Le Roy, N. Y., 30, 40
See ad on pages 84-85
Tel: LeRoy 385
Leclanche, S. A., Switzerland, 15, 55, 60, 65, 95
Leeds & Northrup Co., Pa., 10, 90
Luther Electronic Mfg. Co., Calif., 85
Magnavox Co., Ind., 15
Maida Development Co., Va., 5, 20, 40, 80
Mallory & Co., Inc., P. R., Ind., 5, 15, 17, 60, 80, 95
Mica Condensers Corp., N.Y., 50
Micamold Electronics Mfg. Corp., N.Y., 15, 17, 20, 40, 45, 50, 55, 60, 65, 80, 85, 90
Miniature Electronic Components, Tenn., 15
Minitronics Corp., N.Y., 15, 80, 95
Mitronics, Inc., N.J., 5, 20, 35, 90
Mucon Corp., 9 St. Francis St., Newark 5, N.J., 5, 80
See ad on this page
Tel: MItchell 2-1476
Muirhead & Co., Ltd., England, 10, 50, 60, 75
Muirhead Instruments Inc., N.Y., 10, 50, 60
Mullenbach Div. of Electric Mach. Mfg. Co., Calif., 5
Muter Div., Muter Co., Ill., 5, 20, 80
National Electronics Corp., Valco Div., Calif., 5
Nilsen Mfg. Co., Ill., Phase Shifting
Northern Electric Co., Ltd., Canada, 5, 50, 60
Northern Plastics Corp., Wis., 80
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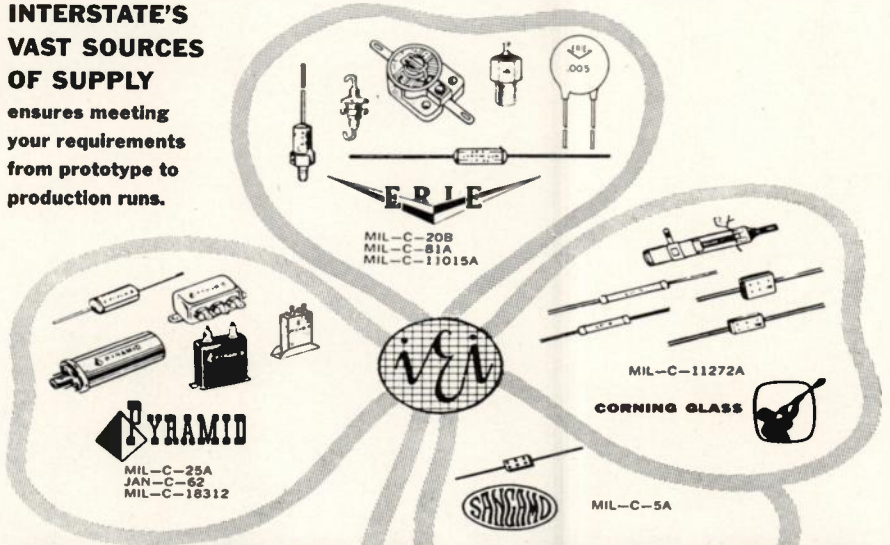
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Onondaga Pottery Co., 1858 W. Fayette St., Syracuse 1, N.Y., 5, 40, 80
See ad on page 389
Tel: HO 8-1681

Pfannkuch & Co., O. E., Conn., 60

Planet Mfg. Corp., N.J., 15, 80

Plastic Capacitors, Inc., 2620 N. Clybourn Ave., Chicago 14, Ill., 10, 17, 40, 55, 60, 65, 70, 80, 85
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Potter Co., The, Ill., 17, 20, 25, 30, 35, 40, 45, 55, 60, 65, 70, 70, 85, Metallized Mylar & Teflon

Precision Capacitors, Inc., Calif., 10, 17, 40, 55, 65, 70

Precision Paper Tube Co., 2062 W. Charleston St., Chicago 47, Ill., 60, 65, Mylar
See ad on page 552
Tel: ARmitage 6-5200

Printloid, Inc., N.Y., 65

Pyramid Electric Co., 1445 Hudson Blvd., North Bergen, N.J., 15, 25, 40, 45, 55, 60, 80, 95
See ad on page 304
Tel: UNion 5-1776

Quality Components, Inc., Pa., 25

Radiation Research, N.Y., 17, 65

Radio Components, Ltd., Canada, 5

Radio Industries, Inc., 666 Garland Pl., Des Plaines, Ill., 5, 20, 80
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Tel: (Chicago) UPtown 8-6500

Radio Materials Co., Ill., 5

Resitron Labs., Inc., Calif., 40, 98

Rogers Electronic Tubes & Components, Canada, 5, 15, 45, 50, 60, 65, 80, 90, 95, 98

Rosenthal-Isolatoren G.m.b.H., West Germany, 5, 20

San Fernando Electric Mfg. Co., Calif., 10, 20, 45, 60, 65, 80, 85

Sangamo Electric Co., Ill., 15, 17, 20, 25, 40, 45, 50, 55, 60, 70, 75, 80, 90, 95, 98

Scientific Electronic Labs., Inc., 866 Bergen St., Newark 8, N.J., 98
See ad on page 591
Tel: BIgelow 3-8675

Siemens & Halske A.G., Germany, 45, 50

Solar Mfg. Corp., Calif., 5, 20, 40, 80

Southern Electronics Corp., 150 W. Cypress Ave., Burbank, Calif., 10, 25, 40, 65
See ad on page 88
Tel: VIctoria 9-3193

Sprague Electric Co., Mass., 5, 10, 15, 17, 20, 25, 40, 45, 50, 55, 60, 65, 70, 80, 85, 90, 95

Sprague of Wisconsin, Inc., Wis., 5, 20, 80

Stackpole Carbon Co., Pa., 5, 25

Steafix, France, 50

Technical Apparatus Builders, 109 W. Liberty St., New York 6E, N.Y., 15
See ad on page 384
Tel: REctor 2-6248

Telecomputing Corp., Calif., 5

Telectro Industries Corp., N.Y., 75

Telegraph Condenser Co., Ltd., England, 5, 15, 17, 20, 40, 50, 55, 60, 65, 70, 80, 85, 90, 95

Texas Instruments Incorporated, 6000 Lemmon Ave., P.O. Box 312, Dallas 9, Tex., 15, 80, 95
See ad on page 418
Tel: FLeetwood 7-4311

Underwood Electric & Mfg. Co., Inc., Ill., 20, 90

United Electronics Co., N.J., 98

United Insulator Div., Telegraph Condenser Co., Ltd., England, 5, 10, 15, 17, 20, 40, 45, 55, 60, 65, 70, 80, 85, 90, 95

United Mineral & Chemical Corp., 16 Hudson St., New York 13, N.Y., 5
See ad on page 610
Tel: BEekman 3-8870

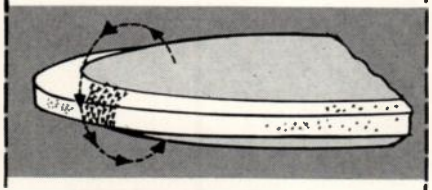
U.S. Electronics Development Corp., Ariz., 10, 15, 17, 20, 25, 40, 45, 55, 60, 65, 70, 80, 85, 95

Victory Engineering Corp., 114 Springfield Rd., Union, N.J., 95
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(Continued on page 307)

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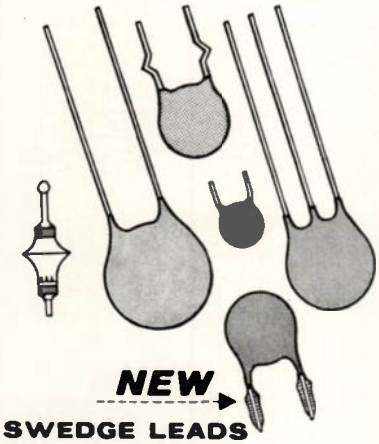
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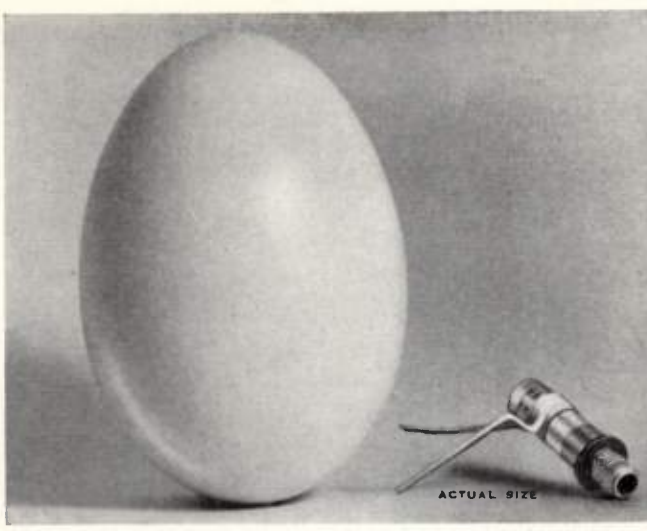
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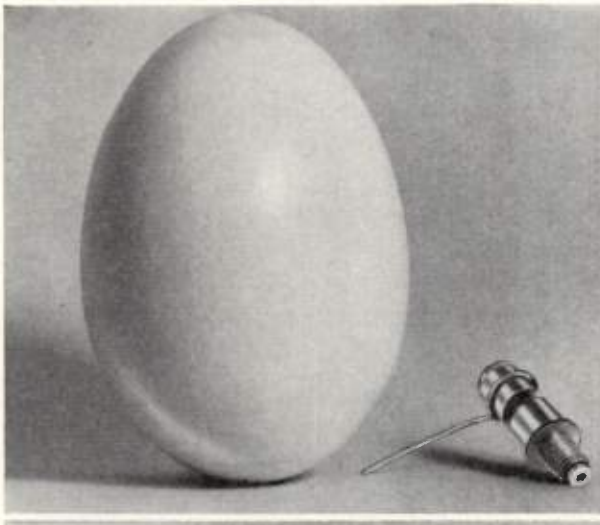


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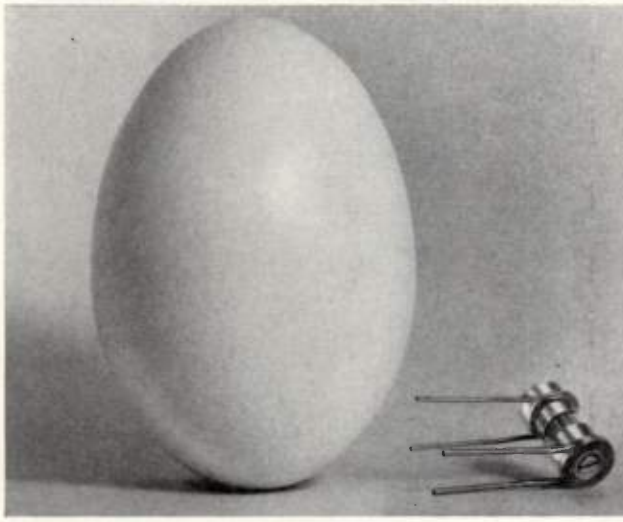
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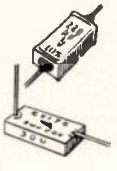
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Offers feed-through and stand-off geometry, retaining traditional excellent electrical properties typical of "Vitramon" Capacitors. Provides terminal usable as stud, eyelet, or connecting wire

- Compatible with MIL-C-10950B requirements
- Very low inductance
- Flexible leads
- Maximum height from mounting surface 1/4" for 1000 mmf. unit

Standard Axial Series and Axial Radial Series



These two rugged, standard capacitor series have capacities from 0.5 mmf. to 6800 mmf. Standard tolerance is ±5% of nominal, with a minimum of ±0.25 mmf. Closer tolerances also available.

Vitramon®
Incorporated
BOX 544 • BRIDGEPORT 1, CONN.
For details, circle #238 on Reader Service Card

Directory II. Components

26. Capacitors: Fixed.

Vitramon, Inc., P.O. Box 544, Bridgeport 1, Conn., 20, 35, 80
See ad on this page
Tel: AMherst 8-1656

Volkert Stampings, Inc., N.Y., 50
Welwyn International, Inc., Ohio, 5
Westlake Plastics Co., Pa., 6, N.J., 65
Willson Camera Co., Inc., Pa., 65

27. Capacitors: Variable.

5. Neutralizing
10. Precision variable
15. Temperature compensating
20. Trimmers, air
25. Trimmers, ceramic
30. Trimmers, glass
35. Trimmers, vacuum
40. Tuning

AME, France, 5
Aerovox Corp., Mass., 25
Aetna Electronics Corp., N.Y., 40
All Star Products, Ohio, 20, 40
American Lava Corp., Subs. of Minnesota Mining & Mfg. Co., Cherokee & Mfrs. Rd., Chattanooga 5, Tenn., 15
See ad on page 2
Tel: AM 5-3411
Ardente Acoustic Labs., England, 40
Argonne Electronics Mfg. Corp., N.Y., N.Y., 10, 40
Atlas E-E Corp., Mass., 30
Balco Research Labs., Inc., N.J., 10, Metalized Plastics
Barker & Williamson, Inc., Pa., 5, 40
British Industries Corp., H. W. Sullivan Div., N.Y., 10
British Radio Electronics, Ltd., D.C., 15, 20
Cambridge Thermionic Corp., 440 Concord Ave., Cambridge 38, Mass., 25, 30
See ad on page 545
Tel: TRowbridge 6-2800
Canadian GE Co., Canada, 5, 15, 40
Canadian Research Inst., Canada, 10
Cardwell Condenser Corp., Conn., 5, 10, 15, 20
Centralab, Wis., 15, 25
Corning Glass Works, Pa., 30
Derf Radio Co., N.Y., 20, 25, 40
Electro Measurements, Inc., Ore., 10
Electro Motive Mfg. Co., Inc., S. Park & John Sts., Willimantic, Conn., 25, Mica
See ad on page 162
Tel: WIllimantic 3-4551
Erie Resistor Corp., 644 W. 12th St., Erie 6, Pa., 25, 40
See ad on pages 62-63
Tel: ERie 2-1481
General Instrument Corp., Automatic Mfg. Div., N.J., 10, 20, 40
General Radio Co., 275 Massachusetts Ave., Cambridge 39, Mass., 10
See ad on Cover 4
Tel: TRowbridge 6-4400
Gombos Co., Inc., John, N.J., 10
Hammarlund Mfg. Co., Inc., N.Y., 5, 10, 20, 40
Hughes Products, Semiconductor Div., International Airport Station, Los Angeles 45, Calif., 40, Silicone Voltage Variable
See ad on pages 53-56
Tel: ORchard 2-5061

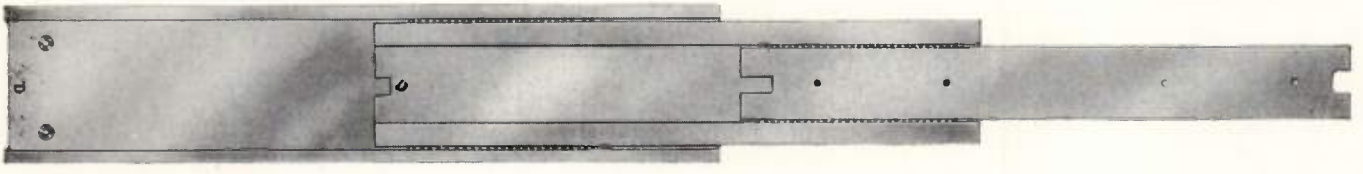
27. Capacitors: Variable.

Illinois Tool Works, Fastex Div., Ill., 25
Interstate Cable-Connector Co., N.Y., 10, 20, 30
JFD Electronics Corp., 1462 62nd St., Brooklyn 19, N.Y., 5, 10, 15, 25, 30, 40
See ad on page 306
Tel: DEwey 1-1000
Jennings Radio Mfg. Corp., 970 McLaughlin Ave., San Jose 8, Calif., 5, 35, 40
See ad on page 302
Tel: CYpress 2-4025
Johnson Co., E. F., Minn., 5, 20, 40
Johnson Mfg. Corp., N.J., 10, 40
Lapp Insulator Co., Inc., 150 Sumner St., Le Roy, N.Y., 40
See ad on pages 84-85
Tel: LE Roy 385
Leeds & Northrup Co., Pa., 10
Maida Development Co., Va., 25
Marsland Engrg., Ltd., Canada, 20, 30, 40
McCoy Electronics Co., Chestnut and Watts Sts., Mt. Holly Springs, Pa., 10
See ad on page 337
Tel: HUnter 6-3411
Millen Mfg. Co., Inc., James, 150 Exchange St., Malden 48, Mass., 5, 10, 20, 40
See ad on page 314
Tel: DA 4-4108
Mitronics, Inc., N.J., 25, 30
Muirhead & Co., Ltd., England, 10
Muirhead Instruments, Inc., N.Y., 10
Mullard Overseas, Ltd., England, 10, 20
Muter Div., The Muter Co., Ill., 15, 25
National Co., Inc., Mass., 5, 10
Pacific Semiconductors, Inc., Calif., Voltage Variable
Plastic Capacitors, Inc., 2620 N. Clybourn Ave., Chicago 14, Ill., 10, 40
See ad on page 305
Tel: DIversey 8-3735
Q-Line Manufacturing Corp., N.Y., 10, 30
Radio Condenser Co., N.J., 10, 20, 40
Radio Industries, Inc., 666 Garland Pl., Des Plaines, Ill., 15
See ads on pages 305, 393, 442
Tel: (Chicago) UPtown 8-6500
Resitron Labs., Inc., Calif., 35
Rogers Electronic Tubes & Components, Canada, 5, 10, 20, 25
Sickles Div., F. W., General Instrument Corp., Mass., 20
Solar Mfg. Corp., Calif., 15, 25
Sprague of Wisconsin, Inc., Wis., 25
Superex Electronics Corp., N.Y., 40
Taffet Radio & TV Co., N.Y., 40
Tarzian, Inc., Sarkes, Ind., 20
Telectro Industries Corp., N.Y., 10
Telegraph Condenser Co., Ltd., England, 25
Teleradio Engineering Corp., N.Y., 5, 10, 20
Underwood Electric & Mfg. Co., Inc., Ill., 20

(Continued on page 309)



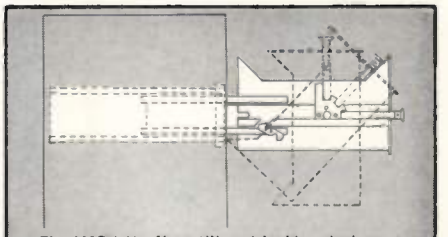
GRANT'S MARK II THINSLIDE



Yes, you asked for it. Design engineers throughout the nation asked for it . . . a continuous ball bearing action slide to fit standard cabinets, without cabinet modification!

THE MARK II THINSLIDE. Of extruded aluminum, only ½" in overall width . . . whose inner and intermediate members pass smoothly through the space between sliding unit and standard rack. With stainless steel balls, accurately fitted to members, the Mark II is quietly, quickly extended fully from rack . . . exposing all parts immediately and with almost no effort!

WRITE NOW FOR COMPLETE DATA ON THE MARK II THINSLIDE . . . the slide that you've been waiting for!



The MARK II offers tilt and locking devices as well . . . your unit can be pivoted to plus 45 and 90 degree positions for greatest accessibility. And you'll be amazed at the moderate cost of the Mark II . . . how quickly it will pay for itself by allowing your equipment to be serviced and maintained in jig-time instead of down-time!

IF THE QUESTION IS ACCESSIBILITY . . . THE ANSWER IS GRANT.

GRANT

PULLEY & HARDWARE CORPORATION

43 High Street, West Nyack, New York • 944 Long Beach Avenue, Los Angeles 21, California

For details, circle #239 on Reader Service Card

Directory II. Components

27. Capacitors: Variable.

United Insulator Div., Telegraph Condenser Co., Ltd., England, 15, 25, 40
U.S. Electronics Development Corp., Ariz., 10
Vacap Corp., N.J., 35
Wells Co., Inc., Gary, N.Y., 40

Caps, vacuum tube: See class 97

Cathode ray tubes: See class 61

28. Chassis, Racks & Slides.

5. Aluminum chassis
10. Chassis slides
15. Relay racks & cabinets
20. Steel chassis

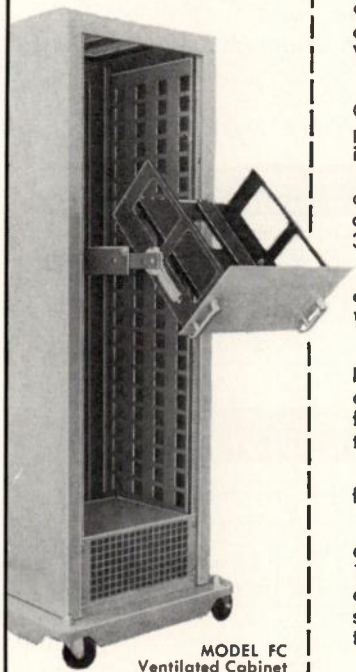
A A Metal Products, Inc., Vt., 5, 20
ACF Industries, Inc., Erco Div., Md., 5, 10, 15, 20
AME, France, 15
A & P Metal Prods. Mfg. Corp., N.Y., 5, 10, 15, 20
Abalon Precision Mfg. Corp., N.Y., 5, 10, 15, 20
Accessory Controls & Equip. Corp., Conn., 5, 10, 15, 20
Aeronca Research Div., Md., 5, 20
Aircraft Armaments, Inc., Md., 15
Alden Electronic & Impulse Recording Equipment Co., Alden Research Center, P.O. Box 125, Westboro 6, Mass., 10, 20
See ad on page 258
Tel: FOrest 6-4467
Alden Products Co., 9140 N. Main St., Brockton 64, Mass., 5, 10, 15, 20
See ad on page 319
Tel: BRockton 160
Alloy Metalsmiths, Inc., N.J., 5, 15, 20
Altec Lansing Corp., Calif., 15
Amco Engineering Co., Dept. M, 7333 W. Ainslie St., Chicago 31, Ill., 5, 10, 15, 20
See ad on page 294
Tel: UNderhill 7-8500
American Machine & Foundry Co., Va., 15
Anchor Specialty Mfg. Co., Inc., N.J. 15
Armstrong Whitworth Aircraft, England, 5
Arrow Machinists & Fabricators, 154 E. Third St., Mount Vernon, N.Y., 5, 10, 15, 20
See ad on page 538
Tel: OWens 9-4000
Artisan Metal Works Co., Ohio, 5, 15, 20
Aurora Equip. Co., Ill., 15, 20, Test Stands
Bennett Mfg. Co., N.Y., 5, 20
Bernard-Franklin Co., Inc., Pa. 20
Bernco Engrg. Corp., Ind., 5, 20
Boyle Metalcraft Corp., N.Y., 5, 10, 15, 20
Brenner Metal Prods. Corp., N.Y., 5, 15, 20
Brooks & Perkins, Inc., Mich., 15
Buck Engrg. Co., Inc., N.J., 5, 15, 20
Centronix, Inc., Fla., 10

28. Chassis, Racks, & Slides.

Chassis-Trak, Inc., 525 S. Webster Ave., Indianapolis 19, Ind., 10
See ad on page 310
Tel: FLeetwood 9-5407
Chisholm Ind., Ltd., Canada, 5, 20
Circle Dot Mfg. Corp., Conn., 5, 15
Cleveland Metal Special. Co., Ohio, 25, Racks, Slides, Printed Circuit Cards
Columbia Metal Box Co., N.Y., 5, 15, 20
Communications Equip & Engrg. Co., Ill., 15, 20
Connecticut Telephone & Elec. Co., Conn., 5, 15, 20
Continental Electronics Mfg. Co., Tex., 5
Corry Jamestown Mfg. Corp., Pa., 15, 20
Cossor (Canada), Ltd., Canada, 5, 15, 20
Craig Systems, Inc., 360 Merrimack St., Lawrence, Mass., 15
See ad on page 295
Tel: MUrdock 8-6961
Cutler Metal Prods. Co., N.J., 5, 15, 20
Dahlstrom Metallic Door Co., N.Y., 5, 15, 20
Dolin Metal Prods., Inc., N.Y., 20
E B Metal Prods. Co., Inc., N.Y., 5, 10, 15, 20
Eagle Metalcraft, Inc., N.Y., 5, 15, 20
Elgin Metalformers Corp., Dept. 1227, 630 Congdon Ave., Elgin, Ill., 15
See ad on page 296
Tel: SHerwood 1-3490
Elzee Metal Prods. Co., Inc., N.Y., 5, 15, 20
Eugene Engrg. Co., Inc., Mass., 5, 10, 15
Falstrom Company, N.J., 5, 15, 20
Federal Shock Mount Corp., N.Y., 5, 10, 15, 20
Forway Industries, Inc., N.J., 5, 20
Gasser Metal Products, N.Y., 5, 10, 15, 20
General Aviation & Electronic Mfg. Co., N.J., 5, 15, 20
Golding Mfg. Co., N.J., 5, 15, 20
Grant Pulley & Hardware Corp., 43 High St., West Nyack, N.Y., 10
See ad on page 308
Tel: NYack 7-4400
Guaranteed Welding Eng. Co., N.J., 5, 15, 20
Hammond Mfg. Co., Ltd., Canada, 5, 15, 20
Hamner Electronics Co., Inc., N.J., 20
Handee Household Prods., Inc., N.Y., 20
Heldor Mfg. Corp., N.J., 5, 15, 20
Helipot Corp., Calif., Breadboard Parts
Henry & Miller Industries, Inc., N.J., 5, 15, 20
Hi-Video, Inc., N.Y., 5, 10, 15, 20
Houston Fearless Div., Color Corp. of America, Calif., 5, 15, 20
Independent Metal Fabricators, Inc., N.Y., 5, 15, 20

ONE SOURCE

MIL SPEC QUALITY



MODEL FC
Ventilated Cabinet on dolly with casters...shows air flow control panel, panel-mounted blower, modular universal chassis mounted on 'Chassis-Trak' with manual 'Detent' tilt control, plain handles.

VENTILATED RELAY RACK CABINETS
• Modular construction • Fully controlled built-in cross-ventilation system • 19", 24", 30" panels • Vertical panel space as needed.

MODULAR CONSOLES
Customer may specify: Shape to fit 'U' or 'L' floor plan; Panel angle 15°, 30°, 45°, 60°; Panel spaces in multiples of 1¾".
Specify also, for cabinets or consoles: 12-gauge or heavy duty 3/16" steel frame; Channel base, casters or dolly with casters; Depths: 18", 24", 28", 30", 36"; any MIL or commercial finish.

PANEL MOUNTING BLOWERS
• Cooling capacity—600-1200 CFM output • ¼ or ⅓ HP • Compact—mount as standard 8¾" panels.

UNIVERSAL CHASSIS—two types: Full Chassis Plate or Modular Multiple Sub Chassis • Steel or aluminum .062 side frames; ⅛" or 3/16" aluminum front panels • All parts drilled for assembly • Customer may specify all dimensions, materials.

HANDLES: blank, push-button panel lock, trigger for tilt lock, positive screw-down clamp type.

'CHASSIS-TRAK'*—offers ready access to entire chassis • Extra strong • Ultra thin—mount 17" chassis in 17¾" opening • Finger touch releases chassis for removal • 10"—24" long—double extension • MIL Spec finish • Roller and high capacity types available.

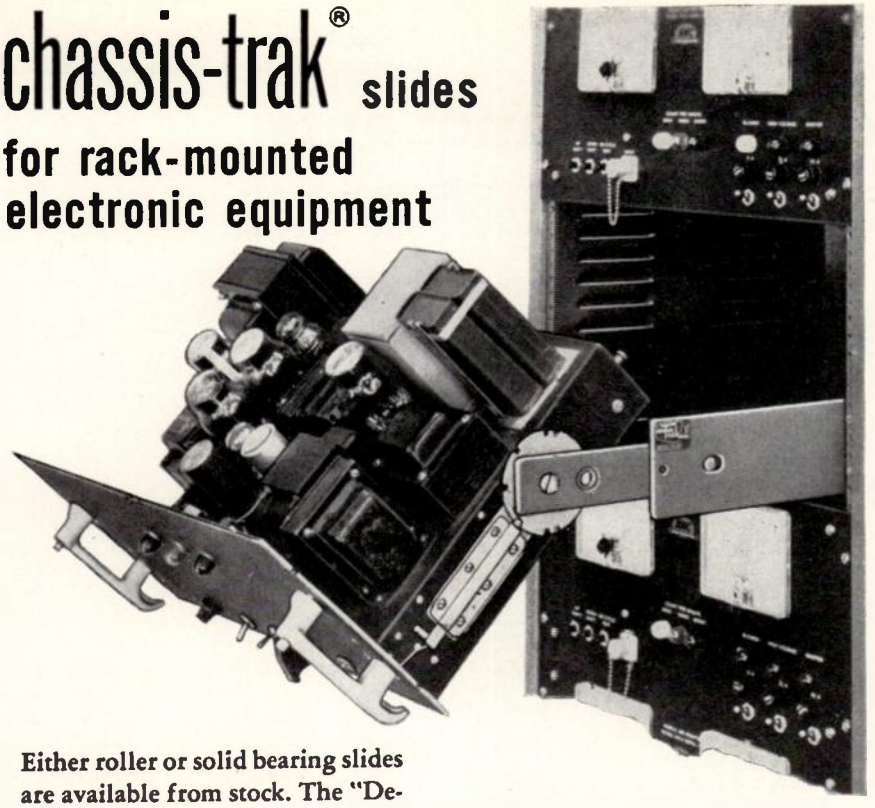
*Stocking Distributor, Engineering Services for 11 Western States ORegon 8-7827

WESTERN DEVICES, INC.
600 W. FLORENCE AVE., INGLEWOOD, CALIF.
*For Inquiries on 'Chassis-Trak', East of Rockies: Chassis-Trak Corp., 525 S. Webster Ave., Indianapolis

For details, circle #240 on Reader Service Card

chassis-trak® slides

for rack-mounted electronic equipment



Either roller or solid bearing slides are available from stock. The "Detent" model locks in 7 tilt positions. The "Basic" model tilts with no lock assembly. The "EZ Mount" model tilts from mounting on front cabinet rail. These models are available in either lightweight or heavy-duty styles.

Chassis-Trak slides, formed from cold rolled-steel, give complete accessibility and faster servicing . . . and the ultra-thin design means you can cut engineering costs by mounting 17" chassis in 19" standard stock racks. Plus, a wide bearing area design increases rigidity and reduces the possibility of binding due to misalignment.

In addition to the standard slides in stock, Chassis-Trak engineers will custom-build slides for special installations. All slides meet specifications for government or military projects and RETMA standards.

Select the right slide for your application

ROLLER BEARING SLIDES	MODEL	SLIDE LENGTH									LBS. MAX. LOAD
		10	11	12	14	16	18	20	22	24	
Basic	CTRB	X	X	X	X	X	X	X	X	X	175
Detent	CTRD			X	X	X	X	X	X	X	175
Cradle Track	CTEZ				X	X	X	X	X	X	125
Heavy Duty Basic	CTHRB				X	X	X	X	X	X	275
Heavy Duty Detent	CTHRD				X	X	X	X	X	X	275

SOLID BEARING SLIDES	MODEL	SLIDE LENGTH									LBS. MAX. LOAD
		10	11	12	14	16	18	20	22	24	
Basic	CTB	X	X	X	X	X	X	X	X	X	175
Detent	CTD			X	X	X	X	X	X	X	175
Light Weight	CTL				X	X	X	X	X	X	100
Heavy Duty Basic	CTHB				X	X	X	X	X	X	250
Heavy Duty Detent	CTHD				X	X	X	X	X	X	250

chassis Trak inc.

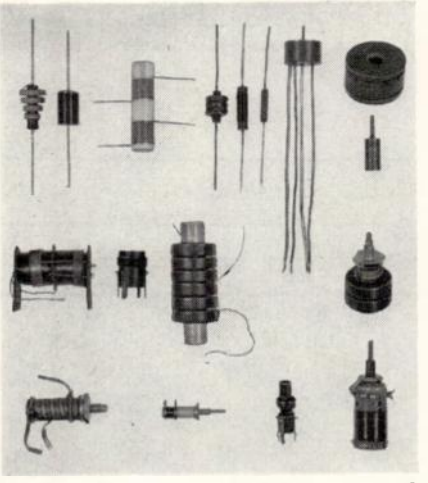
For additional engineering information, accessories hardware catalog, and prices, write:

525 South Webster, Indianapolis 19, Indiana

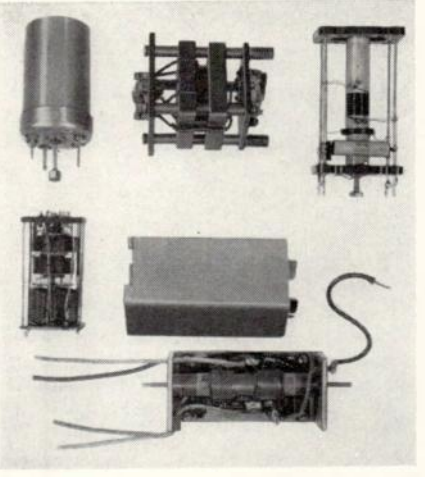
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COILS

MANUFACTURED TO MEET AND EXCEED MIL/JAN SPECS



ENCAPSULATED COILS • RF and IF TRANSFORMERS • RF CHOKES • OSCILLATOR COILS • PRINTED CIRCUIT COILS • ANTENNA COILS



AUTOMATIC COIL COMPANY specializes in the custom manufacture of coils and electronic assemblies of any design to meet government or commercial requirements.

SEND YOUR SPECIFICATIONS OR SAMPLES FOR PROMPT, COMPETITIVE QUOTATIONS

AUTOMATIC COIL COMPANY INC.

Dept. R

415 Bedford Ave., Brooklyn, N. Y.

STagg 2-3333

For details, circle #242 on Reader Service Card

Directory II. Components

28. Chassis, Racks, & Slides.

Insuline Corp. of America, N.H., 5, 10, 15, 20
Jonathan Mfg. Co., Calif., 10
Kern & Co., Inc., L. M., N.Y., 5, 15
Kuss Industries, Inc., Pa., 5, 10, 15, 20
Landau Metal Prods. Corp., N.Y., 5, 15, 20
Lenkurt Electric Co., Inc., Calif., 15
Litton Industries, Md., Md., 15
Machinery Electrification, Inc., Mass., 5, 20
Malkin-Illion Co., N.J., 5, 15, 20
Marine View Electronics, Inc., N.Y., 5, 15, 20
McCurdy Radio Industries, Ltd., Canada, 15
Measurement Engrg., Ltd., Canada, 5, 15, 20
Metal Fabrications Corp., Mass., 5, 15, 20
Metallic Arts of N. E., Inc., Mass., 5, 10, 15, 20
Metalcraft, Inc., N.Y., 5, 10, 15, 20
Metox, France, 5, 15
Mid-West Metal Prods., Inc., Kan., 5, 10, 15, 20
Milwaukee Stamping Co., Wis., 20
Newcomb Audio Products Co., Calif., 15
North Electric Co., Ohio, 15
Northern Electric Co., Ltd., Canada, 5, 15, 20
Nutron Mfg. Co., Inc., N.Y., 5, 10, 20
O'Brien Electric Corp., Calif., 15
Olympic Prods. Co., Inc., N.J., 5, 10, 15, 20
P B R Mfg. Co., Pa., 15

Par-Metal Products Corp., 32-50 49th St., Long Island City 3, N.Y., 5, 10, 15, 20
See ad on page 296
Tel: AStoria 8-8905

Pomona Electronics Co., Inc., Calif., Breadboard

Premier Metal Products Co., 337 Manida St., New York 59, N.Y., 5, 11, 20
See ad on page 298
Tel: WYandotte 1-6600

Pylon Electronic Development Co., Ltd., Canada, 20
Q-Line Manufacturing Corp., N.Y., 5, 15, 20
Quality Name Plate, Inc., N.J., 5, 10, 20
REF Manufacturing Corp., N.Y., 5, 15
R.N.R. Metal Products, Inc., N.Y., 5, 20
Radio Engineering Prods., Canada, 15

Radio Frequency Labs., Inc., Powerville Rd., Boonton, N.J., 10
See ad on page 512
Tel: DEerfield 4-3100

Radionic Labs., Inc., Ind., 5, 15, 20
Remler Co., Calif., 10
Riester & Thesmacher Co., The, Ohio, 5, 20

Specific Products, 21051 Costanso St., P.O. Box 425, Woodland Hills, Calif., Breadboard
See ad on page 256
Tel: DI 0-3131

Standard Pressed Steel Co., Pa., Shelving.
Taffet Radio & TV Co., N.Y., 5, 15, 20
Teiner Co., Inc., Roland, Mass., 5
Topatron, Inc., Calif., 15
Unistrut Products Co., Ill., Tracks
Van Norman Industries, Electronics Div., N.H., 5, 15, 20
Walter Co., Inc., S., N. Y., 5, 15, 20

Washington Aluminum Co., Inc., Dept. 19-9, Knecht Ave. & Penna. R.R., Baltimore 29, Md., 5, 15, 20
See ad on page 255
Tel: CIrcle 2-1000

Western Devices, Inc., 600 West Florence Ave., Inglewood 1, Calif., 5, 10, 15, 20, Chassis-Modular
See ad on page 309
Tel: ORegon 8-7827

Wyco Metal Products, Calif., 5, 15, 20

Clamps, tube: See class 97

Clips, cable: See class 87

Clips, test: See class 87

Coaxial cables: See class 83

Coil dope: See class 91

Coil forms, ceramic: See classes 84 and 87

Coil forms, paper & plastic: See class 87

Coil winding machines: See class 92

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29. Coils.

5. Audio frequency chokes	**28. Magnet**
10. Deflection yokes	**30. Power chokes**
15. Filter	**35. RF chokes**
20. Flyback	**36. Relay**
25. Focusing coils	**38. Solenoid**
26. IF chokes	**40. Toroids**
	45. Tuning

ACF Industries, Inc., N.J., 40
AME, France, 15, 26, 35
AMP, Inc., Pa. 15, 30
A.P.W. Co., N.J., 15, 25, 38, 40
Ace Coil & Electronics Co., N.J., 26, 28, 35, 36

Acromag, Inc., Dept. C, 22519 Telegraph Rd., Detroit 41, Mich., 40
See ad on page 276
Tel: ELgin 6-7211

Advanced Electronics, Inc., Conn., 36, 38
Aerocoil, Inc., N.J., 5, 15, 26, 28, 35, 40

29. Coils.

Aerovox Corp., Mass., 5, 15, 40
Aetna Electronics Corp., N.Y., 35, 45
Airdesign Corp., Pa., 5, 15, 28, 30, 38

Airpax Products Co., Middle River, Baltimore 20, Md., 5, 20
See ad on pages 106-107
Tel: MU 6-9100

Airpax Products Co., P.O. Box 8488, Ft. Lauderdale, Fla., 5, 15
See ad on pages 106-107
Tel: LU 3-6160

Aladdin Electronics, Tenn., 26, Ferrite Cord Inductors

Alden Products Co., 9140 N. Main St., Brockton 64, Mass., 40
See ad on page 319
Tel: BRockton 160

Alert Products, Inc., N.J., 15, 40, 45

Allied Control Co., Inc., 2 East End Ave., New York 21, N.Y., 28, 36, 38
See ad on pages 48-49
Tel: BUtterfield 8-7403

All-Tronics, Inc., 45 Bond St., Westbury, L.I., N.Y., 10, 15, 25, 26, 35, 38, 45
See ad on page 345
Tel: EDgewood 3-3090

American Measurement, Mass., 28, 36, 38, 40
American Molded Products, Co., Ill., Coil Forms
American Research & Mfg. Corp., Md., 10, 26, 30, 35, 38, 40
Arco Transformer & Elec. Corp., Ind., 5, 15, 28, 30, 36, 38, 45
Ardente Acoustic Labs., Ltd., England, 5
Arnold Magnetics Corp., Calif., 5, 15, 25, 26, 28, 30, 35, 36, 38, 40, 45
Artisan Electronics Corp., N.J., 28, 36, 38
Atlantic Transformer Corp., Conn., 5, 15, 30, 40
Audio Develop. Co., Minn., 15, 26, 40

Automatic Coil Co., Inc., Dept. R, 415 Bedford Ave., Brooklyn 11, N.Y., 15, 20, 26, 28, 35, 38, 45
See ad on page 310
Tel: STagg 2-3333

Automatic Elec. Sales Corp., N. Y., 36, 38
Automation Electronics, Inc., Calif., 26, 35, 40, 45
Autonetics, Calif., Special Purpose
Badger Electronics Corp., Wis., 5, 30, 40
Barker & Williamson, Inc., Pa., 5, 15, 26, 35, 38, 40, 45
Barwood Electronics, Inc., Calif., 5, 30
Basler Electric Co., Ill., 28, 30, 36, 38, 40
Bassett, Inc., R., Fla., 15, 45
Bayly Engrg., Ltd., Canada, 5, 15, 30, 40
Bellaire Electronics, Inc., N.J., 35, 45
Belling & Lee, Ltd., England, 15
Berkshire Transformer Corp., Conn., 15, 30, 36
Better Coil & Transformer Corp., Ind., 5, 15, 30
Borden Engrg. Co., Johnson Aircraft Engrg. Co., N.J., 28, 38
Bradford Components, Inc., N.Y., 26, 35

Brys Instrument Co., N.Y., 40

Burnell & Co., Inc., Dept. P-2, 10 Pelham Parkway, Pelham, N.Y., 5, 15, 40, Variable
See ad on pages 74-75
Tel: PElham 8-5000

CG Electronics Corp., N.M., 40

CGS Labs., Inc., Conn., 40

CM Mfg. & Machinery Co., N.J., Tungsten

Caddell-Burns Mfg. Co., Inc., N.Y., 26, 35, 38, 45

Calbest Electronics Co., Calif., 15, 26, 30, 35, 36, 38, 45

Caledonia Electronics & Transformer Corp., Dept. ID, P.O. Box 98, Caledonia, N.Y., 5, 15, 30, 40
See ad on page 436
Tel: KE 8-4423

Cambridge Thermionic Corp., 440 Concord Ave., Cambridge 38, Mass., 26, 35, 45
See ad on page 545
Tel: TRowbridge 6-2800

Camden Electronics, Inc., N.J., 26, 28, 35, 45

Canadian GE Co., Ltd., Canada, 45

Carad Corp., Calif., 5, 15, 20, 26, 30, 35, 36, 38, 40, 45

Celco-Constantine Eng. Labs. Co., 70 Island Ave., Mahwah, N.J., 5, 10, 15, 20, 25, 26, 28, 30, 35, 36, 38, 40
See ads on pages 66-67, 128-129
Tel: DAvis 7-1123

Central Transformer Co., Ill., 5, 15, 30

Chicago Electronic Engrg. Co., Ill., 40

Chicago Magnetic Control, 1616 North Damen Ave., Chicago 47, Ill., 15, 30
See ad on page 437
Tel: ARmitage 6-7400

Chicago Standard Transformer Corp., 3514 W. Addison St., Chicago 18, Ill., 5, 10, 15, 20, 25, 30, 40
See ad on page 437
Tel: INdependence 3-7400

Chicago Telephone of Calif., Calif., 36, 38

Cico Corp., Calif., 38

Cinema Engrg. Div., Calif., 40

Cleveland Electronics, Inc., Ohio, Vidicon, 10, 25

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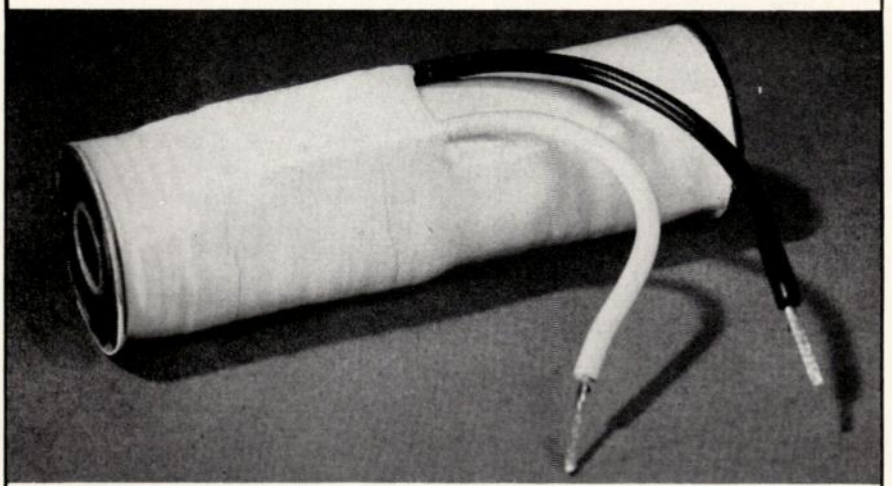
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Coils Electronics Co., Pa., 26, 35, 38, 45

Comar Electric Co., 3349 Addison St., Chicago 18, Ill., 28, 36, 38
See ad on page 148
Tel: JUniper 8-2410

Communication Accessories Co., Highway 50 & 71 By Pass, Lee's Summit, Mo., 5, 15, 30, 40
See ad on pages 57-60
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Components Corp., Ill., 5, 15, 40

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Tel: LOcust 4-3131

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JFD Electronics Corp., 1462 62nd St., Brooklyn 19, N.Y., 35, 45
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James Vibrapowr Co., 4050 N. Rockwell St., Chicago 18, Ill., 30, 38, 40
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K-V Transformer Corp., Conn., 28, 30, 36, 38, 40

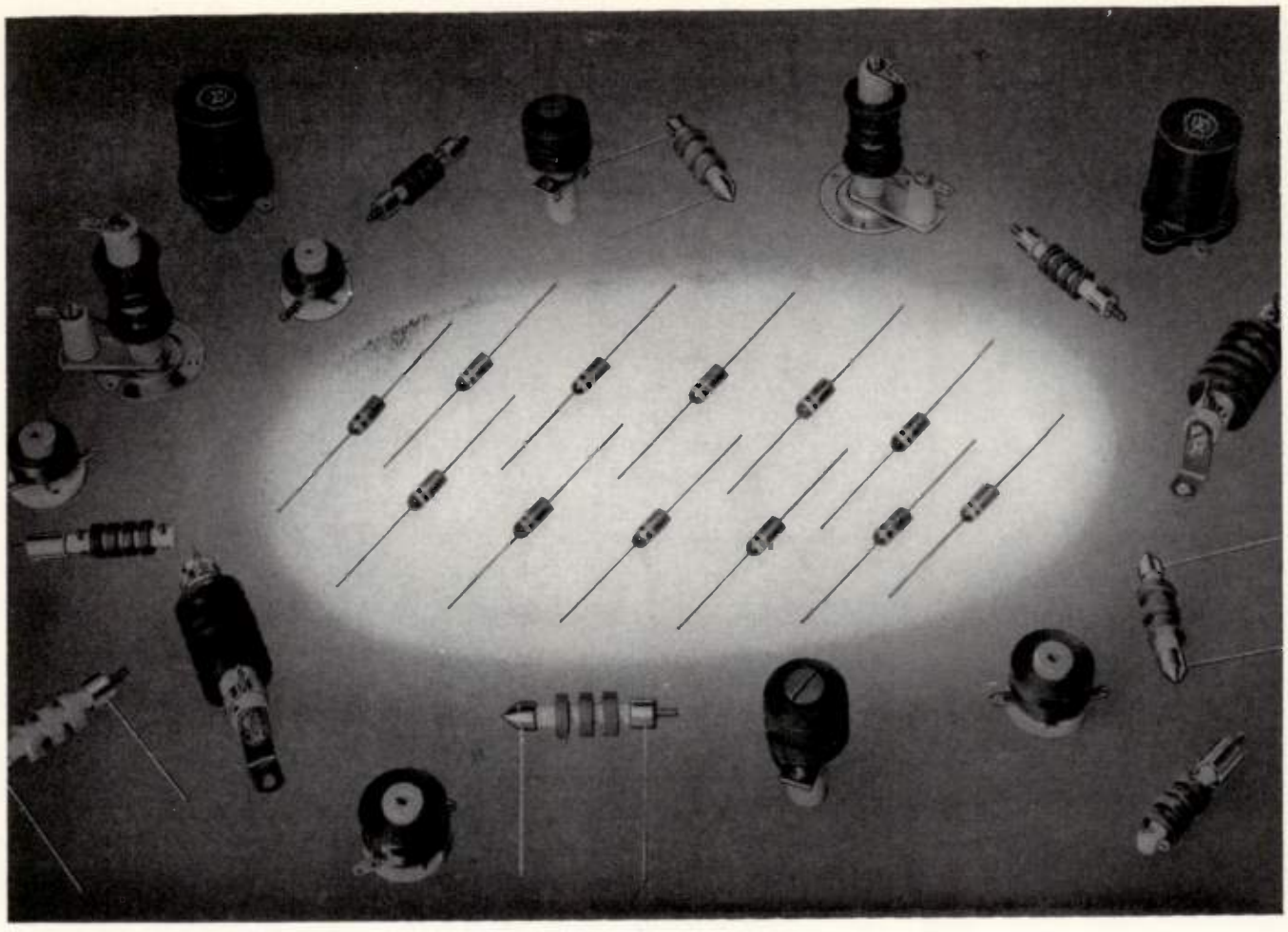
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COIL NUMBER	INDUCTANCE MICROHENRIES	DIAMETER INCHES	LENGTH INCHES
J301-25	25	3/16	9/16
J301-33	33	3/16	9/16
J301-47	47	3/16	9/16
J301-50	50	3/16	9/16
J301-82	82	3/16	9/16
J301-100	100	3/16	9/16
J301-120	120	3/16	9/16
J301-150	150	3/16	9/16
J301-200	200	3/16	9/16
J301-220	220	3/16	9/16
J301-250	250	3/16	9/16
J301-300	300	3/16	9/16
J301-330	330	3/16	9/16
J301-350	350	3/16	9/16
J301-360	360	7/32	5/8
J301-390	390	7/32	5/8
J301-430	430	7/32	5/8
J301-470	470	1/4	11/16
J301-500	500	1/4	11/16
J301-510	510	1/4	11/16
J301-560	560	1/4	11/16
J301-620	620	1/4	11/16
J301-680	680	9/32	3/4
J301-750	750	9/32	3/4
J301-820	820	9/32	3/4
J301-910	910	9/32	3/4
J301-1000	1000	9/32	3/4
J301-1200	1200	5/16	13/16
J301-1300	1300	5/16	13/16
J301-1500	1500	5/16	13/16
J301-1800	1800	5/16	13/16
J301-2000	2000	3/8	7/8
J301-2200	2200	3/8	7/8
J301-2400	2400	3/8	7/8
J301-2500	2500	3/8	7/8

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Directory II. Components

29. Coils.

Kapitol Magnetic Corp., Ill., 5, 15, 28, 30, 36, 38, 40
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Sag Harbor Industries, Inc., N.Y., 28, 30, 36, 38
Sangamo Electric Co., Ill., 5, 40

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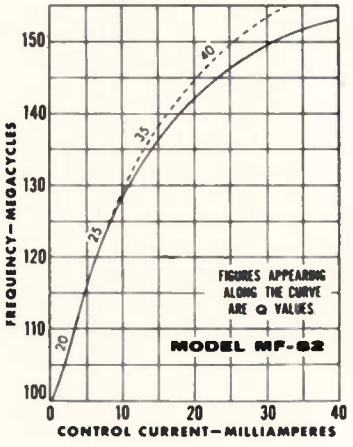
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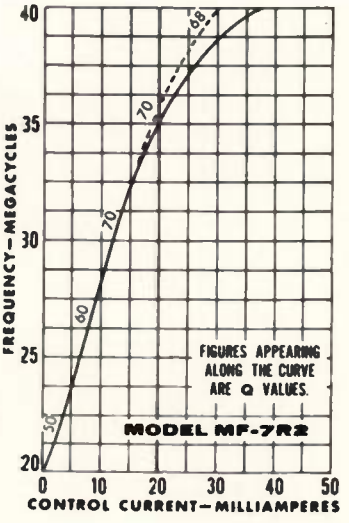
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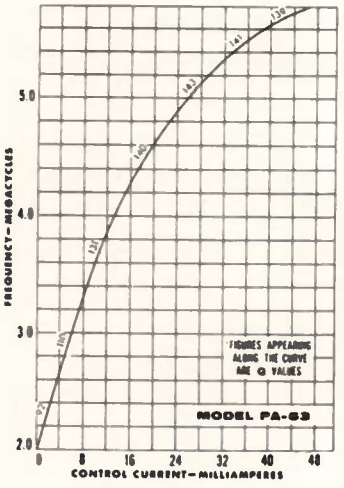


MF-82 Typical Freq. Range, 0-40 ma: 100 to 150 mc. Starting Inductance 0.2 μh, ±10%. PM Bias, sealed in steel can (dotted curve shows performance of MF-82C, same as above but in copper can).



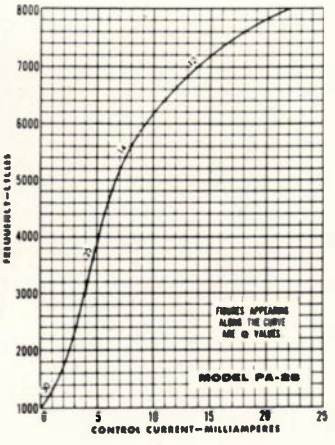


Typical Freq. Range, 0-40 ma: 20 to 40 mc. Starting Inductance 1.5 uh, ±10%. PM Bias, sealed in steel can (dotted curve shows performance of MF-7R2C, same as above but in copper can). **MF-7R2**



PA-63 Typical Freq. Range, 0-50 ma: 2.0 to 5.8 mc. Starting Inductance 45 μh, ±10%. PM Bias, epoxy-embedded.





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Southwestern Industrial Electronics Co., 2831 Post Oak Rd., P.O. Box 13058, Houston 19, Tex., 40
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Tel: MOhawk 7-6611

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See ad on page 317
Tel: NEwburgh 3030

Stanwyck Winding Co., Inc., N.Y., 26, 30, 35, 36, 38, 40, 45

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Tele Coil Co., N.J., 10, 20, 25, 26, 35, 38, 45

Printed Circuit Coils and Coil Forms



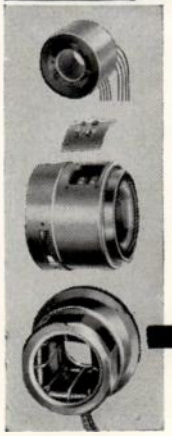
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Telectro Industries Corp., N.Y., 26, 35, 38, 45

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Tresco, Inc., 3824-28 Terrace St., Philadelphia 28, Pa., 5, 30
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TExas 0-5381

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United States Electronics Corp., N.J., 5, 15, 26, 28, 30, 35, 36, 38, 45, Molded

United Transformer Corp., 150 Varick St., New York 13, N.Y., 5, 15, 30, 38, 40
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Tel: ALgonquin 5-3500

Universal Mfg. Co., Inc., 1168 Grove St., Irvington 11, N.J., 40
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Vanguard Electronics Co., Calif., 15, 26, 35, 45

Vari-L Co., Inc., 432 Fairfield Ave., Stamford, Conn., 40 Electrically-Variable Inductors
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Warren Transformer Co., Inc., Pa., 28, 30, 35, 38, 40

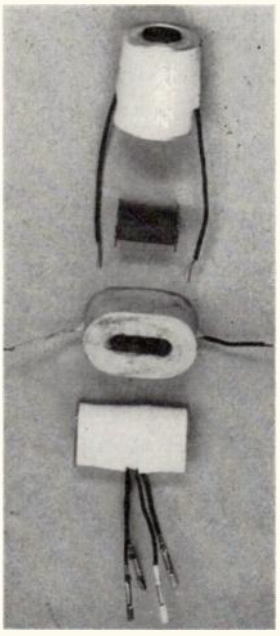
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Waters Mfg., Inc., Boston Post Rd., Wayland, Mass., 26, 35, 40, 45
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Tel: ELmwood 8-2777

Welch Mfg. Co., Inc., A. W., Ind., 5, 15, 25, 26, 30, 35, 40, 45

(Continued on page 319)

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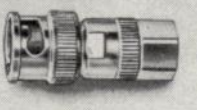
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Commutators: See class 30

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Condensers: See class 26

30. Connectors.

5. AN & MIL standard types
7. Anode
10. Co-axial
15. Hermetically sealed
17. Interlock
20. Microphone
25. Multiple circuit connectors
28. Phono
30. Power
32. Printed circuit
34. RF type
35. Slip ring and commutating connectors
40. Sub-miniature
45. Waterproof

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American Communications Corp., N.Y., 10
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Tel: BIshop 2-1000

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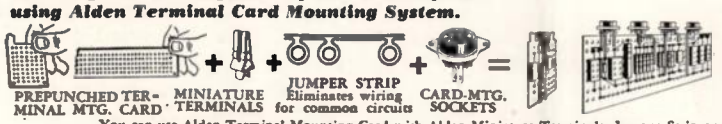
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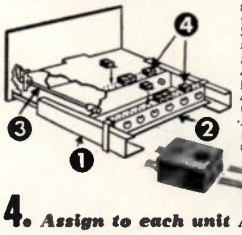
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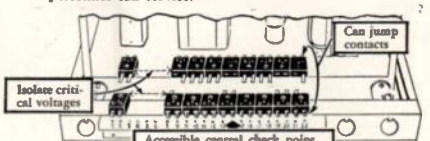
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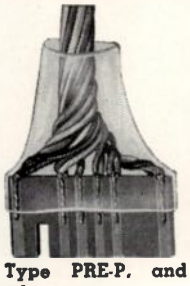
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Tel: WEst Lebanon 3-5851

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Tel: WOodland 7-1113

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Tel: AStoria 8-1040

Dage Electric Co., Inc., 67 N. Second St., Beech Grove, Ind., 10, 15, 34, 40, 45
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Tel: STate 6-0458

Danbury-Knudsen, Div. of Amphenol Electronics Corp., Box 170, Danbury, Conn., 25
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Tel: PI 8-3549

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Defiance Engrg. & Microwave Corp., Mass., 34 & Special

DeJUR-Amsco Corp., 45-01 Northern Blvd., Long Island City 1, N.Y., 5, 10, 15, 25, 30, 32, 40
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Tel: AStoria 8-1040

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Deutsch Co., Calif., 5, 15, 25, 40, 45, High Temperature

Dialight Corp., 60 Stewart Ave., Brooklyn 37, N.Y., 20
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Tel: HYacinth 7-7600

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Eitel-McCullough, Inc., 798 San Mateo Ave., San Bruno, Calif., 7, Heat Dissipating
See ad on pages 68-69
Tel: JUno 8-1212

Elco Corp., Pa., 5, 20, 25, 28, 30, 32, 40, 45, Microminiature

Electrical Industries, 691 Central Ave., Murray Hill, N.J., 15, 40
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Tel: CRestview 7-4300

Electro Tec Corp., N.J., 35, Brush Contacts, Brush Blocks

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Engelhard Industries, Inc., 113 Astor St., Newark 2, N.J., 35
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Tel: BIgelow 3-0030

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Frequency Standards, P.O. Box 504, Shafto Rd., Asbury Park, N.J., 34
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Tel: ROckford 8-9661

General Devices, Inc., P.O. Box 253, Princeton, N.J., 35
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Tel: DAvis 9-2323

General Hermetic Sealing Corp., 99 E. Hawthorne Ave., Valley Stream, L.I., N.Y., 15
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Tel: VAlley Stream 5-6363

General Radio Co., 275 Massachusetts Ave., Cambridge 39, Mass., 10
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Tel: TRowbridge 6-4400

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Good-All Electric Mfg. Co., Nebr., 5, 34

Gorham Mfg. Co., 333 Adelaide Ave., Providence 7, R.I., 35
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Complete addresses are supplied in the product sections of this directory for those firms who have placed advertisements in this issue. For addresses and phone numbers of non-advertisers, see the Alphabetical Directory, pages 141-239.

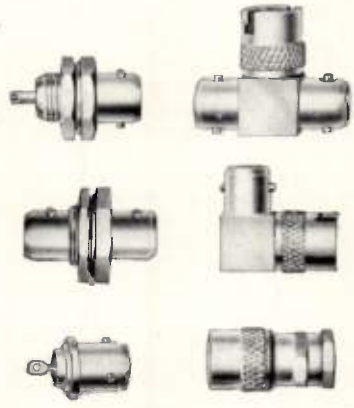
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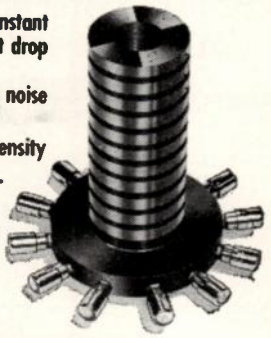
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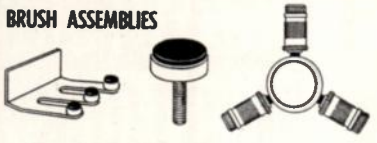
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Directory II. Components

30. Connectors.

Gramatan Instrument Co., N.Y., 5, 10, 34

Graphite Metallizing Corp., 1057 Nepperhan Ave., Yonkers, N.Y., 35
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Tel: YOnkers 8-8400

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Hobson Bros., Inc., Ill., 7

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Ideal Industries, Inc., Ill., Solderless Wire

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Tel: ORegon 7-1881

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Jan Hardware Mfg. Co., Inc., N.Y., 5, High Voltage

Javex, Calif., 10, 25, 30

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Tel: BAldwin 6-3456

Jerrold Electronics Ltd., Canada, 10, 34

Johnson & Hoffman Mfg. Corp., 31 E. 2nd St., Mineola, L.I., N.Y., 5, 15, 32
See ad on page 588
Tel: PIoneer 2-3333

Jones Div., Howard B., Cinch Mfg. Corp., 1026 S. Homan Ave., Chicago 24, Ill., 20, 25, 30
See ad on pages 110-111
Tel: NEvada 2-2000

Joy Mfg. Co., Pa., 5, 15, 25, 30, 45

Joy Mfg. Co., Elect. Prods. Div., Mo., 5, 25, 30, 45

Kennedy Industries, Calif., 32

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Kulka Electric Corp., 633-643 S. Fulton Ave., Mt. Vernon, N.Y., 17, 25, 30, 32
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Tel: MOunt Vernon 4-4024

Laminated Sheet Prods. Corp., Mass., 32

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Lessells & Assoc., Inc., Mass., Strain Gage

Lieco, Inc., 3610 Oceanside Rd., Oceanside, L.I., N.Y., 10, 40
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Tel: ROckville Centre 6-7620

Livingston Electronic Corp., N.J., 15, 40

Makepeace Div., D. E., Engelhard Industries, Inc., Attleboro, Mass., 35
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Mandex Mfg. Co., Inc., Ill., 7

Mendelsohn Speedgun Co., Inc., N.J., 10, 34, 40, 45

Metox, France, 5, 10, 25

Methode Manufacturing Corp., 7447 W. Wilson Ave., Chicago 31, Ill., 5, 25, 32, 40
See ad on page 388
Tel: UNderhill 7-9600

Micarta Fabricators, Inc., Ill., 7, 17, 28, 32

Microdot, Inc., 220 Pasadena Ave., S. Pasadena, Calif., 10, 15, 32, 34, 40
See ad on page 324
Tel: RYan 1-3351

Microlab, 71 Okner Pkwy., Livingston, N.J., 10
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Tel: LIvingston 6-0692

Midwest Molding & Mfg. Co., Ill., 35

Millen Mfg. Co., Inc., James, 150 Exchange St., Malden 48, Mass., 30
See ad on page 314
Tel: DA 4-4108

Molded Insulation Co., Pa., 5, 10, 15, 20, 25, 45

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Morton Electronics Corp., Chester, Pa., 10, 28

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Mycalex Corp. of America, 125 Clifton Blvd., Clifton, N.J., 5
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Tel: PRescott 9-8866

National Fabricated Prods., Ill., 32

National Tel-Tronics Corp., 52 St. Casimir Ave., Yonkers, N.Y., 17, 20, 25, 32, 40
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Tel: YOnkers 8-6400

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Northern Plastics Corp., Wis., 32

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Tel: PLaza 1-3200

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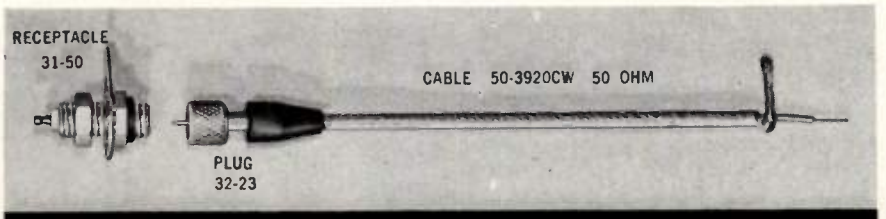
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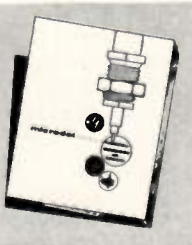
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Pyle-National Co., The, Ill., 5, 10, 25, 30, 45

Radian Laboratories, Inc., N.Y., 15

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Raytheon Mfg. Co., Microwave & Power Tube Div., Section PT-07, Foundry Ave., Waltham 54, Mass., 10, 15, 34
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Tel: TWinbrook 3-5860

Richards Electrocraft, Inc., Ill., 20, 28, 40

Robertson Electric Co., Inc., 124 S. Elmwood Ave., Buffalo 2, N.Y., Connector Splice Cases
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Tel: MAdison 6658

Rodale Mfg. Co., Pa., 45

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Slip Ring Co. of America, Calif., 35, 40

Smith, Inc., Herman H., N.Y., 17, 28, 30

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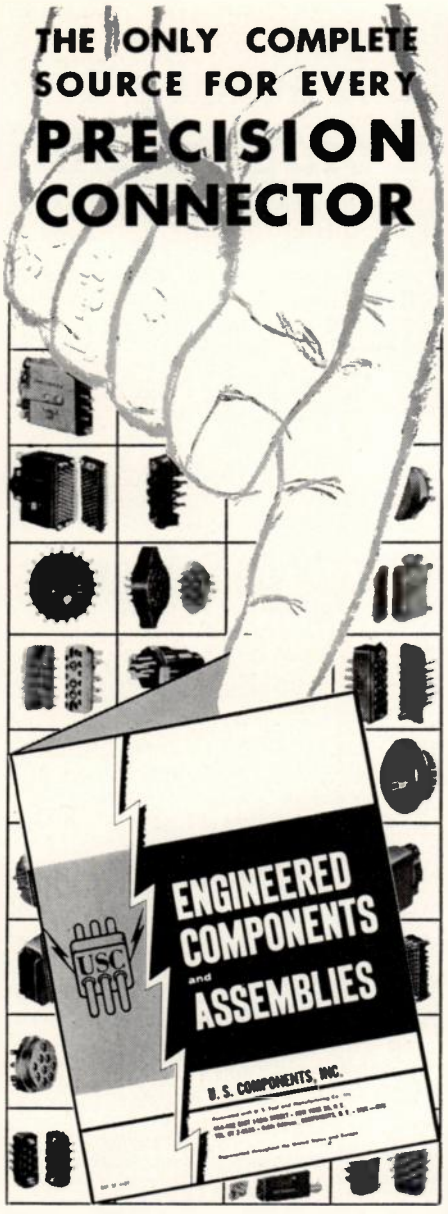
Standard Electric Time Co., The, Mass, 30

Stanwyck Coil Co., E., 75 Carson Ave., Newburgh, N.Y., 32, 34
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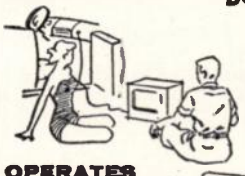
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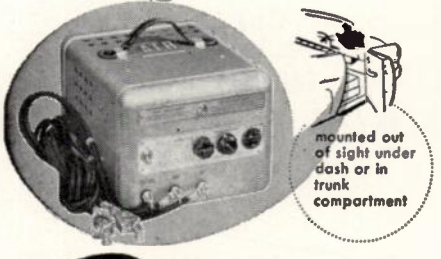
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Technical Materiel Corp., N.Y., Adapters, End Seals

Telectro Industries Corp., N.Y., 30

Telex, Inc., Minn., 40

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Thor Ceramics, Inc., 225 Belleville Ave., Bloomfield, N.J., 15
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Transline Associates, N.J., 15

Trimm, Inc., 400 W. Lake St., Libertyville, Ill., 20
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Ucinite Co., Div. United Carr Fastener Corp., Mass., 7, 10, 32

Union Electronics & Machine Corp., Mass., 10, 34, 40

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American Electronics, Inc., Calif., 15, 28
American Machine & Foundry Co., Va., 5, 10

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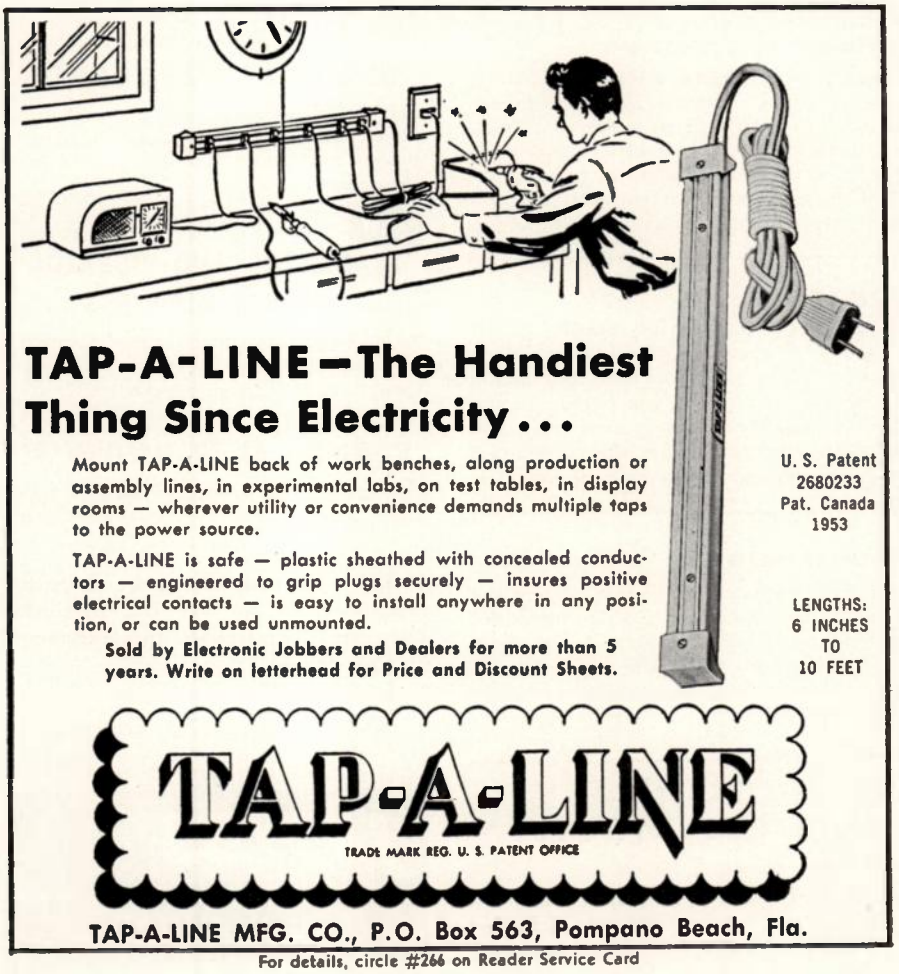
Ballantine Labs., Inc., 102 Fanny Rd., Boonton, N.J., 15
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Barber-Colman Co., Dept. 59 Directory, 1856 Rock St., Rockford, Ill., 5, 10, Choppers
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Beckman Systems Div., Calif., 5

Bendix Aviation Corp., Red Bank Div., Electron Tube Section, Route #35, Eatontown, N.J., 5, 10, 15, 20
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Tel: HAmilton 7-7961

Cook Electric Co., Ill., 15

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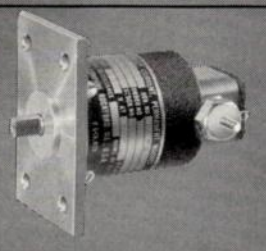
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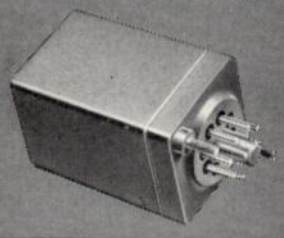
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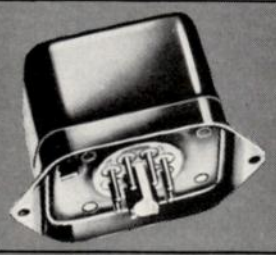
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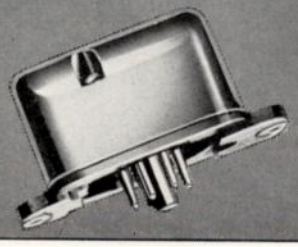
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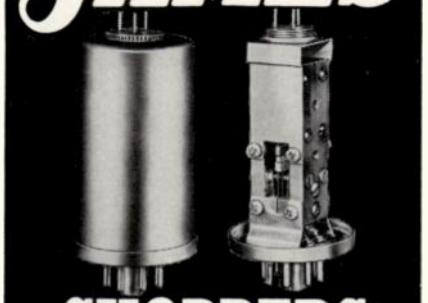
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Modulate and demodulate signals as low as one microvolt; center pivot design for operation over wide range of temperature, vibration, shock; shielded for minimum residual noise. Models operate from D.C. switching to 500 Cps.

NEW

MILITARY CHOPPERS

Using the JAMES low noise level chopper mechanism; packaged in new miniaturized 7 and 9 pin plug-in or wire-in models. Designed to provide high reliability of operation over extremes of environment; for missile and airborne applications.

INSTRUMENT TRANSFORMERS

For use in low level applications. A complete standard line for input, interstage, power and output. Consult JAMES with your transformer problems.

NEW

TRANSISTOR AND VIBRATOR POWER SUPPLIES

Designed for custom applications in military and industrial use. Complete equipments for D.C. to D.C. power conversion.

COMMERCIAL TRANSFORMERS

Designed for all power and audio applications. Manufactured to rigid specifications.

JAMES is the complete source of critical components for low level D.C. amplifications, supplying choppers, transformers and chopper drivers.

Write for engineering literature.

JAMES VIBRAPOWR COMPANY

4050 N. Rockwell St., Chicago, Ill., COrnelia 7-6333

For details, circle #268 on Reader Service Card

Directory II. Components

31. Converters.

Garrett Corp., Calif., Alternator, Permanent Magnet

Gates Electronic Co., 2090 Barnes Ave., New York 62, N.Y., 5, 10
See ad on page 377
Tel: TYrone 2-6490

General Dynamics Corp., Stromberg-Carlson Div., N.Y., 5, 10

General Electric Co., Apparatus Sales Div., N.Y., 5, 10, 15, 20, 30

General Electric Co., Rectifier Dept., Va., 5, 10, 15, 28, 30

General Magnetics, Inc., 135 Bloomfield Ave., Bloomfield, N.J., 10, 30
See ad on page 180
Tel: PIlgrim 8-2400

Georator Corp., Va., 10, 15, 20

Great Lakes Electric Mfg. Co., Ill., 10, 15, 20

Gyro Electronics Co., N.Y., 30, Transistor Power

Hallamore Electronics Co., Calif., 15

Hallicrafters Co., Ill., 5, 10

Hammond Mfg. Co., Ltd., Canada, 10

Harrison Labs., Inc., B. M., N.J., 5, 10, 15

Heath Co., Subsidiary of Daystrom, Inc., Benton Harbor 4, Mich., 5, 25
See ad on page 482
Tel: YUkon 3-3961

Hertner Electric Co., Ohio, 5, 10, 15, 20

Hesco Engineering, Calif., 5, 10, 28

Hewson Co., Inc., N.J., 5

Hoover Co., Ltd., Canada, 10, 15, 20

Hoover Electric Co., Calif., 5, 10, 15

Industron Co., N.Y., 5, 15

Interelectronics Corp., 2432 Grand Concourse, New York 58, N.Y., 5, 10, 15, 20, 25, 30
See ads on pages 268, 376
Tel: LUdlow 4-6200

International Resistance Co., Calif., 10, Transistor Switching

International Telephone & Tel. Corp., Calif., 5, 10, 15

International Telephone & Tel. Corp., Industrial Prods. Div., Calif., 5, 10, 15

James Vibrapowr Co., 4050 N. Rockwell St., Chicago 18, Ill., 15, 25, ac-dc choppers
See ad on page 328
Tel: COrnelia 7-6333

Jobbins Electronics, 771 Hamilton Ave., Menlo Park, Calif., 5, 10
See ad on page 429
Tel: DAvenport 6-7110

Kaiser Aircraft & Elecncs. Div., Kaiser Industries Corp., Ohio, 10, 15

Kato Engineering Co., Minn., 5, 10, 15, 20, 30

Katolight Corp., Minn., 5, 20, 30-phase

Kearfott Co., Inc., 1378 Main Ave., Clifton, N.J., 5, 10
See ad on page 364
Tel: GRegory 2-1000

Kenyon Transformer Co., Inc., N.Y., 5, 10, 15

Kepco Laboratories, Inc., 131-38 Sanford Ave., Flushing 55, N.Y., 5, 10, 15, 28, 30
See ad on page 379
Tel: INdependence 1-7000

Kinn Electronics Corp., Md., 15

Kurman Electric Co., Dept. R, 191 Newel St., Brooklyn 22, N.Y., 25
See ad on page 403
Tel: EVergreen 3-8000

L E E, Inc., D.C., 10, 15

Lawn Electronics Co., Inc., N.J., 5, 10, 15

Leach Corp., Calif., 5, 10

Lesa, S. P. A., Italy, 10, 15

Macarr, Inc., Dept. R, 2543 Boston Rd., New York 67, N.Y., 5
See ad on page 573
Tel: OLinville 3-3306

Magnetic Amplifiers, Inc., 632 Tinton Ave., New York 55, N.Y., 5, 10, 30
See ad on page 380
Tel: CYpress 2-6610

Magnetic Controls Co., Minn., 5, 10, 15, 30

Magnetic Instruments Co., N.Y., 5, 10, 15

Magnetic Research Corp., 3160 W. El Segundo Blvd., Hawthorne, Calif., 5, 15
See ad on page 282
Tel: OSborne 5-1171

Maico Electronics, Inc., Minn., 15

Maxson Instrument Corp., N.Y., 5

Mayberry Electronics Co., Calif., 5, 10, 15, 30

Mercury Electronic Co., N.J., 5, 10, 30, Static Type

Metox, France, 25

Minneapolis-Honeywell Reg. Co., Military Prods. Group, Minn., 10, 15, 30

Model Rectifier Corp., 1675 Utica Ave., Brooklyn 34, N.Y., 5, 30
See ad on page 381
Tel: CLoverdale 8-6800

Motordyne, Inc., Calif., 5, 10, 15, 28, Transistorized Static Type

National Aircraft Corp., Calif., 5, 10, 15, 30

New York Transformer Co., Inc., N.J., 10, 15

Non-Linear Systems, Inc., Calif., 5

Norrman Labs., Ernst, Wis., 15

North Electric Co., Ohio, 10

Oak Mfg. Co., Ill., 15, 25

Opad Electric Co., 69-8 Murray St., New York 7, N.Y., 5, 10, 15
See ad on page 383
Tel: BEekman 3-7548

Oster Mfg. Co., John, Avionic Div., 1 Main St., Racine, Wis., 15
See ad on page 368
Tel: MElrose 3-6331

Perkin Engineering Corp., Calif., 5, 10, 15, 25, 28, 30

Philco Corp., Government & Industrial Div., Pa., 5, 10

Pitometer Log Corp., N.Y., 10

Polyphase Instrument Co., Pa., 5, 10

Polytron Engineering, Inc., Md., 10

Potter Aeronautical Corp., N.J., 5

Power Sources, Inc., Mass., 5, 10, 15, 30

Precise Measurements Co., Millbrook Lane, R.D. #1, Flemington, N.J., 30
See ad on page 382
Tel: FLemington 900

Pylon Electronic Development Co., Ltd., Canada, 10, 15, 28, 30

R-S Electronics Corp., Calif., 5, 10

Radiart Corp., Ohio, 5, 10, 15, 25

Radiation, Inc., P.O. Box 37, Melbourne, Fla., analog digital
See ad on page 272
Tel: 1800

Radio Research Instrument Co., N.Y., 5, 10, 15, 20, 25

Ramo-Wooldridge Corp., Calif., 5, 10, 15

Rangertone, Inc., N.J., 15

Raypar, Inc., Ill., 10

Redmond Co., Inc., Mich., 10, 15

Relay Sales, Inc., Box 186-IR, West Chicago, Ill., choppers
See ad on page 407
Tel: WEst Chicago 1100

Rheem Mfg. Co., Electronics Div., 7777 Industry Ave., Rivera, Calif., 30
See ad on page 487
Tel: RAymond 3-8971

Rho Engineering Co., Calif., 5, 10

Riverbank Labs., Dept. of Engrg., Ill., 10

Robertshaw-Fulton Controls Co., Calif., 10

Sangamo Electric Co., Ill., 5, 10, 15, 20

Saratoga Industries, N.Y., 5, 10

Schindler S., Calif., 5, 10, 15, Transistorized

Scientific Service Laboratories, Inc., Tex., 5, 10, 25

Sel-Rex Corp., N.J., 5, 30

Servo-Tek Products Co., N.J., 5

Servomechanisms, Inc., N.Y., 5

Simpson Mfg. Co., Inc., Mark, N.Y., 5, 10

Small Motors, Inc., Ill., 5, 10, 15

Sorensen & Co., Inc., Conn., 5, 10, 15

Southwestern Industrial Electronics Co., 2831 Post Oak Rd., P.O. Box 13058, Houston 19, Tex., 5, transistor
See ad on page 192
Tel: MOhawk 7-6611

Standard Electric Time Co., The, Mass., 10

Stelma, Inc., Conn., 5, 10

Stevens-Arnold, Inc., 7 Elkins St., South Boston 27, Mass., 10, choppers
See ad on page 331
Tel: AN 8-1170

Stromberg-Carlson Div., General Dynamics Corp., Calif., 10

Systron Corp., Calif., 5, 30

Technical Apparatus Builders, 109 W. Liberty St., New York 6E, N.Y., 5, 10, 15, 28, 30
See ad on page 384
Tel: REctor 2-6248

Tel-Instrument Electronics Corp., N.J., Electronic Frequency

Telectro Industries Corp., N.Y., 5, 10

Telerad Mfg. Corp., N.Y., 5

Terado Co., 1065 Raymond Ave., St. Paul 8, Minn., 10
See ad on page 407
Tel: MIdway 6-2514

Texas Crystals Div. of Westronix Corp., Ill., 10

Texas Instruments Incorporated, 6000 Lemmon Ave., P.O. Box 312, Dallas 9, Texas, 10
See ad on page 418
Tel: FLeetwood 7-4311

Topp Mfg. Co., Calif., 5, 10, 15, 30

DESIGNews

Magnetic Metals Company designs and produces stamped and tape wound cores and shields for the electrical and electronic industries

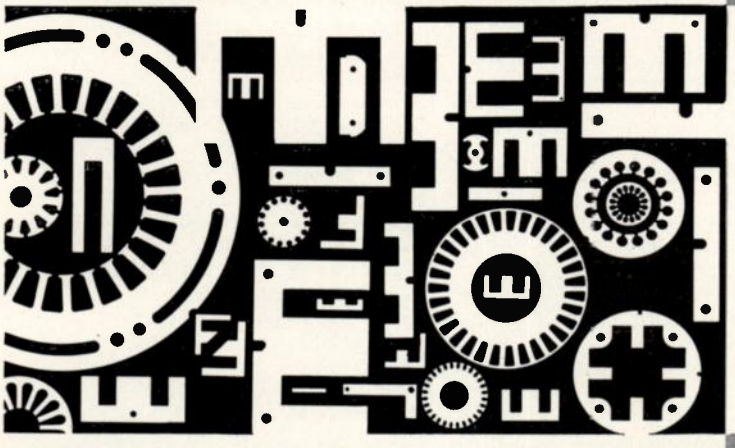


The ultimate in tape wound cores

CENTRICORES

Precision manufacturing methods are used to obtain closely matched magnetic characteristics, including high thermal stability. Centricores matched at room temperature will remain matched over wide temperature ranges.

► **SEND FOR BULLETIN D7.**

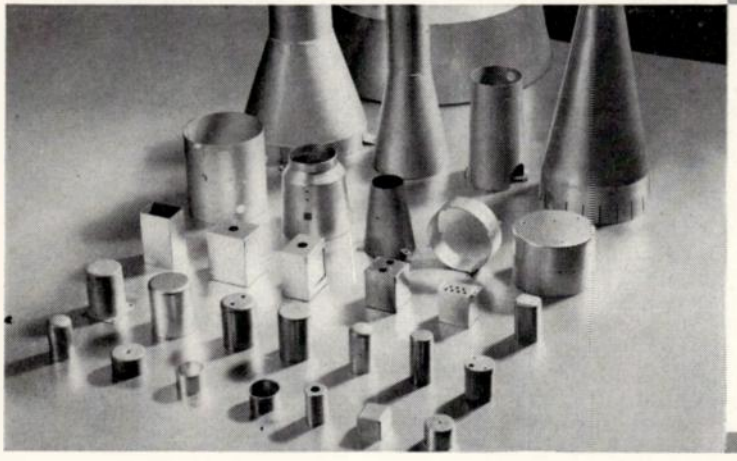


Mass-produced... Precision-made

Magnetic Core Laminations

Motor laminations are produced to close specifications from customer-owned dies. Our representative will discuss your needs. Transformer laminations in a wide variety of shapes and sizes are made from standard dies.

► **SEND FOR BULLETIN A1.**



Drawn or formed

MAGNETIC SHIELDS

Provide efficient protection of sensitive electrical equipment against stray magnetic fields, and effect a high ratio of field strength reduction. A wide range of single and multiple shield structures are available from existing tools.

► **SEND FOR BULLETIN F1.**

MAGNETIC METALS COMPANY

ELECTROMAGNETIC CORE PARTS AND SHIELDS • HAYES AVENUE AT 21st ST. • CAMDEN 1, N. J.

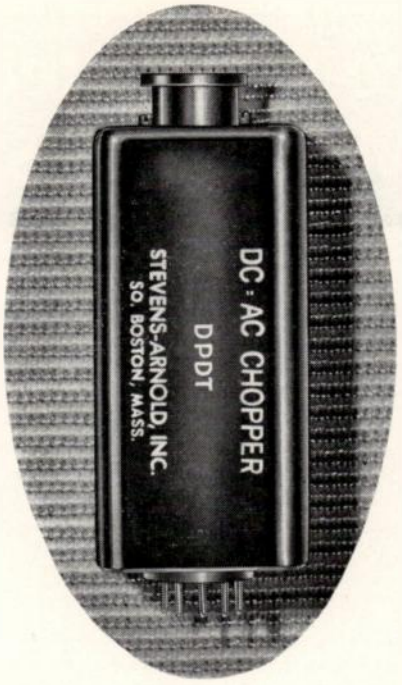
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NEW...

TWIN-CONTACT MINIATURE DC-AC CHOPPERS

For 50-60-94-120 Cycle Use

A new design feature — twin contacts—exclusive with Stevens-Arnold, achieves the maximum in chopper reliability. Now available in 22 different types, both single and double pole, Stevens-Arnold miniature choppers are built to rigid commercial specifications, with emphasis on long life and low noise level. Please write for Catalog 515.





DC-AC CHOPPERS

For 0–500 Cycle Use

All the usual military specifications are met with liberal factors of safety. Before any Chopper is shipped, it is tested twice over the range of −65°C +85°C to give double proof of stamina. Each production lot sample life tested. Please write for Catalog 280.

ULTRA HIGH SPEED RELAYS

Operating time 200 microseconds. Mount in any position. Will cover the range of −65°C +85°C and are factory sealed. Please write for Catalog 337.





RESONANT RELAYS

Permit remote control by radio or carrier current through frequency discrimination. Relays operate only when energized at rating and reject all other frequencies. Eleven types are offered in the range of 153–442 cycles. Please write for Catalog 335.

S/A-9B

STEVENS-ARNOLD

INCORPORATED

7 ELKINS STREET, SOUTH BOSTON 27, MASS.

For details, circle #270 on Reader Service Card

Directory II. Components

31. Converters.

Topping Electronics, Ltd., F. V., Canada, 5, 10, 15, VDC-DC
Transistor Devices, Inc., N.J., 5, 15, 28
Transval Engineering Corp., Calif., 5, 10, 15
Ultradyne, Inc., N.M., 10
United Electodynamics, Calif., 30
Universal Transistor Products Corp., N.Y., 5, 10, 15, 28, 30
Varo Mfg. Co., Inc., Texas, 5, 10, 15, 20
Vibration Research Labs., Inc., N.Y., 5, 10, 15, 25, 30
Waldorf Instrument Co., Div. F. C. Huyck & Sons, N.Y., 5, 10, 30
Weightman & Associates, Calif., 10, 20, 25
Western Gear Corp., Electro Prod. Div., Calif., 5, 10, 15, 20, 30
Wickes Engineering, N.J., 5, 10, 15
Wincharger Corp., E. 7th & Division St., Sioux City 2, Iowa, 5, 10, 20, 28, 30
See ad on page 240
Tel: 2-1844

Cord, lacing: See class 87

32. Cores & Core Materials.

5. Ceramic
10. Ferrite
15. Laminations
20. Metallic powders
25. Powdered metal
30. Tape wound
35. Toroid

ACF Industries, Inc., N.J., 30
Accurate Spring Mfg. Co., Ill., 35
Aerovox Corp., Mass., 10, 20, 25, 35
Aetna Electronics Corp., N.Y., 25
Airtron, Inc., Dept. I, 1106 W. Elizabeth Ave., Linden, N.J., 10
See ad on page 454
Tel: HUnter 6-1000
Alden Products Co., 9140 N. Main St., Brockton 64, Mass., 35
See ad on page 319
Tel: BRockton 160
Allegheny Ludlum Steel Corp., Pa., 15
Allen Bradley Co., Wis., 10
Aluminum Co. of America, Pa., 25
American Lava Corp., Subs. of Minnesota Mining & Mfg. Co., Cherokee & Mfrs. Rd., Chattanooga 5, Tenn., 5, 10
See ad on page 2
Tel: AM 5-3411
Antara Chemicals Div., N.Y., 20, 25
Anthony & Co., J. L., R.I., 15
Arnold Engineering Co., P.O. Box G, Marengo, Ill., 25, 30, 35
See ad on pages 41-44
Tel: (Chicago) ANdover 3-6300
Bludworth Marine Div., Kearfott Co., N.J., 10
Bram Metallurgical Chemical Co., Pa., 20, 25
Burroughs Corp., Mich., 30

Performance-Guaranteed Products by MAGNETICS, inc.

TAPE WOUND CORES

Only Magnetics, Inc. offers *guaranteed* maximum and minimum performance limits for tape wound cores. They are available immediately from stock made from Hy Mu-80, 48 Alloy or Orthonol®. Cores are dry-hydrogen annealed to meet performance specifications.

Inside Diameters	0.375-in. to 4.000-in.
Outside Diameters	0.5000-in. to 5.000-in.
Heights	0.125-in. to 2.000-in.
Tape Thickness	.001, .002, .004, .006

NOTE: All AIEE Proposed Standard Sizes are included.

Only Magnetics, Inc. offers cores in phenolic core boxes and aluminum core boxes, in standard paint finish or with the revolutionary new GVB (Guaranteed Voltage Breakdown) finish. GVB cores can be vacuum impregnated and will withstand 1,000 volts at 60 cycles with bare copper wire. Aluminum boxed cores will withstand temperatures to at least 450°F. All core tests are in accordance with those proposed by the AIEE Working Group on Core Matching and Grading.

***For Complete Details:* Write for Tape Wound Core Catalog TWC-200**

BOBBIN CORES

Performance-Guaranteed tape wound bobbin cores are made from 4-79 Mo Permalloy or Orthonol®. Only Magnetics, Inc. offers stainless steel and ceramic bobbin cores with "Poly Caps"—cores protected by a special tough glass polyester to permit handling without special tools. This cap will not deflect or distort with temperature, and permits normal potting without affecting core properties.

Bobbin Diameters	from 0.125-in. through 0.625-in.
Tape Widths*	from 0.0312-in. through 0.250-in.
Tape Thickness	from 0.000125-in. through 0.001-in.

**Over ¼-in. wide bobbin not standard, but furnished on request.*

***For Complete Details:* Write for Bobbin Core Bulletin BC-202**

MOLYBDENUM PERMALLOY POWDER CORES

Only Magnetics, Inc. offers guaranteed realistic inductance limits for both temperature stabilized and non-stabilized molybdenum permalloy powder cores. Performance-Guaranteed, they are available in a variety of standard sizes and permeabilities. Cores can be graded and color-coded within the guaranteed inductance limits at slight extra cost.

Inside Diameters	0.225 to 0.950-in.
Outside Diameters	0.375 to 1.570-in.
Heights	0.140 to 0.570-in.
Permeabilities	14, 26, 60, 125

Finishes: Powder Cores may be furnished with standard baked enamel and wax tight varnish finishes, or with no finish at all. All cores with finishes which will sustain 500 or more volts may be wound directly with heavy Formex-coated wire.

***For Complete Details:* Write for Powder Core Bulletin PC-203**

MAGNETIC LAMINATIONS

"Performance-Guaranteed" magnetic laminations are available in Hy Mu-80, 48 Alloy and Orthonol®. Standard shapes include DU-1, DU-37, DU-50, EE-24-25, EE-26-27, EE-28-29, EE-186-187, EI-11, EI-12, EI-21, EI-75, EI-187, EI-375, EI-625, F-12, F-12(Modified), F-13, F-20, F-21, F-187, Ring, UBE, UI-312 and UI-375. Standard gauges are 0.014-in. and 0.006-in. Laminations are dry-hydrogen annealed to meet performance specifications. Special shapes can be produced to fit individual customer specifications. These include rotor, stator, and recording head laminations using customer-owned dies.

***For Complete Details:* Write for Magnetic Laminations Catalog ML-301**

MAGNETIC SHIELDS

"Performance-Guaranteed" shields, for protection of electronic measuring devices from moderate or high flux external fields, are usually made from MuMetal or 48 Alloy, respectively, but can be made from any other commercially available magnetic and non-magnetic materials when required. Shields are usually .025-in. thick, but other thickness such as .014, .020, .031 and .062 can be supplied. Shields can be fabricated or drawn, and can be painted, lacquered or unfinished. They are dry-hydrogen annealed for highest field attenuations.

***For Complete Details:* Write Magnetics, Inc. Sales Engineering Dept.**

These Magnetics Representatives are at your service:

NEW YORK & NEW ENGLAND
WILLIAM S. SPRING
Eastern Sales Manager
15 Elm Place
New Canaan, Conn.

NEW JERSEY
WM. J. IRVINE
Field Sales Engineer
172 Dahlia Terrace
North Plainfield, N. J.

ROCHESTER, N. Y.
FOWLER BEACH CORP.
3700 East Avenue

DETROIT, MICH.
RICHARD C. WARNER
P. O. Box 126
Sturgis, Mich.

LOS ANGELES, CAL.
GEORGE B. MULVIN
Western Sales Manager
1220 E. Green St.

CLEVELAND, O.
R. G. SIDNELL
1229 Westlake Ave.

CHICAGO, ILL.
HOWER & PRETAT
4 No. Cicero Ave.

DALLAS, TEXAS
J. H. LAWRENCE
P. O. Box 13026

MINNEAPOLIS, MINN.
FRED PETERSON CO.
2431 Hennepin Ave.

ORLANDO, FLA.
CHRIS B. SMALL
P. O. Box 1346

KANSAS CITY, MO.
C. L. OMER
6047 Howe Drive

EXPORT
B. FREUDENBERG, INC.
240 W. 98 St.
New York 25, N. Y.

MAGNETICS inc.

Dept. 1-58, BUTLER, PENNSYLVANIA

Directory II. Components

32. Cores & Core Materials.

Burroughs Corp., Elecnc. Tube Div., N.J., 30
Canadian GE Co., Ltd., Canada, 5, 10, 15, 20, 25, 30, 35
Canadian Westinghouse Co. Ltd., Canada, 10, 30, 35
Carstedt Research, Inc., Calif., 30, 35
Cascade Research, Calif., 10
Centralab, Wis., 5
Chemfab Corp., N.Y., 15
Clowes Ceramic Corp., Tenn., 5
Connolly & Co., W. E., Calif., 35
Crowley Div., Aerovox Corp., N.J., 10, 25, 35
Crucible Steel Co. of America, Pa., 10
Custom Components, Inc., N.J., 5, 25, 35
DX Radio Prods. Co., Ill., 35
Derf Radio Co., N.Y., 20, 25
Double E Prods. Co., Calif., 10, 20, 35
Du-Co Ceramics Co., Pa., 5
Electric Auto-Lite Co., Ohio, 5
Electric Mach. Mfg. Co., Mullenbach Div., Calif., 5
Electric Refractories Co., Ohio, 5
Electro-Ceramics, Inc., Ill., 5
Engelhard Industries, Inc., 113 Astor St., Newark 2, N.J., 5, 15, 30, 35
See ad on page 166
Tel: BIgelow 3-0030
Fair-Rite Products Corp., N.Y., 10
Ferroxcube Corp. of America, 5D East Bridge St., Saugerties, N.Y., 10
See ad on page 112
Tel: SAugerties 1000
Foote Mineral Co., Pa., 20
G-L Electronics Co., Inc., N.J., 15, 30, 35
General Aniline & Film Corp., Antara Chemicals Div., N.Y., 20
General Ceramics Corp., Dept. ID, Crows Mill Rd., Keasbey, N.J., 5, 10, magnetic memory
See ad on page 530
Tel: VAlley 6-5100
General Electric Co., Laminated Prods. Dept., Ohio, 15
General Electric Co., Specialty Electronic Components Dept., N.Y., 10, 35
Honeycomb Company of America, Conn., 15
Indiana Steel Products Co., Valparaiso, Ind., 30
See ad on page 358
Tel: VAlparaiso 2-5601
Intelex Systems, Inc., N.Y., 10, 30
International Electronics Corp., N.Y., 10
Isolantite Mfg. Corp., N.J., 5
Kearfott Co., Inc., 1378 Main Ave., Clifton, N.J., 5, 10
See ad on page 364
Tel: GRegory 2-1000
Kearfott Co., Inc., Microwave Div., Dept. 24J, 14844 Oxnard St., Van Nuys, Calif., 10
See ad on page 458
Tel: STate 6-1760
Keller Products, Inc., N.H., 15
Kirchberger & Co., Inc., M., N.J., 5
Krystinel Corp., N.Y., 10, 35
Kulite Tungsten Co.,N. J., 20, 25
Laminated Sheet Prods. Corp., Mass., 15
Mackay, Inc., A. D., N.Y., 20, 25
Magnetic Core Corp., John & Lawrence Sts., P.O. Box 368, Newburgh, N.Y., 10, 25, 35
See ad on this page
Tel: NEwburgh 5116
Magnetic Metals Co., Hayes Ave. at 21st St., Camden 1, N.J., 15, 30
See ad on page 330
Tel: WOodlawn 4-7842
Magnetic Powders, Inc., Pa., 20, 25
Magnetics, Inc., Dept. I-58, Box 391, Butler, Pa., 5, 15, 25, 30, 35
See ad on page 332
Tel: BUtler 7-3787
Metal Hydrides, Inc., Mass., 20, 25
Metal Powder Assoc., N.Y., 10, 20, 25
Metal & Thermit Corp., N.J., 20, 25
Microwave Chemicals Lab., Inc., 282 Seventh Ave., New York 1, N.Y., ferrite garnet
See ad on page 77
Tel: WAtkins 4-6725
Moloney Electric Co., 5390 Bircher Blvd., Saint Louis 20, Mo., 30
See ad on page 440
Tel: EVergreen 3-3300
Mullard Overseas, Ltd., England, 10
National Cash Register Co., Ohio, 10
National Moldite Co., N.J., 10, 20, 25, 35
National Pneumatic Co., Inc., Holtzer Cabot Div., Mass., 15
Northern Electric Co., Ltd., Canada, 5, 10
Northern Plastics Corp., Wis., 15
Nuclear Corp. of America, Inc., N.Y., 5, 10, 20
Page-Madden Co., N.Y., 5
Polydoroff & Assoc., D.C., Magnetic Powders & Compressed Powdered Cores
Polymer Corp. of Pa., Pa., 25, 35
Pyroferric Co., Inc., N.Y., 25
Quality Components, Inc., Pa., 25
Radio Cores, Inc., 9540 South Tulley Ave., Oak Lawn, Ill., 25, 35
See ad on page 335
Tel: GArden 2-3353
Radio Corp. of America, Electron Tube Div., Sec. I-20-Q, 415 S. Fifth St., Harrison, N.J., 5, 10, 35
See ad on pages 113-116
Tel: HUmboldt 5-3900
Radio Corp. of America, Semiconductor & Materials Div., Sec. I-20-NN, Somerville, N.J., 10, Ferrite memory cores, transflux or switching cores
See ad on page 114
Tel: RAndolph 5-4500
Raytheon Mfg. Co., Ceramic Sales, Mass., 5
Rese Engineering, Inc., Pa., Magnetic
Rogers Electronic Tubes & Components, Canada, 10, 35

ELECTRONIC
Powder Metal Parts

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HI TEMPERATURE
HI STABILITY
RAD-A-COR
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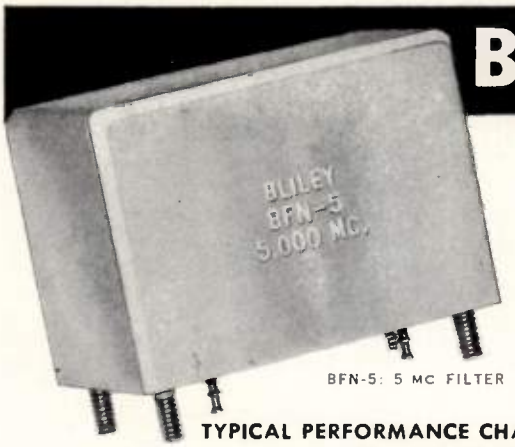
MAGNETIC CORES TO MATCH ANY
Electrical and Mechanical Specifications

Contact us for samples and engineering information.

MAGNETIC CORE CORP.
Manufacturers of Electronic Powder Metallurgy
John & Lawrence Streets, New Windsor, Newburgh, New York
Telephone: Newburgh 5116

For details, circle #272 on Reader Service Card

BLILEY CRYSTAL FILTERS



BFN-5: 5 MC FILTER

STANDARD DESIGN—CUSTOM DESIGN

Bliley filter networks are custom designed to meet individual equipment requirements over the range 2 mc to 20 mc; bandwidths from 100 cycles to 100 kc. Complete facilities are available for the development and evaluation of special filter requirements.

TYPICAL PERFORMANCE CHARACTERISTICS
(standard designs)

MODEL	FREQ.	BANDWIDTH at 6 db.	BANDWIDTH at 60 db.	FORM FACTOR	IMPEDANCE
BFN-5	5.0 mc	3.5 kc.	12 kc.	3.5	1600 ohms
BFN-11	10.7 mc	30.0 kc.	55 kc.	1.8	2700 ohms
BFN-13	13.0 mc	30.0 kc.	55 kc.	1.8	1500 ohms

Bliley filter networks are now available in three standard designs with characteristics selected for general application in communications systems and particularly in SSB equipment. The compact size and rugged construction of the units makes them especially suitable for use in mobile and miniaturized equipment.

BLILEY CRYSTALS *for* COMPLETE SPECTRUM COVERAGE

MILITARY AND COMMERCIAL CRYSTALS



BH6 SERIES

BH9 SERIES

BANTAM BX

BH9, BX and BH6 Series. Miniature and subminiature units hermetically sealed. For range 4 kc. to 125 mc. Military units meet or exceed MIL-C-3098B. BH6, BH9 and BX Series available as plug in or with wire leads.

Special designs are available to meet vibration up to 2000 cps. at 5G. for airborne and missile environments. New exclusive Bliley development for high temperature operation up to 185°C. may be specified for range 40 kc. to 600 kc.

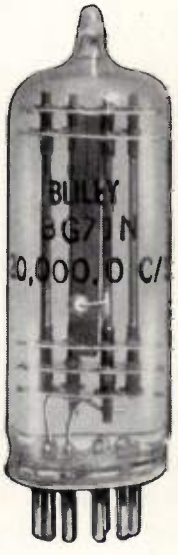
Technical bulletins are available on the complete line of Bliley products. Request information on your specific requirements.

HIGH STABILITY CRYSTALS

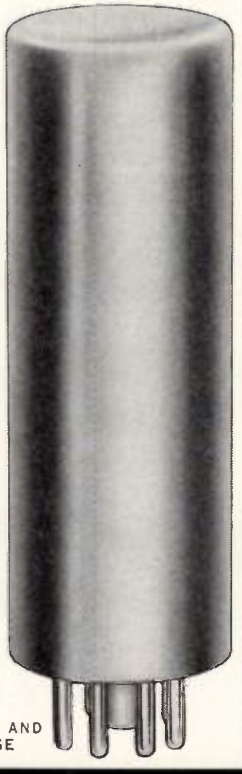


BG6 SERIES

Vacuum mounting and special processing combine high stability with minimum aging in Bliley's sealed-in-glass series. These advanced designs for frequency range 4 kc. to 125 mc are ideal where precision performance and long term reliability are premium considerations. Supplied with temperature control ovens (Bliley types BTC-2 or TCO-11C) where required.



BG7 SERIES


BTC-2 CRYSTAL AND OVEN PACKAGE

CRYSTAL OVENS


TCO-1 SERIES

Oven Type	For Use With Bliley Crystals	Stability	Operating Voltages
BTC-2	Supplied only complete with BG6 Crystal	±0.5°C.	6.3 or 26.0
TCO-11 Series	BG6 or BG7 Series	±0.25°C.	115
TCO-14 Series	2-BH6A	±2°C.	6.3, 12.6 or 26.5
TCO-2L	2-BH9A	±4°C.	6.3 or 12.6

BLILEY BUILDS COMPONENT OVENS FOR TRANSISTORS, COILS AND OTHER CIRCUIT ELEMENTS REQUIRING TEMPERATURE STABILIZATION.

TCO-11 SERIES



Bliley CRYSTALS

BLILEY ELECTRIC COMPANY UNION STATION BUILDING **ERIE, PENNSYLVANIA**

For details, circle #273 on Reader Service Card

Directory II. Components

32. Cores & Core Materials.

Rotating Components, Inc., 269 Green St., Brooklyn 22, N.Y., 15
See ad on page 294
Tel: EVergreen 9-3490

Sangamo Electric Co., Ill., 35

Saxonburg Ceramics, Pa., 5

Saxton Products, Inc., 1661 Boone Ave., New York 60, N.Y., 10
See ad on page 531
Tel: WYandotte 1-0120

Siemens & Halske A.G., Germany, 10

Stackpole Carbon Co., Pa., 10, 20

Standard Electrical Prods. Co., Ohio, 30, 35

Star Porcelain Co., N.J., 5

Steward Mfg. Co., D. M., Tenn., 5, 10, 35

Superex Electronics Corp., N.Y., 10

Superior Steatite & Ceramic Corp., 89 W. Forest Ave., Englewood, N.J., 5
See ad on page 533
Tel: LOwell 8-4555

Sylvania Electric Products Inc., Microwave Physics Lab., 500 Evelyn Ave., P.O. Box 1296, Mountain View, Calif., 10
See ad on page 28
Tel: YOrkshire 8-0051

Telectro Industries Corp., N.Y., 25

Telemeter Magnetics, Inc., 2245 Pontius Ave., Los Angeles 64, Calif., 10
See ad on page 232
Tel: GRanite 7-4211
BRadshaw 2-0991

Thermo Materials, Inc., Calif., 5, 10

Thomas & Skinner, Inc., 1125 E. 23rd St., Indianapolis 7, Ind., 15, 30
See ad on page 358
Tel: WAlnut 3-2448

Thor Ceramics, Inc., 225 Belleville Ave., Bloomfield, N.J., 5
See ad on page 532
Tel: PIlgrim 3-7797

Trimount Plastic Co., Inc., Mass., 15

United Insulator Div., Telegraph Condenser Co., Ltd., England, 5

United Mineral & Chemical Corp., 16 Hudson St., New York 13, N.Y., 5
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Tel: BEekman 3-8870

U.S. Engineering Co., Calif., 10

Wah-Chang Corp., N.Y., 25

Waterbury Companies, Inc., Conn., 15

Westinghouse Electric Corp., Pa., 15, 35

Williams & Co., C. K., 20

Yale & Towne Mfg. Co., Powdered Metal Div., Ill., 10, 35



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Counters: See class 70

Couplings: See class 66

Crystal testers: See class 72

33. Crystals & Accessories.

5. Crystal holders
10. Crystal ovens
15. Germanium
20. Oscillating quartz crystals
25. Piezo electric
30. Raw quartz
35. Silicon

Accurate Specialties Co. Inc., N.Y., 15, 35

Aircom, Inc., N.J., 5

Alden Products Co., 9140 N. Main St., Brockton 64, Mass., 5
See ad on page 319
Tel: BRockton 160

American Electronic Labs., Inc., Pa., 5

American Lava Corp., Subs. of Minnesota Mining & Mfg. Co., Cherokee & Mfrs. Rd., Chattanooga 5, Tenn., 25
See ad on page 2
Tel: AM 5-3411

Amersil Quartz Div., Engelhard Industries, Inc., 685 Ramsey Ave., Hillside, N.J., 30, fused quartz & silica in all shapes & forms
See ad on page 166
Tel: MUrdock 8-4500

Automatic Metal Products Corp., 323 Berry St., Brooklyn 11, N.Y., 5
See ad on page 318
Tel: EVergreen 8-0364

Bassett, Inc., R., Fla., 20, 25

Bliley Electric Co., 200 Union Station Bldg., Erie, Pa., 10, 20, 25
See ads on pages 334, 339
Tel: ERie 2-2287

Bodnar Industries, Inc., N.Y., 20

Bomac Labs., Inc., Salem Rd., Beverly, Mass., 35
See ad on pages 64-65
Tel: WAlker 2-6000

Bram Metallurgical Chem. Co., Pa., 15, 35

Braun Tool & Instrument Co. Inc., H., N.J., 5

Breon Labs., Pa., 5, 10, 20, 25, 30

Bulova Watch Co., Electronics Div., Dept. DA-776, 40-06 62nd St., Woodside 77, N.Y., 10, 20, 25
See ad on page 336
Tel: NEwtown 9-5700

Burnett Radio Co., W. W. L., Calif., 5, 10, 20, 25

Canadian GE Co. Ltd., Canada, 5, 10, 15, 20, 25, 35

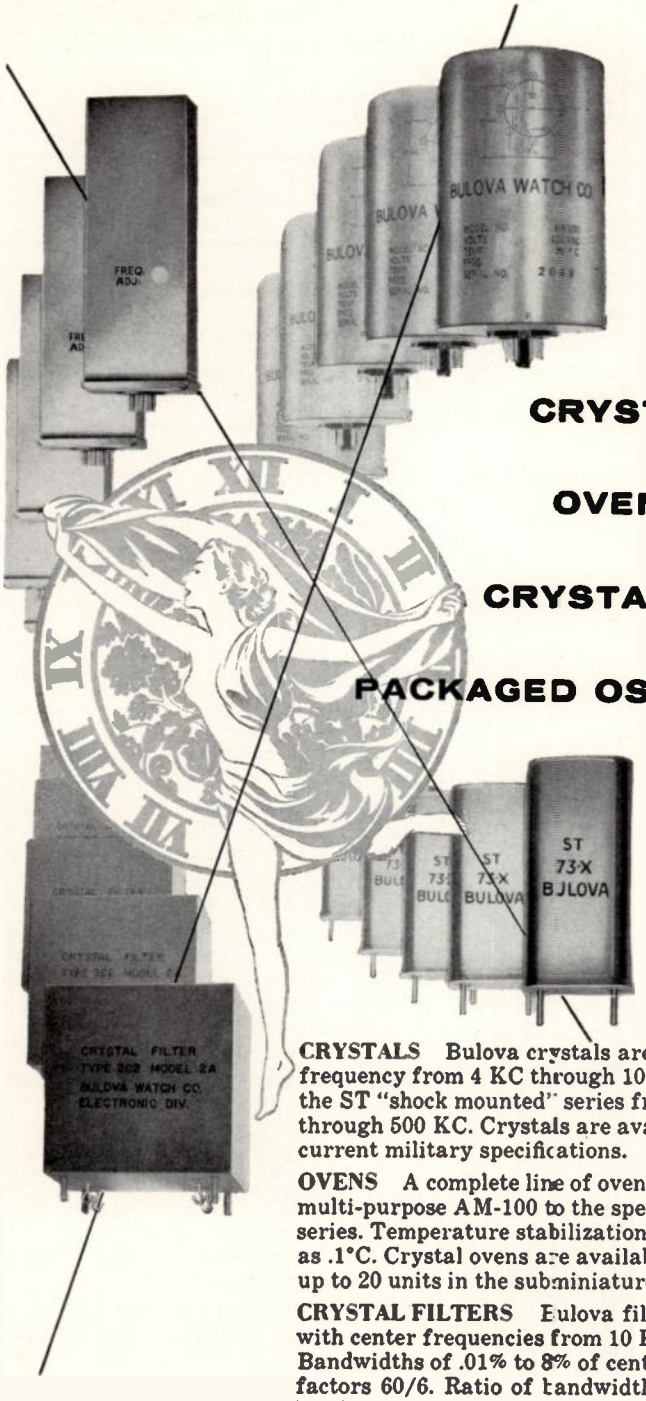
Carman Labs., Inc., Mass., 35

Clark Crystal Co., Mass., 10, 20, 25

Clevite Electronic Components, Ohio, 25

Coaxial Connector Co., Inc., N.Y., 5

Constantin & Co., L. L., N.J., 5



CRYSTALS

OVENS

CRYSTAL FILTERS

PACKAGED OSCILLATORS

CRYSTALS Bulova crystals are available for any frequency from 4 KC through 100 mc. Featured are the ST "shock mounted" series from 16 KC through 500 KC. Crystals are available to meet all current military specifications.

OVENS A complete line of ovens from the multi-purpose AM-100 to the specific application BHC series. Temperature stabilization can be held as close as .1°C. Crystal ovens are available which will hold up to 20 units in the subminiature series.

CRYSTAL FILTERS Bulova filters can be supplied with center frequencies from 10 KC through 20 mc. Bandwidths of .01% to 8% of center frequency. Slope factors 60/6. Ratio of bandwidth at 60 db to bandwidth of 6 db as steep as 1.4/1 with single sideband filters having greater slope.

PACKAGED OSCILLATORS A complete range of frequencies from 8 KC through 70 mc is available as tube type or transistorized oscillators. The Bulova OS-1 (picture above) will maintain an accuracy of .0012% over −55°C. to +80°C. ambient. This tube type oscillator is available from 180 KC through 50 mc.

Bulova "custom engineering" services are available to fulfill your every frequency control requirement.

BULOVA

watch company

Electronics Division
Woodside 77, N.Y.

Write Dept. DA-776
For Full
Information & Prices

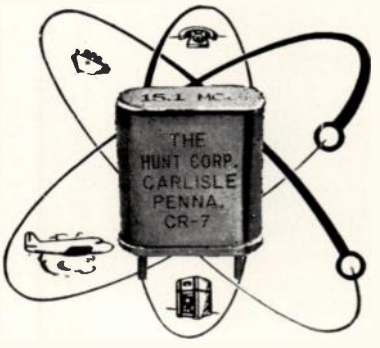
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33. Crystals & Accessories.

Cox & Co., Inc., N.Y., 10
DX Radio Prods. Co., Ill., 20, 25
Dallons Labs., Inc., Calif., 20, 25, 30
Dell Optics Co., Ltd., 327 55th St., West New York, N.J., 25, 30
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Tel: UNion 7-1599
Delta-F Inc., Ill., 10, 20, 25
Derf Radio Co., N.Y., 15
Diamond Antenna & Microwave Corp., Mass., 5
Downing Crystal Co., Md., 10, 20
Electric Specialty Co. of Md., Md., 5, 10, 30
Empire Devices Products Corp., 37 Prospect St., Amsterdam, N.Y., 5
See ad on page 462
Tel: VIctor 2-8400
Enflo Corp., N.J., 5 Teflon
Engelhard Industries, Inc., 113 Astor St., Newark 2, N.J., 30, fused quartz
See ad on page 166
Tel: BIgelow 3-0030
Erie Resistor Corp., 644 W. 12th St., Erie 6, Pa., 25
See ad on pages 62-63
Tel: ERie 2-1481
Erwood, Inc., Ill., 10
General Crystal Co., Inc., Wis., 5, 10, 20, 25, 30
General Electric Co. Specialty Electronic Components Dept., N.Y., 25
General Radio Co., 275 Massachusetts Ave., Cambridge 39, Mass., 25
See ad on Cover 4
Tel: TRowbridge 6-4400

STABILITY

HUNT CR-7 CRYSTAL



Miniature Type CR-7
Crystal Unit

(Illustration is actual size)

THE **Hunt** CORPORATION

CARLISLE 2, PENNSYLVANIA

For details, circle #276 on Reader Service Card

Directory II. Components

33. Crystals & Accessories.

Glass-Tite Industries, Inc., R.I., 5
Gordon, Herman L., D.C., 5, 10, 20, 25, 30
Grace & Co., W. R., Md., 35, Extra Pure
Grieve-Hendry Co., Ill., 10
Hermetite Corp., Mass., 5
Hill Electronic Engrg. & Mfg. Co., Inc., Pa., 10, 20, 25

Hoffman Co., P. R., 321 Cherry St., Carlisle, Pa., 20, 25, 30
See ad on this page
Tel: CArlisle 1090

Hunt Corp., 453 Lincoln St., Carlisle 2, Pa., 10, 20, temp. controlled ovens
See ad on page 336
Tel: CArlisle 1486

Hupp Electronics Co., Pa., 10, 20, 25

Hycon Eastern, Inc., Dept. B, 75 Cambridge Parkway, Cambridge 42, Mass., 20, 25
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Tel: UNiversity 4-7200

Indium Corp. of America, N.Y., 15
Intelex Systems, Inc., N.Y., 20
International Crystal Mfg. Co., Inc., Okla., 20
Javex, Calif., 5
Johnson Co., E. F., Minn., 5
Kemtron Electron Prods. Inc., Mass., 15, 35

CUTTING AND LAPPING YOUR PROBLEM?

We have the answers on cutting and lapping of

GERMANIUM
SILICON
QUARTZ
and other materials

Manufacturers of Quartz Crystals and Processing Machinery since 1938. Our wide experience on semiconductor materials available.

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P. R. HOFFMAN CO.
321 CHERRY STREET
CARLISLE — PENNA.

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Keystone Electronics Co., N.J., 10, 20, 25

Knights Co., James, 101 E. Church St., Sandwich, Ill., 10, 20, crystal filters
See ad on page 338
Tel: 2141

Lavoie Labs., Inc., Matawan-Freehold Rd., Morganville, N.J., 10
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Tel: MAtawan 1-2600

Lewis Co., Inc., E. B., Conn., 20
Mackay, Inc., N.Y., 15, 30, 35

Manson Laboratories, Inc., 207 Greenwich Ave., Stamford, Conn., 10
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Tel: DAvis 5-1391

McCoy Electronics Co., Chestnut and Watts St., Mt. Holly Springs, Pa., 5, 10, 20, 25
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Tel: HUnter 6-3411

Merck & Co., Inc., Dept. ES-2, Lincoln Ave., Rahway, N.J., 35
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Meridian Metalcraft, Inc., Calif., 5
Micarta Fabricators, Inc., Ill., 5

Microlab, 71 Okner Parkway, Livingston, N.J., 5, 10
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Midland Mfg. Co., Inc., Kansas, 10, 20, 25
Miller Labs., August E., N.J., 10, 20, 25
Monitor Products Co., Calif., 5, 10, 20, 25
Motorola, Inc., Ariz., 15, 20, 25, 30, 35
National Aircraft Corp., Calif., 15, 35
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National Fabricated Prods., Ill., 5
Nebel Laboratory, N.Y., 5, 20, 25
New London Instrument Co., Conn., 10
Northeast Electronics Corp., N.H., 5
Northern Electric Co., Ltd., Canada, 15
Northern Electronic & Vacuum Industries, Canada, 25
Northern Engineering Labs., Inc., Wis., 10, 20
Petersen Radio Co., Inc., Iowa, 25
Philco Corp., Government & Industrial Div., Pa., 15, 35
Premier Research Labs., Inc., N.Y., 5, 10, 20, 25
Reeves-Hoffman Div., Pa., 5, 10, 20, 25
Remler Co., Calif., 5
Rixon Electronics, Inc., Md., 10
Robertshaw-Fulton Controls Co., Calif., 10
Rogers Electronic Tubes & Components, Canada, 15, 20, 35
Sage Laboratories, Inc., Mass., 5

Scientific Electronic Labs., Inc., 866 Bergen St., Newark 8, N.J., 5
See ad on page 591
Tel: BIgelow 3-8675

Scientific Radio Products, Inc., Neb., 10, 20, 25
Scientific Radio Service, Md., 20
Semi-Elements, Inc., Pa., 15, 35, Scintillation Crystals

Sherold Crystals, Inc., Truman Road & McGee Trafficway, Kansas City 8, Mo., 5, 10, 20, 25
See ad on page 339
Tel: VIctor 2-9792

Solar Mfg. Corp., Calif., 25
Solid State Prods., Inc., Mass., 35
Standard Crystal Co., Mo., 5, 10, 20, 25
Staver Co., Inc., The, N.Y., 5

Stevens Mfg. Co., Inc., P.O. Box 1007 Annex, Mansfield, Ohio, Crystal oven Thermostats
See ad on page 216
Tel: TUxedo 4-1311

Stimpson Co., Inc., Edwin B., N.Y., 10
Sturrup, Inc., Conn., 25

Sylvania Electric Products, Inc., 1740 Broadway, New York 19, N.Y., 15, 35
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Tel: JUdson 6-2424

Telerad Mfg. Corp., N.Y., 5
Texas Crystals, Div. of Westronix Corp., Ill., 5, 20
Thermal American Fused Quartz Co., N.J., Fused Quartz
Thermosen, Inc., Conn., 35
United Insulator Div., Telegraph Condenser Co., Ltd., England, 25
United States Dynamics Corp., Mass., 35

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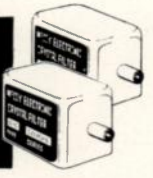
McCoy

Quality QUARTZ CRYSTALS



Standard of excellence for the crystal industry. Produced in frequencies from 500 k.c. to 200 m.c. to meet government or your own specifications. Standard size or Subminiature; Glass or Metal Cases; Plug-in or wire leads.

Quality CRYSTAL FILTERS



from 10 m.c. to 30 m.c., with band width of 0.1% to 0.3% of center frequency.

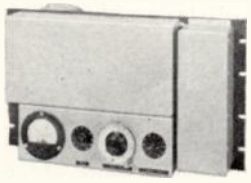
For additional information on your specific needs, write, wire or phone us. Our research section will be glad to assist you.

McCoy ELECTRONICS COMPANY
Mt. Holly Springs, Pa.
Phone: HUnter 63411

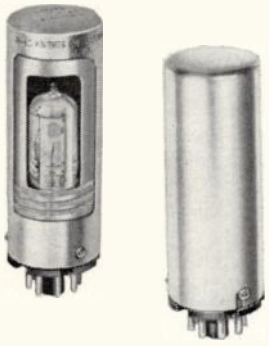
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JK PRODUCTS

PACKAGED FREQUENCY MANAGEMENT

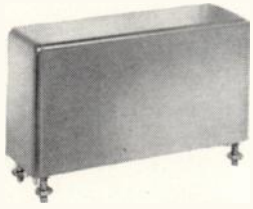


JK Sulzer Frequency Standard: For your most precise laboratory measurements, the JK SULZER 1 megacycle Frequency Standard provides stability of better than 1 part in 10^9 per day. Frequency is variable over a range of 0.9 cycles or more, and capable of being reset to 5 parts in 10^{10}.

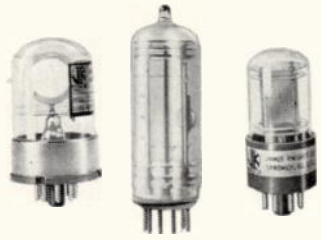


JK Thermystal: An advanced-design frequency control unit combining plug-in simplicity with extreme precision. ***Frequency stability:*** 30 to 900 kc, ±.0001%; 1000 kc to 150 mc, ±.00005%.

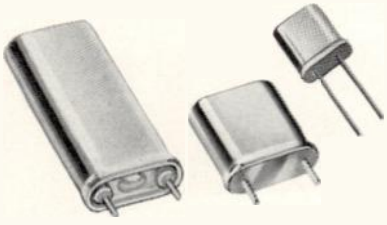
JK Transistor Oscillator: Complete, compact, precise plug-in signal source providing fixed temperature and humidity environment for transistor and circuitry elements. ***Frequency stability:*** (24-hr. period) 1 part in 10^6.



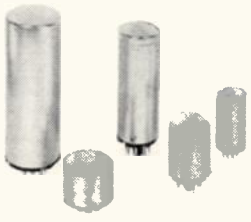
JK Crystal Filters: Compact, rugged, hermetically-sealed and stable, JK CRYSTAL FILTERS (band pass filters) have a ***Frequency Range:*** 1 mc to 17.5 mc., and are available for special filtering purposes to 150 mc. ***Band Width*** at 6 db: 0.0% to 4% of nominal on all frequencies, and up to 12% for certain frequencies.



JK Glasline Crystals: For ultra stable frequency control, JK GLASLINE CRYSTALS provide unprecedented stability and reliability. Compact, evacuated and hermetically-sealed against moisture, contamination, shock, and barometric pressure. Over a complete range at 800 cycles to 5 mc. and up



JK Military Types: Hermetically-sealed, JK MILITARY TYPE CRYSTALS are metal-cased and in ***Frequency Ranges:*** 16 kc to 100 mc.



JK Ovens: Capable of maintaining set temperatures around components or circuitry with less than ±1° C. variation over the range of −55° to +100° C., JK OVENS are light, compact, inexpensive, uniform and reliable.

THE JAMES KNIGHTS COMPANY—SANDWICH, ILLINOIS

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DELAY LINES CONTINUOUSLY VARIABLE AND FIXED

TAPPED DELAY LINES — 4T, 6T, 7T, 8T, and 9T:
Impedance: 50 ohms to 2000 ohms. Delay: 0.1 us to 100 us.
Rise Time: Less than 4% of the total time delay. Meet MIL specifications.

STEP VARIABLE DELAY LINES — Type 601-2-3 Series:
Equal input and output impedance. Total time delay up to 27 us. Rise time better than 5% of the total time delay.

Type 7T or 505

CONTINUOUSLY VARIABLE DELAY LINES:
Type 500 Series: Resolution time less than 8×10^{-11} second. Total time delay up to 1 us.
Type 521 & 801 Series: Resolution time less than 8×10^{-11} second. Total time delay up to 1000 us. Rise time less than 5% of the total time delay.

AD-YU ELECTRONICS LAB., INC.
Formerly ADVANCE
249 Terhune Ave., Passaic, N. J.

PHASE METERS

0.0001 CPS TO 500 MC

Type 405 Series: Direct reading in degrees. Accuracy ¼° relative, 1° absolute. Type 405 — 8 cps to 100 kc; **Type 405H** — 8 cps to 500 kc; Type 405L — 1 cps to 20 kc.

Type 202 Vectorlyzer: 1° full scale sensitivity, accuracy 2%; 15 cps to 500 mc.

Phase Indicator, Type 205 and 205A: Accuracy 0.1°; 100 kc to 15 mc.

Type 410: Tubeless, transistorless; direct reading in degrees.

Type 405

Type 208: Accuracy 0.1°; continuously variable from 0 to 360°.

Type 206: Measures time interval down to 8×10^{-11} second.

For details, circle #280 on Reader Service Card

Directory II. Components

33. Crystals & Accessories.

U.S. Semiconductor Products, Inc., Arizona, 35, Ingot
Valpey Crystal Corp., Mass., 10, 20, 25
Vemaline Products Co., N.J., 5
Waldom Electronics, Inc., Ill., 5
Waterbury Companies, Inc., Conn., 5
Wright Electronics, Inc., Mo., 10, 20, 25

Cutting heads & styli: See class 49

Decades: See class 69

Deflection yokes: See class 29

Page numbers on which ads appear are shown in each listing for advertisers in this issue. Be sure to consult these ads for facts, prices, specifications and suggested applications.

34. Delay Lines.

5. Decade
10. Distributed constant fixed
15. Distributed constant variable
20. Lumped constant fixed
22. Lumped constant variable
25. Ultrasonic

Ace Coil & Electronics Co., N.J., 10, 20

Ad-Yu Electronics Lab., Inc., 249 Terhune Ave., Passaic, N.J., 5, 10, 15, 20, 22
See ad on page 338
Tel: GRegory 2-5622

Aerocoil, Inc., N.J., 20
Aeromotive Equip. Corp., Mo., 20
Aeronca Research Div., Md., 5, 10, 15, 20, 22, 25
Air Associates, Calif., 20
Aladdin Electronics, Tenn., 10

All-Tronics, Inc., 45 Bond St., Westbury, L.I., N.Y., 5, 20
See ad on page 345
Tel: EDgewood 3-3090

Andersen Labs., Inc., 501 New Park Ave., West Hartford 10, Conn., 25
See ad on this page
Tel: ADams 3-4491

Arenberg Ultrasonic Lab., Inc., 94 Green St., Jamaica Plain 30, Mass., 25
See ad on page 277
Tel: JAmaica 2-8640



LET SHEROLD SOLVE
YOUR CRYSTAL PROBLEMS

Complete, advanced engineering laboratory is at your disposal.

Whether your need is for one special frequency crystal—or thousands, you can be assured of quality manufacture and unexcelled performance when you specify Sherold . . . now one of the country's largest exclusive producers of crystals for military and commercial requirements.

Write for complete data on your requirements.

Sherold Crystals inc.

Phone Victor 2-9792
Truman Road & McGee Trafficway
Kansas City, Mo.

For details, circle #281 on Reader Service Card

SOLID
ULTRA-SONIC
DELAY
LINES

Production quantities and prototype development of both fixed and variable lines.

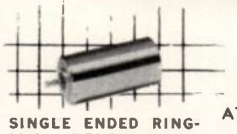
Complete range of length to customers' specifications for *radar* and computer applications.

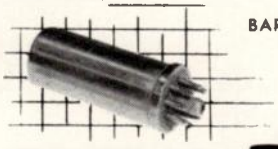
andersen Laboratories INCORPORATED
ADams 3-4491

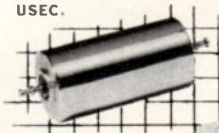
501 NEW PARK AVENUE,
WEST HARTFORD 10, CONN.
For details, circle #282 on Reader Service Card

BLILEY
SOLID ULTRASONIC
DELAY LINES

3 to 4500 MICROSECONDS


SINGLE ENDED RINGING: DELAY TIME: 6.10 USEC.


TEMPERATURE CONTROLLED SINGLE ENDED: DELAY TIME 13.34 USEC.


DOUBLE ENDED RINGING: DELAY TIME: 6 USEC.


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Bliley
BLILEY ELECTRIC COMPANY
UNION STATION BLDG. • ERIE, PA.

For details, circle #283 on Reader Service Card

BREW DELAY LINES

. . . designed to your

SPECIFICATIONS

LUMPED CONSTANT

DISTRIBUTED CONSTANT

ULTRASONIC



BREW'S experienced personnel can solve your Delay Line Problems.

- Competent Engineers
- Latest Testing Equipment
- Modern Assembly Line
- Special Prototype Equipment
- Quality Control on Short or Long Runs

Founded in 1946 for design, development and manufacture of delay lines.

Brew offers you the "one source" for Distributed Constant, Lumped Constant, and Ultrasonic Delay Lines. You and your product will benefit from Brew's modern and complete production facilities, pioneer experience, and complete cooperation from our personnel.

BREW **Richard D. Brew and Company, Inc.**

Concord, New Hampshire

design • development • manufacture

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MiniLines

The new miniaturized encapsulated delay lines.

MAGNETIC-CORE DELAY LINES

Excellent transmission fidelity.

DELAY-LINE FLATS

New elliptical core design offers wide range of characteristics.

Our Delay Lines are being used by leading manufacturers of commercial and military electronic equipment.

COLUMBIA TECHNICAL CORP.

61-02 Thirty-First Ave. — Woodside 77, N. Y.

For details, circle #285 on Reader Service Card

Directory II. Components

34. Delay Lines.

Auerbach Electronics Corp., Pa., 20
Barker & Williamson, Inc., Pa., 10, 20
Bayly Engrg. Ltd., Canada, 10, 20
Beckman/Helipot Corp., Calif., 15
Bel Fuse, Inc., 311 Mountain Rd., Union City, N.J., 10
See ad on this page
Tel: UNion 6-5416
Bliley Electric Co., 200 Union Station Bldg., Erie, Pa., 25
See ads on pages 334, 339
Tel: ERie 2-2287
Brew & Co., Inc., Richard D., 90 Airport Rd., Concord, N.H., 5, 10, 15, 20, 22, 25
See ad on page 340
Tel: CApitol 5-6606
Brooks Research, Inc., N.Y., 5, 15, 22
Brubaker Electronics Inc., Calif., 20
Burnell & Co., Inc., Dept. P, 10 Pelham Pkwy., Pelham, N.Y., 5, 20
See ad on pages 74-75
Tel: PElham 8-5000
Cambridge Thermionic Corp., 440 Concord Ave., Cambridge 38, Mass., 20, 22
See ad on page 545
Tel: TRowbridge 6-2800
Celco-Constantine Engineering Labs. Co., 70 Island Ave., Mahwah, N.J., 10, 20
See ads on pages 66-67; 128-129
Tel: DAvis 7-1123
Coil Winders, Inc., N.Y., 20, 22
Coilcraft, Inc., Ill., 10, 20
Columbia Technical Corp., 61-02 31st Ave., Woodside 77, N.Y., 10
See ad on page 340
Tel: AStoria 8-7401
Communication Accessories Co., Hwy. 50 & 71 Bypass, Lee's Summit, Mo., 20
See ad on pages 57-60
Tel: (Kansas City) BRoadway 1-1700
Communication Parts, Ill., 10, 20
Consolidated Electrodynamics Corp., Calif., 10, 20
Constantine Eng. Labs. Co., See Celco.
Continental Electronics Mfg. Co., Texas, 15
Control Electronics Co., Inc., 10 Stepar Pl., Huntington Station, L.I., N.Y., 5, 10, 15, 20, 22
See ads on pages 343, 507
Tel: HAmilton 7-7961
Corona Engrg. Service, N.Y., 20
DX Radio Prods., Co., Ill., 25
Dallons Labs., Inc., Calif., 25
Daven Co., N.J., 5, 10, 15, 20, 22
Dell Optics Co., Ltd., 327 55th St., West New York, N.J., 25
See ad on page 558
Tel: UNion 7-1599
Deltime, Inc., N.Y., 10, 15, 20, 22
Deutschmann Corp., Tobe, Providence Highway, Norwood, Mass., 20
See ad on page 300
Tel: NOrwood 7-2620
Develop Electronics Corp., Calif., 10, 15, 20, 22
Digitronics Corp., Albertson Ave., Albertson, L.I., N.Y., 5, 10, 15, 22
See ad on page 343
Tel: PIoneer 7-5090
Double E Prods. Co., Calif., 20
E M I Electronics Ltd., England, 10, 20
ESC Corp., 534 Bergen Blvd., Palisades Park, N.J., 5, 10, 15, 20, 22
See ad on page 342
Tel: WIndsor 7-0400
Elliott Bros. Ltd., England, 10, 25
El-Rad Mfg. Co., Ill., 10, 20
Enslein, K., N.Y., 5
Epsco Components, Mass., 5, 20, 22, 25
Essex Electronics, 550 Springfield Ave., Berkeley Heights, N.J., 10, 20
See ad on page 178
Tel: CRestview 3-9300
Ferranti Electric Inc., N.Y., 20, 25
Filtron Co., Inc., N.Y., 10, 15, 20, 22
Forbes & Wagner, Inc., N.Y., 10, 20
Fugle-Miller Labs., Inc., 301 Central Ave., Clark, N.J., 10, 20
See ad on page 313
Tel: FUlton 1-2727
General Electric Co. Spec. Electr. Comp. Dept., N.Y., 10, 15, 20, 22, Wire Sonic
General Instrument Corp., Automatic Mfg. Div., N.J., 5, 10, 15, 20, 22, 25

DISTRIBUTED CONSTANT
DELAY LINES
by
BEL
Serving the Electronic Industry

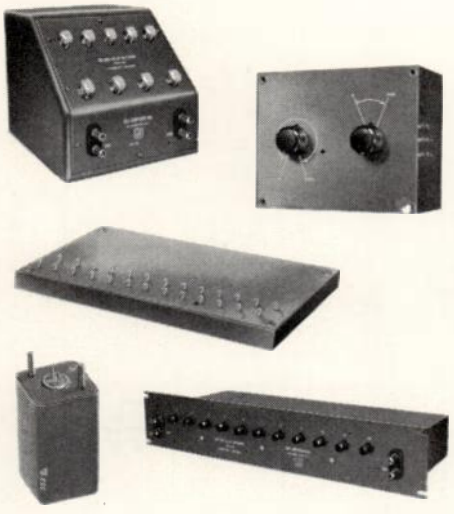
- DELAY LINES
- FUSIBLE SURGE LIMITERS
- BELIMITERS AND KEMFUSES
- HERMETICALLY SEALED FUSES
- PRECIOUS METAL PAINTS
- PRECISION METALIZING FOR ELECTRONICS

BEL FUSE INC.
311 MOUNTAIN ROAD
UNION CITY, N. J.

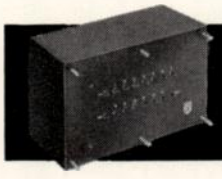
Part #	Delay ± 5%	Impedance ± 10%	Rise Time (Maximum)	Length inch.	O.D. inch.
2-05	.05 usec	200 ohms	.05 usec for delay of .3 usec	1½"	.375"
2-1	.1			2½"	
2-15	.15			3½"	
2-2	.2			4¾"	
2-25	.25			5¾"	
2-3	.3			6"	
3-1	.1 usec	300 ohms	.055 usec for delay of .45 usec	1¾"	.325"
3-2	.2			3¾"	
3-3	.3			4"	
3-4	.4			5⅜"	
3-45	.45			6"	
5-1	.1 usec	500 ohms	.09 usec for delay of 1.0 usec	1⅛"	.325"
5-2	.2			1¾"	
5-3	.3			2¼"	
5-4	.4			3"	
5-5	.5			3¼"	
5-6	.5			3¾"	
5-7	.7			4¼"	
5-8	.8			5"	
5-9	.9			5¾"	
5-10	1.0			5⅞"	
10-1	.1 usec	1000 ohms	.09 usec for delay of 1.0 usec	1⅛"	.325"
10-2	.2			1¾"	
10-3	.3			2¼"	
10-4	.4			3"	
10-5	.5			3¼"	
10-6	.6			3¾"	
10-7	.7			4¼"	
10-8	.8			5"	
10-9	.9			5¾"	
10-10	1.0			5⅞"	
10-11	1.1			6"	
12-1	.1 usec	1200 ohms	.09 usec for delay of 1.0 usec	1¼"	.325"
12-2	.2			1¾"	
12-3	.3			2½"	
12-4	.4			3"	
12-5	.5			3¾"	
12-6	.6			4¼"	
12-7	.7			4¾"	
12-8	.8			5½"	
12-9	.9			6"	
12-10	1.0			6¼"	
18-1	.1 usec	1800 ohms	.09 usec for delay of 1.0 usec	1¼"	.325"
18-2	.2			1¾"	
18-3	.3			2½"	
18-4	.4			3"	
18-5	.5			3¾"	
18-6	.6			4¼"	
18-7	.7			4¾"	
18-8	.8			5½"	
18-9	.9			6¼"	
18-95	.95			6¼"	
25-1	.1 usec	2500 ohms	.07 usec for delay of .7 usec	1¼"	.325"
25-2	.2			2¼"	
25-3	.3			3¼"	
25-4	.4			4"	
25-5	.5			4¾"	
25-6	.6			5½"	
25-7	.7			6¼"	
25-75	.75			6¼"	

For details, circle #286 on Reader Service Card

ESC . . . WORLD LEADER IN CUSTOM-BUILT DELAY LINES!



- *1st in sales*
- *1st company devoted exclusively to the manufacture of custom-built delay lines*
- *1st in research, design, development of custom-built delay lines, variable delay lines, continuously variable delay lines*
- *1st to submit the most definitive laboratory reports with all prototypes*



ESC is the manufacturer of the remarkable Delay Line Model 51-43 – a totally new Delay Line with a 145 to 1 delay-to-rise-time ratio. Write for complete data.

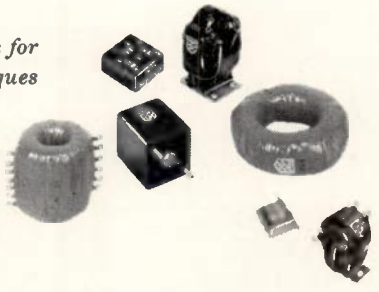
CUSTOM-BUILT and STOCK PULSE TRANSFORMERS

medium and low-power transformers
filters of all types • pulse-forming networks
miniature plug-in encapsulated circuit assemblies

Every prototype delay line and pulse transformer report you receive from ESC includes submitted electrical requirements, photo-oscillograms (which indicate input and output pulse shape and output rise-time), the test equipment used, and an evaluation of the electrical characteristics of the unit. You can be sure that ESC specifications are at once realistic and economical, particularly aimed at eliminating costly, time-consuming overspecification.

Write today for literature and technical data.

exceptional employment opportunities for engineers experienced in pulse techniques



ESC CORPORATION

534 Bergen Boulevard, Palisades Park, New Jersey

For details circle #287 on Reader Service Card

Directory II. Components

34. Delay Lines.

General Radio Co., 275 Massachusetts Ave., Cambridge 39, Mass., 15
See ad on Cover 4
Tel: TRowbridge 6-4400

Gilfillan Bros. Inc., Calif., 10

Gray & Kuhn, Inc., N.Y., 10, 20

Gudeman Co., Dilectron Div., Calif., 10, 20

Gudeman Co., 340 W. Huron St., Chicago 10, Ill., 10, 20
See ad on page 302
Tel: DE 7-7400

Helipot Corp., Calif., 15

International Resistance Co., Pa., 10, 15, 20

International Telemeter Corp., Calif., 10

Jacobs Instrument Co., Md., 5, 20, 22

L & O Research & Development Corp., Pa., 10, 20, 22

Laboratory For Electronics, Inc., Mass., 25

Litton Industries, Md., 5

Litton Industries, Components Div., Calif., 10

Meridian Metalcraft, Inc., Calif., Microwave

Micamold Electronics Mfg. Corp., N.Y., 20

Micropulse Engrg., Calif., 5, 10, 20, 22

Microsonics, Inc., Mass., 25

Millen Mfg. Co., Inc., James, 150 Exchange St., Malden 48, Mass., 5, 10, 20
See ad on page 314
Tel: DA 4-4108

Model Engineering & Mfg., Inc., Ind., 20

NYT Electronics, Inc., Calif., 10, 20

North Atlantic Industries, Inc., N.Y., 10

Orbitran Co., Inc., Calif., 5, 20

PCA Electronics, Inc., Calif., 10, 15, 20, 22

Packard-Bell Electronics, 12333 W. Olympic Blvd., Los Angeles 64, Calif., 10, 15, 20, 22
See ad on page 204
Tel: BRadshaw 2-2171

Philco Corp., Government & Industrial Div., Pa., 20, 22

Polyphase Instrument Co., Pa., 10, 15, 20

Rank Cintel Ltd., England, 5

Redman Electronics Corp., 90 Prospect St., Thompsonville, Conn., 20
See ad on page 315
Tel: RIverview 5-8024

Rixon Electronics, Inc., Md., 10, 15, 20, 22

Sag Harbor Industries, Inc., N.Y., 5, 10, 20

Sanders Associates, Inc., N.H., 10

CUSTOM & STANDARD

Delay Lines

Control Electronics Co. Inc. is a leading designer and mass producer of electromagnetic Delay Lines. A representative group is shown here with the available ranges of delays, bandwidths and impedances. Further information is readily available from our Engineering Dept.

BUILT TO MIL SPECS. FAST PROTOTYPE SERVICE . . . DELIVERY 1 TO 3 WEEKS.

Distributed Constant Delay Lines



CEC DISTRIBUTED CONSTANT DELAY LINE FEATURES

- Lowest cost — reliable performance
- Maximum delay to rise time ratios
- Maximum delay per cubic inch
- Delays to 30 μ secs.
- Impedances: 200 to 10,000 Ω
- Bandwidths to 20 mcs
- Linear phase shift



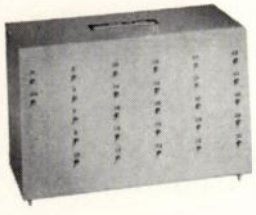
Variable Delay Lines

Infinite, incremental or decade variable delay lines available in any range of delays and impedances.



Lumped Constant Delay Lines

DELAYS TO 20,000 MICROSECONDS.
BANDWIDTHS to 500 MCS.
Zo FROM 50 TO 10,000 OHMS.



Multi-tapped Lumped Constants available in many configurations

System Delay Lines

Complete delay and pulse systems designed to your needs.



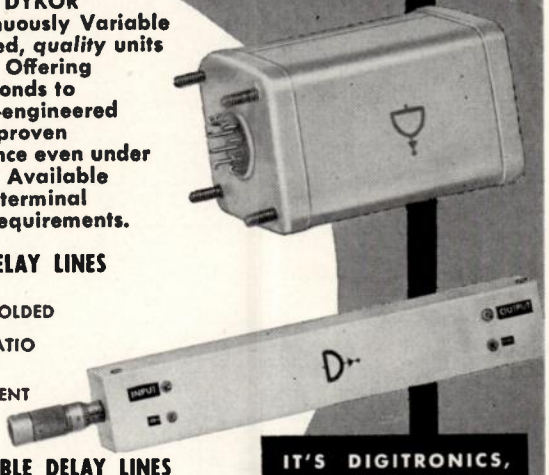
NOTE: Data Sheets on request

CONTROL ELECTRONICS CO., INC.
10 Stepar Place
Huntington Station, New York

For details, circle #288 on Reader Service Card

IF IT'S DELAY LINES YOU NEED ...

CONSULT DIGITRONICS CORP., designers and manufacturers of high reliability, minimum volume DYKOR* Lumped-Constant and Continuously Variable Delay Lines . . . custom-crafted, *quality* units at the lowest possible price. Offering delays of from milli-microseconds to multi-milliseconds, precision-engineered DYKOR Delay Lines deliver proven long life and peak performance even under the most adverse conditions. Available in delays, shapes, sizes and terminal arrangements to suit your requirements.



DYKOR LUMPED-CONSTANT DELAY LINES
FEATURING—
- HERMETICALLY SEALED, EPOXY-MOLDED OR OPEN CONSTRUCTION
- HIGHEST DELAY-TO-RISE TIME RATIO
- EXTREME ACCURACY
- WIDE TEMPERATURE RANGE
- LOWEST TEMPERATURE COEFFICIENT
- MEET ALL APPLICABLE MIL SPECIFICATIONS

DYKOR CONTINUOUSLY VARIABLE DELAY LINES
FEATURING—
- INFINITE RESOLUTION
- NO SLIDING CONTACTS
- LOWEST TEMPERATURE COEFFICIENT
- HIGHEST DELAY-TO-RISE TIME RATIO
- EXTREME ACCURACY
- GREATER VERSATILITY IN USE

IT'S DIGITRONICS, TOO, FOR DIGITAL HANDLING AND CONTROL SYSTEM DESIGN AND ENGINEERING!

*TRADE MARK

DIGITRONICS CORPORATION
Albertson Avenue, Albertson, L. I., N. Y. • PI 7-5090

Write for Quotation and new DYKOR Catalog

For details, circle #289 on Reader Service Card

34. Delay Lines.

Shallcross Mfg. Co., Selma, N.C., 10, 15, 20, 22
See ad on page 468
Tel: WOodlawn 5-2341

Sickles Div., F. W., General Instrument Corp., Mass., 10, 20

Slip Ring Co. of America, Calif., 15, 22

Stewart-Warner Electronics, Ill., 20, 22

Sturrup, Inc., Conn., 25, Delay Systems

Technitrol Engineering Co., Pa., 10, 20

Telechrome Inc., 28 Ranick Dr., Amityville, L.I., N.Y., 15, 20, 22
See ad on page 228
Tel: LIncoln 1-3600

Telecomputing Corp., Calif., 20

Telegraph Condenser Co., Ltd., England, 20

Transdyne Corp., N.Y., 25

U.S. Engineering Co., Calif., 20

United Transformer Corp., 150 Varick St., New York 13, N.Y., 20
See ad on Cover 2
Tel: ALgonquin 5-3500

Valpey Crystal Corp., Mass., Crystals, Blanks

Vanguard Electronics Co., Calif., 10, 20, 22

Weightman & Associates, Calif., 5, 10, 15, 20, 22

Western Coil Products Co., Calif., 10, 20

Wheeler Electronic Corp., Div. Sperry Rand Corp., Conn., 20

Dials: See class 87

Diodes, germanium & silicon: See class 54

Diodes, selenium: See class 50

Disks, blank recording: See class 49

Dosimeters: See class 78

Drums, magnetic: See class 70

Electro-magnets: See class 41

Electrometer tubes: See class 62

Envelopes, vacuum tube: See class 97

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35. Equalizers.

5. Dialogue equalizers
10. Line equalizers
15. Magnetic recording
20. Recording diameter equalizers
25. Sound effect equalizers

Aerovox Corp., Mass., 5, 25

American Microwave Corp., Calif., 10

Audio Development Co., Minn., 10

Blonder-Tongue Labs., Inc., N.J., 10

Centronix, Inc., Fla., 25

Chisholm Industries, Ltd., Canada, 25

Cinema Engrg. Div., Aerovox Corp., Calif., 5, 10, 15, 20, 25

Community Engrg. Corp., Pa., 10 RF

Daven Co., N.J., 10, 25

Deutschmann Corp., Tobe, Providence Highway, Norwood, Mass., 10
See ad on page 300
Tel: NOrwood 7-2620

Dunlap Electronics, Inc., Iowa, 10

E M I Electronics Ltd., England, 15, 25

Electric Motors & Specialties, Inc., Ind., Alternator

Engineered Sound Systems, Ltd., Canada, 5, 10, 25

Entron, Inc., Md., 10

Gates Radio Co., Ill., 10, 25

Glaser-Steers Corp., N.J., 10

Gray Mfg. Co., Conn., 25

Interelectronics Corp., 2432 Grand Concourse, New York 58, N.Y., 10, 15, 25
See ads on pages 268, 376
Tel: LUdlow 4-6200

International Resistance Co., Calif., 25

Kay Electric Co., Dept. ID-9, Maple Ave., Pine Brook, N.J., 25
See ad on page 516
Tel: CApital 6-4000

Lesa, S. P. A., Italy, 25

Ling Systems, Inc., Calif., 10

Magnasync Mfg. Co., Ltd., Calif., 5, 10, 15, 25

Magnecord, Inc., Ill., 15

Midwestern Instruments, Inc., Magnecord Div., Okla., 15

Northern Electric Co., Ltd., Canada, 10

Pacific Transducer Corp., Calif., 10

Presto Recording Corp., N.J., 15, 20

Pulse Techniques, Inc., N.J., 5, 20, 25

Radio Engineering Prods., Canada, 5, 10, 15, 20, 25

Railway Communications, Inc., Mo., 10

Rangertone, Inc., N.J., 5, 15

Stancil-Hoffman Corp., Calif., 5, 15

Technisonic Studios, Inc., Mo., 5, 25

Telechrome Inc., 28 Ranick Dr., Amityville, L.I., N.Y., 10
See ad on page 228
Tel: LIncoln 1-3600

Telectro Industries Corp., N.Y., 5, 10, 15, 20

Torwico Electronics Inc., 1090 Morris Ave., Union, N.J., 10
See ad on page 134
Tel: ELizabeth 4-5650

Transformer Technicians, Inc., Ill., 10

Transval Engineering Corp., Calif., 15

United Transformer Corp., 150 Varick St., New York 13, N.Y., 5, 10, 15, 20, 25
See ad on Cover 2
Tel: ALgonquin 5-3500

Fans: See class 24

Fasteners: See class 87

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36. Filters.

5. Antenna
10. Band pass & band rejection
12. Crystal
14. Equalizer
15. High pass
20. Loudspeaker dividing networks
22. Low pass
25. Mechanical
30. Microwave
35. RF noise reduction
37. SSB
40. TV noise reduction
45. UHF & VHF
50. Variable band pass

ACF Industries, Inc., N.J., 5, 30

ACF Industries Inc., Erco Div., Md., 5, 10, 15, 22, 30, 35, 45

Ace Coil & Electronics Co., N.J., 10, 15, 22

Ace Engineering & Machine Co., Inc., Pa., 35

Adams-Russell Co., Inc., Mass., 5, 45

Adler Electronics, Inc., N.Y., 5, 10, 15, 22, 50

Advance Electronics Co., Mich., 10

Aerocoil, Inc., N.J., 5

Aerovox Corp., Mass., 15, 22, 35

Aid Associates, Calif., 10, 15, 22

Airborne Accessories Corp., N.J., 10, 15, 22, 35

Airborne Instrument Lab., Inc., N.Y., 22, 30, 35

Aircom, Inc., 354 Main St., Winthrop 52, Mass., 5, 10, 30, 45
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Tel: OCean 3-3096

Aircom, Inc., N.J., 30

Airdesign Corp., Pa., 10, 15, 22

Airtron, Inc., Dept. I, 1106 W. Elizabeth Ave., Linden, N.J., 30
See ad on page 454
Tel: HUnter 6-1000

Aladdin Electronics, Tenn., 22

Alert Products, Inc., N.J., 10, 15, 22, 37

Alford Mfg. Co., Inc., 299 Atlantic Ave., Boston 10, Mass., 22
See ad on page 245
Tel: HAncock 6-2150

Allen Bradley Co., Wis., 22, 45

All-Tronics, Inc., 45 Bond St., Westbury, L.I., N.Y., 5, 10, 15, 22, 35, 37, 40, 45
See ad on page 345
Tel: EDgewood 3-3090

American Communications Corp., N.Y., 20

American Electronic Labs., Inc., Pa., 5, 10, 15, 22, 30

American Electronics Co., N.Y., 5, 10, 15, 22, 35, 40

American Printed Circuits, Co., N.J., 30

American Research & Mfg. Corp., Md., 10, 15, 22

Amtron Corp., Mass., 5, 10

Applied Research, Inc., 76 S. Bayles Ave., Port Washington, L.I., N.Y., 5, 10
See ad on page 276
Tel: POrt Washington 7-8707

Ark Engrg. Co., Pa., 5, 10, 22, 35

Arrow Radio Co., Ont., Canada, 35

Astron Corp., 255 Grant Ave., East Newark, N.J., 10, 15, 22, 35, 40
See ad on page 144
Tel: HUmboldt 2-7800

Atomitron, Inc., N.Y., 5, 30

Audio Develop. Co., Minn., 10, 14, 15, 22

Automatic Metal Products Corp., 323 Berry St., Brooklyn 11, N.Y., 10, 25
See ad on page 318
Tel: EVergreen 8-0364

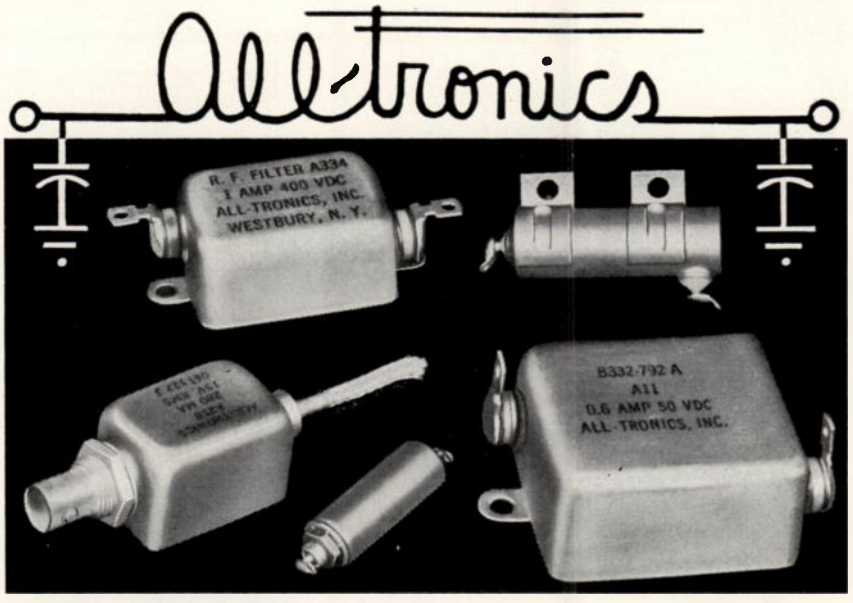
Axel Bros., Inc., N.Y., 35, 40

B/R Electronics, Inc., N.Y., 10, 15, 22

Directory II. Components

36. Filters.

Barker & Williamson, Inc., Pa., 5, 10, 12, 14, 15, 20, 22, 35, 37
Bassett Inc., R., Fla., 12, 25, 35
Bayly Engrg Ltd., Canada, 15, 22, 45
Belling & Lee, Ltd., England, 35, 40
Benco TV Assoc., Ltd., Canada, 40
Bendix Aviation Corp., Bendix-Pacific Div., Calif., 10, 22
Bergen Laboratories, Inc., 247 Crooks Ave., Clifton, N.J., 45
See ad on page 359
Tel: GRegory 3-7800
Bird Electronic Corp., 1800 E. 38th St., Cleveland 14, Ohio., 5, 10, 15, 22, 45
See ad on page 346
Tel: EXpress 1-3535
Blonder-Tongue Labs., Inc., N.J., 45
Bogart Mfg. Co., N.Y., 5, 10, 30
Browning Labs., Inc., Mass., 10
Budd Stanley Co., Inc., N.Y., 30
Bulova Watch Co., Electronics Div., Dept. DA-776, 40-06 62nd St., Woodside 77, N.Y., 10, 12, 15, 37
See ad on page 336
Tel: NEwtown 9-5700
Burnell & Co., Inc., Dept. P-3, 10 Pelham Pkwy., Pelham, N.Y., 10, 12, 14, 15, 22, 37
See ad on pages 74-75
Tel: PElham 8-5000
CG Electronics Corp., N.M., 5, 25
CGS Labs., Inc., Conn., 50
Cal-Air Engrg., Inc., Calif., 10, 15, 22
Calbest Electronics Co., Calif., 15
Caledonia Electronics & Transformer Corp., Dept. ID, P.O. Box 98, Caledonia, N.Y., 10, 15, 22
See ad on page 436
Tel: KE 8-4423
Cambridge Thermionic Corp., 440 Concord Ave., Cambridge 38, Mass., 10, 15, 20
See ad on page 545
Tel: TRowbridge 6-2800
Carad Corp., Calif., 10, 15, 22
Carey Elec. Engrg. Co., Ohio, Air
Carter Parts Co., Ill., 28
Cascade Research, Calif., 5, 10, 30
Cawkell Elec. Engrg., A. E., N.Y., 10, 15, 22, 50
Centralab, Wis., 5, 15, 20, 45
Channel Master Corp., N.Y., 5, 45
Chicago Condenser Corp., Dept. A, 3255 W. Armitage Ave., Chicago 47, Ill., 10, 14, 15, 20, 22, 35, 37, 40, 45
See ad on page 374
Tel: CApitol 7-7070
Chicago Electronic Engrg. Co., Ill., 10, 15, 22
Chicago Magnetic Control, 1616 North Damen Ave., Chicago 47, Ill., 10, 15, 22
See ad on page 437
Tel: ARmitage 6-7400
Chicago Standard Transformer Corp., 3514 W. Addison St., Chicago 18, Ill., 10, 14, 15, 22
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Tel: INdependence 3-7400
Cinema Engrg. Div., Aerovox Corp., Calif., 14, 15, 22
Clegg Labs., Div. Clegg, Inc., N.Y., 5, 40, 45
Clevite Electronic Components, Ohio, 25
Clippard Instrument Lab., Inc., Ohio, 5, 10, 15, 45
Coaxial Connector Co., Inc., N.Y., 5, 15, 35, 45
Coil Winders, Inc., N.Y., 5, 10, 15, 22, 35, 45, 50
Coils & Electronics Co., Pa., 15, 22, 35
Collins Radio Co., Iowa, 25
Communication Accessories Co., Highway 50 & 71 By Pass, Lee's Summit, Mo., 10, 15, 22
See ad on pages 57-60
Tel: (Kansas City) BRoadway 1-1700



RF FILTER SPECIALISTS

ENGINEERING FACILITIES FOR

- Radio Frequency Interference Testing
- Suppression Of Radio Frequency Interference
- RF Field Engineering Service
- Attenuation Measurements
- Design Of RF Filters
- Design Of Filter Networks
- Network Synthesis

Analysis Relating To Noise And Interference On

- Computer Systems—Radar Systems
- Navigation Systems
- Fire Control Systems

22,000
Standard Filters Available
Unlimited Custom Designs

- Radio Frequency Interference Filters
- Antenna Filters
- Band Pass Or Band Rejection Filters
- IF Or RF Filters
- Screen Booth Filters
- Coils—RF Chokes
- Line Stabilization Networks
- Packaged Circuit Assemblies
- Delay Lines and Pulse Networks
- Resin Molded Assemblies
- Hermetically Sealed Units
- Vacuum Impregnated Assemblies
- Production Test Equipment

FREE
TO DESIGN ENGINEERS
Comprehensive stock catalog listing of over 22,000 RF Filters ready for off-the-shelf delivery.

For immediate engineering consultation, call Dr. Joseph Seton Smith or Mr. Harold P. Westerman, Jr.

ALL-TRONICS, Inc.
45 Bond St., Westbury, N. Y., ED 3-3090

For details, circle #290 on Reader Service Card

Code numbers shown after each firm refer to product or service sub-classes listed at the beginning of each major classification. Complete addresses will be found in the Alphabetical Directory.

when rf power must be absorbed or accurately measured...



"Thruline"

DIRECTIONAL RF WATTMETERS

Direct reading . . "thru" type . . . for measuring forward or reflected power in complete systems under operating conditions . . . inserted between transmitter and antenna or load . . . full scale power and frequency range determined by plug-in elements.

Model	Line	Impedance	Frequency ELEMENTS Power		Connector
43	RG-8/U etc.	50 ohms	25-60; 50-125 100-250; 250-500; 400-1000 mc	10; 25; 50; 100; 250; 500 W	N; C; HN; UHF
4712	1⅝	50 ohms	200-500 400-1000 mc	.5; 1.0; 1.5; 2.5; 5.0 KW	Rtma Std.
460	3⅛	50 ohms	200-500 mc	1; 2.5; 5; 10	Flange
480	3⅛	51.5 ohms	400-1000 mc	25; 50 KW	Sleeve Bullet
490	6⅛	51.5 ohms	200-500 mc	25; 50 and 100 KW	

COAXIAL RF FILTERS



Designs utilize both distributed and lumped constant . . . insertion loss and VSWR are very low in pass band . . . high attenuation in stop band . . . new miniature filters as light as 5 ounces. Will produce in quantity to your specs.

	Low Pass	Low Pass	Low Pass	Low Pass	High Pass	Band Pass
Models	5310	5311	522	819-1200	530	5131
Cut Off	90 mc	160 mc	400 mc	1200 mc	420 mc	45 mc & 105 mc
Stop Band	100-180 mc	180-320 mc	500-1200 mc	1900-4000 mc	100-375 mc	33.7-39.7 mc 120-1000 mc
Max. Power	100W	100W	150W	3.5KW	50W	25W
Min. Stop Band Atten.	55db	55db	55db	40db	60db	25db 40db
VSWR in p.b.	1.5	1.5	1.35	2 to 1	2.5	1.6
Connectors	Female N		Male-Female N			Female BNC

Chart shows characteristics of typical Filters

NOMINAL 50 OHM

You will find dependable coaxial line instruments and accessories at Bird Electronic. Specialization in this field, backed by a constantly growing engineering staff and enlarged physical facilities, has resulted in the continuous development of new designs to meet specific requirements. If you are searching for more than a standard product for field or laboratory use, turn to Bird Electronic. Our years of experience in this field may assist you in the solution of your problem.

"Termaline" RF ABSORPTION WATTMETERS

Portable . . . direct reading . . . non-radiating "load" type wattmeter . . . used in field or laboratory to measure and absorb power . . . accuracy ± 5% of full scale . . . VSWR 1.1 to 1 maximum over operating range.

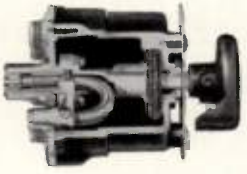
Model	Freq. Range	Max. Power	Power Range Scales	Input Connector
611	30-500 mc	60W	0-15; 0-60	Female N
612	30-500 mc	80W	0-20; 0-80	
67	30-500 mc	500W	0-25; 0-100; 0-500	Coplanar with Adapter to UG-21/U. (optional) RG-17 & RG-19 cable assemblies: adapters to rigid lines
67C*	30-500 mc	2500W	0-100; 0-500; 0-2500	
824*	30-220 mc	5000W	0-5000	

*Water cooled (other available models described in specification sheets)



COAXIAL SWITCHES

Small compact design permits the "Coaxwitch" selector to be incorporated into many electronic units where repeated channel switching is required. Finger-tip operation: pull knob, rotate and push in to make contact.



Model	74	71B	72R	62-2
Positions	Six	Eight	Reversing Switch	Two
Coaxial Circuits	One	One	Two	Two
Connector	Type N female connectors are standard on all models to receive UG-21/U series plug. Use adapters with other cables and connectors.			

"Termaline" RF LOAD RESISTORS

Reflection-free terminations for 50 ohm coaxial lines . . . low VSWR . . . non-radiating . . . water cooled ratings 2500 W to 50 KW . . . air cooled rating to 1500 W.



Model	Max. Power	Freq. Range	Max.* VSWR	Connector
80	5W	0-1KMC	1.1	"N", "C", "BNC"
80A	20W	0-500MC	1.1	N Female
81	50W	0-1KMC	1.1	
81B	80W	0-1KMC	1.1	
82A	500W	0-1KMC	1.1	Coplanar with Adapter to UG-21/U
883	1.2KW	0-1KMC	1.1	LC
888	1.5KW	0-1KMC	1.1	3⅛ Flanged

*Other VSWR requirements can usually be met by special selection.

turn to...



BIRD ELECTRONIC CORP.
EXpress 1-3535
1800 E. 38 St., Cleveland 14, Ohio
Western Representative:
VAN GROOS COMPANY, Woodland Hills, Calif.

Directory II. Components

36. Filters.

Communication Parts, Ill., 10, 35
Communications Equip. & Engrg. Co., Ill., 10, 15, 22
Community Engrg. Corp., Pa., 10, 45
Components Corp., Ill., 10, 15, 22, 37
Connecticut Tel. & Elec. Co., Conn., 5, 10, 15, 45, 50

Control Electronics Co., Inc., 10 Stepar Pl., Huntington Station, L.I., N.Y., 30, 45, 50
See ads on pages 343, 507
Tel: HAmilton 7-7961

Cornell-Dubilier Electric Corp., 333 Hamilton Blvd., South Plainfield, N.J., 10, 15, 22, 35, 40, 50
See ad on Cover 3
Tel: PLainfield 6-9000

D & R Ltd., Calif., 10, 15, 22, 37
DX Radio Prods. Co., Ill., 10, 15, 20, 22, 35, 40, 45

Dale Products, Inc., 1318 28th Ave., Columbus, Neb., 5, 10, 45, 50
See ad on pages 136-137
Tel: LOcust 4-3131

Daven Co., N.J., 10, 14, 15, 22, 37, 45
Daystrom, Inc., N.J., 15, 20, 22
De Coursey Engrg. Lab., Calif., 10, 15, 20, 22
Defiance Engineering & Microwave Corp., Mass., 5, 10, 12, 15, 22, 30, 37, 50

DeMornay-Bonardi, 780 S. Arroyo Pkwy., Pasadena, Calif., 30
See ad on pages 50-51
Tel: SYcamore 2-4142

Derf Radio Co., 5, 12

Deutschmann Corp., Tobe, Providence Highway, Norwood, Mass., 5, 10, 14, 15, 22, 30, 35, 37, 40, 45
See ad on page 300
Tel: NOrwood 7-2620

Devol Research Co., Conn., 10, 50
Diamond Antenna & Microwave Corp., Mass., 5, 10, 12, 15, 22, 30, 50
Dietz Design & Mfg. Co., Mo., 5, 10, 15, 22, 25, 37, 50
Double E Prods. Co., Calif., 10, 15, 22, 35

Douglas Microwave Co., Inc., Dept. RE-8, 252 E. Third St., Mount Vernon, N.Y., 22, 30
See ad on page 456
Tel: MOunt Vernon 8-6900

Downing Crystal Co., Md., 12
E M I Electronics Ltd., England, 5, 30, 45

ESC Corp., 534 Bergen Blvd., Palisades Park, N.J., 10, 14, 15, 22 50
See ad on page 342
Tel: WIndsor 7-0400

Eagle Electronics Corp., Conn., 10, 15, 22, 35
Eclipse Electronics Co., Canada, 20, 35
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Electro Miniatures Corp., N.J., 35, 40
Electro Winders Co., Inc., Calif., 5, 10, 15, 22, 35
Electron Products, Calif., 15, 22
Electronic Designs, Inc., N.Y., 10
Electronic Specialty Co., Calif., 5, 10, 15, 22, 30, 45
El-Rad Mfg. Co., Ill., 5, 10, 14, 15, 20, 22, 37
Elsin Electronics Corp., N.Y., 30

Empire Devices Products Corp., 37 Prospect St., Amsterdam, N.Y., 30, Radar Interference
See ad on page 462
Tel: VIctor 2-8400

Engineered Sound Systems, Ltd., Canada, 14, 15, 20
Entron, Inc., Md., 5, 10, 14, 15, 45
Erdco Engrg. Corp., Ill., 35
Espey Mfg. Co., Inc., N.Y., 10, 50

Essex Electronics, 550 Springfield Ave., Berkeley Heights, N.J., 22
See ad on page 178
Tel: CRestview 3-9300

F-R Machine Works, Inc., 26-12 Borough Place, Woodside 77, N.Y., 30
See ad on pages 117-120
Tel: AStoria 8-2800

FSD Laboratories, Conn., 22, 35
Federal Telecommunication Labs., Calif., 10, 12, 14, 15, 22, 37, 50
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Fisher Radio Corp., N.Y., 14
Forbes & Wagner, Inc., N.Y., 10, 15, 22
Foster Transformer Co., Ohio, 10, 15, 22

Foto-Video Labs., Inc., 36 Commerce Rd., Cedar Grove, N.J., 15
See ad on page 376
Tel: CEntre 9-6100

Freed Transformer Co., Inc., 1713 Weirfield St., Brooklyn 27, N.Y., 10, 14, 15, 22
See ad on page 438
Tel: EVergreen 6-1300

Frequency Standards, P.O. Box 504, Shafto Rd., Asbury Park, N.J., 10, 15, 20, 30, 50
See ad on page 133
Tel: PRospect 4-0500

Fugle-Miller Labs., Inc., 301 Central Ave,. Clark, N.J., 5, 10, 15, 22, 35
See ad on page 313
Tel: FUlton 1-2727

Gabriel Electronics, Div., Gabriel Co., 135 Crescent Rd., Needham Heights 94, Mass., 5, 10, 15, 22, 30
See ad on page 248
Tel: NEedham 3-0005

Gates Radio Co., Ill., 5, 10, 15, 22, 50
General Coil Products Corp., N.Y., 5, 10, 15, 22, 50
General Dynamics Corp., Stromberg-Carlson Div., N.Y., 10, 15, 22
General Electric Co., Specialty Electronic Components Dept., N.Y., 20
General Electric Co., Technical Prods. Dept., N.Y., 45
General Instrument Corp., Automatic Mfg. Div., N.J., 10, 15, 22, 35, 50

General Radio Co., 275 Massachusetts Ave., Cambridge 39, Mass., 10, 22, 45
See ad on Cover 4
Tel: TRowbridge 6-4400

Gonset Div., Young Spring & Wire Corp., Calif., 5, 10
Goodmans Industries, Ltd., England, 20

Gorham Mfg. Co., 333 Adelaide Ave., Providence 7, R.I., 30
See ad on page 457
Tel: Williams 1-1000

Gramatan Instrument Co., N.Y., 30, 50
Granger Associates, Calif., 5, 10, 45
Gray & Kuhn, Inc., N.Y., 5, 10, 35
Gray Mfg. Co., Conn., 15, 22

Gudeman Co., 340 W. Huron St., Chicago 10, Ill., 22, 35, 40
See ad on page 302
Tel: DE 7-7400

Gulton Industries, Inc., N.J., 22
Gulton Industries, Inc., Nuclear Instr. Div., N.M., 5, 10, 30, 45
Hallamore Electronics Co., Calif., 10, 15, 22
Haller, Raymond and Brown, Inc., Pa., 10, 22, 30, 45, 50
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Harder Co., Donald C., Calif., 10
Harmon Electronics Co., Mo., 10
Hermetic Seal Transformer Co., Div. SIE, Tex., 10, 12, 15, 22

Hewlett-Packard Co., 275 Page Mill Rd., Palo Alto, Calif., 22
See ad on pages 3-18
Tel: DAvenport 5-4451

Hi-Lo TV Antenna Corp., Ill., 5, 10, 15, 22, 45

Highland Engineering Co., 90 Magnolia Ave., Westbury, L.I., N.Y., 10, 15, 22
See ad on page 441
Tel: EDgewood 3-2933

Hill Electronic Engrg. & Mfg. Co., Inc., Pa., 10, 12, 15, 22
Hopkins Engineering Co., Calif., 35
Hughes Products, Hughes Aircraft Co., Calif., 12
Hupp Electronics Co., Pa., 12, 37

Hycon Eastern, Inc., Dept. B, 75 Cambridge Pkwy., Cambridge 42, Mass., 5, 10, 12, 25, 37
See ad on page 348
Tel: UNiversity 4-7200

Inductor Engineering, Inc., Del., 10, 14, 15, 20, 22

Interelectronics Corp., 2432 Grand Concourse, New York 58, N.Y., 20
See ads on pages 268, 376
Tel: LUdlow 4-6200

Interference Measurement Lab., Inc., N.Y., 35
Internatl. Research Co., Calif., 10, 15, 22
International Resistance Co., Pa., 10, 22
Islip Transformer & Metal Co., Inc., N.Y., 10, 15, 22

J-V-M Microwave Co., 9305 W. 47th St., Brookfield, Ill., 5, 10, 15, 22, 30, 45
See ad on page 500
Tel: HUnter 5-2000

CRYSTAL FILTERS
in the 10 Kc to 30 Mc range



10 Mc Crystal Filter shown approx. ¾ size

The accompanying table shows a partial list of standard Hycon Filters. Custom units may be engineered to your particular specifications of center frequency, bandwidth, selectivity, and impedance level. *Write for Crystal Filter Technical Bulletin.*

SYMMETRICAL BANDPASS

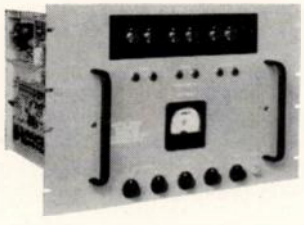
Model No.	Center Freq.	Bandwidth (6-db)	Bandwidth (60-db)	Maximum Insertion Loss	Maximum Passband Variation	Impedance Ohms (Nominal)	Case Size L	W	H
100 KPA	100 Kc	50 cps	200 cps	3 db	±1/2 db	8200	3 15/16"	2 13/16"	2"
2215 KA	2215 Kc	2.8 Kc	12 Kc	3 db	±1/2 db	4000	2 9/16"	1 5/16"	1 47/64"
2215 KB	2215 Kc	250 cps	1000 cps	3 db	±1/2 db	4000	2 9/16"	1 5/16"	1 47/64"
9 MA	9 Mc	3 Kc	12 Kc	3 db	±1/2 db	1000	1 61/64"	19/32"	15/16"
10 MA	10.7 Mc	30 Kc	60 Kc	3 db	±1/2 db	2000	2 3/8"	1"	1 1/32"
10 MB	10.7 Mc	15 Kc	30 Kc	3 db	±1/2 db	1000	2 3/8"	1"	1 1/32"
10 ME	10.7 Mc	6 Kc	15 Kc	3 db	±1/2 db	500	2 3/8"	1"	1 1/32"
10 MF	10.7 Mc	3.5 Kc	10 Kc	3 db	±1/2 db	300	2 3/8"	1"	1 1/32"
13 MA	13 Mc	30 Kc	54 Kc	6 db	± 1 db	1500	3 9/16"	1"	1 1/2"
13 MB	13 Mc	15 Kc	27 Kc	6 db	± 1 db	750	3 9/16"	1"	1 1/2"

SINGLE SIDEBAND

Model No.	Center Freq.	Sideband	Passband	Minimum Attenuation (Unwanted)	Maximum Insertion Loss	Maximum Passband Variation	Impedance Ohms (Nominal)	Case Size L	W	H
100 KUC	100 Kc	upper	300 to 6000 cps (2 db)	60 db	10 db	±1/2 db	8200	5 3/8"	3"	2 3/8"
100 KLC	100 Kc	lower	300 to 6000 cps (2 db)	60 db	10 db	±1/2 db	8200	5 3/8"	3"	2 3/8"
3 MUA	3.2 Mc	upper	300 to 3000 cps (3 db)	40 db	3 db	± 1 db	1600	2 9/16"	1 5/16"	1 47/64"
2 MUA	2 Mc	upper	300 to 6000 cps (2 db)	60 db	3 db	±1/2 db	3900	4 3/8"	2 3/8"	1 7/8"
2 MLA	2 Mc	lower	300 to 6000 cps (2 db)	60 db	3 db	±1/2 db	3900	4 3/8"	2 3/8"	1 7/8"

RAPID ACCESS in Analog Data Reduction Systems

DIGITAL TIMING GENERATOR

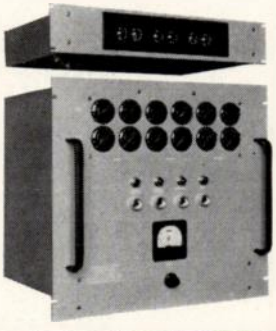


MODEL 201 for Tape Indexing generates numerically coded timing signals which are recorded on the magnetic tape throughout the data recording periods, providing a precise digital index in terms of elapsed time.

Write for Technical Bulletin TSG

MODEL 206A IS A MILITARIZED AIRBORNE VERSION OF MODEL 201.

MAGNETIC TAPE SEARCH UNIT

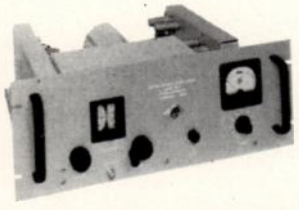


MODEL 202 for Tape Searching operates during data reduction periods. This instrument automatically locates and selects for controlled playback the tape data included between a "sequence start time" and a "sequence end time" specified by panel dial settings. Model 202 may be modified to search for timing formats other than those originated by Model 201.

ULTRA STABLE OSCILLATOR

One Megacycle Signal Source

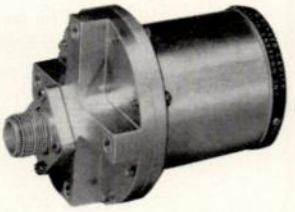
STABILITY: 1 PART IN 10^9 PER DAY



For precise time measurements or frequency control, Model 101C features include: A crystal oven without moving parts that is stabilized to better than 0.01°C. by temperature-sensitive resistance bridge, and dissipation in oscillator crystal which is stabilized at a power level of less than one microwatt. MULTIPLIERS and DIVIDERS are available for other frequency values with corresponding stability. *Write for Bulletin USO.*

HIGH POWER TELEMETERING DIPLEXERS

for Severe Environment



These instruments feed signals from 2 - 100 watt transmitters into a single missile antenna system and are designed to satisfy military requirements for use in test missiles and supersonic aircraft. Frequency Range: fixed-tuned between 215 to 250 Mc/s; Attenuation: less than 0.3 db; Size: each cavity approx. 3" x 4"; Weight of total system: 3.7 pounds, (2 diplexers + circuitry). *Write for Bulletin 1231.*

Please call or write for name of Hycon Eastern Representative in your area. (Telephone: Cambridge, Mass., UNiversity 4-7200)

HYCON EASTERN, INC.

75 Cambridge Parkway Dept. B Cambridge 42, Mass.

For details circle #292 on Reader Service Card

Directory II. Components

36. Filters.

Jerrold Electronics Corp., Dept. 23, Jerrold Bldg., 15th & Lehigh, Philadelphia 32, Pa., 10
See ad on page 518
Tel: BAldwin 6-3456

Jerrold Electronics Ltd., Canada, 5, 10, 40, 45

Johnson Co., E. F., Minn., *22*

Kama Instrument Corp., N.Y., 10, 15, 30, 45

Kapitol Magnetic Corp., Ill., 10, 14, 15, *22*

Kearfott Co., Inc., Microwave Div., Dept. 24J, 14844 Oxnard St., Van Nuys, Calif., 10, 30, 50
See ad on page 458
Tel: STate 6-1760

Krohn-Hite Corp., 580 Massachusetts Ave., Cambridge 39, Mass., 10, 15, 22, 50
See ad on page 378
Tel: UNiversity 4-4272

Lambda-Pacific Engr., Inc., Calif., 30

Lesa, S. P. A., Italy, 10, 14, 15, 20, *22*

Lewis Co., Inc., E. B., Conn., 12

Lieco, Inc., 3610 Oceanside Rd., Oceanside, L.I., N.Y., 5, 30
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Tel: ROckville Centre 6-7620

Ling Systems, Inc., Calif., 30

Litton Industries, Inc., Calif., 30

Litton Industries, Md., 5, 10, 15, *22*, 30, 45, 50

Lynch Carrier Systems, Inc., Calif., 10, 14, 15, *22*

M F Electronics Co., 122 E. 25th St., New York 10, N.Y., 50
See ad on page 281
Tel: GRamercy 3-5899

Magnavox Co., Ind., 10, 15, *22*

Magnetic Instruments Co., N.Y., 10, 15, *22*, 50

Marine View Electronics, Inc., N.Y., 10

McCoy Electronics Co., Chestnut and Watts St., Mt. Holly Springs, Pa., 10, 12, 15, 22, 37
See ad on page 337
Tel: HUnter 6-3411

Meridian Metalcraft, Inc., Calif., 5, 10, 15, *22*, 30, 45

Micamold Electronics Mfg. Corp., N.Y., *22*, 35

Microlab, 71 Okner Pkwy., Livingston, N.J., 5, 10, 12, 14, 15, 22, 30, 35, 40, 45, 50
See ad on this page
Tel: LIvingston 6-0692

Micromatic Machine Corp., N.Y., 5, 25

Microphase Corp., P.O. Box 1166 R, Greenwich, Conn., 5, 10, 15, 22, 30, 45, 50
See ad on page 350
Tel: NOrmandy 1-6200

Micropulse Engrg., Calif., 15, *22*

Microtran Co., Inc., 145 E. Mineola Ave., Valley Stream, L.I., N.Y., 10, 15, 20, 22
See ad on page 442
Tel: LOcust 1-6050

Microwave Associates, Inc., Mass., 30

Microwave Develop. Labs., Inc., Mass., 30

Microwave Engrg. Labs., Calif., 10, 30

Microwave Radiation Co., Inc., Calif., 10, 30, 50

Mid-West Coil & Transformer Co., Ill., 20

Millen Mfg. Co., Inc., James, 150 Exchange St., Malden 48, Mass., 10, 35
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Tel: DA 4-4108

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Mosley Electronics, Inc., Mo., 10

Motorola, Inc., Ariz., 10

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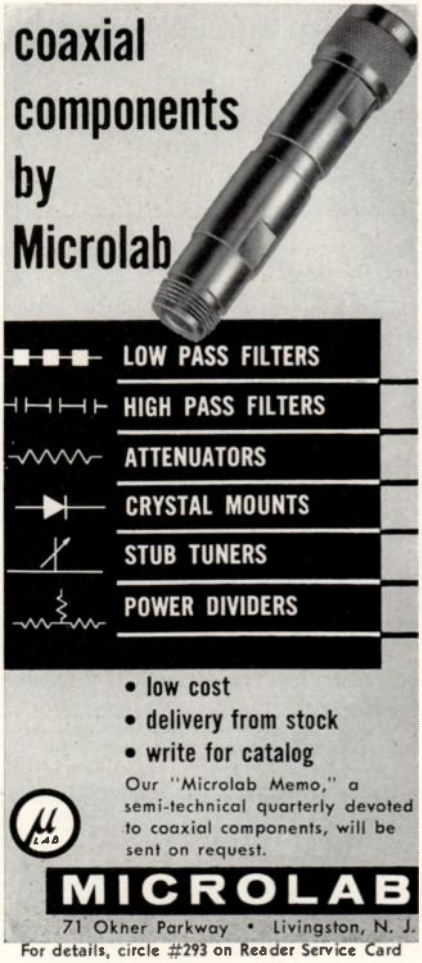
NRK Mfg. & Eng. Co., Ill., 30

NYT Electronics, Inc., Calif., 10, 15, 20, *22*

Narda Microwave Corp., Dept. IRE-8, 118-160 Herricks Rd., Mineola, L.I., N.Y., 15, 22, 30, 45
See ad on pages 124-127
Tel: PIoneer 6-4650

National Scientific Labs., Inc., D.C., 35

New York Transformer Co., Inc., N.J., 10, 14, 15, 20, *22*



North Hills Electric Co., Inc., 402 Sagamore Ave., Mineola, L.I., N.Y., 5, 10, 14, 15, 22, 37
See ads on pages 315, 453
Tel: PIoneer 7-0555

Northern Electric Co., Ltd., Canada, 10, 12, 15, 22, 30

Orbitran Co., Inc., Calif., *22*

Ortho Filter Corp., N.J., 5, 10, 12, 14, 15, 22, 37, 45, Telemetering

PCA Electronics, Inc., Calif., *22*

Parsons Co., Ralph M., Electronics Div., Calif., 45

Peerless Electrical Prods., Div., Altec Lansing Corp., Calif., 15, 20, *22*

Penn-East Engineering Corp., Box 240, Kutztown, Pa., 10, 15, 22
See ad on page 442
Tel: OVerbrook 3-7308

Philamon Labs., Inc., 90 Hopper St., Westbury, L.I., N.Y., Tuning Fork
See ad on page 102
Tel: EDgewood 3-1700

Philco Corp., Government & Industrial Div., Pa., 30, 35, 40

Pickering & Co., Inc., N.Y., 14, 20, 28

Pitometer Log Corp., N.Y., 10, 15, *22*, 30, 35, 45

Polyphase Instrument Co., Pa., 10, 15, *22*

Polytechnic Research & Development Co., Inc., N.Y., 30

Portchester Instrument Corp., 114 Wilkins Ave., Port Chester, N.Y., 30
See ad on page 459
Tel: WEstmore 9-4092

Potter Co., The, Ill., 10, 15, *22*, 35, 40

Premier Instrument Corp., 33 New Broad St., Port Chester, N.Y., 5, 10, 30
See ad on page 460
Tel: WEstmore 9-8900

Probescope Co., Inc., 8 Sagamore Hill Dr., Port Washington, L.I., N.Y., 15, 22, 50
See ad on page 511
Tel: POrt Washington 7-8150

Production Research Corp., N.Y., 5

Pulse Engineering, Inc., Calif., 10, 15, *22*

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Radio Condenser Co., N.J., 15, *22*

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Radio Engineering Prods., Canada, 10, 15, *22*

Radio Frequency Labs., Inc., Powerville Rd., Boonton, N.J., 10, 15, 22
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Tel: DEerfield 4-3100

Radio Music Corp., N.Y., 10, 14, 15, *22*

Radio Research Instrument Co., N.Y., 30

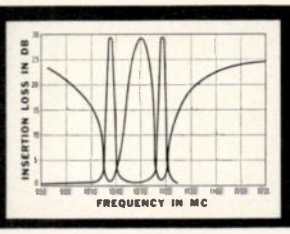
Radionic Labs., Inc., Ind., 12

Raytheon Mfg. Co., Mass., 30

Riverbank Labs., Dept. of Engrg., Ill., 25



BAND-PASS/BAND-SUPPRESSION filter used in simultaneous operation of Air-Traffic-Control equipments from a common antenna. Isolates adjacent channels better than 30 db, with negligible loss in pass frequencies. Notch-valley response adaptable to other frequencies, more complex requirements. Similar units possible with exceptionally light weight for special applications.



MICROPHASE R. F. FILTERS FOR AIRCRAFT, MISSILES

• FLEXIBILITY OF DESIGN

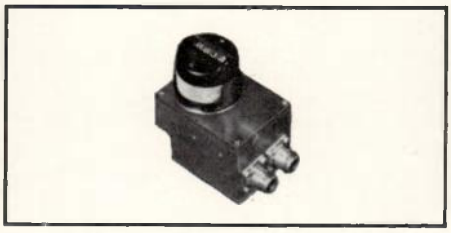
• HIGH PERFORMANCE

• RELIABILITY . . .

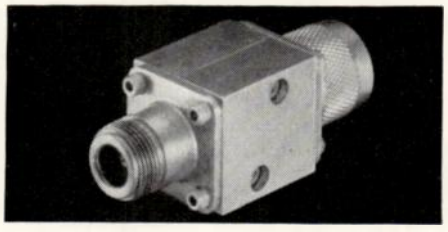
Meet your critical filter needs, including severe shock and high temperature requirements. These are typical examples.



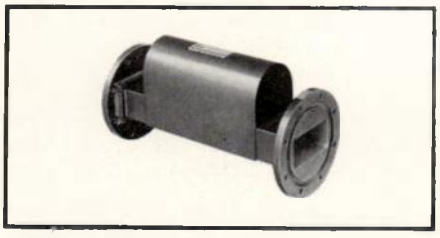
CONTINUOUSLY-MATCHED FILTER NETWORK. The impedance is approximately 50 Ohms resistive in the stop bands. Provides VSWR of 2.5:1 maximum near cutoff frequencies. Low-, high-, and band-pass filters can be manufactured with similar characteristics from VHF through X Band.



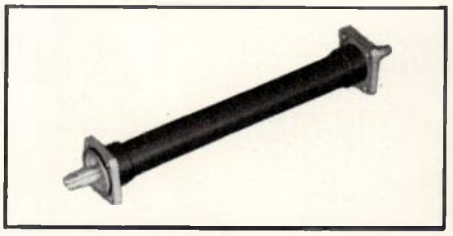
PRESELECTOR, tunable from 2600 to 3000 mc. Employs iris-coupled quarter-wave cavities; gang-tuned, temperature-compensated, excellent resettability. Third connector for special-purpose monitoring output, which continuously monitors the passband about 15 db below filter level.



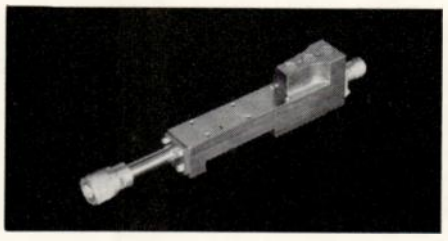
HIGH PASS – A split-block unit with a minimum attenuation of 60 db in the stopband. Insertion loss in the 7-to-12-kmc passband is a maximum of 1.0 db. Sharper cutoffs available. Similar designs in the VHF to X bands, Silver-plated, rhodium-flashed; weighs only 4¼ ounces.



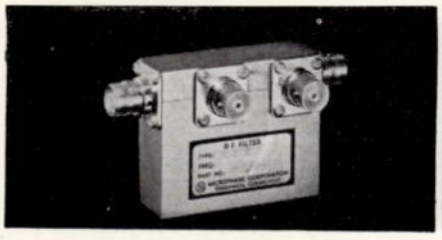
NARROW-BAND MATCHED LOW-PASS WAVEGUIDE filter, designed to eliminate higher-order harmonics. Passband VSWR is less than 1.1:1; stopband attenuation more than 60 db up to 12 kmc. Available up to K band with 8% rise from 1 db to 60 db. Also high-pass waveguide filters.



HIGH-POWER LOW-PASS filter handling up to megawatt powers. Maximum VSWR is 1.15:1, insertion loss less than 0.2 db. Stopband attenuation is minimum 60 db. They may be supplied with a variety of RETMA flanges to work in rigid lines of different sizes.



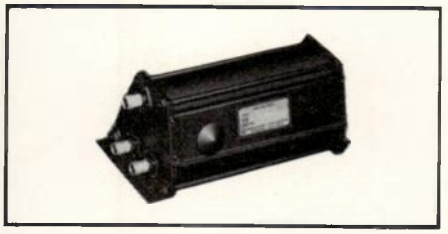
WIDE-BAND-PASS filter with a sharp-cutoff skirt selectivity. Passband insertion loss is under 1 db and maximum VSWR is 2:1. This unit is reduced in weight for airborne applications. Band widths up to 8:1 are available; frequency range from 10 to 12 kmc.



TRIPLEXER – Divides UHF, VHF and L-Bands with 40 db isolation. Whole frequency spectrum is usable because power is divided equally at crossovers with negligible loss. Unit has maximum VSWR less than 2.6:1, weighs 14 oz., comes with choice of connectors. Unit is available with 60 db isolation in slightly larger size.



MULTI-SECTION, COUPLED-TUNED filter with typical Tchebysheff response. Passband ripple as low as 0.2 db. VSWR can be kept to below 1.15:1 for phase-tracking requirements. Band widths of 0.01 fc to 0.25 fc, with a mid-frequency range of up to 4000 mc, are available.



TELEMETERING TRIPLEXER. Extremely lightweight, for airborne and missile applications. Couples three inputs to a common antenna with under 1.5 db with adjacent channels isolated better than 15 db. Ruggedly built for rigid environmental conditions.

MC μ/φ

MICROPHASE CORPORATION

Box 1166R • Greenwich • Connecticut

NOrmandy 1-6200 • WEstmore 9-1998

For details, circle #294 on Reader Service Card

Directory II. Components

36. Filters.

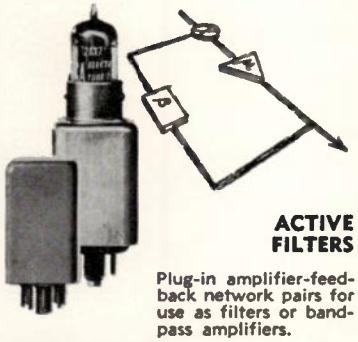
FILTERS
NETWORKS



TOROIDAL WAVE FILTERS

Hermetically sealed LC filters with stable toroidal inductors.

Low, high, bandpass models available over wide impedance and frequency ranges. Stud-mounting and plug-ins. Stock and special designs such as interstage filters. Write today, orders filled promptly, competitive prices. Ask for LC bulletins.



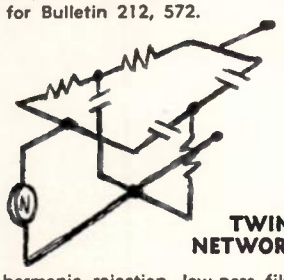
ACTIVE FILTERS

Plug-in amplifier-feedback network pairs for use as filters or bandpass amplifiers.

Widely used where LC filter sections are impractical.

Available with:
Tuned circuit response Q to 40, center frequency 1 cps to 500 cps.
Bandpass response with center frequency 5 to 500 cps.

Ask for Bulletin 212, 572.



TWIN-T NETWORKS

For harmonic rejection, low-pass filtering, feedback circuits. Hermetically sealed, stable, plug-in or stud mounted. Null frequencies 1 cps to 50 kc, wide range of impedance levels. Quick delivery, ask for bulletin 500.

Complete engineering service for special filter and network designs. Instrumentation and control problems invited. Manufacturing facilities for prototypes or a thousand units. Fast delivery at competitive prices. Inquiries answered promptly. Let us put you on our mailing list for bulletins and our "Network Notes."

PLANT AT 5500 BALCONES TRAIL

White
INSTRUMENT LABORATORIES
BOX 9006 • AUSTIN 17, TEXAS

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Rixon Electronics, Inc., Md., 15, 22
Rogers Electronic Tubes & Components, Canada, 10, 12, 15, 22, 37
Rytron Co., Inc., Calif., 10, 14, 15, 22
Sage Laboratories, Inc., Mass., 10, 15, 22, 30
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Sangamo Electric Co., Ill., 10, 15, 22
Saratoga Industries, N.Y., 10, 15, 22
Scientific Radio Products, Inc., Neb., 10, 12, 22, 45, 50
Servonics, Inc., Va., 22

Sherold Crystals, Inc., Truman Rd. & McGee Trafficway, Kansas City 8, Mo., 12
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Sierra Electronic Corp., 3753D Bohannon Dr., Menlo Park, Calif., 22, 45
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Torwico Electronics, Inc., 1090 Morris Ave., Union, N.J., 10, 14, 15, 22
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Triad Transformer Corp., 4055 Redwood Ave., Venice, Calif., 10, 14, 15, 20, 22
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Tel: EXmont 7-2145
TExas 0-5381

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United Transformer Corp., 150 Varick St., New York 13, N.Y., 10, 14, 15, 20, 22, 30, 35, 37
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Tel: GLendale 3-8447

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Flexible shafts: See class 87

Frequency meters: See class 42

Frequency meters, microwave: See class 77

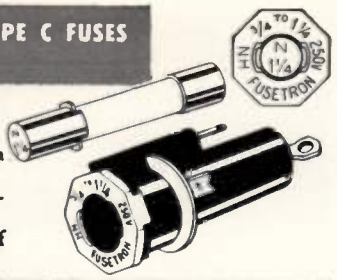
Frequency standards: See class 75

. . . You'll find the Type and Size Fuse you need

• • • IN THE COMPLETE LINE OF BUSS AND FUSETRON FUSES

The following is only a representative selection. The complete BUSS line of fuses includes: single-element, quick-blowing type; single-element for normal circuit protection type; dual-element, slow blowing type and signal or visual indicating types . . . ranging in size from 1/500 ampere up — plus a companion line of fuse clips, blocks and holders.

FUSETRON TYPE N and TYPE C FUSES and FUSEHOLDERS



Especially suitable for protection of TV

Ears on fuses match slots in holder.

Marking on fuse and fuseholder in direct view.

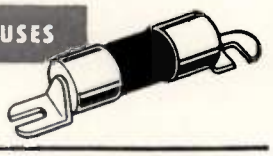
Safeguard against use of wrong size and type of fuse.

BUSS KTK HIGH INTERRUPTING CAPACITY FUSES



$^{13}/_{32}$ x 1½ inch. Capable of safely interrupting 68,000 amps.

FUSETRON ACK CLAMP TYPE FUSES



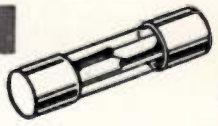
20 to 300 amp., Dual-element type.

BUSS ACO AIRCRAFT FUSES



Mechanical Indicating — Limiter type 1 to 75 amp.

BUSS AGX FAST ACTING FUSES



¼ x 1 in. Glass tube 1/500 to 2 amp.

BUSS Series HJ and HK Non-Indicating FUSEHOLDERS



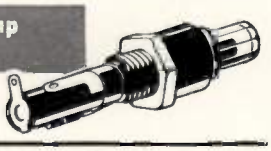
Panel mounted for ¼ x 1 inch and ¼ x 1¼ inch fuses

BUSS GLD SIGNAL ACTIVATING FUSES



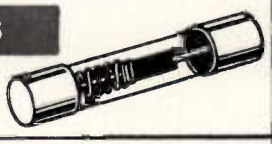
¼ x 1¼ inch Silverplated pin pops out when fuse is blown and activates signal or alarm.

BUSS Series HJ and HK Lamp Indicating FUSEHOLDERS



Panel mounted for ¼ x 1 inch and ¼ x 1¼ in. fuses.

FUSETRON MDL FUSES



¼ x 1¼ inch. Dual-element — slow blowing type 1/100 to 30 amp.

BUSS No. 4051 ONE-PIECE CLIP and TERMINAL



Solder type terminal for ¼ inch fuses.

BUSS ABC CERAMIC TUBE FUSES



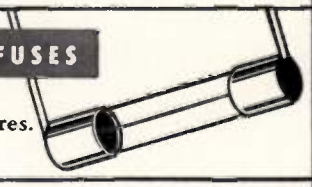
¼ x 1¼ inch High interrupting capacity fuses ¼ to 30 amp.

BUSS No. 4409 FUSE BLOCKS



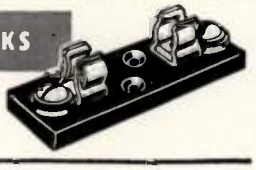
Small Base, solder type Side Terminals.

BUSS GJV PIG TAIL FUSES



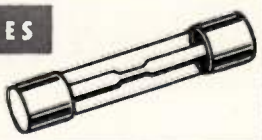
⅛ to 6 amp. Solder into circuit wires.

BUSS No. 4512 FUSE BLOCKS



Full Base, Screw type Terminals.

BUSS SFE STANDARD FUSES



Fuses of different amperages are different lengths — to make it impossible to insert too large a size.

For more detailed information to help you select fuses and fuseholders to meet your electrical protection needs . . . Write for BUSS bulletin SFB.

Or tell us your problem and let our Fuse Engineers assist you in getting the protection you require.

FUSETRON FNM FIBRE TUBE FUSES



$^{13}/_{32}$ x 1½ inch. Dual-element — slow blowing type.

Bussmann Mfg. Division,
McGraw-Edison Co.
University at Jefferson,
St. Louis 7, Mo.

FUSETRON
TRUSTWORTHY NAMES IN ELECTRICAL PROTECTION
BUSS

Makers of a complete line of fuses for home, farm, commercial, electronic and industrial use.

Directory II. Components

37. Fuses and Fuse Holders.

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Chicago Telephone Supply Corp., 1142 W. Beardsley Ave., Elkhart, Ind., Tube saver & Overload Switch
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Sightmaster Corp., Div. Mutual Electronic, R.I., 5, 10
Staver Co., Inc., N.Y., 10
Sylvania Electric Products, Inc., Parts Div., 12 2nd Ave., Warren, Pa., 10
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Generators, marker (microwave): See class 77

Generators, marker (radio frequency): See class 80

Generators, marker (TV): See class 82

Generators, motor: See class 44

Generators, pulse: See class 77

Generators, signal (AM & FM): See class 80

Generators, signal (TV): See class 82

Generators, square wave: See class 67

Generators, sweep (radio frequency): See class 80

Generators, sweep (TV): See class 82

Generators, synchronizing: See class 82

Generators, time delay: See class 77

Generators, ultrasonic: See class 72

Germanium crystals: See class 33

Germanium diodes: See class 54

Getters: See class 97

Graphic recorders: See class 74

Grids & grid wire: See class 97

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Grommets: See class 87

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Harnesses, pre-formed wire: See class 83

Headphones: See class 40

5. Ceramic to metal seals
10. Complete headers
15. Glass to metal seals
20. Switch & shaft seals

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American Feldmuehle Corp., 11 W. 42 St., New York 36, N.Y., 5
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Tel: AM 5-3411

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Tel: WEst Lebanon 3-5851

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Tel: MArket 3-9400

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Tel: DEerfield 4-3100

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Raytheon Mfg. Co., Microwave & Power Tube Div., Section PT-07, Foundry Ave., Waltham 54, Mass., 5, 10, 20
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Tel: TWinbrook 3-5860

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Tel: BIgelow 3-8675

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Sperti Faraday, Inc., Cooper Hewit Elec. Co. Div., N.J., 5, 10, 15

Sphere Co., Inc., N.J., 5, 10, 15, and Compression



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38. Hermetic Seals.

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Sylvania Electric Products, Inc., 1740 Broadway, New York 19, N.Y., 5, 15
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Tel: JUdson 6-2424

Thermo Materials, Inc., Calif., 5, 10

Thor Ceramics, Inc., 225 Belleville Ave., Bloomfield, N.J., 5
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Tel: EXmont 7-2145
TExas 0-5381

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10. Jack fields
15. Patch cords
20. Plugs

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Aerolite Electronics Corp., N.J., 5, 15, 20

Aerovox Corp., Mass., 5, 10, 15, 20

Alcon Metal Prods., Inc., Ill., 5, 20

Alden Products Co., 9140 N. Main St., Brockton 64, Mass., 5, 15, 20
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Tel: BRockton 160

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Automatic & Precision Mfg. Co., 252 Hawthorne Ave., Yonkers 5, N.Y., 20, power
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Empire Electronics Co., Inc., N.J., 15
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General Cement Mfg. Co., 400 S. Wyman St., Rockford, Ill., Hole Plugs
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Tel: ROckford 8-9661

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General Radio Co., 275 Massachusetts Ave., Cambridge 39, Mass., 5, 15, 20
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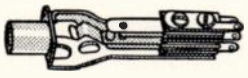


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Alert Products, Inc., N.J., 25

Allied Radio Corp., Dept. 35-59, 100 N. Western Ave., Chicago 80, Ill., 5, 25, Kits
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Magnetic Recorders: See class 16

Magnetic Recording Tape and Wire: See class 49

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41. Magnets.

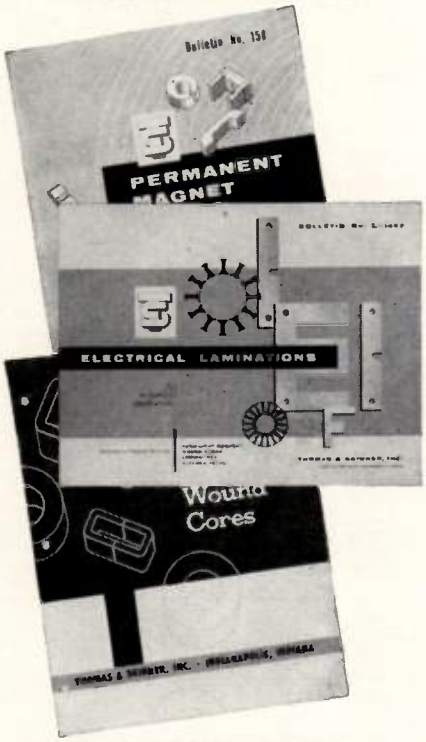
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Applied Radiation Corp., Calif., 5
Arnold Engineering Co., P.O. Box G, Marengo, Ill., 10
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Yale & Towne Mfg. Co., Powdered Metal Div., Ill., 10

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30. Milli-ammeters
32. Positioning indicators
33. Strain indicators
34. Temperature indicators
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45. Timers, elapsed
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55. Volume level (DB & VU)
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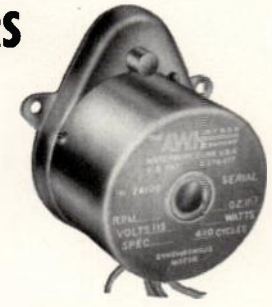
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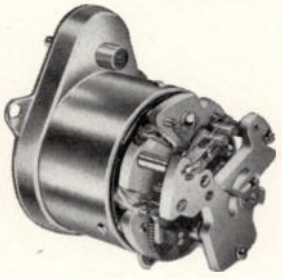
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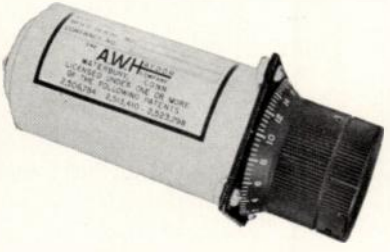
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Tel: OVerbrook 1-3200

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Precise Measurements Co., Millbrook Lane, R.D. 1, Flemington, N.J., 50
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Tel: FLemington 900

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Quan-Tech Laboratories, 236 Mt. Kemble Ave., Morristown, N.J., 25
See ad on page 284
Tel: JEfferson 8-6350

Radax Corp., Ill., 34, 40

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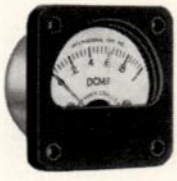
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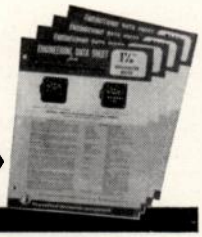


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Raymond Engineering Lab., Inc., Conn., 35
Reed Research, Inc., D.C., 33
Research Industrial Labs., Pa., 23, 34, 35
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Ruge Assoc., Inc., Arthur C., Mass., 34
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Standard Electric Time Co., The, Mass., 35, 45

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Statistical Instrument Co., N.Y., Noise Meters

Stepper Motors Corp., Calif., Pulse Timers

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Sterling Precision Corp., N.Y., 32

Sticht Co., Inc., Herman H., 27 Park Pl., New York 7, N.Y., 10, 15
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Tel: REctor 2-8163

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Ulanet Co., George, 416 Market St., Newark 5, N.J., 40
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Tel: MArket 2-4876

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Tel: BEekman 3-8870

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Victoreen Instrument Co., The, 5806 Hough Ave., Cleveland 3, Ohio, 25
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Wac Line, Inc., Ohio, 5, 15, 20, 25, 30, 45, 50, 55

Waldorf Instrument Co., Div. F. C. Huyck & Sons, N.Y., 32, 33, 34, 50

Wang Laboratories, Inc., Mass., 15, 32

Waters Mfg., Inc., Boston Post Rd., Wayland, Mass., 5, 25, 30, 50
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Tel: ELmwood 8-2777

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Waveforms, Inc., N.Y., 50

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Chesapeake Instrument Corp., Md., 10, Hydrophones

Connecticut Tel. & Elec. Co., Conn., 3, 5, 32

Duotone Co., Inc., N.J., 20

Dyna-Empire, Inc., N.Y., 32, Earphones, Hydrophones

Electro-Sonic Labs., N.Y., 3, 25, 32

Electro-Voice, Inc., Mich., 10, 25

Electrovert, Inc., N.Y., 15, 25

Fen-Tone Corp., N.Y., 5, 10, 20, 25, 30, 32, 35

General Dynamics Corp., Stromberg-Carlson Div., N.Y., 10, 15, 20, 25, 30, 32, 35

General Radio Co., 275 Massachusetts Ave., Cambridge 39, Mass., 15, 20, 25
See ad on Cover 4
Tel: TRowbridge 6-4400

Gotham Audio Dev. Corp., N.Y., 15, 35

Greibach Res. & Dev. Labs., N.Y., 3, Magnetic Throat

Hal-Hen Co., N.Y., Earphones

Hi-Lo TV Antenna Corp., Ill., 35

Hi-Video, Inc., N.Y., 5, 10, 15, 20, 25, 30, 35

Industrial Television, Inc., N.J., Megaphones

Intelex Systems, Inc., N.Y., 15, 25

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Lesa, S. P. A., Italy, 20, 25, 30, 35

Lewis Engrg. Co., Conn., 40

Luxo Lamp Corp., N.Y., 35

Medical Electronics Development Co., N.Y., 15

National Cine Equip., Inc., N.Y., 35

North American Philips Co., Inc., N.Y., 15, 20, 25

Northern Electric Co., Ltd., Canada, 25, 35

Omega Instrument Co., Calif., 15

Photocon Research Prods., Calif., 15

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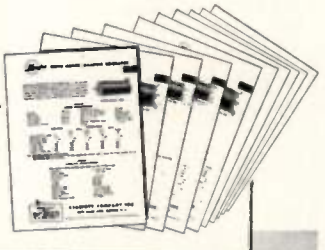
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South Central Office: 6211 Denton Drive, Dallas, Texas
West Coast Office: 253 N. Vinedo Avenue, Pasadena, Calif.

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Directory II. Components

43. Microphones & Stands.

Port-O-Vox Corp., N.Y., Wireless rf Microphones
Pye Telecommunications, Ltd., England, 5, 25
Racon Electric Co., Inc., N.Y., 35
Remler Co., Calif., 3, 25, Marine
Roanwell Corp., N.Y., 3, 5, 25, 32
Roflan Co., Mass., 3, 5, 25, 30, 32, 35
Ronette Acoustical Corp., N.Y., 20
Rye Sound Corp., N.Y., 20
Schindler, S., Calif., 15
Shure Brothers, Inc., Ill., 5, 20, 25, 30, 32, 35
Snyder Mfg. Co., Pa., 35

Sonotone Corp., Dept. COO-108, P.O. Box 200, Elmsford, N.Y., 10
See ad on page 291
Tel: LYric 2-6400

Symphony Electronics Corp., Calif., 20
Telephonics Corp., N.Y., 3, 5, 25, 32
Telex, Inc., Minn., 5, 25, 32
Tibbetts Industries, Inc., Marine, 20, 32

Trimm, Inc., 400 W. Lake St., Libertyville, Ill., 5
See ad on page 356
Tel: LIbertyville 2-3700

Turner Co., Iowa, 5, 10, 20, 25, 32, 35
Universal Microphone Co., Calif., 3, 5, 10, 15, 20, 25, 30, 32, 35
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Microwave amplifiers: See class 21

Microwave antennas: See class 3

Microwave attenuators: See class 22

Microwave filters: See class 36

Microwave power supplies: See class 47

Microwave receivers: See class 14

Microwave transmitters: See class 15

Microwave tuners: See class 60

Microwave, waveguides: See class 66

Monoscope tubes: See class 63

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44. Motors, Motor-Generators & Synchros.

5. Blower & fan motors
7. Clock radio
10. Dynamotors
12. Fractional HP
15. Frequency changers
20. Motor-generators
25. Phonograph
30. Servo
32. Speed regulating
35. Synchronous motors
37. Synchros
40. Timing motors

Aerolab Development Co., Calif., 10

Air-Marine Motors, Inc., 369 Bayview Ave., Amityville, L.I., N.Y., 5, 12, 30, 35
See ad on page 292
Tel: AMityville 4-3700

Airborne Accessories Corp., N.J., 12, 30
Allard Instrument Corp., N.Y., 5, 12, 30
Alliance Motors, Canada, 5, 15, 20, 25
Allied Industrial Electronics, Canada, 15, 20
American Electronics, Inc., Calif., 5, 12, 20, 35, 37
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Ashland Electric Prods., Inc., N.Y., 5, 12, 20, 35

Barber-Colman Co., Dept. 59D, 1256 Rock St., Rockford, Ill., 5, 12, 25, 30, 35
See ads on pages 328, 367
Tel: 8-6833

Basler Electric Co., Ill., 30
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Bekey Electric Co., Inc., Calif., 20, 30, 35

Bendix Aviation Corp., Eclipse-Pioneer Div., Teterboro, N.J., 12, 30, 37
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Tel: ATlas 8-2000

Bodine Electric Co., Ill., 12, 35, 40
Boehm Co., R. A., N.Y., 5, 12, 20, 32
Bone Engrg. Corp., Calif., 20

Borg Corp., Geo. W., Borg Equip. Div., 120 S. Main St., Janesville, Wis., 12, 35
See ad on page 408
Tel: PLeasant 4-6616

Borg-Warner Corp., Pesco Prods. Div., 5, 12
Brevel Prods., Corp., N.Y., 12
Bristol Motors Div., Vocaline Co. of America, Conn., 35, 40
Burke & James, Inc., Ill., Optical Systems
Camera Equip. Co., Inc., N.Y., 20, 35, 40
Canadian GE Co., Ltd., Canada, 5, 7, 10, 12, 15, 20, 30, 35, 40
Carter Motor Co., Ill., 10, 12, 15

Celco-Constantine Eng. Labs. Co., 70 Island Ave., Mahwah, N.J., 5, 12, 30, 37
See ad on pages 66-67, 128-129
Tel: DAvis 7-1123

Clifton Precision Products Co., Inc., Marple at Broadway, Clifton Heights, Pa., 20, 30, 37
See ad on pages 98-99
Tel: MAdison 6-2101

Connecticut Tel. & Elec. Co., Conn., 12
Consolidated Diesel Electric Corp., Conn., 5, 20
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Continental Electric Co., Inc., N.J., 10, 20
Control Data Corp., Minn., 30
Craig Corp., Mass., 5, 7, 12, 15, 20, 30, 35, 40
Cramer Controls Corp., Conn., 35, 40
D & R, Ltd., Calif., 15, 20

Dale Products, Inc., 1318 28th Ave., Columbus, Neb., 12, 25, 35, 40
See ad on pages 136-137
Tel: LOcust 4-3131

Dalmotor Co., Calif., 5, 12, 20, 30, 35
Derf Radio Co., N.Y., 10
Diehl Mfg. Co., N.J., 5, 12, 20, 30, 35
Dominion Electrohome Ind., Ltd., Canada, 5, 12

Dynamic Instrument Corp., 59 New York Ave., Westbury, L.I., N.Y., 30
See ad on page 514
Tel: EDgewood 3-1600

Eagle Signal Corp., Ill., 40
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Edison Industries, T. A., N.J., 30, 37
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Electric Auto-Lite Co., Ohio, 5
Electric Indicator Co., Inc., Conn., 5, 12, 20, 30, 32, 35, 37
Electric Motors & Specialties, Inc., Ind., 5, 12, 15
Electro Engineering Prods. Co., Inc., Ill., 5, 10, 12, 20
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Electronic Specialty Co., Conn., 10, 12, 15, 20
Elliott Bros., Ltd., England, 12, 30
Fairchild Camera & Instrument Corp., N.Y., 5, 12, 20, 25, 30, 40
Fasco Industries, Inc., N.Y., 5, 12, 25
Ford Instrument Co., N.Y., 30, 37
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G-M Laboratories, Inc., Ill., 20, 30
Garrett Corp., Calif., 5, 12, 20, 30, 35
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General Electric Co., Apparatus Sales Div., N.Y., 5, 10, 12, 15, 20, 25, 32, 35
General Electric Co., Clock & Timer Dept., Mass., 7, 35, 40
General Electric Co., Instrument Dept., Mass., 20
General Industries Co., Ohio, 5, 12, 25

General Radio Co., 275 Massachusetts Ave., Cambridge 39, Mass., 32
See ad on Cover 4
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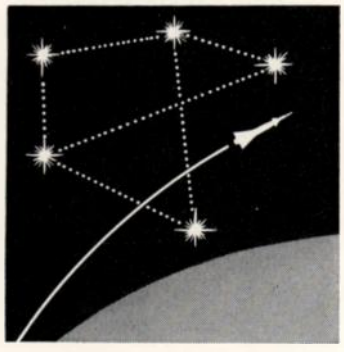
Georator Corp., Va., 15, 20
Gleason-Avery, Inc., N.Y., 12, 25, 35, 40
Globe Industries, Inc., Ohio, 5, 12, 30, 35
Gray Mfg. Co., Conn., 25, 35
Great Lakes Electric Mfg. Co., Ill., 10, 15, 20
Hansen Mfg. Co., Inc., Ind., 35, 40

Haydon Co., A. W., 240 N. Elm St., Waterbury 20, Conn., 20, 32, 35, 40
See ad on page 360
Tel: PLaza 6-4481

Haydon Instrument Co., Conn., 12
Heinze Electric Co., Mass., 5, 12

Code numbers shown after each firm refer to product or service sub-classes listed at the beginning of each major classification. Complete addresses will be found in the Alphabetical Directory.

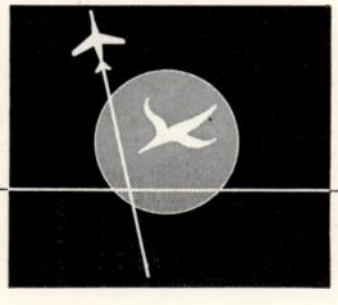




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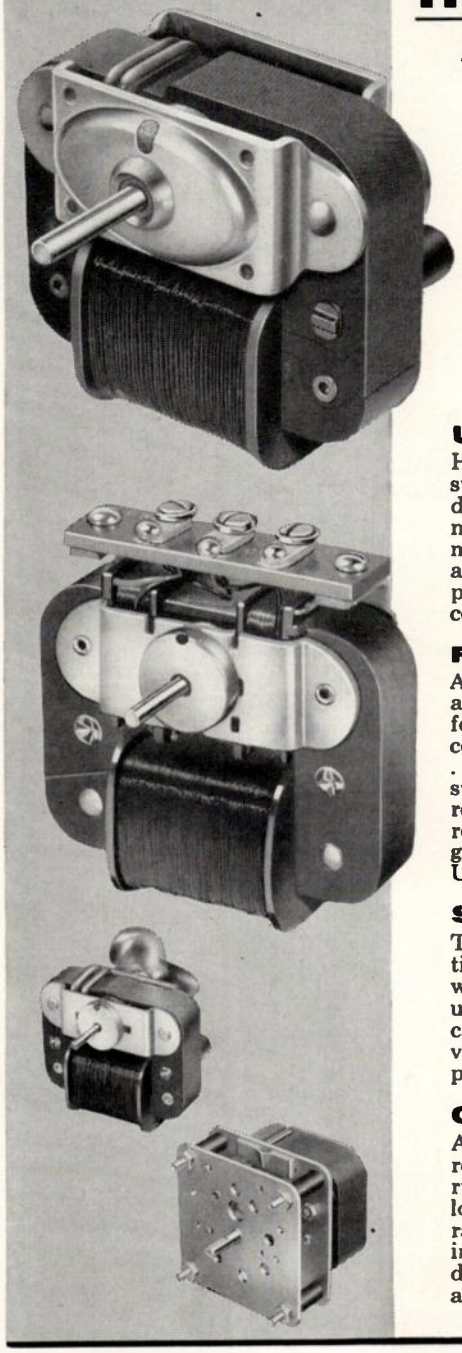
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HIGH QUALITY AT LOW COST

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Directory II. Components

44. Motors, Motor-Generators & Synchros

Helipot Corp., Calif., 30, 37
Hertner Electric Co., Ohio, 15, 20, 30, 35
Homelite Div. Textron, Inc., N.Y., 20
Hoover Co., Ltd., Canada, 5, 10, 12
Hoover Electric Co., Calif., 5, 10, 12, 20, 30, 35
Howard Industries, Inc., Wis., 5, 10, 12, 35, 40
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ILG Electric Ventilating Co., Ill., 5
Induction Motors of Calif., Div. Induction Motors, Calif., 35, 37
Induction Motors Corp., N.Y., 5, 10, 12, 20, 30, 32, 35, 37, Recording Motors
Ingraham Co., Conn., 7, 35, 40
Instrument Motors, N.J., 5, 12, 20, 25, 30, 35
Intelex Systems, Inc., N.Y., 25

Interelectronics Corp., 2432 Grand Concourse, New York 58, N.Y., 10, 15
See ads on pages 268, 376
Tel: LUdlow 4-6200

Jack & Heintz, Inc., Ohio, 5, 10, 12, 20
Katolight Corp., Minn., 15, 20

Kearfott Co., Inc., 1378 Main Ave., Clifton, N.J., 12, 20, 30, 35, 37
See ad on page 364
Tel: GRegory 2-1000

Kellogg Switchboard & Supply Co., Ill., 15, 20
Kelvin & Hughes, Ltd., N.Y., 30, 35, 37

Kollsman Instrument Corp., 80-08 45th Ave., Elmhurst 73, L.I., N.Y., 30, 35, 37
See ad on page 366
Tel: NEwtown 9-2900

L & R Mfg. Co., N.J., 12
Leach Corp., Calif., 15, 20, 30, 35
Leach Corp., Inet Div., Calif., 15, 20, 35
Lear, Inc., Calif., 12, 30, 35, 37
Lear, Inc., Mich., 12
Lear, Inc., Lear-Romec Div., Ohio, 12, 30
Lesa, S. P. A., Italy, 5, 12, 25
Luther Mfg. Co., Calif., 5, 12, 20, 30, 35, 40

Magnetic Research Corp., 3160 W. El Segundo Blvd., Hawthorne, Calif., 30
See ad on page 282
Tel: OSborne 5-1171

Master Appliance Mfg. Co., Wis., 5, 12
Metox, France, 12
Midwestern Instruments, Okla., 30
Minneapolis-Honeywell Reg. Co., Boston Div., Mass., 30, 35, 37
Minneapolis-Honeywell Reg. Co., Mil. Prods. Group, Minn., 12, 30, 35
Molon Motor & Coil Corp., Ill., 5, 12, 15, 25, 35, 40
Motoresearch Co., Wis., 12, 20
Muirhead & Co., Ltd., England, 30, 35, 37, 40
Muirhead Instruments, Inc., N.Y., 30, 35

COMPLETE LINE 125° C

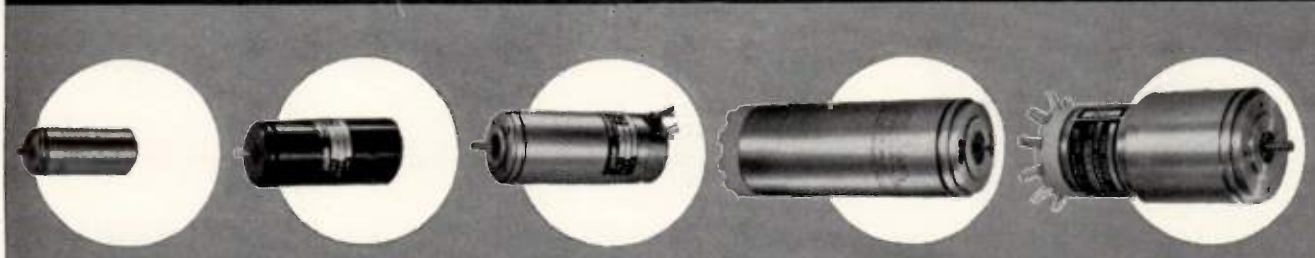
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- Assembled under closely controlled environmental conditions.

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Oster Type	Size	Length Inches	Wt. Oz.	Rotor Inertia gm cm²	MOTOR					GENERATOR				
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8MTG-6201-01	8	1.850	2.3	0.77	26	40/20	6,500	2.2	0.16	26	0.25	0.5	15	± 5°
*10MTG-6228-02	10	2.157	4.2	0.72	115	115/57 5	9,500	2.8	0.26	115	0.45	1.5	19	±10°
10MTG-6229-12	10	2.100	2.9	1.09	33/16.5	52/26	9,500	3.0	0.28	26	0.45	1.5	13	±10°
*10MTG-6229-03	10	2.100	2.9	1.09	26	26	10,500	3.0	0.26	18	0.3	1.5	12	±10°
10MTG-6229-15	10	2.100	2.9	1.09	26	26	10,500	3.0	0.26	26	0.3	1.5	12	±10°
*10MTG-6232-05	10	2.104	4.2	1.1	115	36/18	6,500	3.5	0.26	115	0.30	1.5	15	±10°
11MTG-6251-13	11	2.531	7.0	1.3	115	115/57.5	6,500	3.5	0.63	115	0.55	0.5	19	±10°
11MTG-6251-00	11	2.531	7.0	1.1	115	40/20	6,500	3.5	0.63	115	0.55	1 5	19	±10°
11MTG-6254-01	11	2.200	6.0	1.1	115	115/57.5	6,500	3.5	0.63	115	0.55	1.5	19	±10°
15MTG-6280-01	15	3.281	14.0	5.3	115	115/57.5	5,000	6.2	1.5	115	3.0	0.2	13	± 5°
†15MTG-6276-03	15	3.875	15.0	4.4	115	57.5	8,500	5.8	0.70	115	2.75	0.2	13	± 0.5°
18MTG-6302-02	18	3.680	20.0	5.7	115	115/57.5	9,000	16.0	2.7	115	3.0	0.2	13	± 5°
18MTG-6302-04	18	3.680	20.0	5.7	115	115/57.5	4,800	9.2	2.4	115	3.0	0.2	13	± 5°

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Directory II. Components

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National Carbon Co., N.Y., Brushes, Carbon, Graphite
National Pneumatic Co., Inc., Holtzer Cabot Div., Mass., 5, 10, 12, 20, 35, 40
Norden-Ketay Corp., Precision Components Div., N.Y., 30, 35, 37
Ohio Crankshaft Co., Tocco Div., Ohio, 20

Opad Electric Co., 69-8 Murray St., New York 7, N.Y., 15
See ad on page 383
Tel: BEekman 3-7548

Oster Mfg. Co., John, Avionic Div., 1 Main St., Racine, Wis., 5, 12, 20, 30, 35, 37, 40
See ad on page 368
Tel: MElrose 3-6331

P S P Engineering Co., Calif., 30, 37
Paragon Electric Co., Wis., 35, 40
Pitometer Log Corp., N.Y., 15, 32
Radio Research Instrument Co., N.Y., 20
Rae Motor Corp., Wis., 5, 12
Redmond Co., Inc., Mich., 5, 10, 12, 20, 25
Reynolds Electric Co., Ill., 12

Ripley Co., Inc., P.O. Box 31, 1 Factory St., Middletown, Conn., 5, 12
See ad on page 294
Tel: DIamond 6-6679

Robertshaw-Fulton Controls Co., Acro Div., Ohio, 12
Rockbar Corp., N.Y., Vibration Generators

Rotating Components, Inc., 269 Green St., Brooklyn 22, N.Y., 5, 12, 20, 30, 35
See ad on page 294
Tel: EVergreen 9-3490

Rotron Mfg. Co., Inc., N.Y., 5, 12
Sangamo Electric Co., Ill., 7, 10, 12, 35, 40
Servo-Tek Products Co., N.J., 5, 12, 20, 30, 32
Servomechanisms, Inc., N.Y., 12, 20, 30, 35, 37
Servomechanisms, Inc., Calif., 12, 20, 30, 32, 35, 40
Singer Mfg. Co., Military Prods. Div., N.Y., 5, 12, 30, 40
Small Motors, Inc., Ill., 5, 10, 12, 20, 30, 32, 35
Specialties, Inc., N.Y., 12, 30, 35
Sperry Gyroscope Co. of Canada, Ltd., 5, 30
Sperry Rand Corp., Wright Mach. Co., Div., N.C., 12, 20
Stepper Motors Corp., Calif., Incremental
Sterling Precision Corp., N.Y., 30
Sturrup, Inc., Conn., 30
Syntorque, Inc., N.Y., 12, 20, 25, 30, 35

Technical Apparatus Builders, 109 W. Liberty St., New York 6E, N.Y., 15
See ad on page 384
Tel: REctor 2-6248

Technical Electronics Corp., Calif., 25, 35
Thompson Products, Inc., Electronics Div., Ohio, 30

Times Facsimile Corp., 540 West 58th St., New York 19, N.Y., 35, 40
See ad on page 497
Tel: JUdson 2-3030

Torrington Mfg. Co., Conn., 5
Transicoil Corp., Pa., 30
Turner & Co., W. R., Calif., 35
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Universal Electric Co., Mich., 5, 12
Vocaline Co. of America, Inc., Conn., 35, 40, Clock
Wac Line, Inc., Ohio, 15, 20, 32
Waldorf Instrument Co., Div., F. C. Huyck & Sons, N.Y., 30, 37
Warren Corp., J. C., N.Y., 35
Western Gear Corp., Electro Prod. Div., Calif., 5, 12, 20
Westinghouse Electric Corp., Pa., 5, 12, 20
Wickes Engineering, N.J., 15, 20, 32

Wincharger Corp., E. 7th & Division Sts., Sioux City 2, Iowa, 10, 12, 20
See ad on page 240
Tel: 2-1844

Multimeters: See class 72

Nameplates: See class 87

Neon lights: See class 46

Nuts: See class 87

Orthicons, image: See class 63

Oscilloscopes: See class 79

Permanent magnets: See class 41

45. Phonographs, Pick-ups, Record Changers, etc.

5. Pick-ups—crystal
10. Pick-ups—dynamic
15. Pick-ups—magnetic
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35. Record players
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50. Styli—sapphire
55. Tape phonographs & playback equipment

A.P.W. Co., N.J., 15
Admiral Corp., Ill., 30
Airtronix Development Corp., N.Y., 35, 55
Alliance Mfg. Co., Ohio, Phono Motors
American Phono Needle Co., N.Y., 5, 40, 45, 50
Andrea Radio Corp., N.Y., 35

Applied Research, Inc., 76 S. Bayles Ave., Port Washington, L.I., N.Y., 50
See ad on page 276
Tel: POrt Washington 7-8707

45. Phonographs, Pick-ups, Record Changers, etc.

Argonne Electronics Mfg. Corp., N.Y., 5, 25, 50
Astatic Corp., Ohio, 5, 10, 15, 20, 25, 40, 45, 50
Audiomation Labs., Pa., 55
Audio-Video Corp., N.Y., 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55
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Bogen Co., Inc., D., N.J., 35
British Industries Corp., Wharfedale Div., N.Y., 10, 25
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Diamond Tool Engrg. Co., Mass., 40
Dictograph Prods., Inc., N.Y., 55
Dumont Labs., Inc., A. B., International Div., N.Y., Hi-Fi Phonographs
Duotone Co., Inc., N.J., 5, 40, 45, 50
EMI Electronics, Ltd., England, 55
Electro-Sonic Labs., N.Y., 10, 25
Electromation Co., Calif., 15, 55
Electrovox Co., Inc., N.J., 40, 45, 50

Erie Resistor Corp., 644 W. 12th St., Erie 6, Pa., 5, Ceramic (Stereo)
See ad on pages 62-63
Tel: ERie 2-1481

Fairchild Recording Equipment Corp., N.Y., 15, 25, 35
Fen-Tone Corp., N.Y., 5, 10, 15, 20, 30, 35, 40, 45, 50, 55
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Garrard Sales Corp., N.Y., 25, 30, 35
General Dynamics Corp., Stromberg-Carlson Div., N.Y., 30, 35
General Electric Co., Specialty Electronic Components Dept., N.Y., 15, 20, 25, 40, 50
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Gray Mfg. Co., Conn., 5, 15, 20, 25, 35

Heath Co., Subsidiary of Daystrom, Inc., Benton Harbor 4, Mich., 55
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Tel: YUkon 3-3961

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Hi-Video, Inc., N.Y., 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55
Kinevox, Div. of Electromation Co., Calif., 15, 55
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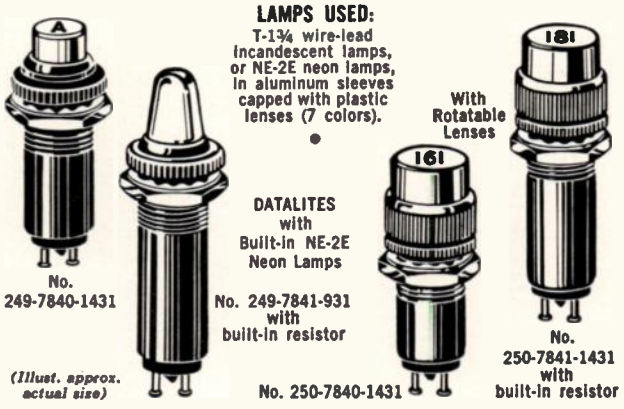


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45. Phonographs, Pick-ups, Record Changers, etc.

Magnavox Co., Ind., 35
Magnecord, Inc., Ill., 55
Micro-Electric Magnetic Instruments, Calif., 40, 50
Microtran Co., Inc., 145 E. Mineola Ave.,Valley Stream, L.I., N.Y., 10
See ad on page 442
Tel: LOcust 1-6050
Midwestern Instruments, Okla., 55
Miller Mfg. Co., M. A., Ill., 40, 45, 50
Molded Insulation Co., Pa., 35
Newcomb Audio Products Co., Calif., 35
North American Philips Co., N.Y., 10, 15
Norton Associates, Inc., N.Y., 15
Pacific Transducer Corp., Calif., 15, 20, 25, 40, 50
Panseal, Inc., N.J., 15
Permo, Inc., Ill., 40, 45, 50
Pfanstiehl Chemical Corp., Ill., 40, 45, 50
Philco Corp., Government & Industrial Div., Pa., 5, 10, 30, 55
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Precision Radiation Instruments, Calif., 35
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Recoton Corp., N.Y., 5, 15, 20, 40, 45, 50
Reeves Soundcraft Corp., N.Y., 50
Rek-O-Cut Co., Inc., N.Y., 25, 35
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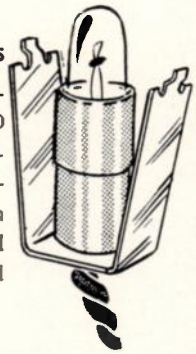
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Rockbar Corp., N.Y., 30, 35
Rogers Electronic Tubes & Components, Canada, 15
Ronette Acoustical Corp., N.Y., 5, 25, 50
Scott, Inc., Hermon Hosmer, Mass., 35
Seeburg Corp., The, Ill., 30
Shure Brothers, Inc., Ill., 5, 15, 25, 40, 50
Sonotone Corp., Dept. COO-108, P.O. Box 200, Elmsford, N.Y., 5, 40, 50, Ceramic (Pickups)
See ad on page 291
Tel: LYric 2-6400
Stromberg-Carlson-Special Prods. Div., N.Y., 30, 35
Swiss Jewel Co., Pa., 40, 50, Saphire Jewel Bearings
Symphony Electronics Corp., Calif., 5, 20, 25, 35, 55
Telectro Industries Corp., N.Y., 55
Televex Co., N.Y., 5, 40, 45, 50
Tetrad Co., Inc., N.Y., 40
Turner Co., Iowa, 5
V-M Corp., Mich., 30, 35, 55
Warwick Mfg. Corp., Ill., 30, 35, 55
Waters Conley Co., Inc., Minn., 35
Weathers Industries, N.J., Ceramic Pickups, F.M. Pickups, Turntables
Webster Electric Co., Wis., 5, 25

Phosphors: See class 97

Photoconductors: See class 54

Phototubes: See class 62

Picture tubes: See class 61

46. Pilot Lights & Assemblies.

5. Brackets, jewels, mounts
10. Incandescent lights
15. Neon lights

Aerolite Electronics Corp., N.J., 5
Aerolux Lights Corp., N.Y., 15, Spectrum Lightsources
Aeronautical Electric Co., 5656 Northwest Highway, Chicago 46, Ill., 5
See ad on page 370
Tel: SPring 4-5200
Alden Products Co., 9140 N. Main St., Brockton 64, Mass., 5, 10, 15
See ad on page 319
Tel: BRockton 160
Amaton Elec. Hardware Co., N.Y., 5
Arcolectric Switch, N.Y., 5, 10, 15

46. Pilot Lights & Assemblies.

Automatic & Precision Mfg. Co., 252 Hawthorne Ave., Yonkers 5, N.Y., pilot light seals
See ad on page 424
Tel: YOnkers 8-2010
Brunswick Instrument, N.J., 15 Phase Sequence Indicator
Carling Electric, Inc., Conn., 15
Chicago Miniature Lamp Works, 1508 N. Ogden Ave., Chicago 10, Ill., 10, 15, sub-miniature incandescent lamps
See ad on this page
Tell: MOhawk 4-1741
Circon Component Corp., Santa Barbara Municipal Airport, Goleta, Calif., 5, 10, 15
See ad on page 321
Tel: WOodland 7-1113
Cutler-Hammer, Inc., Wis., 5
Derf Radio Co., N.Y., 5, 15
Dialight Corp., 60 Stewart Ave., Brooklyn 37, N Y., 5, 10, 15
See ad on page 370
Tel: HYacinth 7-7600
Drake Mfg. Co., 1713 W. Hubbard St., Chicago 22, Ill., 5, 10, 15
See ad on this page
Tel: CHesapeake 3-4462



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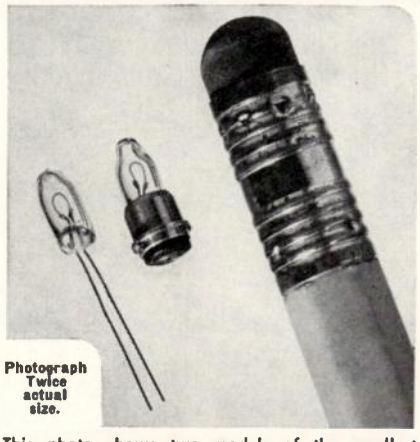
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Eastern Insulated Wire Corp., N.J., 10, 15

Eastern Specialty Co., Pa., Phase Sequence Indicator

Eldema Corp., 1805 Belcroft Ave., El Monte, Calif., 5, 10, 15
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Tel: GIlbert 4-7077 & CUmberland 3-3498

Electro-Mechanical Instruments Co., Pa., Flag Indicator

Electro-Snap Switch Co., Ill., Lighted Pushbuttons, Hermetically Sealed

Engineered Electronics Co., Calif., 15, High Sensitivity

General Cement Mfg. Co., 400 S. Wyman St. Rockford, Ill., 5, 10, 15
See ad on page 252
Tel: ROckford 8-9661

General Electric Co. Miniature Lamp Dept., Chio, 10, 15

Herzog Miniature Lamp Works, Inc., N.Y., 10 Lamps

Hetherington Inc., Pa., 5, 10, 15

Industrial Devices, Inc., N.J., 5, 15

Johnson Co., E. F., Minn., 5

Kirkland Co., H. R., N.J., Indicator Lights

Kulka Electric Corp., 633-643 S. Fulton Ave., Mt. Vernon, N.Y., 5, 10
See ad on page 551
Tel: MOunt Vernon 4-4024

Leecraft Mfg. Co., Inc., N.Y., 5, 10, 15

Leviton Mfg. Co., N.Y., 10, 15

Marco Industries Co., Calif., 5, 10, 15

McDermott Corp., J. A., N.Y., 10, 15

Micarta Fabricators, Inc., Ill., 5

National Carbon Co., N.Y., 10

O & S Research, Inc., N.J., 5

Oxford Electric Corp., Ill., 10

Philmore Mfg. Co., Inc., N.Y., 5

Plasteck, Inc., Okla., Bulbs

Radio Components, Ltd., Canada, 5

Signalite, Inc., N.J., 15

Smith Mfg. Co., J. & H., N.Y., 5, 10

Symphony Electronics Corp., Calif., 5, 10, 15

Tingstol Co., Ill., 5, 10, 15

Transistor Electronics Corp., 3362 Republic Ave., Minneapolis 26, Minn., 5
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Tel: WEst 9-6754

Tung-Sol Electric, Inc., 95 Eighth Ave., Newark 4, N.J., 10
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Tel: HUmboldt 2-4200

Ucinite Co., Div. United Carr Fastener Corp., Mass., 15

Union Switch & Signal Div., Westinghouse Air Brake Co., 1789 Braddock Ave., Pittsburgh 18, Pa., Data display
See ad on page 404
Tel: CHurchill 2-5000

Vemaline Products Co., N.J., 10, 15

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Westgate Lab., Inc., Ohio, 10

Westinghouse Electric Corp., Pa., 10

Westinghouse Electric Corp., N.J., 10, 15

Pins & Prongs: See class 97

Pirani tubes: See class 62

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ACF Industries, Inc., N.J., 2, 4, 17, 25, 35, 40

AMP, Inc., Pa., 4, 5, 15, 40

Accessory Controls & Equip. Corp., Conn., 4

Acme Electric Corp., 449 Water St., Cuba, N.Y., 2, 4, 15, 35, 37, 40
See ad on page 434
Tel: CUba 4

Aeroflex Research, Inc., N.Y., 2

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Aerovox Corp., Mass., 2, 4

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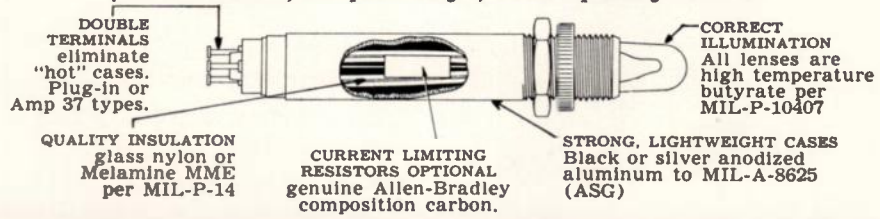
Airborne Accessories Corp., N.J., 2, 4

Aircom, Inc., 354 Main St., Winthrop 52, Mass., 10, 15, 25, 37, 40
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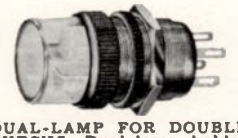
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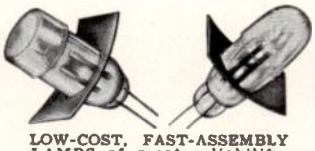
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Aircraft Electronics, Ariz., 2, 4, 5, 10, 15, 17, 20, 35, 37, 40
Aircraft Radio Corp., Boonton, N.J., 4, 35
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Tel: DEerfield 4-1800
Airmec, Ltd., England, 10, 40
Air-O-Tronics Engrg. Co., Calif., 37
Airpax Products Co., P.O. Box 8488, Ft. Lauderdale, Fla., 2, 4, 5, 15, 17, 20, 40
See ad on pages 106-107
Tel: LU 3-6160
Alden Electronic & Impulse Recording Equipment Co., Alden Research Center, P.O. Box 125, Westboro 6, Mass., 4
See ad on page 258
Tel: FOrest 6-4467
Alfred Electronics, Calif, 5, 10, 25, TR Tube & Sweeping Types
Allied Industries Electronics Canada, Canada, 4, 40
Altair Co., Calif., 35. 40
Alto Scientific Co., Inc., Calif., 4, 5, 10, 15, 20, 25, 35, 37, 40
Amerac, Inc., Mass., 25
American Electronic Labs. Inc., Pa., 4, 15, 35, 40
American Electronics, Inc., Calif., 2, 4, 17, 25, 40
American Mach. & Foundry Co., Va., 2, 4, 5, 20, 30, 35, 40
American Measurement, Mass., 4, 37, 40
American Microwave Corp., Calif., 10, 25
American Missile Prods. Co., Inc., Calif., 2, 4, 5, 15, 20, 35, 40
American Research & Mfg. Corp., Md., 2, 4, 15, 20, 35, 40
American Television & Radio Co., 300 E. 4th St., St. Paul 1, Minn., 2, 4, 15
See ad on page 326
Tel: CApital 2-3791
Amplifier Corp. of America, N.Y., 2, 4, 15, 20, 35, 37, 40
Applegate & Co., C. J., Colo., 4, 5, 10, 15, 20, 35
Applied Radiation Corp., Calif, 10
Arnold Magnetics Corp., Calif., 2, 4, 5, 15, 17, 20, 35, 40
Arnoux Corp., Calif., 2, 4, 15, 17, 20, 35, 40
Associated Engrg. Corp., Mass., 4, 40
Associated Research, Inc., 3792 W. Belmont Ave., Chicago 18, Ill., 2, 4, 5
See ad on page 480
Tel: COrnelia 7-4040
Associated Specialties Co., 1751 Main St., Orefield, Pa., 40
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Tel: EXpress 5-1275
Atlantic Research Corp., Va., 4, 40
Atlas Engrg. Co., Inc., Mass., 40
Atomic Labs., Inc., Calif., 5
Audicon Electronics, Inc., N.J., 2, 4, 15, 17, 20, 35, 40
Autonetics, Calif., 5
Avco Mfg. Corp., Mass., 35
Avionics Ltd., Canada, 10, 35
B/R Electronics, Inc., N.Y., 2, 4, 35
Bailey Electronics Lab., P.A., Conn., 2, 4, 15, 20, 35, 37, 40
Baird-Atomic, Inc., 33 University Rd., Cambridge 38, Mass., 5
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Tel: UNiversity 4-7420
Barber Labs., A. W., N.Y., 35
Barker & Williamson, Inc., Pa., 2, 4, 5, 35
Barwood Electronics Inc., Calif., 2, 4, 40
Basler Electric Co., Ill., 2, 4, 5, 10, 15, 17, 20, 35, 37, 40
Behlman Engineering Co., 2911 Winona Ave., Burbank, Calif., 2
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47. Power Supplies.

Bendix Aviation Corp., Red Bank Div., Electron Tube Section, Route 35, Eatontown, N.J., 2, 4, 35, 37, 40
See ad on page 97
Tel: EAtontown 3-2000

Bergen Laboratories, Inc., 247 Crooks Ave., Clifton, N.J., 2, 4, 40
See ad on page 359
Tel: GRegory 3-7880

Beta Electric Corp., Conn., 2, 4, 5, 10

Bludworth Marine Div., Kearfott Co., N.J., 35, 40

Booth Co., A. E., Calif., 2, 4, 37

Bracke-Seib X-Ray Co., Inc., N.Y., 2, 4, 5

Bradley Labs., Inc., 170 Columbus Ave., New Haven 11, Conn., 4
See ad on page 392
Tel: MAin 4-3123

Brocker Labs., Calif., 15, 40

Brooks Research, Inc., N.Y., 4, 5, 15, 17, 20, 35, 37, 40

Browning Labs., Inc., Mass.. 10, 25

Burroughs Corp., Electronic Tube Div., N.J., 4, 15, 40

Cal-Air Engrg., Inc., Calif., 2, 4, 15, 20, 35, 40

Caledonia Electronics & Transformer Corp., Dept. ID, P.O. Box 98, Caledonia, N.Y., 5, 35
See ad on page 436
Tel: KE 8-4423

California Computer Prods., Calif., 15, 35, 37, 40

California Technical Ind., Calif., 25

Camden Electronics, Inc., N.J., 2, 4, 15, 35, 40

Campbell Co., Inc., C., Conn., 40

Canadian GE Co., Ltd., Canada, 2, 4, 5, 10, 15, 17, 20, 25, 35, 37, 40

Canadian Research Inst., Canada, 2, 4, 5, 15, 37, 40

Canadian Westinghouse Co., Ltd., Canada, 2, 4, 35

Caterpillar Tractor Co., Ill., 30

Central Transformer Co., Ill., 5

Centronix, Inc., Fla., 2, 4, 20, 35, 40

Chatham Electronics, N.J., 40

Chicago Condenser Corp., Dept. A, 3255 W. Armitage Ave., Chicago 47, Ill., 2, 4, 5, 10, 15, 20, 35, 37, 40
See ad on page 374
Tel: CApitol 7-7070

Chicago Standard Transformer Corp., 3514 W. Addison St., Chicago 18, Ill., 40
See ad on page 437
Tel: INdependence 3-7400

Clegg Labs. Div. Clegg, Inc., N.Y., 4, 5, 10, 15, 20, 25, 37, 40

Collins Electronics Mfg. Corp., Md., Vibration Type

Coil Engrg. & Mfg. Co., Inc., Ind., 2

Coils Electronics Co., Pa., 2, 4

Collins Radio Co., Iowa, 25

Communication Accessories Co., Hwy. 50 & 71 By Pass, Lee's Summit, Mo., 35
See ad on pages 57-60
Tel: (Kansas City) BRoadway 1-1700

Communication Measurements Lab., Inc., 350 Leland Ave., Plainfield, N.J., 2, 35, 40
See ad on page 374
Tel: PLainfield 4-5502

Compagnie Generale De Metrologie, France, 4

Connecticut Tel. & Elec. Co., Conn., 2, 4, 5, 20, 35, 40

Consolidated Avionics Corp., N.Y., 35, 37, 40

Consolidated Diesel Elec. Corp., Conn., 2, 4, 30

Consolidated Electrodynamics Corp., Calif., 2, 4, 35, 40

Continental Electric Co., Inc., N.J., 30

Control Devices, Inc., Mich., 2, 4, 37, 40

Control Electronics Co., Inc., 10 Stepar Pl., Huntington Station, L.I., N.Y., 2, 4, 10, 25, 35, 40
See ads on pages 343, 507
Tel: HAmilton 7-7961

Cook Co., F. R., Colo., 4

Cornell-Dubilier Electric Corp., 333 Hamilton Blvd., South Plainfield, N.J., 2, 40
See ad on Cover 3
Tel: PLainfield 6-9000

Craig Corp., Mass., 5

Cubic Corp., Calif., 4, 10, 40

D & R, Ltd., Calif., 17, 35

Datascan, Inc., N.J., 2, 4, 15, 35, 37, 40

Daven Co., N.J., 35

Daystrom, Inc., N.J., 2, 4, 15, 35, 40

Daystrom Instruments, Pa., 37, 40

De Coursey Engrg. Lab., Calif., 35

Del Electronics Corp., Dept. ID, 521 Homestead Ave., Mount Vernon, N.Y., 2, 4, 5, 10, 15, 20, 37, solid dielectric
See ad on page 374
Tel: OWens 9-3232

Deltron, Inc., Pa., 4, 5, 15, 20, 35, 37, 40

DeMornay-Bonardi, 780 S. Arroyo Pkwy., Pasadena, Calif., 10, 25
See ad on pages 50-51
Tel: SYcamore 2-4142

Dictograph Prods. Inc., N.Y., 2, 4

Digital Equipment Corp., Main St., Maynard, Mass., 15
See ad on page 473
Tel: TWinoaks 7-8821

Donner Scientific Co., Calif., 4

Douglas Radio Labs., Mass., 40

Dressen Barnes Corp., Calif., 2, 4, 15, 17, 20. 35, 37, 40

Dresser Electric Co., Mich., 4, 15

Dumont Labs., Inc., A. B., Instr. Div., N.J., 2, 40

Dunlap Electronics, Inc., Iowa, 4, 35, 37, 40

Dynamic Controls Co., Mass., 4, 15, 17, 20, 35, 37, 40, Custom Built DC Reg

Dynamics Research Assoc., Mo., 4, 15

E A K Research Labs., N.Y., 5



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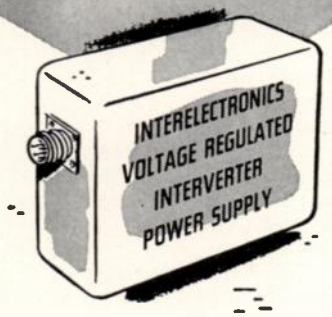
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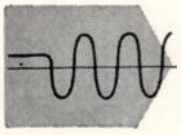
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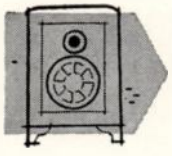
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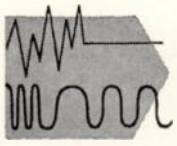
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DC to DC and DC to AC solid-state power converters voltage regulated, frequency controlled, for missiles, telemetering, gyros, servos

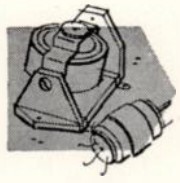












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E M I Electronics Ltd., England, 2, 4, 5, 10, 15, 20, 25, 40
Eder Engrg. Co., Inc., Wis., 4, 37, 40
Edin Co., Inc., Mass., 2, 4
Eicor Div., Ill., 2, 4, 15, 20, 35, 40
Elcor, Inc., Va., 4, 5, 15, 20, 35, 37, 40, Subminiature & Isolated
Electric Eye Equip. Co., Ill., 4, 5, 10, 40
Electro Development Corp., Wash., 2, 4, 5, 10, 15, 25, 35, 40
Electro Engineering Prods. Co., Inc., Ill., 4
Electro Engineering Works, Calif., 4, 5, 10, 15, 20
Electro-Prods. Labs., Inc., Ill., 4
Electromation Co., Calif., 4, 35, 40
Electronic Assembly Co., Inc., Mass., 4, 15, 35, 37, 40
Electronic Associates, Inc., N.J., 4, 35
Electronic Communications Inc., Calif., 4, 15, 20
Electronic Communications Inc., Fla., 5, 15, 20
Electronic Measurements Co., Inc., Lewis St. & Maple Ave., Eatontown, N.J., 2, 4, 15, 20, 35, 37, 40
See ad on page 375
Tel: EAtontown 3-0300
Electronic Plastics Co., Calif.. 35
Electronic Research Associates, Inc., 67 Factory Pl., Cedar Grove, N.J., 2, 4, 5, 10, 15, 20, 35, 37, 40
See ad on page 160
Tel: CEnter 9-3000
Electronic Specialty Co., Calif., 2, 4, 17, 35, 40
Elliott Bros. Ltd., England, 10, 25
Elsin Electronics Corp., N.Y., 25, 35
Embassy Engrg. Co., N.Y., 5
Empire Devices Products Corp., 37 Prospect St., Amsterdam, N.Y., 2
See ad on page 462
Tel: VIctor 2-8400
Endevco Corp., Calif., 40
Engineered Sound Systems, Ltd., Canada, 4, 15
Engineering Specialty Co., Utah, 4, 5, 15, 20, 37, 40
Enslein, K., N. Y., 40
Entron, Inc., Md., 20, 40
Epsco, Inc., Mass., 37
Era Pacific, Inc., 1760 Stanford St., Santa Monica, Calif., 4, 5, 10, 35, 37, 40
See ad on page 160
Tel: EXbrook 3-0511
Espey Mfg. Co., Inc., N.Y., 2, 4, 5, 10, 15, 17, 25, 35, 40
F-R Machine Works, Inc., 26-12 Borough Pl., Woodside 77, N.Y., 5, 10, 25
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Tel: AStoria 8-2800
Fairfield Eng. Corp., Conn., 17, 35
Federal Telecommunication Labs., Calif., 4, 35
Ferranti Electric, Inc., N.Y., 15, 35
Ferranti Electric Ltd., Canada, 4, 35, 40
Ferrotran Electronics Co., N.Y., 2, 4, 15, 17, 20, 35, 37, 40
Fidelity Instrument Corp., Pa., 40
Film Capacitors, Inc., N.Y., 2, 5, 37
Filtron Co., Inc., N.Y., 5
First Electronics Corp., Mass., 2, 4, 5, 15, 20, 37, 40
Fluke Mfg. Co., Inc., John, Wash., 4, 5, 15, 20, 40
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47. Power Supplies.

Foto-Video Labs., Inc., 36 Commerce Rd., Cedar Grove, N.J., 4, 5, 15, 20, 40
See ad on page 376
Tel: CEnter 9-6100

Fox Products Co., Pa., 4, 15

Garrett Corp., Calif., 2, 4, 30, 40

Gates Electronic Co., 2090 Barnes Ave., New York 62, N.Y., 2, 4, 5, 15, 17, 20, 37, 40
See ad on this page
Tel: TYrone 2-6490

General Communications, Inc., Wis., 35, 40

General Devices, Inc., P.O. Box 253, Princeton, N.J., 2, 4, 35, 40
See ad on page 270
Tel: DAvis 9-2323

General Dynamics Corp., Stromberg-Carlson Div., N.Y., 2, 4, 20, 35, 37

General Electric Co., Apparatus Sales Div., N.Y., 4, 35, 37, 40

General Electric Co., Communication Prods., N.Y., 25, 35

General Electric Co., Rectifier Dept., Va., 2, 4, 5, 15, 17, 20, 35, 37, 40

General Electric Co., Ind., 2, 4, 5, 17, 40

General Instrument Corp., Automatic Mfg. Div., N.J., 35

General Magnetics, Inc., 135 Bloomfield Ave., Bloomfield, N.J., 17
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Tel: PIlgrim 8-2400

General Nuclear Corp., N.Y., 15, 37, 40

General Precision Lab., Inc., N.Y., 4

General Radio Co., 275 Massachusetts Ave., Cambridge 39, Mass.. 2, 4, 10, 15, 20, 37, 40
See ad on Cover 4
Tel: TRowbridge 6-4400

Gow Mac Instrument Co., N.J., 2

Granger Associates, Calif., 4, 5

Gulton Industries, Inc., N.J., 17

Hallamore Electronics Co., Calif., 4, 15, 35, 40

Hallicrafters Co., Ill., 2, 4, 5, 10, 15, 20, 25, 35, 40

Hamner Electronics Co., Inc., N.J., 4, 5, 15, 35, 40

Harrison Laboratories, Inc., 45 Industrial Rd., Berkeley Heights, N.J., 4, 15, 20, 35, 37, 40
See ad on page 174
Tel: CRestview 3-9123

Heath Co., Subsidiary of Daystrom, Inc., Benton Harbor 4, Mich., 2, 4, 40
See ad on page 482
Tel: YUkon 3-3961

Hermetic Seal Transformer Co. Div. SIE, Tex., 2, 4, 17, 20

Hertner Electric Co., Ohio, 2, 4, 15, 20, 30

Hesco Engineering, Calif., 4, 15, 35, 40

Hett Associates, Inc., N.J., 4, 5, 40

Hewlett-Packard Co., 275 Page Mill Rd., Palo Alto, Calif., 4, 10, 35
See ad on pages 3-18
Tel: DAvenport 5-4451

Hewson Co., Inc., N.J., 4, 5, 37, 40

Highland Engineering Co., 90 Magnolia Ave., Westbury, L.I., N.Y., 2, 4, 5, 15, 20
See ad on page 441
Tel: EDgewood 3-2933

Hoffman Electronics Corp., Hoffman Labs. Div.. Calif., 5, 10, Solarpower Supplies

Hoffman Engineering Corp., Conn., 4, 5, 35, 40

Homelite Div., Textron, Inc., N.Y., 2, 30

Hoover Electric Co., Calif., 2, 4

Hoover Electronics Co., Md., 4, 35, 40

Howard Industries, Inc., Wis., 30

Industrial Instruments, Inc., N.J., 2, 4, 5, 15, 35, 37, 40

Industrial Test Equipment Co., 55 E. 11th St., New York 3, N.Y., 2
See ad on page 483
Tel: GRamercy 3-4684

Industron Co., N.Y., 2, 4, 5, 15, 20, 35, 40

Interelectronics Corp., 2432 Grand Concourse, New York 58, N.Y., 2, 4, 5, 10, 15, 20, 35, 40
See ads on pages 268, 376
Tel: LUdlow 4-6200

International Fermont Mach. Co., Inc., N.Y., 30

International Resistance Co., Calif., 4, Regulated Mag-Amp, 40

International Tel. & Tel. Corp., Calif., 2, 4, 5, 15, 17, 20, 35, 40

International Tel. & Tel. Corp., Ind. Prods. Div., Calif., 2, 4, 5, 15, 17, 20, 35, 37, 40

Invar Electronics Co., Calif., 35

J-V-M Microwave Co., 9305 W. 47th St., Brookfield, Ill., 25
See ad on page 500
Tel: HUnter 5-2000

Jack & Heintz, Inc., Ohio, 2, 4

James Vibrapowr Co., 4050 N. Rockwell St., Chicago 18, Ill., 4, 35
See ad on page 328
Tel: COrnelia 7-6333

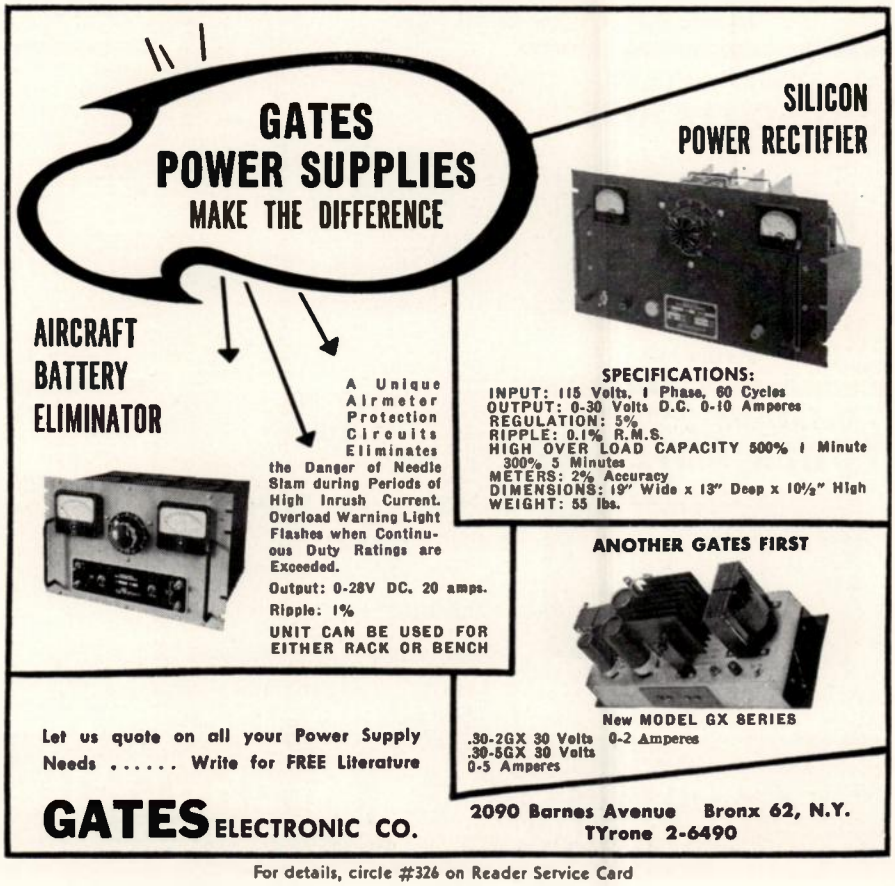
Jerrold Electronics Corp., Dept. 23, Jerrold Bldg., 15th & Lehigh, Philadelphia 32, Pa., 40
See ad on page 518
Tel: BAldwin 6-3456

Jobbins Electronics, 771 Hamilton Ave., Menlo Park, Calif., 2, 4, 5, 20, 35, 37, 40, current regulated
See ad on page 429
Tel: DAvenport 6-7110

Kaiser Aircraft & Elecncs. Div., Kaiser Ind. Corp., Ohio, 1/, 35

Kama Instrument Corp., N.Y., 25

Kay Electric Co., Dept. ID-9, Maple Ave., Pine Brook, N.J., 4, 10, 35
See ad on page 516
Tel: CApital 6-4000



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Model UHR-240

FEATURES

- LOAD REGULATION TO 0.001%
- EXTREMELY LOW OUTPUT IMPEDANCE TO 1 MC WITH NO PEAKS
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Model	Voltage	Current	Impedance		Other Outputs		Price
			D.C.	A.C.	Bias	Heaters	
UHR-240*	0-500v	0-500ma	0.005 ohms	0.05 ohms	0-150v, 0-5ma	6.3v ac, 10a 6.3v ac, 10a 5-13v dc, 2.5a	$625.00
UHR-245*	150-500v	0-500ma	0.01 ohms	0.05 ohms	—	6.3v ac, 10a 6.3v ac, 10a	$425.00
UHR-220**	0-500v	0-200ma	0.01 ohms	0.1 ohms	0-150v, 0.5ma	6.3v ac, 5a 6.3v ac, 5a	$390.00
UHR-230R Dual Supply consisting of two Models UHR-220, Rack Mounted							$790.00
UHR-225**	150-500v	0-200ma	0.02 ohms	0.1 ohms	—	6.3v ac, 5a 6.3v ac, 5a	$275.00
UHR-235R Dual Supply consisting of two Models UHR-225, Rack Mounted							$560.00

*Available for rack mounting at $5.00 additional. **Available for rack mounting at $10.00 additional

VARIABLE ELECTRONIC FILTERS



Model 330

FEATURES

- ULTRA-LOW FREQUENCY COVERAGE
- FREQUENCY RANGE 100,000 to 1 IN ONE INSTRUMENT
- DIRECT FREQUENCY CALIBRATION

Model	Type	Frequency Range	Frequency Accuracy	Noise & Hum	Price
310-AB*	Band Pass	20 cps to 200 kc	10%	1 mv	$295.00
330-A*	Band Pass	.02 cps to 2 kc	5%	0.1 mv	$475.00
330-M*	Band Pass	0.2 cps to 20 kc	5%	0.1 mv	$475.00
340-A	Servo	.01 cps to 100 cps	5%	10 mv	$385.00
350-A*	Rejection	.02 cps to 2 kc	5%	0.1 mv	$475.00
360-A*	Rejection	20 cps to 200 kc	10%	5 mv	$295.00

*Available for rack mounting at $5.00 additional.

WIDE RANGE RC OSCILLATORS



Model 420-A

FEATURES

- EXCEPTIONAL STABILITY
- WIDE FREQUENCY RANGE
- LOW DISTORTION

Model	Frequency Range	Frequency Accuracy	Output	Distortion	Price
400-A	.009 cps to 1.1 kc	2%	25 mw/10v	1%	$375.00
400-C***	.009 cps to 1.1 kc	2%	100 mw/10v	1%	$395.00
410-A***	.02 cps to 20 kc	2%	10 mw/5v	1/10%	$1050.00
420-A	.35 cps to 52 kc	2%	25 mw/10v	1%	$315.00
420-C***	.35 cps to 52 kc	2%	100 mw/10v	1%	$345.00
430-AB	4.5 cps to 520 kc	2%	50 mw/10v	1%	$145.00
440-A**	.001 cps to 100 kc	1%*	100 mw/10v	1/10%*	$550.00
440-B**	1 cps to 1 kc	1/20%*	100 mw/10v	1/10%	$950.00

All oscillators except 430-AB and 440-B have both sine wave and square wave outputs.
*Higher at end of range **Push Button Operation in Models 440 ONLY. ***Rack panel construction

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Model UF-101

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- DYNAMIC RANGE 110 DB
- 50 WATTS OUTPUT FROM 15 CPS TO 30 KC

SPECIFICATIONS

POWER OUTPUT.....50 watts from 15 cps to 30 kc
FEEDBACK.....80 db
FREQUENCY RESPONSE ±0.5 db from 0.5 cps to 30kc
±3 db from 0.03 cps to 70 kc
DYNAMIC RANGE.....110 db
OUTPUT IMPEDANCE.....2, 4, 8, 16 and 450 ohms
VOLTAGE GAIN.....14 db or 30 db to 16 ohm output
PRICE.....$425.00

Available for rack mounting at $5.00 additional.
Typical harmonic distortion at 1,000 cps is 0.003% in voltage at 50 watts.

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580 MASSACHUSETTS AVENUE, CAMBRIDGE 39, MASS., U. S. A.

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Directory II. Components

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Kearfott Co., Inc., 1378 Main Ave., Clifton, N.J., 2, 4, 15, 17, 20, 25, 35, 37, 40
See ad on page 364
Tel: GRegory 2-1000

Kearfott Co., Inc., Microwave Div., Dept. 24J, 14844 Oxnard St., Van Nuys, Calif., 25
See ad on page 458
Tel: STate 6-1760

Keithley Instruments, Inc., 12415 Euclid Ave., Cleveland 6, Ohio, 40
See ad on page 486
Tel: TRinity 1-8000

Kenyon Transformer Co., Inc., N.Y., 4, 35, 40

Kepco Labs., Inc., 131-38 Sanford Ave., Flushing 55, N.Y., 2, 4, 5, 10, 15, 17, 20, 25, 35, 37, 40
See ad on this page
Tel: INdependence 1-7000

Kinevox, Div. of Electromation Co., Calif., 4, 35, 40

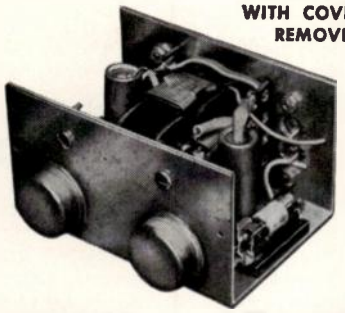
KinTel, Div. Cohu Electronics, 5725 Kearny Villa Rd., San Diego 11, Calif., 4
See ad on pages 80-81
Tel: BRowning 7-6700

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- A.C. to D.C.
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Krohn-Hite Corp., 580 Massachusetts Ave., Cambridge 39, Mass., 15, 20, 35, 37, 40
See ad on page 378
Tel: UNiversity 4-4272

Kupfrian Mfg. Corp., 157 Prospect Ave., Binghampton, N.Y., 35
See ad on this page
Tel: BInghamton 3-6426

L E E, Inc., D.C., 40
Labko Scientific, Inc., Okla., 35, 40
Laboratory Equip. Corp., Mich., 4, 5, 15
Laboratory for Electronics, Inc., Mass., 25

Lambda Electronics Corp., 11-11 131 St., College Point 56, N.Y., 4, 15, 20, 35, 37, 40
See ad on pages 19-24
Tel: INdependence 1-8500

Land-Air, Inc., Calif., 20
Land-C-Air Sales Co., N.Y., 25, 40
Lawn Electronics Co., Inc., N.J., 4, 5, 10, 15, 20, 37, 40
Leach Corp., Calif., 2, 4, 30, 37, 40
Leach Corp., Inet Div., Calif., 2, 4, 15, 20, 30, 40
Lear, Inc., Calif., 2, 4, 30, 40
Lee Electric & Mfg. Co., Calif., 4, 17, 40
Leeds & Northrup Co., Pa., 4
Lenkurt Electric Co., Inc., Calif., 2
Levinthal Electronic Prods., Inc., Calif., 5, 10, 25

Ling Electronics, Inc., 9937 W. Jefferson Blvd., Culver City, Calif., 2, 4, 5, high power
See ad on page 488
Tel: TExas 0-7711

Link Aviation, Inc., N.Y., 2
Litton Industries, Inc., Calif., 10, 25
Litton Industries, Md., 2, 4, 5, 15, 17, 20, 35, 37, 40
Lyons, Ltd., C., N.Y., 40

Macarr, Inc., Dept. R., 2543 Boston Rd., New York 67, N.Y., 5, 15, 20
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Tel: OLinville 3-3306

Maclaren & Co., Inc., F. B., N.Y., 40
Madigan Corp., N.Y., 4, 15, 20, 35, 40
Magnatran, Inc., N.J., 5, 10

Magnetic Amplifiers, Inc., 632 Tinton Ave., New York 55, N.Y., 2, 4, 35, 40
See ad on page 380
Tel: CYpress 2-6610

Magnetic Controls Co., Minn., 2, 4, 15, 17, 20, 35, 40
Magnetic Instruments Co., N.Y., 2, 4, 15, 35, 40

Magnetic Research Corp., 3160 W. El Segundo Blvd., Hawthorne, Calif., 4, 17, 35, 40
See ad on page 282
Tel: OSborne 5-1171

Magnetico, Inc., N.Y., 15
Mallory & Co., Inc., P. R., Ind., 35

Manson Labs., Inc., 207 Greenwich Ave., Stamford, Conn., 2, 4, 5, 10, 25, 40
See ad on page 498
Tel: DAvis 5-1391

Marantz Co., N.Y., Electronic Cross Over Type
Marine View Electronics, Inc., N.Y., 2, 4, 40
Maryland Electronic Mfg. Corp.. Md., 35
Maurer, Inc., J. A., N.Y., 4
Maxson Instrument Corp., N.Y., 2, 4, 40
Mayberry Electronics Co., Calif., 2, 4, 15, 35, 37, 40
Mc Curdy Radio Industries, Ltd., Canada, 15, 20
Mc Dowell Electronics, Inc., N.J., 2, 4, 5, 15, 20, 37, 40
Mc Henry Control Corp., Conn., 40
Mc Kay Electric Co., Mich., 17, 35, 40

Menlo Park Engineering, 721 Hamilton Ave., Menlo Park, Calif., 10, 25, 35, 40
See ad on page 451
Tel: DAvenport 6-9080

Menlo Research Lab., Calif., 5
Mercury Electronic Co., N.J., 2, 4, 15, 17, 20, 35, 37, 40
Micro Gee Prods., Inc., Calif., 4
Micro-Lab Industries, Inc., Ind., 15
Microwave Assoc., Inc., Mass., 35, 40
Microwave Develop. Labs., Inc., Mass., 10
Microwave Engrg. Labs., Calif., 10, 25
Mid-Eastern Electronics, Inc., N.J., 5

Millen Mfg. Co., Inc., James, 150 Exchange St., Malden 48, Mass., 4, 15, 20
See ad on page 314
Tel: DA 4-4108

Miller Co., Sanford, N.Y., 4, 15

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MAGNETIC TUBELESS
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RATINGS: 30VA 50VA 100VA
Higher ratings available.

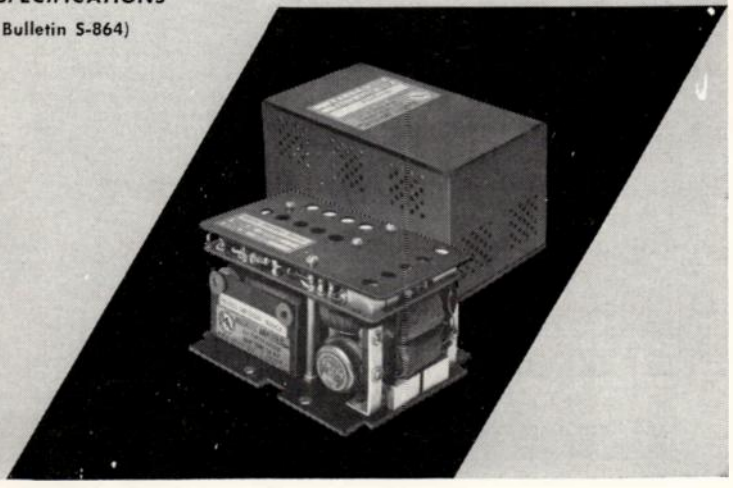
APPLICATION:

For gyro wheel supplies and where precise 400 cycle voltages are required in aircraft, radar and missile computers.

FEATURES:

PRECISION OUTPUT FREQUENCY
RUGGED
EXCELLENT WAVEFORM
SIMPLICITY OF CIRCUITRY
FAST STARTING TIME
GOOD VOLTAGE REGULATION throughout an adjustable range
ISOLATED CASE DESIGN
HIGH RELIABILITY
VIBRATION ISOLATED
COMPACT
LIGHTWEIGHT
MILITARY SPECIFICATIONS

(Send for Bulletin S-864)



PERFORMANCE SPECIFICATIONS

MODEL NUMBERS	± .01% CPS	SIS 40311	SIS 40511	SIS 410011
	± .05% CPS	SIS 40315	SIS 40515	SIS 410015
INPUT VOLTAGE		28V DC ± 10%		
MAX. OUTPUT POWER		30VA	50VA	100VA
OUTPUT VOLTAGE		115V AC (Adjustable ± 10%)		
OUTPUT FREQUENCY		400 CPS ± .01% 400 CPS ± .05%		
VOLTAGE REGULATION		±1% For Line Variations ± 2% For Load Variations		
FREQUENCY DISTORTION		3% Maximum At Full Load		
LOAD POWER FACTOR		+ 0.5 to − 0.5 Maximum		
MILITARY SPECS.		MIL-E-5400A & MIL-E-5272A		
AMBIENT TEMPERATURE		− 55°C to + 71°C when mounted to heat sink		
VIBRATION		20G 10 to 2000 CPS		
UNIT DIMENSIONS		L5" D 2 7/8" H 2 13/16"	L8" D 2 7/8" H 2 13/16"	L10" D 4 1/2" H 2 13/16"
WEIGHT (Approx.)		2 lbs.	3.5 lbs.	5 lbs.

MAGNETIC AMPLIFIERS INC.
632 TINTON AVENUE • NEW YORK 55, N. Y. • CYPRESS 2-6610
West Coast Division
136 WASHINGTON ST. • EL SEGUNDO, CAL. • OREGON 8-2665

For details, circle #330 on Reader Service Card

PRECISION SUPPLIES

Portable Pattern



Model	Voltage	Current
RE-1601	200-1600	0-25 Ma
RE-1602	300-1600	0-10 Ma
RE-1901	300-1900	0-25 Ma

Rack Pattern



Model	Voltage	Current
RE-1603	300-1600	0-10 Ma
RE-1610	300-1600	0-100 Ma
RE-2003	500-2000	0-25 Ma
RE-2006	500-2000	0-50 Ma
RE-3002	500-3000	0-20 Ma
RE-3004	500-3000	0-40 Ma
RE-3006	500-3000	0-60 Ma
RE-5001	500-5000	0-10 Ma
RE-5002	500-5000	0-20 Ma
RE-5003	500-5000	0-30 Ma
RE-5502	1000-5500	0-25 Ma
RE-10001	1000-10000	0-10 Ma

Features

Either positive or negative of any supply may be grounded.
Regulation: .01 to .001%
Line Stability: .05 to .005%
Long-term Stability: .01-.05% per hour, about 0.1% per day
Impedance: 1 to 5 Ohms
Ripple: 0.5 to 3 Mv P-P
Standard tubes used

Constant Current Supplies

RI-222E .01-220 Ma 0-340V

Millimeter Wave Generators

KSG-291	36.2-33.5 kmc	8.3-8.9 mm
KSG-290	33.5-29.7 kmc	8.9-10. mm
KSG-289	30-27.3 kmc	10.-11. mm
KSG-33	25-22 kmc	12.-13.6 mm

Any of these supplies can be modified or special designs built to meet specialized requirements.

Northeast Scientific Corp.
617 CONCORD AVENUE
CAMBRIDGE 38, Mass.

For details, circle #331 on Reader Service Card

HIGH POWER at TRANSISTOR VOLTAGES

Model DV 60-2 Transistor POWER SUPPLY



$110



Thorough and versatile! Efficiently powers all transistor circuits. Unparalleled performance and price.

- AC OPERATED, delivers 0-60 volts DC at currents up to 1000 milliamperes.
- SUPERIOR to conventional DC power supplies specified for vacuum tube high voltage range and offering erratic reactions when used at low transistor voltages.
- CONTINUOUSLY VARIABLE, equivalent to a battery. High power.
- RIPPLE SUPPRESSION below .05% at rated current, by two section choke input filter.
- COMPLETE CONTROLS, front panel switch-type magnetic circuit breaker, neon pilot light, Powerstat output control, multirange voltmeter and milliameter and output binding posts. Meters accurate to 2%, readable at distance. Height 10⅜", Width 7", Depth 9¼", 21 lbs.

WRITE FOR CATALOG OF ENTIRE LINE

MODEL RECTIFIER CORPORATION

1675 Utica Ave. Bklyn 34, N. Y.

For details, circle #332 on Reader Service Card

NEUTRONIC HIGH VOLTAGE POWER SUPPLIES

BENCH TYPE CABINET
RACK MOUNTED
.1% Regulation



Model	Voltage Range	Current	Price
10DR	1-10 KV	10 ma @ 10 KV	1400.00
60DR	5-60 KV	1 ma @ 60 KV	1535.00

BENCH TYPE CABINET
RACK MOUNTED
.5% or .1% Regulation



21KR	1-10 KV	10 ma @ 5 KV	566.00
21MR	1-12 KV	6 ma @ 10 KV	566.00
22CR	5-26 KV	2 ma @ 18 KV	515.00
22MR	5-30 KV	3 ma @ 20 KV	540.00
23CR	5-40 KV	1.3 ma @ 25 KV	525.00
23MR	5-45 KV	1.5 ma @ 30 KV	577.00
24CR	5-50 KV	1 ma @ 35 KV	607.00
24MR	5-50 KV	2 ma @ 30 KV	623.00

Above units available non-regulated and also with reversible output.

3 New NEUTRONIC Economy POWER UNITS at amazing Low Cost with 1% Regulation

MODEL 75BR
Voltage: 2-7.5 KV-DC
Current: 1 ma @ 6 KV
Size: 7¼x8x8
Price: $98.50

MODEL 15BR
Voltage: 2-15 KV-DC
Current: 1 ma @ 10 KV
Size: 7¼x12x8
Price: $164.50

MODEL 30BR
Voltage: 5-30 KV-DC
Current: 1 ma @ 20 KV
Size: 7¼x14-8
Price: $219.50

Prices subject to change without notice.

NEUTRONIC ASSOCIATES

93-14 101st Ave., Ozone Park 17, N. Y.
Tel. Virginia 7-7703

For details, circle #333 on Reader Service Card

Directory II. Components

47. Power Supplies.

Minneapolis-Honeywell Reg. Co., Mil. Prods., Group, Minn., 2, 4, 35, 40

Model Engineering & Mfg., Inc., Ind., 15, 20, 40

Model Rectifier Corp., 1675 Utica Ave., Brooklyn 34, N.Y., 5, 15, 20, 35, 37, 40
See ad on this page
Tel: CLoverdale 8-6800

Modern Industries, Inc., Calif., 2, 4, 15, 20, 35, 37, 40

Moloney Electric Co., 5390 Bircher Blvd., St. Louis 20, Mo., 5
See ad on page 440
Tel: EVergreen 3-3300

Monitor Controller, Mass., 2, 4

Morrow Radio Mfg. Co., Ore., 2, 4

Motoresearch Co., Wis., 2, 4, 15, 30, 40

Motorola, Inc., Ariz., 2, 4, 5, 15, 17, 20, 25, 35, 37, 40

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Neutronic Associates, 93-14 101st Ave., Ozone Park, 17, N.Y., 2, 4, 5, 15, 20, 37, 40
See ad on this page
Tel: VIrginia 7-7703

New London Instrument Co., Conn., 40

Nichols, Ltd., R. H., Canada 4

North Hills Electric Co., 402 Sagamore Ave., Mineola, L.I., N.Y., 4, 5, 15, 17, 20, 35, 37, 40, constant current
See ads on pages 315, 453
Tel: PIoneer 7-0555

Northeast Scientific Corp., 617 Concord Ave., Cambridge 38, Mass., 4, 5, 10, 15, 20, 25, 37, 40
See ad on page 380
Tel: UNiversity 4-2350

Northern Electric Co., Ltd., Canada, 2, 4, 10, 15, 20, 25, 35, 40

Nuclear-Electronics Corp., Pa., 5

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Olympic Radio & TV, Inc., N.Y., 40

Onan & Sons, Inc., D. W., Minn., 30

Opad Electric Co., 69-8 Murray St., New York 7, N.Y., 2, 4, 5, 10, 15, 20, 35, 37, 40
See ad on page 383
Tel: BEekman 3-7548

Oregon Electronic Mfg. Co., Ore., 4, 5, 15, 17, 20, 37, 40

FROM MILLIWATTS TO KILOWATTS

HIGH VOLTAGE POWER SUPPLIES AND EQUIPMENT

We have sold quantities of these power supplies to laboratories, industrial concerns, the government and universities. Only the best available selected material goes into these units, so that you will have many years of dependable service. Only a few of our standard models are shown below. Quotations on special supplies cheerfully given.

PRECISE MEASUREMENTS COMPANY

HIGH VOLTAGE POWER SUPPLIES



One of the most popular power supplies on the market. Completely redesigned for greater ruggedness and convenience of operation. Widely used for powering electronic equipment and for routine breakdown and insulation testing. Output voltage is filtered D.C. which is adjustable with convenient front panel control. Input is 115 Volt, 60 cycle A.C. Equipment is available without meter, with one meter (4½"), with two meters, or with larger 6" precision 1% mirror scale movement. Regulated models offer closely stabilized output voltage regardless of line or load changes.

Model		Maximum Voltage	Price	Price Regulated Model
6001	With Kilovolt Meter	1,000	$75.00	
6000		2,500	60.00	
6000-A	With Kilovolt Meter	2,500	80.00	$120.00
6005		5,000	75.00	
6005-A	With Kilovolt Meter	5,000	95.00	135.00
6010		10,000	85.00	
6010-A	With Kilovolt Meter	10,000	105.00	145.00
6015		15,000	95.00	
6015-A	With Kilovolt Meter	15,000	115.00	155.00
6025		25,000	115.00	
6025-A	With Kilovolt Meter	25,000	155.00	205.00

MIRROR SCALE HIGHER ACCURACY METERS: Recommended where more exact settings or measurements are needed. Meter size has been increased to 6 inches for easier reading. Price $35.00 additional on any meter equipped model.

TWO METER MODEL ..... ADD $35.00

INDUSTRIAL POWER SUPPLIES

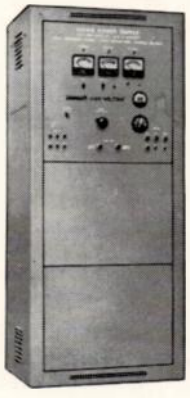
These industrial type power supplies are built for service and efficiency. All employ husky components that have been selected for their power handling capacity. Controls are arranged so that operation is greatly simplified and a number of safety features are built in for maximum protection of personnel and equipment. Polarity reversing models (as illustrated) can be had at additional cost.



Model	Voltage	Current	Price
F-500V	0-500	3 Amp	$800.00
F-6001	0-1000	2 Amp	975.00
F-6002	0-2000	1 Amp	985.00
F-6003-A1	0-3000	100 MA	375.00
F-6003-AV	0-3000	500 MA	550.00
F-6003-AK	0-3000	1 Amp	1180.00
F-6005-A1-H	0-5000	100 MA	550.00
F-6005-AV	0-5000	500 MA	750.00
F-6005-A1K	0-5000	1 Amp	1280.00
F-6010-A1	0-10,000	100 MA	880.00
F-6020-A05	0-20,000	50 MA	975.00
F-6050-T	0-50,000	½ MA	680.00
F-6100-T	0-100,000	½ MA	1180.00

Regulated types available

HEAVY DUTY POWER SUPPLIES



For use in applications where high voltages at extra high currents are required. Illustrated is our 100 KW Model, rated for 0 to 7,000 Volts at 14 Amperes DC. This unit is housed in a single convenient cabinet. Output voltage is regulated against line and load changes. Voltage is smoothly adjustable from zero to full output. Automatic circuits protect against overvoltage or over current conditions, turning off main power in a split second. Use of special transformer construction allows constant load drain at full rated output. All power supplies in this series are available with fixed or adjustable output and with or without regulation.

Model	Voltage	Current
A-30	3000	5 amperes
A-31	3000	10 amperes
A-32	3000	20 amperes
A-50	5000	5 amperes
A-51	5000	10 amperes
A-72	7000	14 amperes
A-100	10,000	5 amperes
A-110	10,000	10 amperes

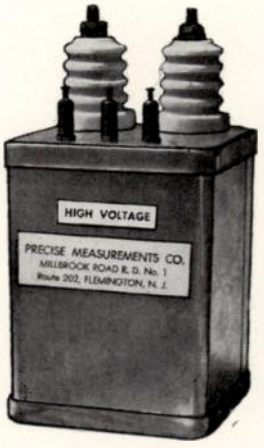
TRANSFORMERS, HIGH VOLTAGE

For experimental, industrial or production applications. These units are small and compact and rated for constant service. Primary designed for 105/115/125 Volts 60 Cycle. Secondary completely isolated and has half voltage tap. Only standard models are listed, other voltages and currents available on order. We can wind specials for any frequency or voltage.

Model	Voltage	Model	Voltage
1 KVT	1 KV	10 KVT	10 KV
2 KVT	2 KV	15 KVT	15 KV
3 KVT	3 KV	25 KVT	25 KV
5 KVT	5 KV	50 KVT	50 KV

PACKAGED POWER SUPPLIES

These conveniently packaged power units will be found ideal for applications requiring minimum size and weight. Features isolated high voltage terminals permitting either the positive or negative side to be grounded. Rectifier tubes are operated from separate filament transformers so that DC output voltage can be varied from zero to full rated value. Selenium rectifier types have extra cells to assure operation under high line voltage or light loading. All standard units have well filtered DC output. Power packs with AC output available on order.



Model	Output Voltage	Current	Model	Output Voltage	Current
05-KV-5MA	500 Volts DC	5 Ma.	20-KV-1MA	20 KV DC	1 Ma.
1-KV-5MA	1 KV DC	5 Ma.	20-KV-5MA	20 KV DC	5 Ma.
2-KV-5MA	2 KV DC	5 Ma.	30-KV-1MA	30 KV DC	1 Ma.
5-KV-1MA	5 KV DC	1 Ma.	30-KV-5MA	30 KV DC	5 Ma.
5-KV-5MA	5 KV DC	5 Ma.	50-KV-1MA	50 KV DC	1 Ma.
10-KV-1MA	10 KV DC	1 Ma.	50-KV-5MA	50 KV DC	5 Ma.
10-KV-5MA	10 KV DC	5 Ma.	75-KV-1MA	75 KV DC	1 Ma.
15-KV-1MA	15 KV DC	1 Ma.	100-KV-1MA	100 KV DC	1 Ma.
15-KV-5MA	15 KV DC	5 Ma.			

100 KV. KILOVOLTMETER

- Read High Voltages Directly with Extra-High Input Impedence.
- Single Instrument Reads Both A.C. and D.C. Voltages!
- Superb Craftsmanship—Portable Oak Case.

Model	Range Kilovolts	Price D.C. Model	Price A.C./D.C. Model
4000	0-25/50	$67.50	$100.00
4000-A	0-100	80.00	125.00
4000-B	0-50/100	85.00	130.00
4000-C	0-10/50/100	95.00	160.00

Other Ranges to Order .....
1% MIRROR SCALE INSTRUMENT ..... ADD $50.00

AC INSULATION AND BREAKDOWN TESTERS

Used in testing insulation where AC voltages are desired. Dual instruments are also available which provide choice of AC or DC output with simple toggle switch selection. Units include kilovoltmeter, current meter and automatic overload cutout circuits.

Model	Voltage	VA	AC	AC and DC Price
3000	0 to 3,000	75	$150.00	$ 250.00
3010	0 to 3,000	300	250.00	400.00
3050	0 to 3,000	1,500	500.00	650.00
3100	0 to 6,000	3,000	700.00	1,100.00
1000	0 to 10,000	100	200.00	400.00

PRECISE MEASUREMENTS COMPANY

MILLBROOK LANE • R. D. 1 • FLEMINGTON, NEW JERSEY • TEL. FLEMINGTON 900

Directory II. Components

47. Power Supplies.

Owen Labs., Inc., Calif., 2, 4, 15, 20, 35, 37, 40

Pacific Technical Co., Calif., 2, 37, Two Phase Power Supply

Packard-Bell Electronics, 12333 W. Olympic Blvd., Los Angeles 64, Calif., 4, 35, 40
See ad on page 204
Tel: BRadshaw 2-2171

Patterson Moos, Div. of Universal Winding Co., N.Y., 4, 35

Pedersen Electronics, Calif., 2, 4, 5

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Peschel Electronics, Inc., N.Y., 2, 4, 5, 10, 15, 17, 20, 37, 40

Philamon Laboratories, Inc., 90 Hopper St., Westbury, L.I., N.Y., 2
See ad on page 102
Tel: EDgewood 3-1700

Philbrick Researches, Inc., George A., Mass., 4, 40

Philco Corp., Government & Industrial Div., Pa., 2, 4, 5, 10, 25, 35

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Pierce, George C., Va., 40

Pitometer Log, Corp., N.Y., 35

Plastic Capacitors, Inc., 2620 N. Clybourn Ave., Chicago 14, Ill., 4, 5, 37, 40
See ad on page 305
Tel: DIversey 8-3735

Polarad Electronics Corp., 43-20 34th St., Long Island City 1, N.Y., 10, 25
See ad on pages 103-104
Tel: EXeter 2-4500

Polytechnic Research & Development Co., Inc., N.Y., 10, 20, 25, 40

Polytron Engineering, Inc., Md., 35

Potter Co., Ill., 4, 5, 37, 40

Power Designs, Inc., Dept. RD9, 89-25 130th St., Richmond Hill 18, N.Y., 4, 10, 15, 20, 35, 40
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Tel: VIrginia 9-3675

Power Equipment Co., Mich., 2, 4, 15, 20, 35, 40

Power Sources, Inc., Mass., 2, 4, 5, 15, 17, 20, 35, 37, 40, TV Studio P S

Precise Development Corp., N.Y., 2, 4, 5, 20, 40

Precise Measurements Co., Millbrook Lane, R.D. #1, Flemington, N.J., 2, 4, 5, 17, 37, 40
See ad on page 382
Tel: FLemington 900

Precision Scientific Co., Ill., 37

Press Wireless Laboratories, Inc., 5, 35

Pressman Associates, Pa., 4, 15, 35, 40

Process & Instruments, N.Y., 40



0-32 V.D.C. ½ % Ripple

Input: 115 V.A.C. 60 Cycles, Single Phase

Amps.	Model	Style	H	W	D	Fig.
5	KM75	Rack	8¾"	19"	9½"	A
	KM75B	Bench	9"	17"	9½"	B
10	KM81	Rack	8¾"	19"	9½"	A
	KM81B	Bench	9"	17"	9½"	B
20	KM87	Rack	8¾"	19"	9½"	A
	KM87B	Bench	10½"	22"	12"	C
40	KM93	Rack	12¼"	19"	13"	—
	KM93B	Bench	14"	22"	15"	D

FEATURES

- Vacuum Varnish Impregnated Magnetic Components.
- 4½" Rectangular 2% Accuracy, D.C. Panel Meters (3½" on small units).
- Controls include power switch, line and load fuses, pilot light, voltage control knob, output binding posts.
- Low Voltage Regulation: 1/10 Load 36 volts Full Load 32 volts
- Panel Type Carrying Handles.
- Continuous Duty Ratings.

0-32 V.D.C. 4% Ripple

Input: 208/220 V.A.C. 60 Cycles, 3 Phase

Amps.	Model	Style	H	W	D	Fig.
100	FR100	Floor	46"	22"	18"	F
200	FR200	Floor	46"	22"	24"	F

FEATURES

- Fully Self-Protecting Circuit.
- Pushbutton Operated Magnetic Contactor.
- Indicating Type AC Input Fuses.
- Overcurrent Control in D.C. Circuit.
- Adjustable Thermal Overload Device on Rectifier.
- Overload Warning Light and Reset Button.
- 4½" Rectangular, 2% Accuracy Panel Meters.
- Low Voltage Regulation: Approx. 5-8%.
- Ball Bearing Type Casters.
- Input Receptacle and Mating Plug.
- All receptacles, terminals and controls clearly designated.
- Budget Priced.

0-110 V.D.C. 1% Ripple

Input: 115 V.A.C. 60 Cycles, Single Phase

Amps.	Model	Style	H	W	D	Fig.
2.5	RS10	Rack	8¾"	19"	9½"	A
	RS10B	Bench	10½"	22"	12"	C
5	RS20	Rack	10½"	19"	13½"	A
	RS20B	Bench	12¼"	22"	15"	C
10	RS30	Rack	12¼"	19"	13½"	—
	RS30B	Bench	14"	22"	15"	D
20	RS40	Rack	17½"	19"	13½"	—
	RS40B	Bench	19¼"	22"	15"	—

FEATURES

- Vacuum Varnish Impregnated Magnetic Components.
- Non-Aging Rectifiers (Germanium or Silicon).
- 4½" Rectangular 2% Accuracy D.C. Panel Meters (3½" on small units).
- Controls include Power Switch, Input Circuit Breaker, Load Fuse, Pilot Light, Voltage Control Knob and Output Binding Posts.
- Both D.C. Terminals are above ground and isolated from the A.C. Line.
- Panel Type Carrying Handles.
- Convection Cooled Continuous Duty Ratings.

Voltage Regulated Units ±1%

Input: 115 V.A.C. ±10%, 60 Cycles, Single Phase

V.D.C.	Amps.	Model	Style	H	W	D	Fig.
6	20	FP35	Rack	8¾"	19"	9½"	—
	20	FP35B	Bench	10½"	22"	12"	—
0-45	20	LP30	Rack	21"	19"	13½"	—
	20	LP30B	Bench	22¾"	22"	15"	—
0-150	2.5	TM25	Rack	8¾"	19"	9½"	E
	2.5	TM25B	Bench	10½"	22"	12"	E
0-150	5	TM35	Rack	12¼"	19"	13½"	E
	5	TM35B	Bench	14"	22"	15"	E

Ripple at Max. Load 1% (Except TM25, TM25B .03%)

FEATURES

- Vacuum Varnish Impregnated Magnetic Components.
- Non-Aging Rectifiers (Germanium or Silicon).
- 4½" Rectangular 2% Accuracy D.C. Panel Meters (3½" on small units).
- Controls include Power Switch, Line and Load Fuses, Pilot Light, Voltage Control Knob and Output Binding Posts.
- Both D.C. Terminals are above ground and isolated from the A.C. Line.
- Panel Type Carrying Handles.
- Convection Cooled Continuous Duty Ratings.



GENERAL PURPOSE UNIT

OUTPUT: 0-6 V.D.C., 50 Amps.
INPUT: 115 V.A.C., 60 CPS, 1 Phase
FEATURES: 3½" Meters, 2% Accuracy, Line & Load Fuses, Switch, Pilot Light, Binding Posts.
MODEL GK34 ... Bench
Bulletin No. 178



AIRCRAFT BATTERY SUBSTITUTE

OUTPUT: 0-28 V.D.C., 20 Amps., 1% Ripple.
INPUT: 115 V.A.C., 60 CPS, 1 phase.
REGULATION: 1/10 Load 33 Volts Full Load 28 Volts
FEATURES: Ammeter overcurrent protection circuit prevents needle 'slam' when starting inverters & motors.
MODEL KM88 ....Rack Mount
MODEL KM88B....Bench
Bulletin No. 100



DUAL RANGE POWER SUPPLY

OUTPUT: 0-32/64 V.D.C., 40/20 Amps.
RIPPLE: Within 1% of average D.C.
INPUT: 115 V.A.C., 60 CPS. 1 Phase
FEATURES: Thermal overload protection, indicating line and load fuses, overload warning light, dual range voltmeter.
MODEL KM95 ....Rack Mount
MODEL KM95B....Bench
Bulletin No. 103

OPAD ELECTRIC COMPANY
69-8 MURRAY STREET • NEW YORK 7, N. Y.
Telephone: BEekman 3-7548

For details, circle #335 on Reader Service Card

Stable Power Sources for Electronic Instrumentation

TRANSISTORIZED POWER SOURCES



MODEL 1550
Range: 1-15 volts DC, continuously adjustable at 0-5 amperes.
Price $289.50

Features ROBOTEC CIRCUITRY available with both Volt & Ammeter

MODEL 1515
Range: 1-15 volts DC, continuously adjustable at 0-1.5 amperes.
Price: $159.50

MODEL 5015
Range: 1-50 volts DC, continuously adjustable at 0-1.5 amperes.
Price: $249.50

Features ROBOTEC CIRCUITRY and HEATRAN

ELECTRICAL SPECIFICATIONS:

INPUT: 105-125 volts, 55-440 cycles.

OUTPUT: 0-100 volts d-c continuously variable at 0.500 ma.

REGULATION: 25 millivolts or .05% (whichever is greater).

RIPPLE: Less than 1.0 millivolts rms. max (1515-250 microvolts).

SOURCE IMPEDANCE: .05 ohms to 20 kc, 0.5 ohms to 1 megacycle

TEMPERATURE: Continuous duty at full load to 50°C ambient.

Either positive or negative terminal may be grounded.

FEATURES:

- Transistors protected against external short circuit.
- Thermal electrical design eliminates forced air cooling.
- Balanced differential d-c input amplifier for maximum stability.
- Semiconductor components employed throughout.
- Silicon diode references and rectifiers.
- Computer quality electrolytic with minimum ten year life expectancy and two year minimum shelf life.
- Line and load circuits separately fused.
- Fifty hour pre-aging of instruments prior to test insures field service reliability.
- Portable. Measures 5¾" x 8¾" x 11½".
- Modular package construction suitable for multi-unit rack mounting on standard 8¾" x 19" rack panels.
- Supplies may be connected in series to provide increased voltage output at rated current.

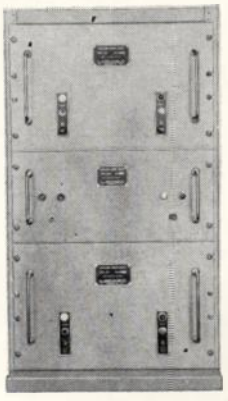
0.01% COMPUTER POWER SOURCE

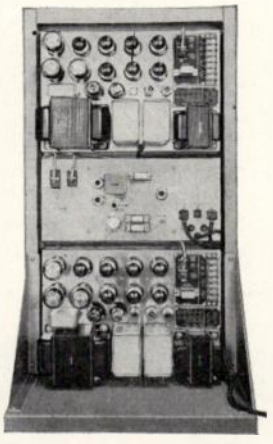
and VOLTAGE REFERENCE

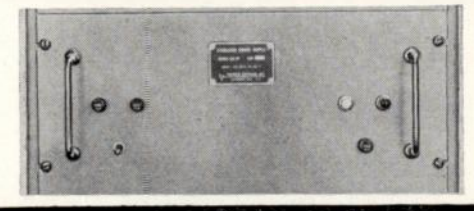
Model CU-2T, precision control unit illustrated at right, is designed to operate in conjunction with any pair of power supplies listed on Pages 2 & 3 of brochure BG-58, to provide regulation and "tracking" to 0.01% for operational amplifier or similar service. Error voltages from both power supplies are referenced to a .005% zener junction diode network in a temperature stabilized oven. Output voltages may be identical or maintain fixed voltage ratios. These units are conventionally supplied with one output voltage source positive and the other negative with respect to ground or common. The Model CU-2T may also be employed to stabilize a single power source or any pair of power sources having a common output terminal.

Typical of this system is Model D305-CS (illustrated at right).

For additional details, technical information and price quotation contact our sales engineering department.







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Power Designs inc.

89-25 130th STREET
RICHMOND HILL 18, N. Y.

For details, circle #336 on Reader Service Card

"TEKAP"—TABPAK®

HIGH CURRENT POWER SUPPLIES

One Year Guarantee

Variable 0-28VDC, Completely Built. Ready to go. Full Wave Selenium Rectifier, Transformer Variac, 4" Volt & Amp Meters. Switch, Terminals & Fuse. Hvy Duty Steel Cabinet. Std 115V/60cy Input or 220V (3 phase) to order.

STOCK NUMBER	CONTINUOUS RATING	WITH METERS
T28V5A	0-28WVDC at 5 Amp	$ 57.00
T28V5ACC	5 Amp (1% Ripple)	79.00
T28V12A	0-28 VDC at 12 Amps	135.00
T28V12ACC	12 Amps (1% Ripple)	169.00
T28V24A	0-28 VDC at 24 Amps	174.00
T28V24ACC	24 Amp (1% Ripple)	245.00
T28V50A	0-28VDC at 50 Amps	310.00
T28V50ACC	50 Amps (1% Ripple)	400.00
T28V100A	0-28VDC at 100 Amps	525.00
T28V100ACC	100 Amps (1% Ripple)	795.00
T6000	4X/0-8VDC @ 200A @/2% Ripple	1250.00
T130V1A	0-130VDC @ 1 Amp	89.00
T130V1ACC	0-130VDC/1A/1% Ripple	139.00

CUSTOM POWER SUPPLIES TO YOUR SPECS
WE INVITE YOUR INQUIRIES

"REG-O-TAB" TRANSISTORIZED REGULATED SUPPLIES

RTR30V1A	20 to 30VDC @ 1 Amp/1% Ripple	$175.00
RTR30V5A	20 to 30VDC @ 5 Amp/1% Ripple	275.00

"MAGREPAK" MAGNETIC REGULATED (1%) REGULATION

MRT32V15A	2 to 32VDC @ 15 Amps/1% Ripple	525.00
MRT32V25A	0 to 32VDC @ 25 Amps/1% Ripple	550.00
MRT30V40A	5 to 30VDC @ 40 Amps/1% Ripple	750.00
MRT32V50A	24 to 32VDC @ 50 Amps/1% Ripple	949.00
MRT32V100A	24 to 32VDC @ 100 Amps/1% Ripple	995.00

"TABPAK" STATIC CONVERTERS & INVERTERS

TR25C	250VDC @ 100 MA	27.00
TR39CB	450 & 225VDC @ 150MA	35.00
TRJ9CK	KIT-U-BUILD (TR39CB)	30.00
TR50C	500 & 250VDC @ 200MA	58.50
TV26141L	26VDC to 115V/400Cy/50W	180.00
TV26143L	26VDC to 115V/400Cy/150W	360.00
TV6345L	115V/60 Cy to 115V/400 Cy/3PH/250W	*Query.*

NEW "SILTAB"® SILICON RECTIFIERS TO 150°C

"TECHNICAL APPARATUS BUILDERS" Mfrs. Power Rectifiers to your specs. convection or fan cooled, single or 3 phase "NEMA" & "JAN" Specs. ALL FULL WAVE BRIDGE AND CONVECTION COOLED

| DC AMPS | | |

Directory II. Components

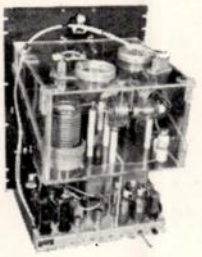
47. Power Supplies.

Pylon Electronic Development Co., Ltd., Canada, 2, 4
Pyroferric Co., Inc., N.Y., Transistorized High Voltage
Quan-Tech Laboratories, 236 Mt. Kemble Ave., Morristown, N.J., 4, 15, 35, 37, 40
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Saratoga Industries, N.Y., 2, 4, 15, 17, 20, 35, 37, 40
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Schirmer-National Alarm Co., N.J., 15
Schloer, Inc., Modern Design Div., N.Y., 2, 4, 15, 17, 20, 35, 37, 40
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Scientific Engineering Laboratory, 1510 6th St., Berkeley 10, Calif., 5, 37
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Specialties, Inc., N.Y., 2, 4, 5, 10
Specific Products, 21051 Costanso St., P.O. Box 425, Woodland Hills, Calif., 4
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Tel: DI 0-3131
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Superior Electric Co., 8000 Lee Ave., Bristol, Conn., 2, 4
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Technical Apparatus Builders, 109 W. Liberty St., New York 6E, N.Y., 2, 4, 5, 10, 15, 17, 20, 25, 35, 37, 40
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Tel: REctor 2-6248
Telechrome Inc., 28 Ranick Dr., Amityville, L.I., N.Y., 4, 5, 40
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Telectronics Laboratory, Inc., N.Y., 2, 4
Television Utilities Corp., N.Y., 2, 4
Tesla Electric Co., Ill., 2, 4, 5, 15, 20, 37, 40

SPELLMAN HIGH VOLTAGE POWER SUPPLIES

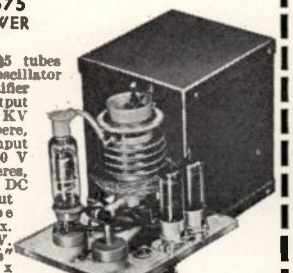


MODEL LAB-60 RF TYPE
Continuously Variable 0-60 KV DC Regulated Power Supply
Current output 1 ma. at 60 KV. 2 ma may be drawn from 50 KV to 0. Supplied with either positive polarity or negative polarity output. Regulation stability—1% at 1 ma 21¾" wide x 22¾" high x 18" deep.
LAB-60 Complete with meter .....695.00 Net
LAB-60 PN Reversible polarity model of above .....$745.00 Net



MODEL LAB-80 REGULATED DC POWER SUPPLY
Continuously variable 0 to 90 KV DC Power Supply. Output current 1 ma. at 80 KV. 2 ma. from 40 KV down. Voltage regulations better than 1% throughout voltage range. Panel dimensions 19" wide x 26" high x 18" deep.
Rear view—less cabinet
LAB-80 Complete with HV meter .....$900 Net
Specify polarity output—positive or negative

MODEL 4575
4½ KV POWER SUPPLY
Utilizes two 6AQ5 tubes as a parallel oscillator feeding a 1X2 rectifier tube. For an output voltage of 4½ KV DC at 1 milliampere, the low voltage input requirement is 250 V at 50 milliamperes. By varying the DC input the output voltage can be varied from approx. 1 KV to 7½ KV. Dimensions: 5⅝" high x 5" deep x 4¼" wide. In completely enclosed metal housing.
Less low voltage DC supply .....$32.50 Net



MODEL RG-30—Continuously Variable 15-30 KV Regulated DC Power Supply with regulated focus
Incorporates a voltage tap in the range of 4 to 6 KV for use with 5WP15, 5TP4 and flying spot tubes. Regulations better than .5% at 1 milliampere. In wide use for color tube development work, transcription recording systems. Also available with focus and convergence voltage taps for RCA Tri-Color tubes at slight additional cost. This model can be adjusted for 40 KV output at .5 milliampere for new 40 KV projection tubes.



19½" wide x 12¼" high x 13" deep .....$295 Net
With meter installed on front panel .....$345 Net

COMPLETE LINE OF HIGH VOLTAGE COILS—Send for complete catalog R

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FORMERLY SPELLMAN TELEVISION CO., INC.
3029 WEBSTER AVE.
BRONX, 67, N.Y.
KIngsbridge 7-0306

For details, circle #338 on Reader Service Card

Sola Electric Co.

SOLA AC and DC VOLTAGE REGULATION...

Automatic, instantaneous, maintenance-free



Sola Constant Voltage Transformers and Regulated DC Power Supplies provide dependable regulated output voltage which is unaffected by changes in input voltage. Sola transformers are static-magnetic regulators with completely automatic, continuous regulation. Response time is usually 1.5 cycles or less. There are no moving or renewable parts to require maintenance. Sola Regulated DC Power Supplies are built around these transformers, in combination with semi-conductor rectifiers and high capacitance filter sections.

Constant Voltage Transformers

Sola Constant Voltage Transformers

STANDARD TRANSFORMER *available in a wide variety of ratings from 15 va to 10 kva. Most models feature regulation within ±1% with primary voltage variations as great as ±15%.*



HARMONIC-FREE TYPE *designed for use with equipment requiring a stabilized source of undistorted voltage. Available in capacities from 60va to 2000va. These units provide ±1% regulated output with less than 3% total rms harmonic content.*

ADJUSTABLE, HARMONIC-FREE TYPE *for selecting any voltage from 0-130, stabilized within ±1%, with total rms harmonic content less than 3%. One outlet variable from 0-130v and one outlet fixed at 115v. Portable for use shop and laboratory.*





PLATE AND FILAMENT TYPE *delivers filament and plate voltages regulated within ±3% or less, with line voltage variations from 100-130v. Filament windings of 5v and 6.3v. Units are available from stock in three different ratings to cover most power supply requirements.*

FILAMENT TYPE *provides a compact source of 6.3v supply regulated within ±1% to extend filament life and improve tube efficiency. Available in ratings from 2.4a to 25a for operation of extensive banks of electron tubes.*





CUSTOM-DESIGNED *units can be manufactured in quantity orders, from 1 va to 25,000va to suit your individual specifications. Custom designs can include special voltage ratios, special frequencies, compensation for frequency variation, multiple output voltage, three-phase service and military specifications.*

For details, circle #339 on Reader Service Card

Write for Circular 11-CV-170 for further information on Sola Constant Voltage Transformers

DC Power Supplies

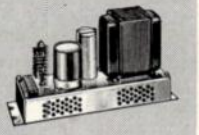
Sola Constant Voltage DC Power Supplies

For intermittent... variable... pulse... or high current loads

Sola DC supplies combine Sola CV Transformers, semiconductor power rectifiers and high-capacitance filters. They are compact, low-weight units for handling loads in the "ampere" range; and for intermittent and pulse loads. They offer many important advantages in DC power supply:

- Ripple voltage of approximately 1% (rms) or less.
- Output regulation of ±1% or less with ±10% line voltage variations.
- Minimum output voltage change with wide, rapid load changes.
- Ability to withstand high, short-time overloads without damage to components.
- Exceedingly low output impedance.

FIXED DESIGNS *available in six stock models with ratings ranging from 24v @ 6a to 250v @ 1 a. Compact size, low weight, and moderate price in proportion to power output and performance.*





VARIABLE DESIGNS *offer adjustable, regulated source of DC test voltages for design development. Accessory handles provide portability and self-stacking. Six models ranging from 5v @ 7a to 400v @ 0.6a.*

Write for Bulletin 11-CV-235 for further information on Sola DC Power Supplies

SOLA **Electric Co.** • 4633 West 16th Street • Chicago 50, Illinois

Cable SOLEC, Chicago • Phone BIshop 2-1414

Directory II. Components

47. Power Supplies.

Texas Instruments Incorporated, 6000 Lemmon Ave., P.O. Box 312, Dallas 9, Tex., 4
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Tel: FLeetwood 7-4311
Thermador Electrical Mfg. Co., Calif., 2, 4, 15, 35, 37
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Torotel, Inc., Mo., 2, 4, 15, 17, 35, 40
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Varian Associates, 611 Hansen Way, Palo Alto 2, Calif., 10, 25
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Tel: 2-1844

Power tubes: See class 63

Pre-amplifiers: See class 21

48. Printed & Packaged Circuits.

3. Computer, packaged
5. Etched or screened prewired chassis
7. Plug-in
8. Potted type
10. Printed electronic assemblies
15. Solder dipped prewired chassis
PC production See Class 92

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Brady Co., W. H., 704 W. Glendale Ave., Milwaukee 9, Wis., PC Drafting & Layout Aids
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Tel: EDgewood 2-8100
Bulova Watch Co., Electronics Div., Dept. DA-776, 40-06 62nd St., Woodside, N.Y., 7
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Bureau of Engraving, Inc., Minn., 5, 7, 10, 15
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Dwyer Engineering Co., Inc., Airport Rd., Box 452, Nashua, N.H., 5, 7, 8, 10
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Tel: TUxedo 3-3206
E M I Electronics Ltd., England, 3, 5, 7, 8, 10, 15

Code numbers shown after each firm refer to product or service sub-classes listed at the beginning of each major classification. Complete addresses will be found in the Alphabetical Directory.

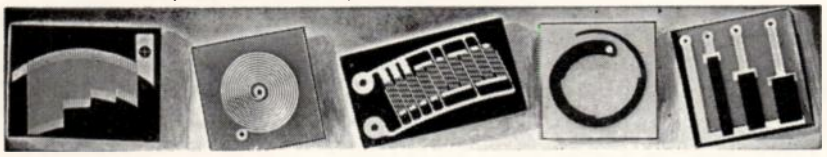
48. Printed and Packaged Circuits.

Eagle Signal Corp., Ill., 3, 7
Eaton Electronics Corp., Conn., 5, 7, 10, 15
Eby, Inc., H. H., Pa., 10
Eldema Corp., 1805 Belcroft Ave., El Monte, Calif., 7
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Tel: GIlbert 4-7077 & CUmberland 3-3498
Electralab, Inc., "A" St., Industrial Center, Needham Heights 94, Mass., hi reliability with plated through holes
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Electronic Associates, Inc., N.J., 7, 10, 15
Electronic Plastics Co., Calif., 3, 5, 7, 8, 10
Electronic Techniques, Inc., Calif., 5
Electronics, Inc. of Pa., Pa., 10, 15
Elliott Bros. Ltd., England, 5
El Tronics, Inc., Alwac Div., Calif., 3, 5, 7, 10
Emerson Radio & Phono. Corp., Md., 5, 10
Engineered Electronics Co., Calif., 3, 7, Diode Plug-In
Epsco Components, Mass., 3, 7, 8, 10
Erie Resistor Corp., 644 W. 12th St., Erie 6, Pa., 3, 7, 10
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General Electric Co., Specialty Electronic Components Dept., N.Y., 3
General Resistance, Inc., 577 E. 156 St., New York 55, N.Y., 7, 8
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Tel: CYpress 2-1500
Glass Products Co., 30 South Salsipuedes St., Santa Barbara, Calif., 5, Flush Circuits
See ad on this page
Tel: WOodland 6-1585
Globe Electrical Mfg. Co., Calif., 5, 10, 15
Gregg Electric Mfg. Co., Inc., Mass., PC Solder Tip Kit
Gulton Industries, Inc., N.J., 3, 7
Gulton Industries, Inc., Nuclear Instru. Div., N.M., 3, 5, 7, 8, 10
Hallicrafters Co., Ill., 10, 15
Hansen Electronics Co., Calif., 5, 10, 15
Haydon Instrument Co., Conn., Printed Circuit Motors

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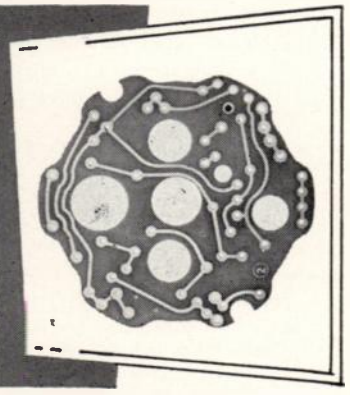
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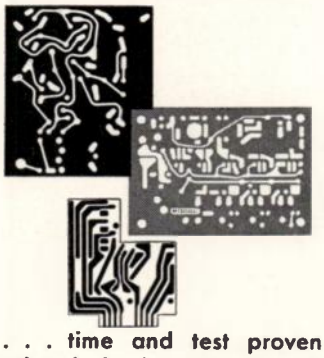
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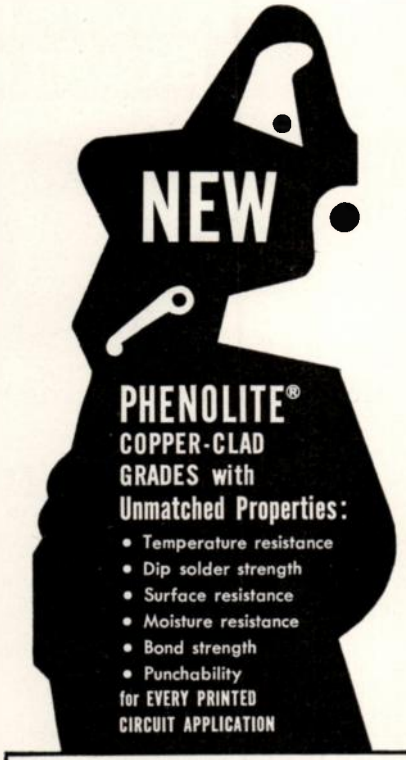
Directory II. Components

48. Printed and Packaged Circuits.

Hildebrand, John G., Mass., 7, 8
Hoover Electronics Co., Md., 5, 10, 15
Hunt Co., Philip A., N.J., Etchants
Instant Circuits Div. of Alfred W. Barber Labs., N.Y., 3, 7
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Insulating Fabricators, Inc., N.J., 3, 10
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Jeffers Electronics Div., Speer Carbon Co., Pa., 7, 10
Keil Engrg. Prods. Mo., 5, 7, 8, 10, Chemical & Sensitized Copper
Kinevox, Div. of Electromation Co., Calif., 3, 7
Labko Scientific, Inc., Okla., 5, 15
Lambda-Pacific Engr., Inc., Calif., 5, 10
Laminated Sheet Prods. Corp., Mass., 5, 10
Lapointe Industries Inc., Printed Circuit Div., Conn., 3, 5, 7, 8, 10, 15
Lear, Inc., Calif., 5, 10, 15
Librascope, Inc., Calif., 3, 5, 7, 8, 10
Litton Industries, Inc., Calif., 5
Litton Industries, Components Div., Calif., 5, 7, 10
Litton Industries, Md., 3, 5, 7, 8, 10
M F Electronics Co., 122 E. 25th St., New York 10, N.Y., 3, 5, 8, 10
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Tel: GRamercy 3-5899

Maclaren & Co., Inc., N.Y., 3, 7, 8
Magnavox Co., Ind., 5
Magnavox Co., Resch. Labs., Calif., 3
Magnetics Research Co., Inc., N.Y., 3
Mallory & Co., Inc., P. R. Ind., 10
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Methode Mfg. Corp., 7447 W. Wilson Ave., Chicago 31, Ill., 5, 15
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Micarta Fabricators, Inc., Ill., 5, 7, 10
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National Vulcanized Fibre Co., P.O. Box 311, Wilmington 99, Del., copper clad laminates
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Navigation Computer Corp., 1621 Snyder Ave., Philadelphia 45, Pa., 3, 10
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Northern Plastics Corp., Wis., 5, 7
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Tel: HO 8-1681

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Packard-Bell Electronics, 12333 W. Olympic Blvd., Los Angeles 64, Calif., 3, 5, 7, 8, 10, 15
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Tel: BRadshaw 2-2171
Patterson Moos Div. of Universal Winding Co., N.Y., 3
Permacel-Lepage, Inc., N.J., Photo-Sensitive Coating
Philbrick Researches, Inc., George A., Mass., 3, 7
Philco Corp., Government & Industrial Div., Pa., 3, 5, 7, 8, 10, 15
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Pickett & Eckel, Inc., Calif., 3, 5, 7
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Plastics & Electronics Corp., N.Y., 10
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Precision Paper Tube Co., Resinite Div., Ill., 7, Forms
Quality Name Plate, Inc., N.J., 5
R-S Electronics Corp., Calif., 10



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CHICAGOLAND
Ringland M. Krueger
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For details, circle #345 on Reader Service Card

48. Printed and Packaged Circuits.

Radio Industries, Inc., 666 Garland Pl., Des Plaines, Ill., 10
See ads on pages 305, 393, 442
Tel: (Chicago) UPtown 8-6500
Rank Cintel, Ltd., England, 7, 10
Ransom Research, Calif., 3, 7
Reeves Instrument Corp., N. Y., 7
Remler Co., Calif., 10
Rho Engineering Co., Calif., 5, 8, 10
Richardson Co., 2749 Lake St., Melrose Park, Ill., Copper clad laminates
See ad on this page
Tel: (Chicago) MAnsfield 6-8900
Rixon Electronics, Inc., Md., 3, 7, 8
Robertshaw-Fulton Controls Co., Calif., 3, 7, 8
Rowe Engravers, N.J., 5
Republic Electronic Industries Corp., N.Y., 10
Sanders Associates, Inc., N.H., 5, 7, 8, 10, 15
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Shallcross Mfg. Co., Selma, N.C., 3, 7, 8
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Tel: WOodlawn 5-2341
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Singer Mfg. Co., Military Prods. Div., N.Y., 3, 5, 7, 10
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Sound Devices, Inc., N.Y., 10
Specialties, Inc., N.Y., 3, 7, 10
Sperry Gyroscope Co. of Canada, Ltd., Canada, 3, 7, 8, 10
Spivey, Inc., James S., D.C., 7, 8
Sprague Electric Co., Mass., 3, 7, 8, 10
Sprague of Wisconsin, Inc., Wis., 10
Stelma Inc., Conn., 5, 7, 8, 10, 15
Stereatronics, Inc., Mass., 3, 5, 7, 8
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Tel: WIndsor 4-2221
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Tripl-T Co., Calif., 7, 8
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Vitro Labs., N.J., 3, 7
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White Instrument Laboratories, P.O. Box 9006, Austin 17, Tex., 7, 8
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Tel: GLendale 3-8447

Prongs, vacuum tube: See class 97

Pulse transformers: See class 59

Rack panels, relay: See class 25

Racks: See class 28

Radar receivers: See class 14

Radar transmitters: See class 15

Receivers, airborne & airport: See class 1

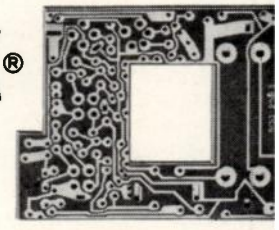
Receivers, amateur: See class 2

Receivers, broadcast: See class 4

Receivers, facsimile: See class 8

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Directory II. Components

Receivers, microwave: See class 14

Receivers, mobile: See class 11

Receivers, point-to-point: See class 13

Receivers, radar: See class 14

Receivers, telegraph & teleprinter: See class 19

Receivers, telemeter: See class 20

Receivers, television: See class 4

Recording equipment: See class 16

49. Recording Accessories.

5. Blank disks
10. Cutting heads
15. Cutting styli
17. Demagnetizer
20. Magnetic recording, playback & erase heads
25. Magnetic recording tape-acetate base
30. Magnetic recording tape-paper base
35. Magnetic recording wire
40. Stylus resharpening
45. Suction pumps & equipment
50. Tape splicing equipment

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Alonge Products, Inc., N.Y., 50
American Electronics, Inc., Calif., 20, 25
American Time Products, Inc., 580 Fifth Ave., New York 36, N.Y., 17
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Annis Co., R B, Ind., 17, Magnetizer
Ansco Div., N.Y., Recording Films-CRT
Audio Devices, Inc., N.Y., 5, 15, 17, 25, 30, 40, Magnetic Recording Tape
Audio Devices, Inc., N.Y., Polyester Film Base, Magnetic Recording Film
Audio-Master Corp., N.Y., 25
Audio-Video Corp., N.Y., 5, 10, 15, 17, 20, 25, 30, 35, 40, 50
Avco Mfg. Corp., Mass., 20
Berndt-Bach, Inc., Calif., 20
Binghamton Magnetic Ind., Inc., N.Y., 20
Bryant Gage & Spindle Div., Vt., 20
Burroughs Corp., Electrodata Div., Calif., 25
Camera Equip. Co., Inc., N.Y., 5, 10, 17, 20, 25, 30, 50

49. Recording Accessories.

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Cinema Engrg. Div., Aerovox Corp., Calif., 17
Components Corp., N.J., Pressing Equip.
Consolidated Electrodynamics Corp., Calif., 20
Cordover & Co., N.Y., Cleaning Clothes, Tone Arm Brushes, Covers
Cousino, Inc., Ohio, 25, 50
Crucible Steel Co. of America, Pa., 35
Digitronics Corp., Albertson Ave., Albertson, N.Y., 20
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Tel: PIoneer 7-5090
Duotone Co. Inc., N.J., 10, 15, 40, 45
E M I Electronics Ltd., England, 20, 25
Electro-Chemical Engraving Co., Inc., N.Y., 5
Electromation Co., Calif., 17, 50
Electrovox Co. Inc., N.J., 15, 40
El Tronics, Inc., Alwac Div., Calif., 20
Fairchild Recording Equipment Corp., N.Y., 10, 20
Fidelitone, Inc., Ill., 15, 25, 35
Fort Wayne Metals, Inc., Ind., 35
General Transistor Western Corp., Calif., 20
Gotham Audio Dev. Corp., N.Y., 10
Gray Mfg., Co., Conn., 5
Home Recording Prod. Co., N.Y., 5
Indiana Steel Products Co., Valparaiso, Indiana, 17, magnetizers
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Tel: VAlparaiso 2-5601
Insco Co. Div. Barry Controls, Inc., Mass., Chart Driver
Internatl. Electronics Corp., N.Y., 10, 20
International Radio & Electronics Co., Ind., 20
Kinevox, Div. of Electromation Co., Calif., 17, 50
Laboratory for Electronics, Inc., Mass., 20
Land-C-Air Sales Co., N.Y., 5, 10, 15, 20, 25
Lear, Inc., Lear-Romec Div., Ohio, 45
Librascope, Inc., Calif., 17
Lipps E. A., Calif., 10, 15, 20, 40
Magnasync Mfg. Co., Ltd., Calif., 20, 50
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Maico Electronics Inc., Minn., 20
Micro-Electric Magnetic Instruments, Calif., 10, 15, 20
Microtran Co., Inc., 145 E. Mineola Ave., Valley Stream, L.I., N.Y., 17
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Tel: LOcust 1-6050
Midwestern Instruments, Inc., Magnecord Div., Okla., 20
Miller Mfg. Co., M. A., Ill., 15
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Minneapolis-Honeywell Reg. Co., Md., 20
Minnesota Mining & Mfg. Co., Mincom Div., Calif., 20, 25, 30, 50
Minnesota Mining & Mfg. Co., Minn., 25, 30, Plyester
Norton Associates, Inc., N.Y., 20
Nortronics Co., Inc., Minn., 20
Peirce Dictation Systems, Ill., 20, 35
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Permo, Inc., Ill., 15, 25, 30, 35
Potter Instrument Co., Inc., Sunnyside Blvd., Plainview, L.I., N.Y., 20
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Tel: OVerbrook 1-3200
Presto Recording Corp., N.J., 5, 10, 15, 20, 40
Radio Corp. of America, Electron Tube Div., Sec. I-20-Q, 415 S. Fifth St., Harrison, N.J., 25, 50
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Tel: HUmboldt 5-3900
Rangertone, Inc., N.J., 20
Recordisc Corp., N.Y., 5, 15
Reeves Equipment Corp., N.Y., 10, 20, 25
Reeves Soundcraft Corp., N.Y., 5, 15, 25, 40, Magnetic Recording Tape & Telemetery Tapes
Robins Industries Corp., N.Y., Recording Tape Reels
Shure Brothers, Inc., Ill., 20
Somers Brass Co., Inc., Conn., Metallic Tape for Recording
Sonotone Corp., Dept. COO-108, P.O. Box 200, Elmsford, N.Y., 20
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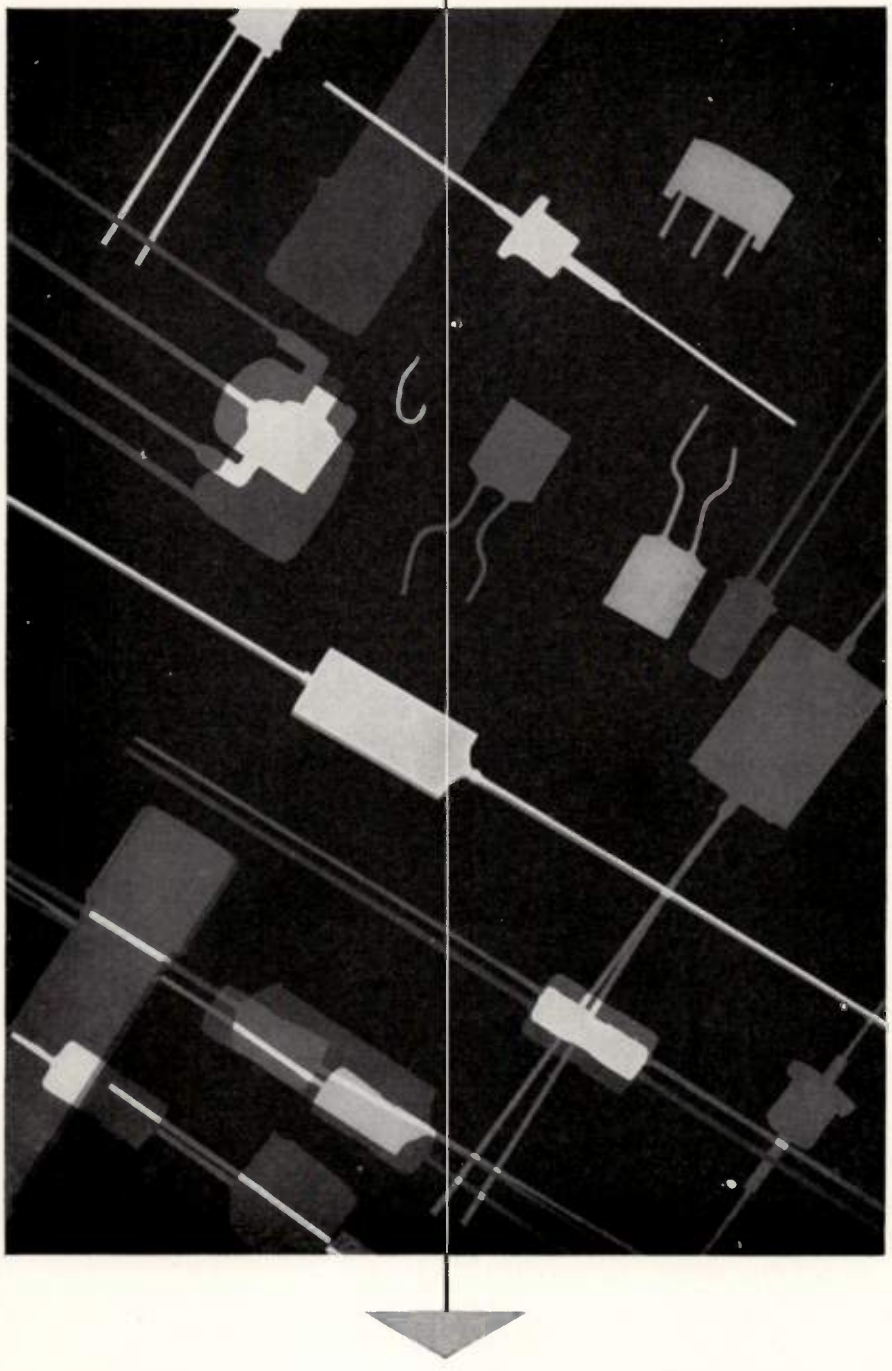
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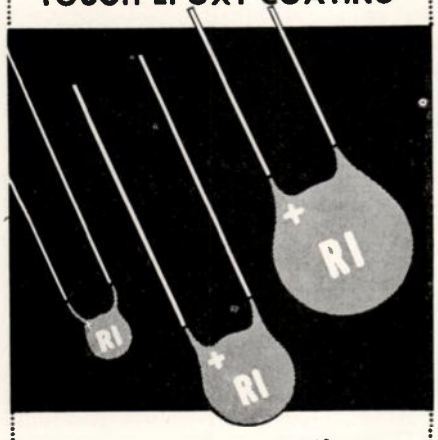
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model no.	cell size	continuous DC rating in ma
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1013	½"	24
1014	⅝"	36
1015	¾"	54

- Current ratings are for single phase half wave
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Sound Devices, Inc., N.Y., 5, 25
Soundscriber Corp., The, Conn., 5, 17, 20
Stancil-Hoffman Corp., Calif., 20
Standard Record Mfg. Co., Calif., Non-Magnetic Aluminum & Plastic Reels
Steward Mfg. Co., D. M., Tenn., 20
Tech Laboratories, Inc., Bergen & Edsall Blvds., Palisades Park, N.J., 15
See ad on page 430
Tel: WIndsor 4-2221
Telectro Industries Corp., N.Y., 20
Texas Instruments Incorporated, 6000 Lemmon Ave., P.O. Box 312, Dallas 9, Tex., 20
See ad on page 418
Tel: FLeetwood 7-4311
U.S. Recording Co., D.C., 25
Vemaline Products Co., N.J., Footswitches
Westrex Corp., N.Y., 5, 10, 20, 25

50. Rectifiers.

5. Copper oxide
7. Copper sulfide
10. Germanium
15. Selenium diodes
20. Selenium stacks
25. Silicon

Allied Industries Electronics, Canada, 15, 20, 25
Allis Chalmers Mfg. Co., Wis., 10, 25
Audio Devices, Inc., Calif., 25
Audio Devices, Inc., N.Y., 25
Barco, Inc., Wis., 20
Bendix Aviation Corp., Red Bank Div., Semiconductor Products Section, 201 Westwood Ave., Long Branch, N.J., 25
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Tel: CApital 2-6220
Bradley Labs., Inc., 170 Columbus Ave., New Haven 11, Conn., 5, 15, 20, 25
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Brown Co., I., N.Y., 10, 15, 20, 25
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Clark Electronic Labs., Calif., 10, 25
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Ferranti Electric, Ltd., Canada, 25
General Electric Co., Apparatus Sales Div., N.Y., 5, 10, 20, 25
General Electric Co., Rectifier Dept., Va., 5, 10, 15, 20, 25
General Electric Co., Semiconductor Products Dept., 1224 W. Genesee St., Syracuse, N.Y., 5, 10, 20, 25
See ad on page 422
Tel: GRanite 6-4411

50. Rectifiers.

General Electric Co. of England, Ltd., N.Y., 10, 15, 20, 25
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General Transistor Corp., N.Y., 10, 25
Hoffman Electronics Corp., Semiconductor Div., 930 Pitner Ave., Evanston, Ill., 25
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Tel: UNiversity 9-9850
Hughes Products, Hughes Aircraft Co., Calif., 25
Hughes Products, Semiconductor Div., International Airport Station, Los Angeles 45, Calif., 25
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Tel: ORchard 2-5061
International Rectifier Corp., 1521 E. Grand Ave., El Segundo, Calif., 10, 15, 20, 25
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International Resistance Co., Pa., 15, 20
International Telephone & Telegraph Corp., ITT Components Div., P.O. Box 412, Clifton, N.J., 15, 20, 25
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Tel. NUtley 2-3600
Kemtron Electron Prods. Inc., Mass., 10, 25
Leland, Inc., G. H., Ohio, 20
Magnatran, Inc., N.J., Unitized
Mallory & Co., Inc., P. R., Ind., 7, 25
Microwave Associates, Inc., Mass., 25
Miller Co., Sanford, N.Y., 20, 25
Model Rectifier Corp., 1675 Utica Ave., Brooklyn 34, N.Y., 20
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Nichols Ltd., R. H., Canada, 5, 20
Opad Electric Co., 69-8 Murray St., New York 7, N.Y., 5, 7, 10, 15, 20, 25
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Tel: BEekman 3-7548
Osborne Transformer Corp., Mich., 10, 15, 20, 25
Pacific Semiconductors, Inc., Calif., 25
Physics Research Labs., Inc., N.Y., 5
Pyramid Electric Co., 1445 Hudson Blvd., North Bergen, N.J., 20
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Tel: UNion 5-1776
Radio Corp. of America, Semiconductor & Materials Div., Section I-20-NN, Somerville, N.J., 25
See ad on page 114
Tel: RAndolph 5-4500
Radio Development & Research Corp., N.J., 25,
Radio Industries, Inc., 666 Garland Pl., Des Plaines, Ill., 15-disc type
See ads on pages 305, 393, 442
Tel: (Chicago) UPtown 8-6500
Radio Receptor Co., Inc., N.Y., 27
Rapid Electric Co., N.Y., 10, 20, 25
Raytheon Mfg. Co., Receiving Tube & Semiconductor Operations, Mass., 25
Rectico, Inc., N.J., 5, 7, 15, 20, 25
Richardson-Allen Corp., N.Y., 10, 15, 20, 25

YOU CAN BE SURE...IF IT'S Westinghouse

FOR SILICON RECTIFIERS • FOR SILICON AND GERMANIUM TRANSISTORS

Westinghouse has perfected a wide selection of rectifiers and transistors for electrical and electronic applications. Every device has been carefully designed and thoroughly tested to assure long life, high reliability, and excellent mechanical stability (units meet or exceed applicable military environmental requirements).

Westinghouse rectifiers and transistors have unique capabilities with respect to efficiency, power output, and space and weight considerations. For complete technical data, call your Westinghouse representative or write directly to Westinghouse Electric Corporation, Semiconductor Department, Youngwood, Pa.

LOW POWER SILICON RECTIFIERS

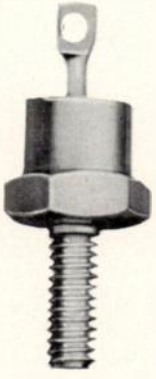


types 1N1227 series (305) and 1N1217 series (320)—Provide d-c average forward currents up to 1.6 amperes per cell half wave, single-phase (with proper heat sink) with maximum peak inverse voltage up to 1000 volts. For power supply applications.

types 1N1217A series (307), 1N1227A series (308), and 1N1537 series (352)—Provide d-c average forward currents up to 1.6 amperes per cell half wave, single-phase (with proper heat sink) with maximum peak inverse voltage up to 600 volts. For mag-amp applications.

types 1N1169 and 1N1486—Provide d-c average forward currents up to 500 ma per cell half wave, single-phase with peak inverse voltage of 400 and 500 volts respectively. For radio and TV applications.

MEDIUM POWER SILICON RECTIFIERS



1N1341 series (341)—Provide d-c average forward currents up to 6 amperes per cell half wave single-phase (with proper heat sink and cooling) with a maximum peak inverse voltage up to 600 volts.

1N1199 series (304)—Provide d-c average forward currents up to 12 amperes per cell half wave single-phase (with proper heat sink and cooling) with a maximum peak inverse voltage up to 600 volts.

1N1191 series (303)—Provide d-c average forward currents up to 18 amperes per cell half wave single-phase (with proper heat sink and cooling) with a maximum peak inverse voltage up to 600 volts.

1N1183 series (302)—Provide d-c average forward currents up to 35 amperes per cell half wave single-phase (with proper heat sink and cooling) with a maximum peak inverse voltage up to 600 volts.

GERMANIUM TRANSISTORS



types 2N59, 2N60, 2N61, 2N609, 2N610, and 2N611—Medium power, for use as matched pairs in Class B audio amplifiers.

types 2N402 and 2N612—For application as a driver in transistorized audio amplifiers.

types 2N403 and 2N613—Medium power application in Class A audio output stages and as high gain drivers.

types 2N614 and 2N615—For application as IF amplifiers at 455 KC.

type 2N616—For application as a reflex amplifier in transistorized radio receivers.

type 2N617—For application as a converter in transistorized radio receivers.

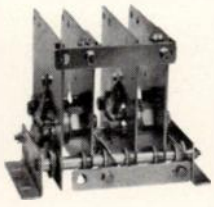
HIGH POWER SILICON RECTIFIERS



1N1660 series (329), 319, 322, and 326—Provide d-c average forward currents up to 160 amperes per cell half wave single-phase (with proper heat sink and cooling) with a maximum peak inverse voltage up to 500 volts.

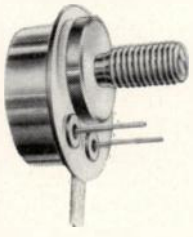
1N1670 series (339), 327, and 328—Provide d-c average forward currents up to 240 amperes per cell half wave single-phase (with proper heat sink and cooling) with a maximum peak inverse voltage up to 500 volts.

SILICON BRIDGE ASSEMBLIES



Available in a variety of standard as well as special designs. These assemblies are designed for either forced air or natural convection cooling. Nickel copper plates and other materials used in these assemblies have been chosen to insure satisfactory performance in corrosive atmospheres and ambient temperatures.

SILICON POWER TRANSISTORS



types 107-2 and 107-5—First members of a unique new family of Silicon Power Transistors developed to function at high voltages and high operating temperatures with high efficiency. As a d-c switch, handling 1.5 kw (300 volts at 5 amperes) efficiency is better than 99%. Type 107-2 is rated at 2 amperes, type 107-5 at 5 amperes.

For details, circle #350 on Reader Service Card

Directory II. Components

50. Rectifiers.

St. Eloi Corp., Ohio, Titanium
Schauer Mfg. Corp., Ohio, 5
Sel-Rex Corp., N.J., 5, 10, 20, 25.
Sickles Div., F. W., General Instrument Corp., Mass., 25
Smith-Meeker Engineering Co., N.Y., 20
Sylvania Electric Products, Inc., Mass., 25
Sylvania Electric Products, Inc., 1740 Broadway, New York 19, N.Y., 25
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Tel: JUdson 6-2424
Syntron Co., Pa., 15, 20, 25
Tarzian, Inc., Sarkes, Ind., 15, 20, 25
Technical Apparatus Builders, 109 W. Liberty St., New York 6E, N.Y., 5, 7, 10, 15, 20, 25
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Tel: REctor 2-6248
Texas Instruments Incorporated, 6000 Lemmon Ave., P.O. Box 312, Dallas 9, Tex., 25
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Tel: FLeetwood 7-4311
Thermosen, Inc., Conn., 25
Transitron Electronic Corp., 168 Albion St., Wakefield, Mass., 25
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Union Switch & Signal Div., Westinghouse Air Brake Co., 1789 Braddock Ave., Pittsburgh 18, Pa., 5
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United States Dynamics Corp., Mass., 25
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Wallson Associates, Inc., 33 E. Runyon St., Newark 8, N.J., Silicon Diode
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Westinghouse Electric Corp., Pa., 5, 10, 15, 20, 25
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Weston Instruments, Div. Daystrom, Inc., N.J., 5

51. Rectifiers, Vacuum Tube.

5. Grid controlled
10. Mercury vapor
15. Receiving
20. Transmitting

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Eitel-McCullough, Inc., 798 San Mateo Ave., San Bruno, Calif., 5, 10, 20
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Tel: JUno 8-1212

51. Rectifiers, Vacuum Tube.

Electronic Enterprises, Inc., N.J., 5, 10, 20
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General Electric Co., Power Tube Dept., Bldg. 267, Schenectady 5, N.Y., 5, 10, 20
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Nuclear Corp. of America, Inc., N.Y., 20
OK Electronics Corp., N.J., 5, 15, 20
Opad Electric Co., 69-8 Murray St., New York 7, N.Y., 5, 10, 15, 20
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Radio Corp. of America, Electron Tube Div., Sec. I-20-Q, 415 S. Fifth St., Harrison, N.J., 5, 10, 15, 20
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Sylvania Electric Products, Inc., 1740 Broadway, New York 19, N.Y., 10, 15
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Tel: JUdson 6-2424
Technical Apparatus Builders, 109 W. Liberty St., New York 6E, N.Y., 5, 10
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Tel: REctor 2-6248
Thermosen, Inc., Conn., Temp. Limit Diodes
Tung-Sol Electric Inc., 95 Eighth Ave., Newark 4, N.J., 15
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United Electronics Co., N.J., 5, 10, 20
Vacuum Tube Products Co., Inc., Calif., 5

Relay rack panels: See class 25

Relay racks: See class 28

52. Relays.

5. Co-axial
10. D'Arsonval
15. Differential
20. Frequency selective
25. Hermetically sealed
30. Impulse
35. Keying
40. Latching
45. Mercury contact
50. Polarized
55. Power control & overload
57. Rotary
60. Sensitive
65. Stepping
70. Sub-miniature
75. Telephone
80. Time delay

AGA Div., Elastic Stop Nut Corp., N.J., 25, 80
Ace Electronics Associates, Inc., Dept. L, 99 Dover St., Somerville 44, Mass., 25, 70
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Adams & Westlake Co., Ind., 45, 55, 80
Advanced Electronics. Inc., Conn., 20
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Tel: HUnter 6-1000
Allard Instrument Corp., N.Y., 40
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Code numbers shown after each firm refer to product or service sub-classes listed at the beginning of each major classification. Complete addresses will be found in the Alphabetical Directory.

ACE

Potentiometers - Trimmers - Relays

RELIABILITY IN MINIATURIZATION

ACEPOT® -500
ACEPOT X-500*

Sub-miniature, linear and non-linear potentiometers. Single turn unit, ½" size, ±2% resistance tolerance and ±0.3% ind. linearity.



actual size

Size	½" x ½"
Weight	0.25 ounce
Resistance Range	10Ω to 500K
Resistance Tolerance	±2%
Linearity	±0.3% Ind.
Temperature*	−55°C to 125°C
Mechanical Angle	330° Nominal
Electrical Angle	325° std. ≷ available
Resolution	0.12% for 50 K Others comparable
Torque**	.035 oz./in. at 20°C (Bronze)
Power	2 W for 60°C. rise
Mounting	Threaded bushing, servo, flush or flanged. Ganged up to 6 cups.

* X-500 new high temperature potentiometer. Range: −55°C to 150°C.

**Jewel bearing Acepot torque of .014 ounce/inch.

ACEOHM®

Sub-miniature trimmers . . . high temperature, humidity proof for severe environment.



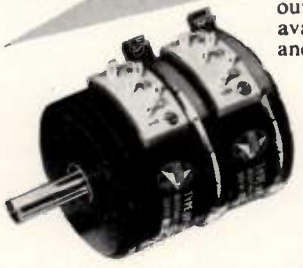
actual size

Size	1¼" x ¼" x 5/16" Standard Mounting holes
Weight	0.2 ounce
Resistance Range	10 Ω to 75K — Special to 150K
Mechanical Rotation	30 Turns on lead screw, adjustable over 100% of winding
Power Rating	.5 watts at 200°C
Temperature Range	−55 to 200°C
Resolution	.13% for 75K. Other resistances comparable
Dielectric Strength	1000 volt DC for 60 sec.
Load Life	100 hours at 225°C
Capacitance	Extremely low distributed capacity (moulded hi temp. phenolic case & cover)

Completely sealed element. Meets and surpasses all applicable requirements of MIL-E-5272A and MIL Stand. 202.

ACEPOT®

Sub-miniature and standard non-linear and linear potentiometers. 0.25% terminal conformity without padding resistors. Immediately available in sine, cosine, square law and log functions in AIA sizes.



	Sine-cosine	Double Sided Square-law
Size	3"	3"
Resistance	20K ±5% driving	25K ±5% driving
Conformity	½% pk-pk	±0.25%
Function angle	360°	±180°
Power	4 watts	3 watts
Mounting	Servo	Servo

Submit your design requirements to our Engineering Group for evaluation and quotations.

ACESET®

Sub-miniature Trimmers. Heat dissipation . . . 2 watts at 60°C. Immediate delivery in resistances of 50Ω to 100 K.

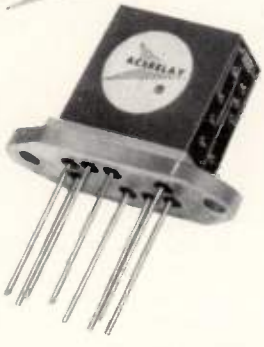


actual size

Size	½" x 5/16"
Weight	⅓ ounce, including lock washer and nuts
Resistance Range	50Ω to 100K ±10% std. tol.
Linearity	±5%
Temperature Range	−55°C to +125°C
Mechanical Rotation	330° Nominal
Electrical Angle	320° Nominal
Power	2 watts for 60°C. rise
Mounting	¼"-32 threaded bushing

ACERELAY* Model 220

Postage stamp size. Bifurcated contacts with extreme wipe providing low contact resistance for dry circuitry. Contact area hermetically *welded* from coil avoiding contamination and assuring unmatched reliability.



Size	.80" x .88" x .45"
Weight	.6 oz.
Contacts	Bifurcated 2 Form C*
Contact Rating	2 A. Resistive
Coil Resistance	To 10,000 Ω std.
Vibration	5-2000 cps at 20 G min.
Shock	50 G min.
Life	100,000 oper. min.
Header Type	8 pin per MIL. spec. MS 24250 Type Y configuration Plug-in, or Solder Leads
Temperature	−65°C to +125°C
Mounting	Socket or integral Bracket

*Double pole double throw break before make.

ACETRIM®

Sub-miniature trimmers . . . A wide range of resistances are available in this low-cost, space and weight saving unit.



actual size

Size	½" x ½"
Weight	0.25 ounce
Resistance Range	10Ω to 150K ±5% std. tol.
Linearity	±3%
Temperature	−55°C to 125°C (to 150°C on special order)
Mechanical Rotation	330° Nominal
Electrical Angle	325° std. ≷ available
Power	2W for 60°C rise
Mounting	Threaded bushing, printed circuit, flush, flanged, ganged.

Exact requirements for your particular applications, can be custom designed and mass produced with short lead time. All units are anti-fungus treated and fully sealed against dust, moisture and humidity. Meets applicable JAN-MIL specs including shock and vibration. Send us your specifications for engineering assistance on designs and applications. Complete Fact File and Application Data Sheets available on request. CALL, wire or teletype Dept. L at Ace Electronics Associates, Inc., 99 Dover Street, Somerville, Mass. SOmerset 6-5130, TWX SMVL 181.

ACEPOT®
ACETRIM®
ACESET®
ACEOHM®

ACE ELECTRONICS ASSOCIATES INC.

For detai s, circle #351 on Reader Service Card

Directory II. Components

52. Relays.

Artisan Electronics Corp., N.J., 25, 30, 35, 40, 55, 57, 65

Assembly Products Inc., 75 Wilson Mills Rd., Chesterland 33, Ohio, 10, 55, 60
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Tel: HAmilton 3-4436

Automatic Electronic Co., Ill., 15, 25, 30, 35, 40, 45, 50, 57, 60, 65, 75, 80

Automatic Electric Sales Corp., N.Y., 15, 25, 30, 35, 40, 45, 50, 55, 60, 65, 75, 80

Automatic Metal Products Corp., 323 Berry St., Brooklyn 11, N.Y., 5, 70
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Tel: EVergreen 8-0364

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Automatic Temp. Control Co., Inc., Pa., 80

Avionics, Ltd., Canada, 40, 55, 75

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Bergen Laboratories, Inc., 247 Crooks Ave., Clifton, N.J., 57, 65
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Tel: JUniper 8-2410

Connecticut Tel. & Elec. Co., Conn., 25, 35, 60, 65, 75, 80

Control Electronics Co., Inc., 10 Stepar Place, Huntington Station, L.I., N.Y., 80
See ads on pages 343, 507
Tel: HAmilton 7-7961

AMPERITE PREFERRED

by design engineers—because they're
MOST COMPACT • SIMPLEST • MOST ECONOMICAL
HERMETICALLY SEALED



Thermostatic DELAY RELAYS

2 to 180 Seconds

Actuated by a heater, they operate on A.C., D.C., or Pulsating Current.

Hermetically sealed. Not affected by altitude, moisture, or climate changes.

SPST only—normally open or closed.

Compensated for ambient temperature changes from —55° to +70° C. Heaters consume approximately 2 W. and may be operated continuously. The units are **rugged, explosion-proof, long-lived, and—inexpensive!**

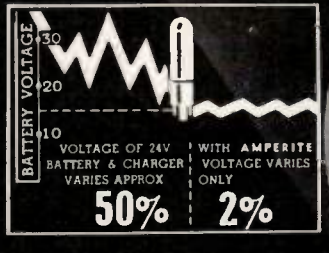
TYPES: Standard Radio Octal, and 9-Pin Miniature . . . List Price, $4.00. Standard Delays

Also — **Amperite Differential Relays:** Used for automatic overload, under-voltage or under-current protection.

PROBLEM? Send for Bulletin No. TR-81

BALLAST REGULATORS

Amperite Regulators are designed to keep the current in a circuit **automatically regulated** at a definite value (for example, 0.5 amp.) . . . For currents of 60 ma. to 5 amps. Operate on A.C., D.C., or Pulsating Current.





Hermetically sealed, they are not affected by changes in altitude, ambient temperature (—55° to +90° C.), or humidity . . . Rugged, light, compact, most inexpensive . . . . . List Price, $3.00.

Write for 4-page Technical Bulletin No. AB-51

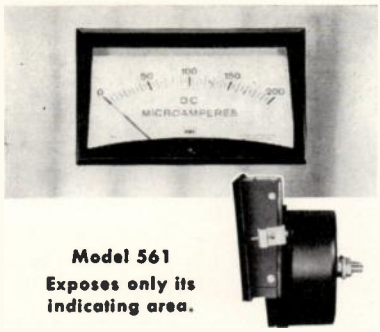
AMPERITE CO. Inc., 561 Broadway, New York 12, N. Y.

Telephone: CAnal 6-1446

In Canada: Atlas Radio Corp., Ltd., 50 Wingold Ave., Toronto 10

For details, circle #352 on Reader Service Card

api PANEL METERS



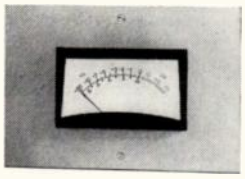
Model 561
Exposes only its indicating area.

Model 561 panel meter has a big 5" x 2⅞" dial, yet takes 15% less panel space than usual 4½" rectangular meters. Behind-the-panel mounting hides entire case—meter projects only 3/16" from panel front.

Can be illuminated by back of panel light through window at top. Window and dial are slanted back for easy reading. No positioning holes needed—meter is snugged to panel by rear screw-on clamps.

Black satin finish is standard—no extra charge for gray in quantities. Other colors extra. Ranges: 0/5 microamperes to 0/50 amperes; 0/5 millivolts to 0/500 volts.

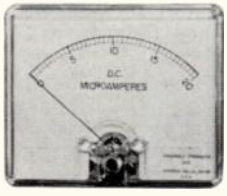
MODEL 561 VU METERS



The Assembly Products VU meter meets American Standard C16.5-1954. Buff dial with red and black numerals. Response time for a step change of 0.3-second, ±10%. Overshoot is 1 to 1.5%.



Model 261



Model 451

D'Arsonval movements, Alnico magnets, tubing or knife-edge pointers. AC meters are rectifier type. DC accuracy, 2%; AC 3%. Better accuracies available. Zero right, zero center meters or up to two-thirds of range suppressed. AC and DC meters in multiple ranges. Special dials in colors, black face, your name, etc. Mirror scales.

STYLES: API PANEL METERS

Ruggedized-Sealed: 2½, 3½, 4½-inch round metal case, sealed zero adjust, shock-mounted movement.

Black Bakelite: 2½", round or square, 3½" round or square, 4½" rectangular. (Other colors and illumination in 4½" size.)

Clear Plastic: 2½", 3¾" and 4½" rectangular.



Send For Catalog:

36-PAGE CATALOG 4-E DESCRIBES COMPLETE PRODUCT LINE—includes circuitry, response time, prices, discounts, etc.

api METER-RELAYS

Indicating meters with built-in locking contacts for control or alarm. Trip point adjustable.

Ranges: 0-5 Ua. to 0-50 A., 0-5 Mv. to 0-500 V. AC or DC. tMin. AC voltage range 0-250 Mv.) Thermocouple temp. ranges, −400 to +3000°F.



Model 255-C



Model 461-C Bakelite



Model 451-C

Life: 10 to 20 million operations.

Accuracy:
Point of contact: ¼% to 1%.
Indicating: ±2% of full scale at any point of dial. Can be 1%.

Contacts:
Rating: Standard is 5-25 milliamperes at 75-125 volts DC. Optional ratings to 250 Ma, 6 to 250 volts., DC.

Arrangement: High Limit (makes on increase of signal), Low Limit (makes on decrease of signal), Double (both high and low contacts.)

Case Styles
Ruggedized-sealed metal cases are 2½, 3½, and 4½" round. shock-mounted movement, gasket-sealed. Black Bakelite... glass front, 4½" rectangular case. Other colors on special order. Clear Plastic 2½, 3¾, and 4½" rectangular.

MIL Specs:
Ruggedized-sealed meter-relays will meet these specs: Shock: 1 and 3-foot drops, 400 lb. hammer, 3 planes. Vibration: MIL-M-10304A.
Salt Spray: QQ-M-151A Temp.: −30°/+70°C. Sealing: MIL-M-6A.



VHS METER-RELAY
(Very High Sensitivity)

Plastic Case, or Solder-Sealed Metal Case. 1⅜ x 2" approx.
Connections: 9-pin octal style, or miniature, or solder.
Weight: 4 ounces.
Sensitivity: From 0.2 Ua to 10 Amp., 0.1 Mv to 500 volts. AC relays are rectifier type.
Accuracy: Trip point to 2% (depends on sensitivity). Differential and repeatability 1%.
Shock & Vibration: Operates at 10 G or more, 5-55 cycles. Non-operating, withstands 10 G or more, 5 to 2,000 cycles; shocks of 10 G or more.
Contacts: SPST or SPDT, 5-25 Ma DC. Other ratings to ½ Amp. AC.

LIAD MULTI-CONTACT METER-RELAY



The LIAD consists of a D'Arsonval meter movement with one or several contacts carried on the moving pointer, a printed circuit scale (95 angular degrees), and a device for gripping the pointer and its contacts to the scale contact bars.

The unique combination of contact closures resulting from this gripping tells the level of the signal—and can be transmitted or used for telemetering; automatic production testing or grading; maximum value reading; simple quantitative read-out, etc.

api Assembly Products Inc.
Chesterland 33, Ohio

For details, circle #353 on Reader Service Card



but AEMCO did it . . . and built it fast!

Typical of AEMCO ingenuity, the compact Type 134-3468 high voltage relay illustrated above was designed to meet rigid customer requirements of reliability and cost. Although AEMCO manufactures a complete line of hundreds of standard relays, development and manufacture of relays such as this are right "up our alley." Want fast service on protypes and development models? Want experienced, imaginative engineering with an eye to production economy? Then contact AEMCO—the firm that's building relays for more than a hundred outstanding firms.

*Hermetically sealed enclosure with rigid mounting bracket to withstand vibration requirements up to 10 G's—500 CPS. Designed for custom application, contacts are gold alloy SPDT dry circuit, with NC contact grounded and NO contact insulated for 10,000 V peak at 2 to 4 mcs.

Need relays? ask AEMCO



AEMCO offers a complete line of relays in a wide choice of spring and coil combinations, operating potentials, and contact ratings. If one of hundreds of standard AEMCO relay types does not exactly meet your requirements, we will be happy to design and manufacture a unit to meet or exceed your requirements.

AEMCO also manufactures a complete line of Sequence and Automatic Re-Set Timers, Time Switches and Sign Flashers.

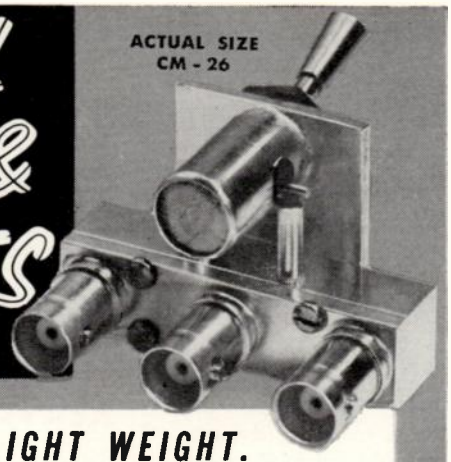
WRITE TODAY
Your inquiries are invited. Ask for your free copy of Relay Catalog describing all standard relays in the AEMCO line.



AEMCO INCORPORATED
10 State St. • Mankato, Minn.

For details, circle #354 on Reader Service Card

COAXIAL RELAYS & SWITCHES



- **SMALL SIZE • LIGHT WEIGHT.**
- **LOW COST • EXTREME RELIABILITY.**

Low VSWR not only through the UHF frequencies but in many types into the microwave range.

Excellent Crosstalk Figures — Most types ground the output(s) when not connected to the common input.

Any Connector Type with almost any orientation.

Fast Operation — 15 milliseconds for CR types operated by DC.

Long Life — 1,000,000 cycles minimum for CR types, 100,000 for CM types.

Low Coil Consumption — Approximately 2W for most DC operated coils, 6VA for most AC coils.

Teflon RF Insulation in all types using BNC, UHF, N, or C connectors.

Resistant to Military Environmental Conditions of temperature, shock, humidity, and salt spray.

Resistor Terminations in types intended for video switching and similar applications.

Remote Electrical or Toggle-Actuated Manual Operation available in most types.

Access to Contacts Without Disassembly provided in CR and CM types.

Twin Silver Contacts on switches rated for powers exceeding 250 watts.

Fine Silver Contacts — On special order Palladium contacts can be supplied in most types.

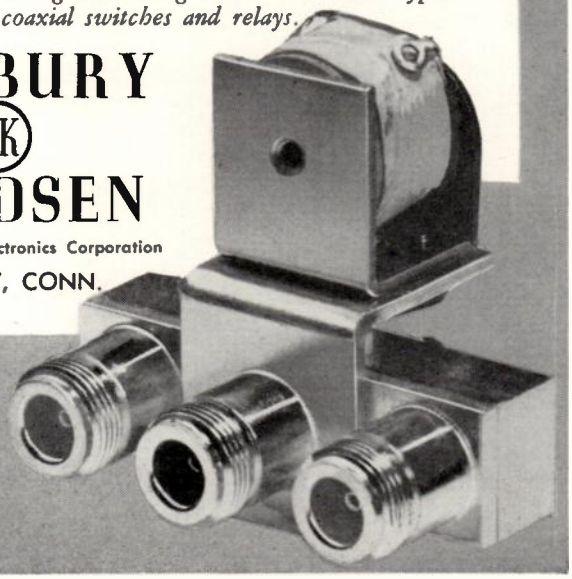
Complex Switching Accomplished by crossover, DPDT, and multiposition types.

Write for our catalog describing these and other types of coaxial switches and relays.

DANBURY
DK
KNUDSEN

Division of Amphenol Electronics Corporation

DANBURY, CONN.



For details, circle #355 on Reader Service Card

Directory II. Components

52. Relays.

Cook Electric Co., Ill., 15, 20, 25, 30, 35, 40, 50, 55, 57, 60, 65, 70, 75, 80

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Cramer Controls Corp., Conn., 25, 80

Curtiss-Wright Corp., 631 Central Ave., Carlstadt, N.J., 80
See ad on page 400
Tel: GEneva 8-4000

Cutler-Hammer, Inc., Wis., 25, 30, 35, 40, 55, 60, 65, 80

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Tel: PI 8-3549

Datascan, Inc., N.J., Electronic

Daystrom, Inc., N.J., 10, 15, 20, 25, 50, 55, 60, 70, 80

Del Electronics Corp., Dept. ID, 521 Homestead Ave., Mount Vernon, N.Y., high voltage
See ad on page 374
Tel: OWens 9-3232

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Dominion Electrohome Ind., Ltd., Canada, 55, 80

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E T A Products Co. of America, Ill., 55, 60

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Electro-Switch & Controls, Inc., Calif., 25, 50, 60, 70, 75, 80

Electro Tec Corp., N.J., Aircraft, Dry Circuits

Electronic Control Corp., Mich., 55

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Elgin National Watch Co., Calif., 5, 25, 35, 40, 50, 55, 57, 60, 70, 75, 80

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Essex Wire Corp., R B M Div., Ind., 25, 55, 60, 75

Essex Wire Corp., Ind., 25, 55, 60, 75

Etelco, Ltd., England, 25, 45, 50, 60, 75

Falcon Electronics Corp., N.J., 25, 70, 80

Farmer Electric Prods. Co., Inc., Mass., Electronic

Filtors, Inc., N.Y., 25, 40

CURTISS-WRIGHT PRECISION INSTRUMENTS

backed by years of experience in producing complex electronic equipment



A combination Micro-microammeter and Millivoltmeter.

- 10, 100, and 1000 mv scales
- 10^{-5} to 10^{-14} amperes full scale
- Short response time
- 10^{15} ohm input resistance
- Less than 1 mv drift per day
- ± 2% accuracy

DYNAMIC CAPACITOR ELECTROMETERS

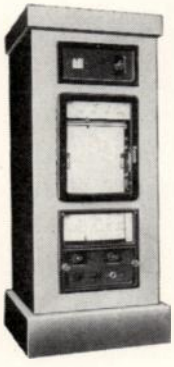
A direct reading millivoltmeter of 10 mv full scale sensitivity with an input resistance of 10^{15} ohms . . . uses exclusive dynamic capacitor as d-c inverter for stable a-c amplification. As a micro-microammeter, provides full scale sensitivity of 10^{-14} amperes, permitting measurements to 10^{-15} amperes. Convenience and accuracy increased by guard ring terminal, and switches for range selection and polarity reversal.

DEVR DISTORTION ELIMINATING VOLTAGE REGULATORS



- 60-cycle and new 400-cycle regulators
- Furnish 1.4 KVA of distortion-free, ± 1% electronically regulated power
- Quick response . . . 400-cycle in less than 1/20 cycle; 60-cycle in less than 1/50 cycle
- Simultaneously provide 4 KVA of ± 1% electromechanically regulated power
- Introduce no phase shift between input and output

RECORDERS—CONTROLLERS—INSULATION TESTERS

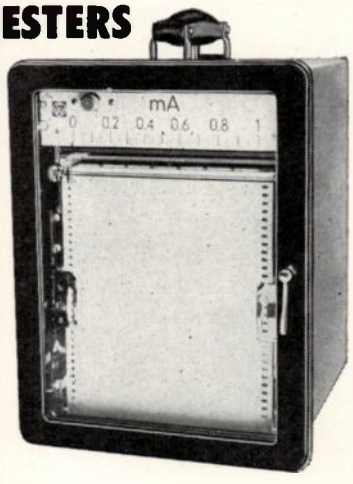


Indicating Controllers

Accurately indicate and control temperatures and other variables expressed in millivolts, microamperes and changes of resistance. "On-off" type . . . ranges from 30°-100° F. to 30°-3,000° F. Repeatability of control 0.2%; accuracy of indication ± 1%. Zero time lag response. Can be combined into systems for varied demands.

Strip Chart Recorders

Standard size (illustrated) up to 3 channels; also double size up to 6 channels and miniature sizes. Rectilinear, inkless and ink recording in one unit. Three speed transmission plus 60:1 speed change from hours to minutes. Accuracy 1%. Wide choice of ranges and chart drives. Shockproof movement; splash and dustproof steel case.



Insulation Testers



Small, extremely rugged, portable megohm-meters with built-in hand-cranked test voltage generator. Patented mechanical rectifier permits generation of up to 5000V. Easy hand-cranking, accuracy ± 1.5%. Scale length 2¾". Wide range of test voltages and measuring ranges.

THERMAL TIME DELAY RELAYS *for military and industrial applications*



H SERIES
high vibration resistance



S SERIES
s-p., d-t snap-action contacts



K SERIES
economical, low-cost

Ten series of standard Curtiss-Wright thermal relays are available for immediate delivery . . . or *special custom designs* can be engineered and produced on order. Curtiss-Wright design and production experience is at your service to help solve problems in time delay relays. In addition to those illustrated, series immediately available include:

IR — TR and STR . . . instant reset, voltage compensated

MR and CR . . . double-throw contacts, fast reset, no contact chatter

G and W . . . economical, low-cost

ELECTRONICS DIVISION
CURTISS-WRIGHT
CORPORATION • CARLSTADT, N. J.

For details, circle #356 on Reader Service Card

Directory II. Components

52. Relays.

Foley Associates, Andrew A., N.J., 25, 30, 40, 50, 55, 60, 65, 70, 80

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General Controls Co., Calif., 55

General Devices, Inc., P.O. Box 253, Princeton, N.J., 57
See ad on page 270
Tel: DAvis 9-2323

General Dynamics Corp., Stromberg-Carlson Div., N.Y., 75

General Electric Co., Apparatus Sales Div., N.Y., 15, 20, 40, 55, 60, 70, 80

General Hermetic Sealing Corp., 99 E. Hawthorne Ave., Valley Stream, L.I., N.Y., 25
See ad on page 540
Tel: VAlley Stream 5-6363

Gibbs Mfg. & Research Corp., Wis., 80

Globe Electrical Mfg. Co., Calif., 25, 35, 40, 55, 57, 60, 75, 80

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Guardian Electric Mfg. Co., 1621-IRE W. Walnut St., Chicago 12, Ill., 25, 30, 35, 40, 55, 57, 60, 65, 70, 75, 80
See ad on page 170
Tel: CHesapeake 3-1100

Gulton Industries, Inc., N.J., 20

Hamlin, Inc., Ill., 25, 45, 80

Hart Mfg. Co., 265 Bartholomew Ave., Hartford 1, Conn., 25, 50, 55, 60, 70
See ad on this page
Tel: JAckson 5-3491

Haydon Co., A. W., 240 N. Elm St., Waterbury 20, Conn., 80
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Tel: PLaza 6-4481

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Hetherington, Inc., Pa., 25, 55

Hi-G, Inc., Bradley Field, Windsor Locks, Conn., 25, 57, 70
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Tel: NAtional 3-3308

Hillburn Electronic Products Co., 55 Nassau Ave., Brooklyn 22, N.Y., 25, 30, 35
See ad on page 403
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Imtra Corp., Mass., 40, 57, 75

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Iron Fireman Mfg. Co., Electronics Div., Ore., 25, 60, 70

J-V-M Microwave Co., 9305 W. 47th St., Brookfield, Ill., 5
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Tel: HUnter 5-2000

Jack & Heintz, Inc., Ohio, 40

James Vibrapowr Co., 4050 N. Rockwell St., Chicago 18, Ill., 5
See ad on page 328
Tel: COrnelia 7-6333

'DIAMOND H' RELAYS

NEW . . . High Speed Polarized Relays



Fast action with freedom from bounce, plus high sensitivity and consistent operation with low distortion, are provided by small, rugged Series P Polarized Relays. SPDT, with two independent coils, they will handle over 1,000 pulses per second. Various coil resistances up to 5,000 ohms each coil. Contact ratings vary with switching speed but range from 60 MA to 2A with voltages to 120 AC or DC, dependent upon amperages employed.

Aircraft-Missile Series R & S Relays



Miniature, hermetically sealed 4PDT, Series R & S relays provide excellent reliability over their long service life. Electrically and physically interchangeable, the two series differ only in that Series S coils are separately sealed within the sealed cases, with organic matter eliminated from the switch mechanism for greatest reliability in dry circuits. Contacts MA to 10 A.

General Purpose AC, DC Relays



Series W Power Relays are DPDT, double break-double make; measure only 1½" x 1½" x 1⅞", but are rated to 25 A, resistive, at 112-230 V, AC, 1 HP 115 V, AC, 2 HP, 230 V, AC. Socket, panel and sidewall mountings are standard; others available to meet special needs. 12 possible contact arrangements, including sequencing.

"Diamond H" engineers are prepared to work with you to develop variations on these relays to meet your specific requirements. Tell us your needs . . . by phone or letter.

THE HART MANUFACTURING COMPANY

265 Bartholomew Ave., Hartford 1, Conn.

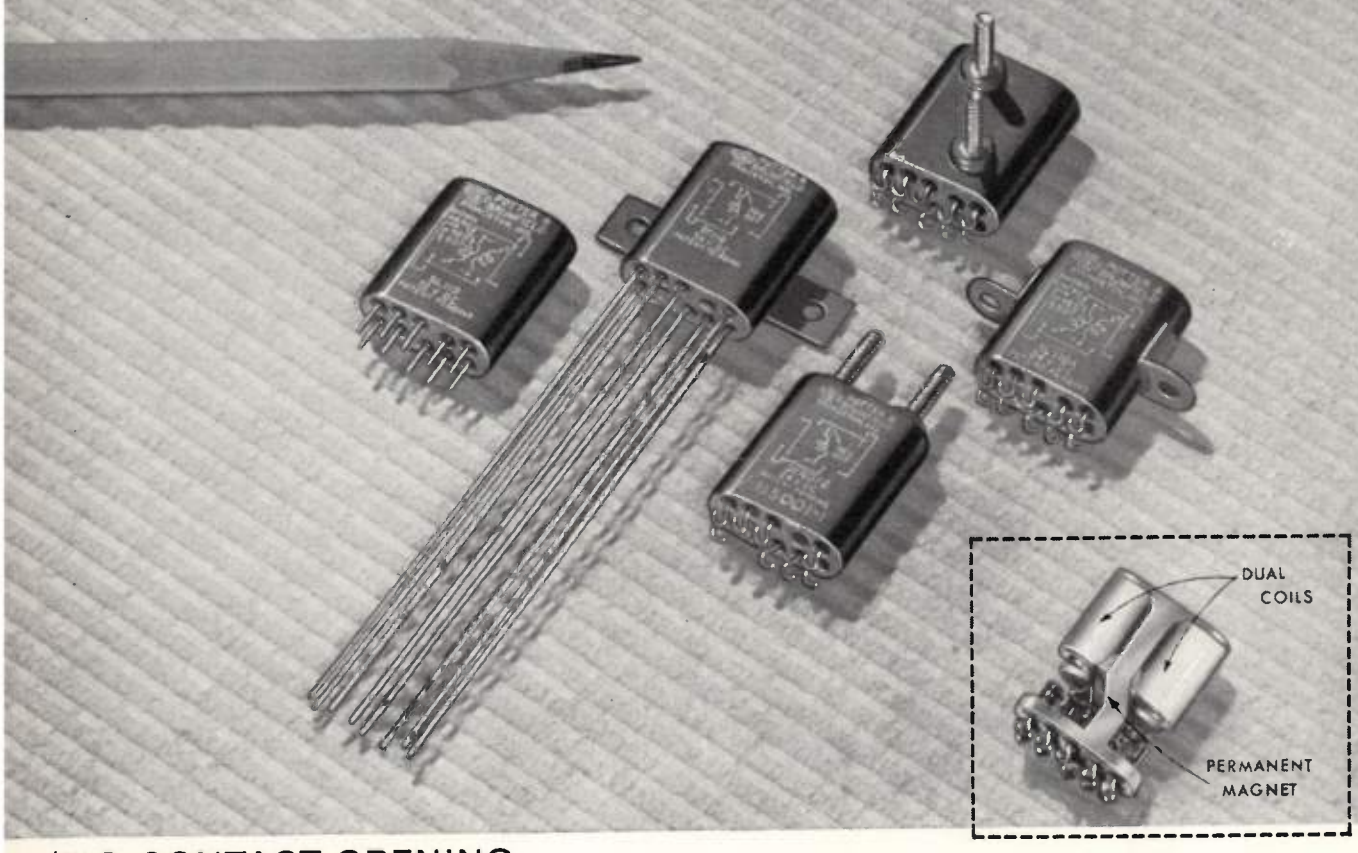
Phone JAckson 5-3491

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P&B MICRO-MINIATURE RELAYS LEAD IN

performance

SHOCK: 100g* VIBRATION: 30g to 2000 cps*

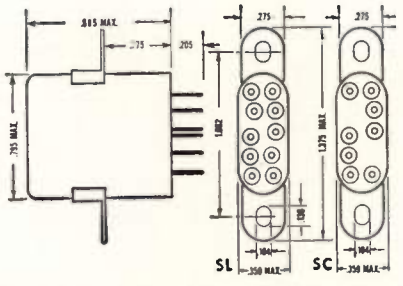


*NO CONTACT OPENING

New P&B crystal-case size relays, the SC and the SL (magnetic latching), show amazing shock and vibration capabilities. They absorb shocks of 100g and vibrations 30g to 2000 cps. without contact openings!

A highly efficient magnetic structure utilizing a permanent magnet makes possible at least twice the contact pressure found in DPDT relays of comparable size. One watt of power for three milliseconds operates either relay. Transfer time is unusually fast —0.5 milliseconds maximum.

For more information, contact your P&B sales engineer, or write Potter & Brumfield, Princeton, Indiana.



SL—dual coil latching relay. Operates on a 1 watt, 3 ms. pulse at nominal voltage. Permanent magnet latch locks the armature in either position.

SC—non-latching relay with series-connected dual coils. Operates on approximately 1 watt at nominal voltage. Coils must remain energized to hold the armature in the operate position.

SC and SL Series Engineering Data

GENERAL:
Insulation Resistance: 10,000 megohms, min.
Breakdown Voltage: 1,000 V. RMS.
Shock: 100g.
Vibration: 30g 55 to 2000 cps.; 0.195" max. excursions from 10-55 cps.
Temperature Range: —65° C. to + 125° C.
Weight: 15 grams without mounting bracket.
Operate Time: 3 MS. max. with 550 ohm coil @ 24 V. DC. (SL: 630 ohm coil at 24 V. DC).
Transfer Time: 0.5 MS max.
Terminals: (1) Plug-in for microminiature receptacle of printed circuit board.
(2) Hook end solder for 2 #24 AWG wires.
(3) 3" flexible leads.
Enclosure: Hermetically sealed.

CONTACTS:
Arrangement: 2 Form C.
Material: Gold flashed palladium.
Load: 2 amps @ 28 V. DC, resistive; 1 amp @ 115 V. 60 cycles AC, resistive.
Pressure: SC—16 grams min.; SL—20 grams min.

COIL:
Power: Approx. 1.0 watt at Nominal Voltage.
Resistance: SL—40 to 1400 ohms; SC—35 to 1250 ohms.
Duty: Continuous.

MOUNTINGS:
Bracket, stud and plug-in.

P&B STANDARD RELAYS ARE AVAILABLE AT YOUR LOCAL ELECTRONIC PARTS DISTRIBUTOR

POTTER & BRUMFIELD INC.

PRINCETON, INDIANA • SUBSIDIARY OF AMERICAN MACHINE & FOUNDRY COMPANY

For details, circle #358 on Reader Service Card

Directory II. Components

52. Relays.

Jennings Radio Mfg. Corp., 970 McLaughlin Ave., San Jose 8, Calif., 5, 30, 40, 55, high voltage vacuum
See ad on page 302
Tel: CYpress 2-4025

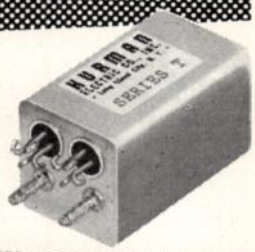
Kellogg Switchboard & Supply Co., Ill., 75

Kurman Electric Co., Dept. R, 191 Newel St., Brooklyn 22, N.Y., 5, 25, 30, 35, 40, 50, 55, 60, 70, 75, 80
See ad on this page
Tel: EVergreen 3-8000

Lakewood Controls Corp., Ill., 25, 35, 60, 75, 80
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Line Electric Co., N.J., 35, 40, 55, 80
Livingston Electronic Corp., N.J., 80
Luther Mfg. Co., Calif., 25, 50, 60, 70

KURMAN RELAYS

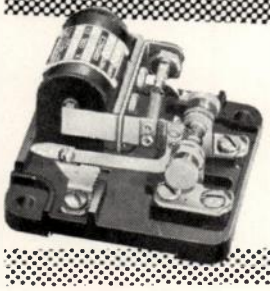
Just a few types of the KURMAN line:



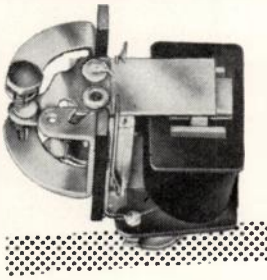
SUB-MINIATURE SENSITIVE RELAY
Series T



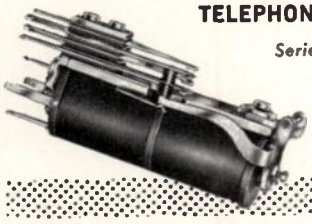
POWER RELAY
Series 26



POWERFUL SENSITIVE RELAY
Series 300



MIDGET SENSITIVE RELAY
Series 23



TELEPHONE RELAY
Series A

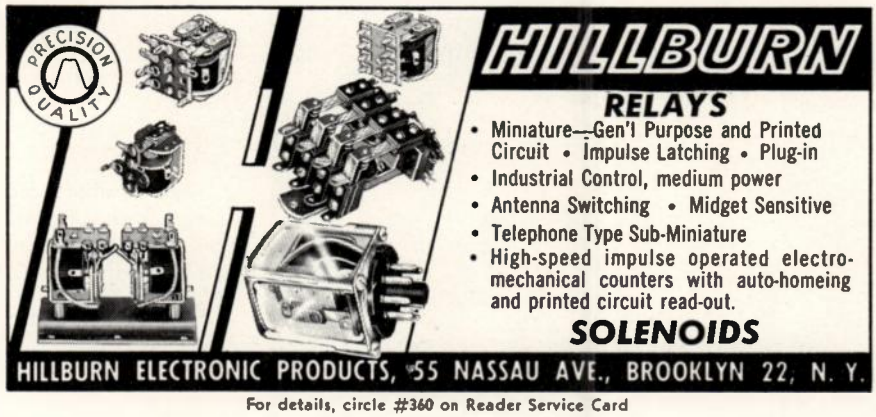
Contact your local distributor or
SEND FOR COMPLETE CATALOG

Kurman Relays . . . hermetically sealed, dust covered and open . . . meet military specifications . . . interchangeable with other leading makes.

KURMAN ELECTRIC CO.

Division of NORBUTE CORPORATION
Dept. R, 191 Newel St., Brooklyn 22, N. Y.
EVergreen 3-8000

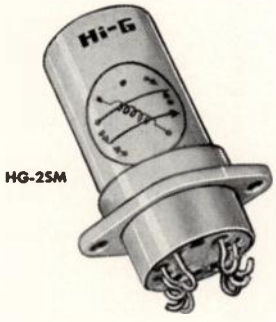
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For details, circle #360 on Reader Service Card

MINIATURE AND SUB-MINIATURE

relays by Hi-G



HG-2SM

Rugged and reliable relays are manufactured at Hi-G in a wide range of standard units... and to customer order with special designs to meet your particular requirements.

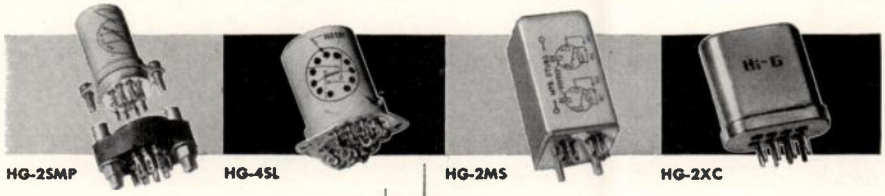
Complete experimental and prototype facilities permit Hi-G engineering personnel to study and evaluate your relay needs.

New, complete illustrated specification sheet available. Write for your free copy today.

And for information on special relay units, send your specifications to Hi-G for study and recommendations at no obligation.

rugged / reliable / shock and vibration resistant

A FEW OF THE WIDE RANGE OF HI-G STANDARD RELAYS

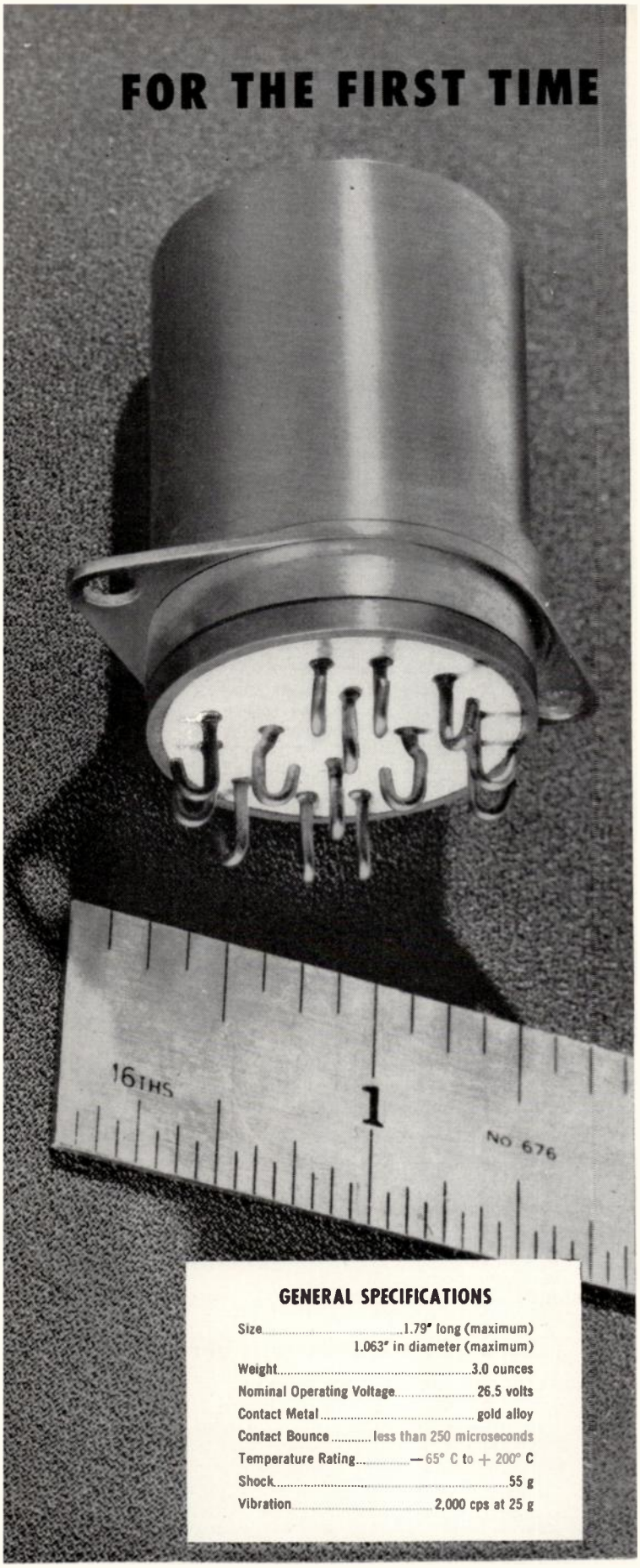


HG-2SMP HG-4SL HG-2MS HG-2XC

Hi-G inc.

BRADLEY FIELD WINDSOR LOCKS, CONN.

For details, circle #361 on Reader Service Card



GENERAL SPECIFICATIONS

Size	1.79" long (maximum) 1.063" in diameter (maximum)
Weight	3.0 ounces
Nominal Operating Voltage	26.5 volts
Contact Metal	gold alloy
Contact Bounce	less than 250 microseconds
Temperature Rating	— 65° C to + 200° C
Shock	55 g
Vibration	2,000 cps at 25 g

a new 4PDT relay to meet all requirements of MIL-R-25018!

Don't compromise with the Class C, Type II, Grade 3 requirements of MS 24114-9, MIL-R-25018. You don't have to any more. Now Union Switch & Signal has a 4PDT, rotary-armature relay designed to meet these specifications *completely*. It is the first of its type to do so. In fact, it *exceeds* some of the rugged requirements.

Here is the kind of performance you can expect from this new relay:

High operating temperature. Even at an ambient temperature of 200° C, this relay gives optimum performance. The use of ceramic material provides consistently high insulation resistance. As a result, you can install this relay closer to engines. You often can use it *without* temperature controlled boxes. Always, you will find it supremely rugged and reliable.

High in shock resistance. This new UNION Relay withstands shock *greater* than 55 g for 11 milliseconds—and continues to operate. In vibration tests, it shows no contact chatter up to 2,000 cycles at an acceleration of 25 g.

New high in contact reliability. Contact reliability of this relay is *six times* that of comparable devices because of its new 2-button, bifurcated contacts. Bifurcation also increases current carrying capacity (each button easily handles a full 2-ampere load) . . . and makes gold alloy contacts practical for both low- and high-level loads.

Contact reliability is enhanced, too, by the ceramic insulation which contains no volatile material to contaminate contacts and by separate hermetic sealing of the magnet coil.

New torsion-type rotary-armature suspension improves resistance to thermal shock . . . increases reliability over the entire temperature range . . . and greatly extends the operating life of this new 4PDT relay. Call or send the coupon for complete information about this and other miniature relays manufactured by Union Switch & Signal.

COMPLETE FACTS

Union Switch & Signal, Advertising Dept.
Division of Westinghouse Air Brake Co.
Pittsburgh 18, Pennsylvania

Please send the following:

☐ Complete description of your new 4PDT relay which meets every requirement of MIL-R-25018. ☐ Catalog of other miniature dc and ac relays which you manufacture to MIL-R-25018, MIL-R-6106C, and MIL-R-5757C requirements. ☐ Description of your Digital and Alpha-Numerical Indicators for data display.

Name .....

Position .....

Firm .....

Address .....

City ..... **State** .....

☐ Also, put me on your technical mailing list.

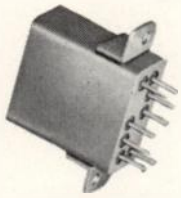
"Pioneers in Push-Button Science"

UNION SWITCH & SIGNAL
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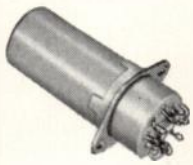
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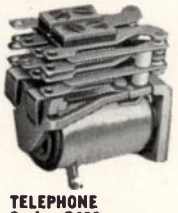
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Designed and Built to MIL. Specifications
TYPES: Open Type, Enclosed Type, Hermetically Sealed
NEW—TIME DELAY FEATURE

MAGNADYNE'S *NEW* transistorized Time Delay Relays—with instant re-setting—can be designed with delay time ranging from 10 milli-seconds to 5 minutes, with accuracy to ± 5% or better if specified . . . regardless of temperature or voltage fluctuations. TYPES: Delayed Operate, Delayed Release, Flip-Flop.

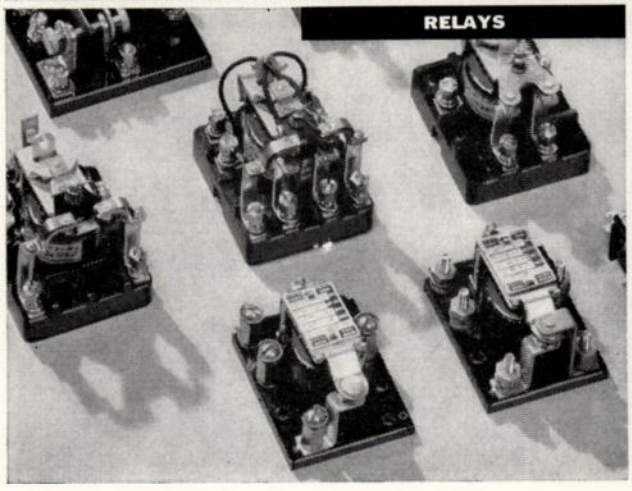
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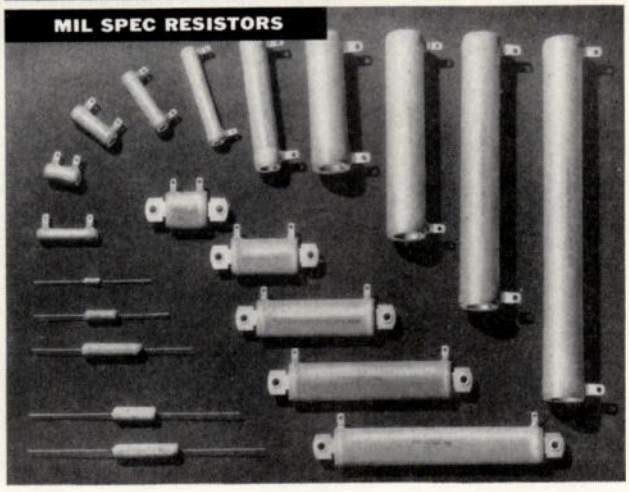
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25 W, 1 min to 5,000 max ohms
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Sensitive—2 amp, 125v, a.c. max
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53. Resistors.

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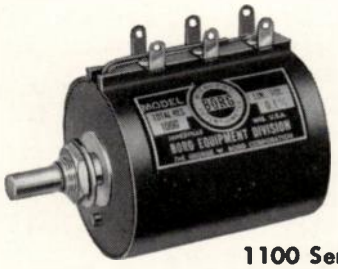
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Why Gamble?



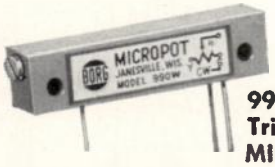
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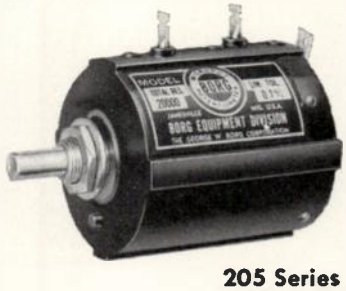
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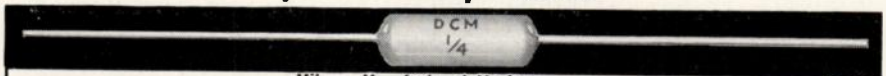
Electra deposited carbon resistors

with standard coating



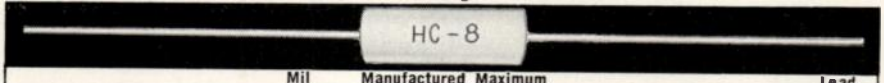
Electra Part No.	Mil Style	Wattage	Mil Resistance Range	Manufactured Resistance Range	Maximum Rated Voltage	Length A ±1/32	Dia. B ±1/32	Leads Dia.	Lead Length C ±1/8
DC1/8		1/8		10 ohms 350 K	250	5/16	3/32	#22	1-1/2
DC1/8X		1/8		100 ohms 1 meg	250	5/16	3/32	#22 capless	1-1/2
DC1/4A	RN10X	1/4	10 ohms 750 K	10 ohms 1 meg	300	15/32	3/32	#22	1-1/2
DC1/4X		1/4		100 ohms 2 meg	300	7/16	1/8	#22 capless	1-1/2
DC1/2C		1/2		10 ohms 2 meg	350	1/2	11/64	#20	1-1/2
DC1/2A	RN20X	1/2	10 ohms 2.0 meg	10 ohms 2.5 meg	350	5/8	11/64	#20	1-1/2
DC1/2B	RN70B	1/2	100 ohms 2.5 meg	10 ohms 5 meg	350	23/32	7/32	#20	1-1/2
DC1/2		1/2		10 ohms 5 meg	350	13/16	11/64	#20	1-1/2
DC1	RN25X	1	10 ohms 4.99 meg	10 ohms 10 meg	500	*15/16	19/64	#20	1-1/2
DC2	RN30X	2	30 ohms 10 meg	15 ohms 50 meg	750	*2-1/16	19/64	#20	1-1/2
*Tol. ± 1/16									

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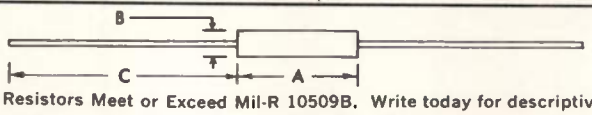


Electra Part No.	Mil Style	Wattage	Mil Resistance Range	Manufactured Resistance Range	Maximum Rated Voltage	Length A ± .010	Dia. B ± .010	Leads Dia.	Lead Length C ± 1/8
DCM⅛	RN60B	1/8	100 ohms 1 meg	10 ohms 1 meg	250	.410	1.42	#22	1-1/2
DCM¼	RN65B	1/4	10 ohms 2 meg	10 ohms 2 meg	300	.600	.225	#22	1-1/2
DCM½	RN70B	1/2	10 ohms 2.5 meg	10 ohms 5 meg	350	.755	.270	#20	1-1/2
DCM1	RN75B	1	10 ohms 5 meg	10 ohms 10 meg	500	1.115	.400	#20	1-1/2
DCM2	RN80B	2	30 ohms 10 meg	15 ohms 50 meg	750	*2.240	.400	#20	1-1/2
*Tol. ± .030									

hermetically sealed



Electra Part No.	Mil Style	Wattage	Mil Resistance Range	Manufactured Resistance Range	Maximum Rated Voltage	Length A ± .010	Dia. B ± .010	Leads Dia.	Lead Length C ± 1/8
HC40		1/8		10 ohms 350 K	150	*.281	.160	#22	1-1/2
HC10	RN60B	1/8	100 ohms 499 K	10 ohms 1 meg	250	.427	.155	#22	1-1/2
HC8	RN65B	1/4	10 ohms 2 meg	10 ohms 2.5 meg	300	.646	.240	#20	1-1/2
HC12	RN70B	1/2	10 ohms 3.5 meg	10 ohms 5 meg	350	.833	.250	#20	1-1/2
HC6	RN75B	1	10 ohms 5 meg	10 ohms 10 meg	500	1.115	.400	#20	1-1/2
HC7	RN80B	2	30 ohms 10 meg	15 ohms 50 meg	750	*2.240	.400	#20	1-1/2
*Tol. ± 1/32									



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53. Resistors.

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Aerovox Corp., Mass., 15, 20, 22, 25, 30, 50, 55, 65
Allen Bradley Co., Wis., 5, 10, 20, 25, 35
Allies Products Corp., Fla., 15
American Lava Corp., Subs. of Minnesota Mining & Mfg. Co., Cherokee & Mfrs. Rd., Chattanooga 5, Tenn., 15, Carbon Film
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Amperite Co., Inc., 561 Broaway, New York 12, N.Y., Ballast
See ad on page 397
Tel: CAnal 6-1446
Analogue Control, Inc., N.Y., 22, 35, 50
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Axel Bros., Inc., N.Y., 65
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Tel: PLeasant 4-6616
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from ½" to 5"

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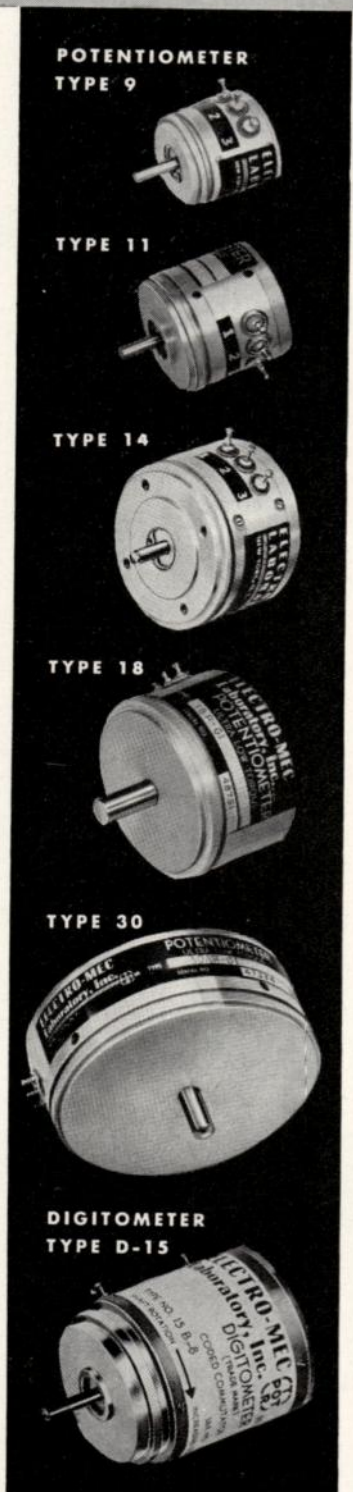
Gulton Industries, Inc., N.J., 40

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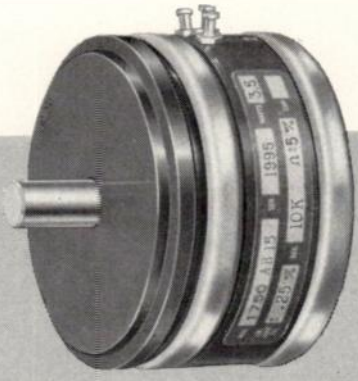
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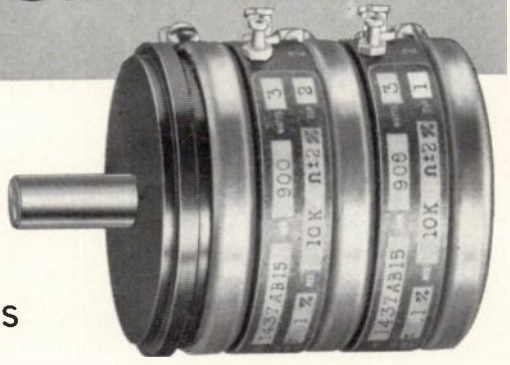
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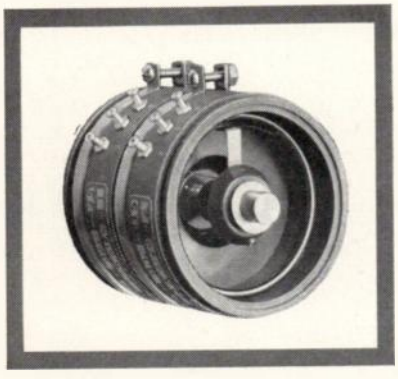
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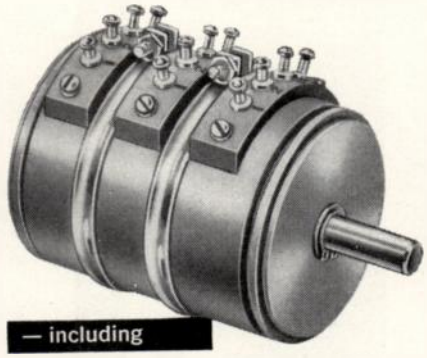
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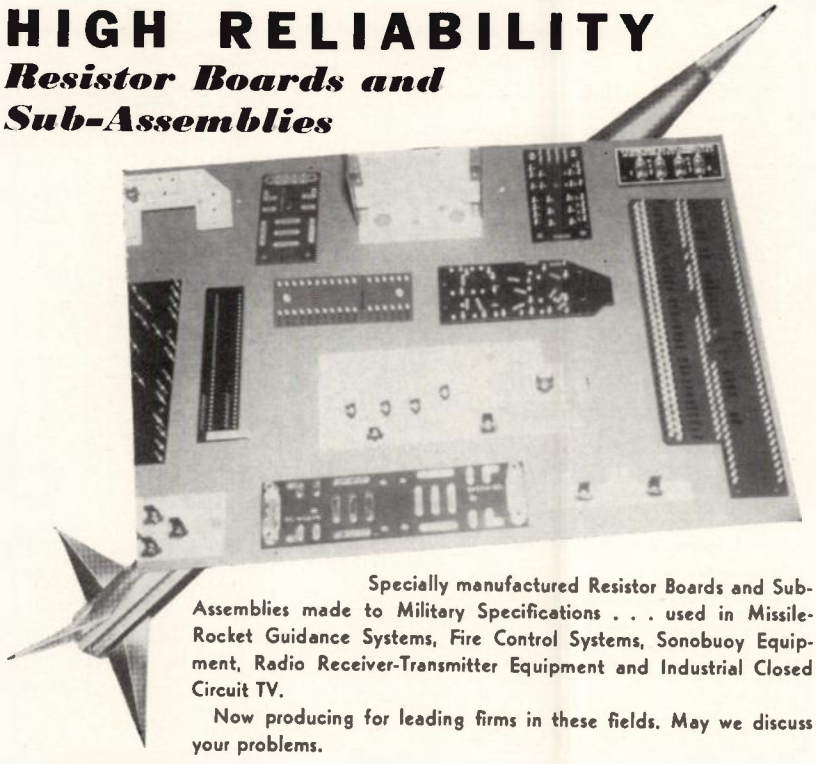
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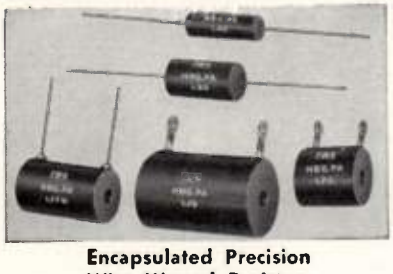
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TYPE G resistors (not shown), in 6 sizes up to 18½" long. Power ratings 10 to 100 watts.



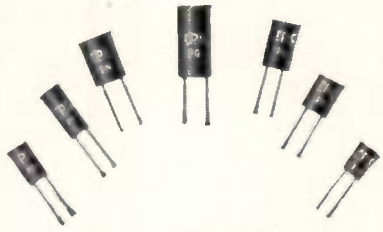
Encapsulated Precision Wire Wound Resistors

RPC Type L Encapsulated Resistors will withstand temperature and humidity cycling, salt water immersion and extremes of altitude, humidity, corrosion and shock without electrical or mechanical deterioration. Type L resistors are available in many sizes and styles ranging from sub-miniature to standard with lug terminals, axial or radial wire leads. Available for operation at 105° C. or 125° C. ambient temperatures. These resistors will meet all applicable requirements of MIL-R-93A, Amdt. 4 and MIL-R-9444. Type L can be furnished with all resistance alloys and resistance tolerances from 1% to .02%.



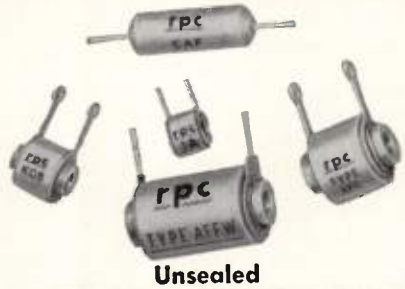
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Rattray & Co., Inc., George, 116-08 Myrtle Ave., Richmond Hill 18, N.Y., 65, linear & non linear potentiometers, single & multi turn potentiometers
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Tel: VIrginia 6-8250

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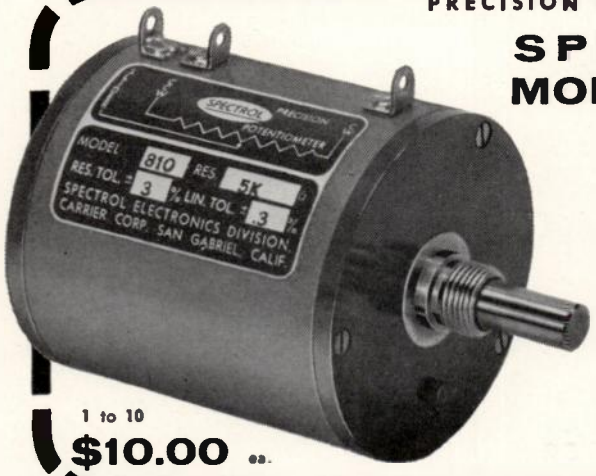
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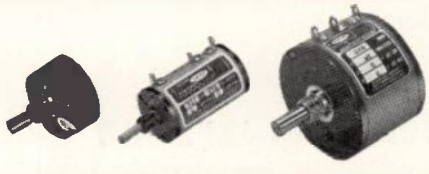
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53. Resistors.

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See ad on pages 36-40
Tel: LUdlow 2-9561

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Telewave Laboratories, Inc., N.Y., Microwave, Miniature

Texas Instruments Incorporated, 6000 Lemmon Ave., P.O. Box 312, Dallas 9, Tex., 5, 15, 25, 30, sensistor silicon
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Tel: FLeetwood 7-4311

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Toroid Coil Winding, Inc., 171 Coit St., Irvington 11, N.J., 20
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Tel: ESsex 4-9800

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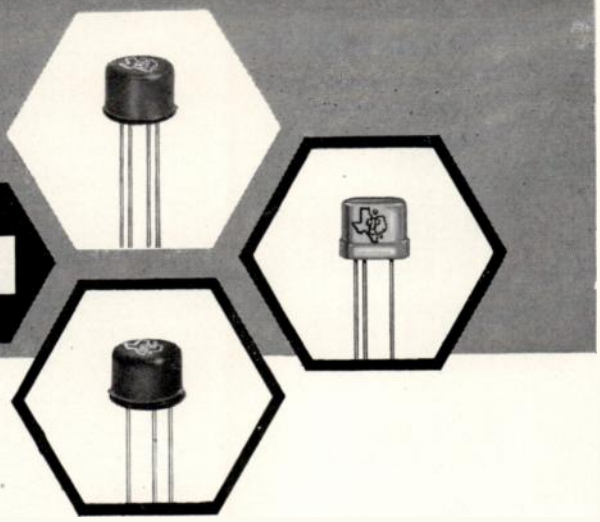
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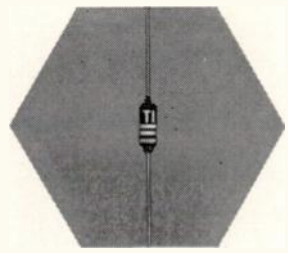
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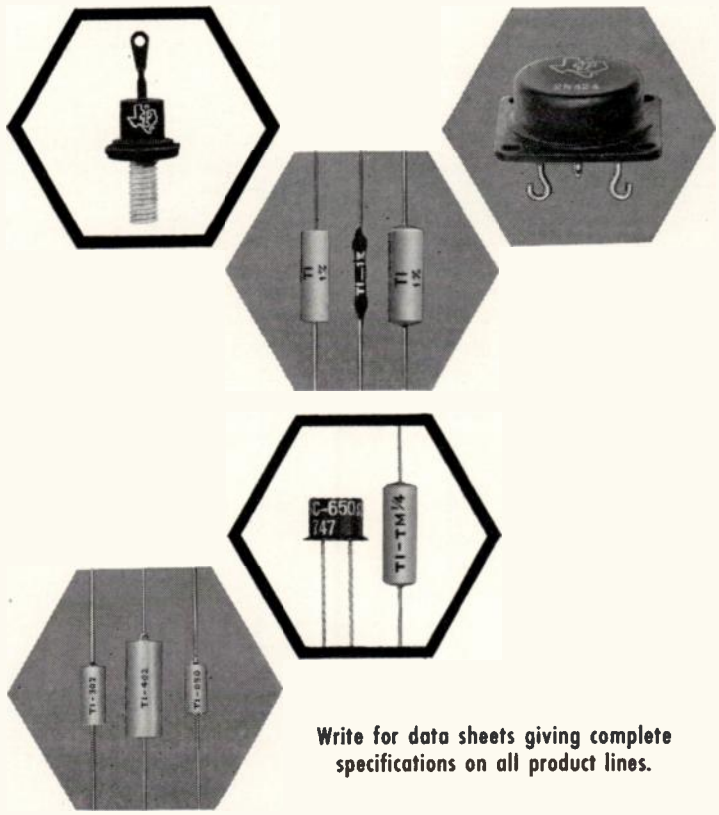
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53. Resistors.

Ward Leonard Electric Co., 83 South St., Mount Vernon, N.Y., 35, 55, 60
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Tel: MOunt Vernon 4-1000

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54. Semi-Conductors.

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6. Photoconductors
7. Silicon diodes
10. Transistors, junction
15. Transistors, point contact
20. Transistors, alloy junction
25. Transistors, diffused base
30. Transistors, surface barrier

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Tel: WElls 1-6200

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Tel: CApital 2-6220

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54. Semi-Conductors.

Clevite Transistor Products, 241 Crescent St., Waltham 54, Mass., 5, 7, 10, 20
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Tel: TWinbrook 4-9330

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Delco Radio Div., G.M.C., Ind., 20 Power
Dupont De Nemours & Co., Inc., E. I., Pigments Dept., Del., 7, Semi-Conductor Grade

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Tel: LOcust 2-6000

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See ad on page 184
Tel: UNiversity 9-9850

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Tel: ORchard 2-5061

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Tel: OREgon 8-6281

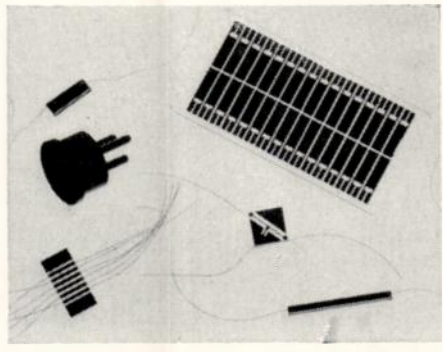
International Telephone & Telegraph Corp., ITT Components Div., P.O. Box 412, Clifton, N.J., 7
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Tel: NUtley 2-3600

Johnson & Hoffman Mfg. Corp., 31 E. 2nd St., Mineola, L.I., N.Y., transistor tabs, cans, bases
See ad on page 588
Tel: PIoneer 2-3333

Kemtron Electron Prods., Inc., Mass., 5, 7
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Miller Co., Sanford, N.Y., 7
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Northern Electric Co., Ltd., Canada, 10, 15
Northern Electronic & Vacuum Industries, Canada, Semiconductor Calculator
Nucleonic Prods. Co., Inc., Calif., 5, Photo Conductors
Pacific Semiconductors, Inc., Calif., 5, 7

Philco Corp., Lansdale Tube Co. Div., Dept. IR-958, Church Rd., Lansdale, Pa., 5, 10, 15, 20, 25, 30
See ad on page 208
Tel: ULysses 5-4681

Philmore Mfg. Co., Inc., N.Y., 5
Radio Corp. of America, Defense Elec. Prod., N.J., 5, 7, 10, 15, 20, 30



KODAK EKTRON DETECTORS

Semi-conductive resistors with photosensitive area of any size or shape

Kodak Ektron Detectors consist simply of depositions on glass, fitted with leads. They are available either unmounted, mounted in pronged housings, or embedded in infrared-collecting lenses.

Order of response to tungsten illumination approximates emissive-type phototubes of same sensitive area. Sensitivity peaks at about 2.2 microns in the infrared. Various kinds have time constants from 10 to 1000 microseconds, some with appreciable sensitivity to 5 microns when cooled.

Kodak Ektron Detectors provide a unique combination of wide spectral response, high signal-to-noise ratio for the infrared, overall ruggedness, availability in very small size and in complex, precise arrays and mosaics.

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Kodak TRADE MARK

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TYPICAL OPERATION AND MAXIMUM RATINGS OF BENDIX GERMANIUM PNP POWER TRANSISTORS

TYPE NUMBER	PRIMARY APPLICATIONS				MAXIMUM RATINGS				TYPICAL OPERATION			
	Audio	Push-Pull	Switch	Power Supply	Collector Voltage (a)	Collector Current	Thermal Resistance (b)	Junction Temp.	Current Gain (c)	Ic	Circuit Gain	Power Output
					Vdc	Adc	°C/W	°C	—	Adc	db	Watts
2N234A	X				30	3	2.2	90	25*	0.5	30	2
2N235A	X				40	3	2.2	90	40*	0.5	33	2
2N235B	X				40	3	2.2	90	60*	0.5	36	2
2N236A	X				40	3	2.0	95	40*	0.75	33	4
2N236B	X			X	40	3	2.0	95	60*	0.75	36	4
2N285A	X			X	40	3	2.2	95	150*	0.5	39	2
2N399	X	X			40	3	2.2	90	40*	0.75	33	8 (e)
2N400	X			X	40	3	2.2	95	50*	1.0	36	6
2N401	X	X			40	3	2.2	90	40*	0.5	30	5 (e)
2N418			X	X	80	5	2.2	100	50	4.0	—	100 (d)
2N419				X	45	3	2.2	95	60*	0.5	—	5
2N420			X	X	40	5	2.2	100	50	4.0	—	—
2N420A			X	X	70	5	2.2	100	50	4.0	—	—
2N637	X		X	X	40	5	2.0	100	45	3.0	—	35 (d)
2N637A	X		X	X	70	5	2.0	100	45	3.0	—	70 (d)
2N637B			X	X	80	5	2.0	100	45	3.0	—	70 (d)
2N638	X		X	X	40	5	2.0	100	30	3.0	—	35 (d)
2N638A	X		X	X	70	5	2.0	100	30	3.0	—	70 (d)
2N638B			X	X	80	5	2.0	100	30	3.0	—	70 (d)
2N639	X		X	X	40	5	2.0	100	23	3.0	—	35 (d)
2N639A	X		X	X	70	5	2.0	100	23	3.0	—	70 (d)
2N639B			X	X	80	5	2.0	100	23	3.0	—	70 (d)
2N1031	X		X	X	30	15	1.5	100	40	10	—	75 (d)
2N1031A	X		X	X	40	15	1.5	100	40	10	—	125 (d)
2N1031B	X		X	X	70	15	1.5	100	40	10	—	250 (d)
2N1031C			X	X	80	15	1.5	100	40	10	—	250 (d)
2N1032	X		X	X	30	15	1.5	100	75	10	—	75 (d)
2N1032A	X		X	X	40	15	1.5	100	75	10	—	125 (d)
2N1032B	X		X	X	70	15	1.5	100	75	10	—	250 (d)
2N1032C			X	X	80	15	1.5	100	75	10	—	250 (d)

(a) Vce rating. Equivalent Vcb's are 20-50% higher. (b) Collector dissipation is the difference between the maximum junction temperature and the mounting base temperature divided by the thermal resistance. (c) hfe, AC current gain as noted with (*). All others represent hFE, DC current gain. (d) Square wave output power. (e) Push-pull output. (f) 2N1031, 2N1032 series have lugs. 2N677, 2N678 series have straight pins. 2N1029, 2N1030 series have flying leads.

There is a Bendix power transistor to help you get the right power and gain on *your* job. When you buy Bendix you enjoy extra quality at no extra cost: low leakage, life stability, high breakdown voltage, low thermal resistance, and controlled temperature variation. Our volume production enables immediate delivery on most models. For details or help on circuitry problems, write: SEMICONDUCTOR PRODUCTS, BENDIX AVIATION CORPORATION, LONG BRANCH, NEW JERSEY.

West Coast Sales and Service: 117 E. Providencia Ave., Burbank, Calif.
Canadian Affiliate: Computing Devices of Canada, Ltd., P.O. Box 508, Ottawa 4, Ont.
Export Sales & Service: Bendix International, 205 E. 42nd St., New York, 17, N.Y.

Red Bank Division — Bendix AVIATION CORPORATION

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Directory II. Components

54. Semi-Conductors.

Radio Corp. of America, Electron Tube Div., Section I-20-Q, 415 S. Fifth St., Harrison, N.J., 5, 10, 20, 25
See ad on pages 113-116
Tel: HUmboldt 5-3900

Radio Corp. of America, Semiconductor & Materials Div., Section I-20-NN, Somerville, N.J., 5, 6, 7, 10, 20, drift transistors
See ad on page 114
Tel: RAndolph 5-4500

Radio Development & Research Corp., N.J., 7, 10

Radio Receptor Co., Inc., N.Y., 5, 7

Raytheon Mfg. Co., Receiving Tube & Semiconductor Operations, Mass., 5, 7, 10, 20, 25

Rogers Electronic Tubes & Components, Canada, 5, 10, 15, 20, 25, 30

Semi-Elements, Inc., Pa., 5, 7, 10, 20

Semimetals, Inc., N.Y., 5, 7, Mono-Crystal

Shockley Transistor Corp., Subsid. of Beckman Instruments, Inc., Stanford Industrial Pk., Palo Alto 2, Calif., 7, transistor diode
See ad on pages 31-34
Tel: DAvenport 6-1970

Sickles Div., F. W., Gen. Instrument Corp., Mass., 7

Single Crystal Corp. of America, Pa., 5, 7, 10, 15, 20, 25, 30

Solid State Products, Inc., Mass., 20, 25

Sonex, Inc., Pa., Transistor Curve Tracer

Sperry Rand Corp., Sperry Semiconductor Div., Conn., 7, 10, 20, 25

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Sylvania Electric Prods., Inc., Mass., 5, 7, 10, 20, 25

Sylvania Electric Products, Inc., 1740 Broadway, New York 19, N.Y., 5, 7
See ad on pages 25-30
Tel: JUdson 6-2424

Symphony Electronics Corp., Calif., 5, 10, 15

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Technical Apparatus Builders, 109 W. Liberty St., New York 6E, N.Y., 5, 7, 10
See ad on page 384
Tel: REctor 2-6248

Texas Instruments Incorporated, 6000 Lemmon Ave., P.O. Box 312, Dallas 9, Tex., 6, 7, 10, 20, 25, rectifiers, silicon
See ad on page 418
Tel: FLeetwood 7-4311

Thermosen, Inc., Conn., 7

Transitron Electronic Corp., 168 Albion St., Wakefield, Mass., 5, 7, 10
See ad on pages 70-71
Tel: CRystal 9-4500

Tung-Sol Electric Inc., 95 Eighth Ave., Newark 4, N.J., 5, 10
See ad on pages 82-83
Tel: HUmboldt 2-4200

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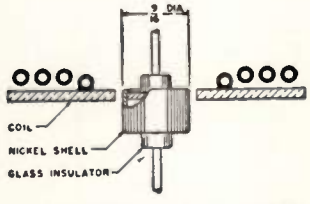


The Lepel Line of induction heating equipment represents the most advanced thought in the field of electronics as well as the most practical and efficient source of heat yet developed for industrial heating.

If you are interested in induction heating you are invited to send samples of the work with specifications. Our engineers will process and return the completed job with full data and recommendations without any cost or obligations.

TYPICAL INDUCTION HEATING APPLICATIONS IN THE MANUFACTURE OF TRANSISTORS

SOLDERING TRANSISTOR ASSEMBLIES BY INDUCTION HEATING



Concentrator-type coil creates high intensity, restricted heating at joint of nickel shell and tinned glass, thus causing solder to flow for permanent seal.

SINGLE CRYSTAL PULLER



General arrangement for pulling single crystals. Induction heating coil is shown surrounding quartz tube containing crucible with molten germanium in suitable atmosphere.

MULTIPLE ZONE REFINING



Induction heating apparatus used in zone refining. The six coils shown provide simultaneous molten zones in the ingot as it passes through the tube containing the protective atmosphere.

Electronic Tube Generators from 1 kw to 100 kw.
Spark Gap Converters from 2 kw to 30 kw.

WRITE FOR THE NEW LEPEL CATALOG . . . 36 illustrated pages packed with valuable information.

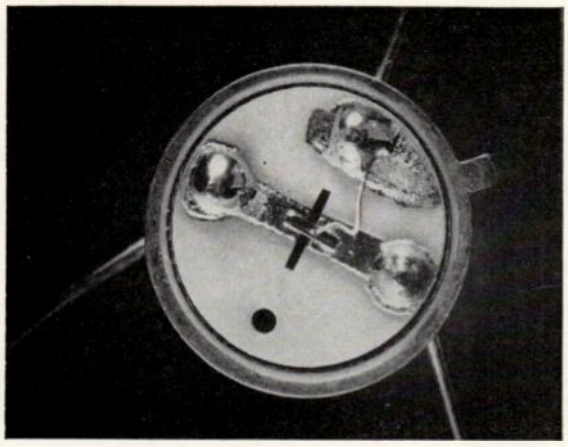


All Lepel equipment is certified to comply with the requirements of the Federal Communications Commission.

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NEW FROM GENERAL ELECTRIC



Fixed-Bed Mounting guards against major causes of transistor failure

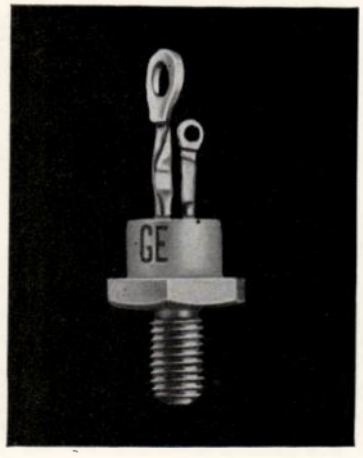
Photomicrograph of transistor showing Fixed-Bed construction. Critical elements resist impact like a solid block—no suspended parts to shake loose.

IN G.E.'s new Fixed-Bed Mounting, critical elements of the transistor are welded flat on a solid disk of ceramic. Any impact must be great enough to damage the disk itself before failure can occur.

With their many suspended parts, standard upright headers are subject to inertial stress at a number of points. General Electric's Fixed-Bed Mounting eliminates all but one of those parts. There is no thermal stress. Heat conduction is greater, making possible increased power dissipation. Fixed-Bed Mounted units have exceeded all standard shock, centrifuge and temperature-cycling tests. Watch for G-E transistors made with this advanced technique.

New Controlled Rectifier

does the job of a thyratron, relay, switch, circuit breaker, magnetic amplifier . . . in fact, its uses are limited only by your imagination!



Neither a transistor nor a rectifier, this revolutionary device combines features of both. In the reverse direction it acts as a standard rectifier. But it also blocks forward current until either a critical breakover voltage is exceeded or a signal applied to the third lead. Then it switches to a conducting state and performs like a forward-based silicon rectifier.

G.E.'s controlled rectifier offers switching speeds in micro-seconds and complete control of current turn-on without complicated circuitry. Similar to the gas thyratron, yet provides faster firing and recovery, low forward voltage drop, and has no filament to warm up and consume power. It operates at temperatures up to 125°C, voltages up to 300v and currents up to 16 amperes. General Electric Company, Semiconductor Products Dept, Electronics Park, Syracuse, N. Y.

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Germanium Low Current
Silicon Low Current
Silicon Medium Current
Silicon High Current

RECTIFIER STACKS

Germanium Low Current
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Silicon Medium Current
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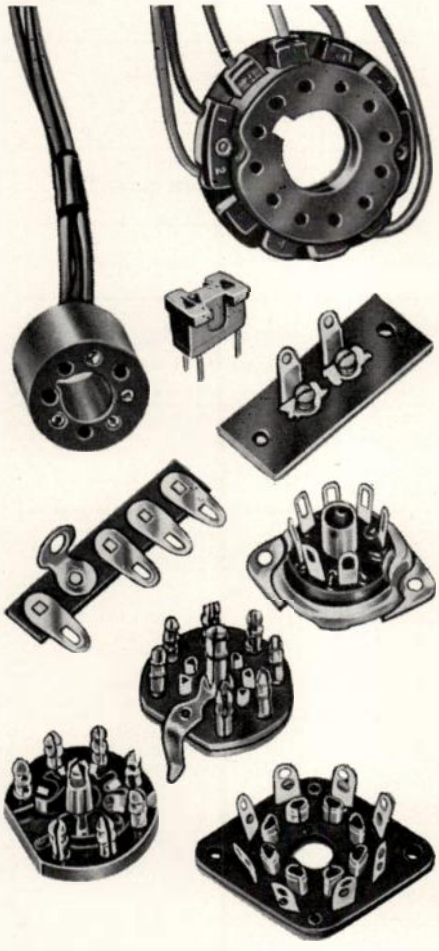
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manufacturing company, inc.
109 Prince Street, New York 12, N. Y.

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55. Sockets.

5. Capacitor, plug-in sockets
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15. Diode
17. Pilot light
18. Printed circuit
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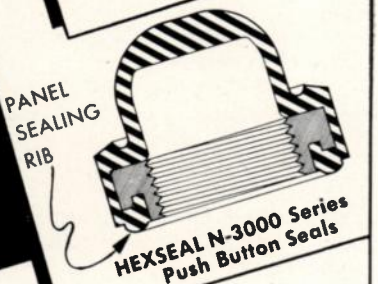
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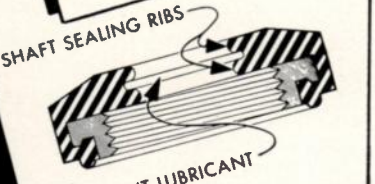
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HEXSEAL N-3000 Series Push Button Seals



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15. Contacts
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17. Crossbar
18. Electronic
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20. Foot
25. Key
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Grayhill — Switches • Test Clips • Binding Posts • Test Jacks Molded Washers and Sockets

Grayhill Miniature Rotary Tap Switches



SERIES 12—Miniature Tap Switch, suitable for military equipment which will be subjected to environmental conditions such as salt spray, humidity, etc. Soldered contacts and lugs insure proper contact and minimum resistance.

Available 1 to 10 decks—2 to 10 contacts per deck.



Shorting (make before break) or Non-shorting (break before make). Switch rotates 360° with 10 positions—stops provided with 9 or less positions.

Threaded bushing, .250" long—3/8—32 thread. Diameter of switch including terminals 1.016". Rated to break—1 amp., 115 V., AC., resistive. To carry—5 amps., 115 V., AC.



SERIES 24—Positive Detent Action and better feel for precision requirements.

Available 1 to 10 decks—2 to 10 contacts per deck.

Shorting (make before break) or Non-shorting (break before make). 360° rotation with 10 positions—stops provided for less than 10 positions.



Bushings, .250" long—3/8—32 thread. Diameter of switch including terminals 1.01".

Rated to break—1 amp., 115 V., AC., resistive.

To carry—5 amps., 115 V., AC.

Spring Return Rotary Switch



Similar to Series 24 except with spring return to center position. Provides momentary contact on either side of center position only. Available in 1 to 3 decks, either shorting or non-shorting type. Also with up to 4 detent positions plus spring return position to right or left.

Grayhill Binding Posts

SERIES 29



29-3
1/2" Mounting Hole. Available in Red, Black and 6 other colors.



29-1
3/8" Mounting Hole. Available in Red or Black.



29B11
Phenolic Base for duo mounting of 29-1 Binding Posts on 3/4" Centers. Red or Black.



29-33
Spring Loaded Binding Post. 1/2" Mounting Hole. Available in Red or Black.



29-43
Spring Loaded Binding Plug.

29-41
Screw Type Binding Plug.



29-42
Twin Binding Plug. Black Phenolic Base. 3/4" Centers.
29-44 With Spring Loaded Heads.

* Metal parts ..... Nickel Plated Brass
* Molded parts ..... Thermosetting Plastic
* Washers ..... Non-turn "D" Style
* Cross-hole ..... Flush
* Integral solder lug and 2 Hex Nuts

SERIES 22-11 TRANSISTOR SOCKET



Designed for JETEC 30 packaging. Leads fit on 100 MIL grid for printed circuit. Socket fits thru 3/8" hole. For rivet or #2 screw fastening. Wrap around, silver plated beryllium copper contacts with gold flash. Bottom has molded-in terminal numbers—Key rib for alignment with transistor tab on top. Molded of Mica-Filled phenolic per MIL-M-14.

Grayhill Push Button Switches

SERIES 2000 SNAP ACTION SWITCH



Momentary contact, snap action, single pole—single throw. Overall length including solder type terminals 1.922". Mounting bushing 15/32-32 thread. Rated 10 amps. 115 volts AC resistive—Approx. life, 50,000 operations.

No. 2201—Normally Open—Red Button
No. 2202—Normally Closed—Black Button

SERIES 4000 SILENT ACTION SWITCH



Momentary contact, single pole—single throw. Overall length including solder type terminals 1.531". Mounting bushing 15/32-32 thread. Rated 1/2 amp. 115 volts AC resistive. Approx. life, 800,000 operations.

No. 4001—Normally Open—Red Button
No. 4002—Normally Closed—Black Button

SERIES 35-1 DOUBLE POLE SWITCH



Momentary contact, silent action, double pole—single throw. Overall length including solder type terminals 1.266". Mounting bushing 15/32-32 thread. Rated 1/2 amp. 115 volts AC resistive. Approx. life 100,000 operations.

No. 35-1—Normally Open—Red Button

SERIES 34—For Taper Pin Solderless Wiring



Momentary contact, silent action, single pole—single throw switch. Three female receptacles with built-in short between two of them for "in-and-out" wiring with A-MP No. 53 Taper Pins. Mounting bushing 3/8-32 thread. Overall length .969". Rated 1/2 amp. 115 volts AC resistive. Life over 100,000 operations.

No. 34-1—Normally Open—Red Button

SERIES 23-1 MINIATURE SWITCH



Momentary contact, silent action, single pole—single throw. Mounting bushing 5/16-32 thread. Rated 1/4 amp. 115 volts AC resistive. Approx. life 500,000 operations. Diameter .500". Overall length including solder type terminals 1.047".

No. 23-1—Normally Open—Red Button

SERIES 30-1 SUB-MINIATURE SWITCH



Momentary contact, silent action, single pole—single throw. Mounting bushing 1/4-32 thread. Rated 1/10 amp. 115 volts AC resistive. Approx. life 500,000 operations. Diameter .375". Overall length including solder type terminals .984".

No. 30-1—Normally Open—Red Button
No. 30-2—Normally Closed—Black Button

SERIES 39-1 ULTRA-MINIATURE SWITCH



Momentary contact, silent action, single pole-single throw. Rated 1/10 amp. 115 volts AC resistive. Approx. life 1,000,000 operations. Diameter .250". Overall length including solder type terminals .615".

No. 39-1—Normally Open—Red Button

Grayhill Printed Circuit Test Jacks

SERIES 31

For use on printed circuits as a test point to feed AF, RF and Pulse signals, check and feed DC voltages, monitor signals during test, alignment, etc. For use with standard .081"-.0825" phone tip plugs. Rivets to board like an eyelet.

Dims.—Extends .250" above mounting board, rivet dia.—.114".

No. 31-1—For 1/16" board
No. 31-2—For 3/32" board
No. 31-3—For 1/8" board



Plastic Sleeves

for Series 31 Test Jacks

Snap-on, plastic insulators permanently lock in place over Grayhill Test Jacks. Dims. Dia..245" Height—.290"
No. 31B—Plastic Sleeves, available in 8 colors for coding.



Grayhill Test Clips



SERIES 16

Completely insulated (including hinge pin). Alligator type. Contact resistance approx. .0015 ohms. .008" silver overlay on contact surfaces. Terminals—silver plated.
Body of clip is molded phenolic per MIL-M-14.
No. 16-B (Black)
No. 16-R (Red)



No. 2-0 Threaded Stud



No. 2-1 Banana Plug



No. 2-4 Threaded Stud with Insulating Washers

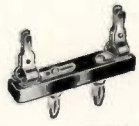


No. 2-6 Pin Plug

SERIES 2

The basic spring clip is available in 4 styles of mounting as illustrated. Mounted on panel of test equipment, they permit fast lead connections without manual opening and closing of jaws. Also useful in bread board work and laying out harnesses.

Grayhill Plug-In Adapter



Designed for testing resistors, capacitors, and similar pigtail type components on standard test equipment. Banana Plug spacing adjustable 3/4" to 1 1/4" centers.
No. 2-7 Plug-in Adapter.

Grayhill Stand-Off Insulators



Mica-filled phenolic bodies for low loss at high frequencies, high dielectric strength, low moisture absorption and high fungus resistance. Silver plated brass solder terminals. Extends above mounting panel—.938". Diameter .312"
No. 18-1—Female, No. 4-40 Thread
No. 18-2—Male, No. 4-40 Thread

Grayhill Coil Forms



Molded of mica-filled phenolic for low loss at high frequencies, low moisture absorption, high dielectric strength and resistance to fungus growth. Tinned Copper wire leads. Patented anchor posts.
Dimensions—length—.500" to 1.000"
Dia.—.125" to .250"
Lead wire diameter—.025" to .040"

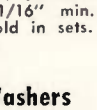
Grayhill Mating Insulating Washers



To insulate jacks with .375" dia. bushings from mounting panel. Back of panel washer has indexing hole fitting non-turn tab of the jack. Shoulder dimensioned for 1/16" min. panel thickness. Sold in sets.
No. 21B78-1 Natural Mica-filled Phenolic
No. 21B78-2 Black Electrical Grade

Grayhill Molded Insulating Washers

Available in sizes for No. 4 to .375" screw in natural mica-filled phenolic or black electrical grade insulating material.



Grayhill INC.

505 Hillgrove Avenue, LaGrange, Illinois
Phone Fleetwood 4-1040

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Eitel McCullough, Inc., 798 San Mateo Ave., San Bruno, Calif., vacuum
See ad on pages 68-69
Tel: JUno 8-1212

Eldema Corp., 1805 Belcroft Ave., El Monte, Calif., 16, 35, 65, 80
See ad on page 372
Tel: GIlbert 4-7077 & CUmberland 3-3498

Electric Auto-Lite Co., Ohio, 60
Electro Miniatures Corp., N.J., 15, 16, 50
Electro-Snap Switch Co., Ill., 16, 18, 27, 35, 45, 50, 80
Electro Switch Corp., R-F Electronics Div., Mass., 35, 40, 50, 70
Electro Tec Corp., N.J., 50
Electronic Instrument Co., Inc., N.Y., 18
Elliott Bros., Ltd., England, 50

Engelhard Industries, Inc., 113 Astor St., Newark 2, N.J., 15, 55, 75
See ad on page 166
Tel: BIgelow 3-0030

Engineered Electronics Co., Calif., Oil Patted Stepping

Fansteel Metallurgical Corp., North Chicago, Ill., 15
See ad on pages 138-139
Tel: DExter 6-4900

Fasco Industries, Inc., N.Y., Low Voltage
Federal Anti-Capacity Switch Corp., N.Y., Anti Capacity
Federal Pacific Electric Co., N.J., 50
Ferrara Inc., Mich., 19

Frequency Standards, Inc., P.O. Box 504, Shafto Rd., Asbury Park, N.J., 10, 50
See ad on page 133
Tel: PRospect 4-0500

Furnas Electric Co. Ill., 15, 16, 20, 27, 35, 50, 65, 70, 80

G-C Electronics Mfg. Co., 400 S. Wyman St., Rockford, Ill., 55
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Tel: ROckford 1-6695

G-V Controls, Inc., N.J., 75
Garrett Corp., Calif., Actuator, Electro-Mechanical

Gee-Lar Mfg. Co., 418 S. Wyman St., Rockford, Ill., 10, 35, 40, 50, 55, 80
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Tel: ROckford 5-9548

General Cement Mfg. Co., 400 S. Wyman St., Rockford, Ill., 50, 55, 80
See ad on page 252
Tel: ROckford 8-9661

General Communication Co., Mass., 10
General Control Co., Mass., 20, 27, 77, 80
General Controls Co., Calif., 16, 27, 30, 45, 77

General Devices, Inc., P.O. Box 253, Princeton, N.J., 18, 50, commutating
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Tel: DAvis 9-2323

General Dynamics Corp., Stromberg-Carlson Div., N.Y., 25, Stepping
General Electric Co., Apparatus Sales Div., N.Y., 16, 27, 45, 50, 60, 65, 77, 80
General Electric Co., Circuit Protection Devices Dept., Conn., 40, Circuit Breaker
General Findings & Supply Co., Industrial Div., Mass., 15

General Hermetic Sealing Corp., 99 E. Hawthorne Ave., Valley Stream, L.I., N.Y., 80
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Tel: VAlley Stream 5-6363

Giannini & Co., Inc., G. M., 918 E. Green St., Pasadena, Calif., pressure switches
See ad on page 412
Tel: SYcamore 3-2101 & RYan 1-7152

Gibson Electric Co., Pa., 15
Globe Electrical Mfg. Co., Calif., 15, 17, 25, 40, 50, 60, 65, 77
Globe Industries, Inc., Ohio, Actuators
Gordos Corp., N.J., 30

Graphite Metallizing Corp., 1057 Nepperhan Ave., Yonkers, N.Y., 15, 50
See ad on page 323
Tel: YOnkers 8-8400

Grayhill, Inc., 505 Hillgrove Ave., La Grange, Ill., 35, 45, 50, 65, 70, 80
See ad on page 426
Tel: FLeetwood 4-1040

Grigsby-Allison Co., Inc., Ill., 5, 10, 16, 20, 25, 35, 40, 45, 50, 55, 65, 70, 80

Guardian Electric Mfg. Co., 1621-IRE W. Walnut St., Chicago 12, Ill., 15, 16, 18, 45, 60
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Tel: CHesapeake 3-1100

Halax Corp., Calif., Pressure
Hamlin, Inc., Ill., 30, 75

Hart Mfg. Co., 265 Bartholomew Ave., Hartford 1, Conn., 18, 35, 50, 80
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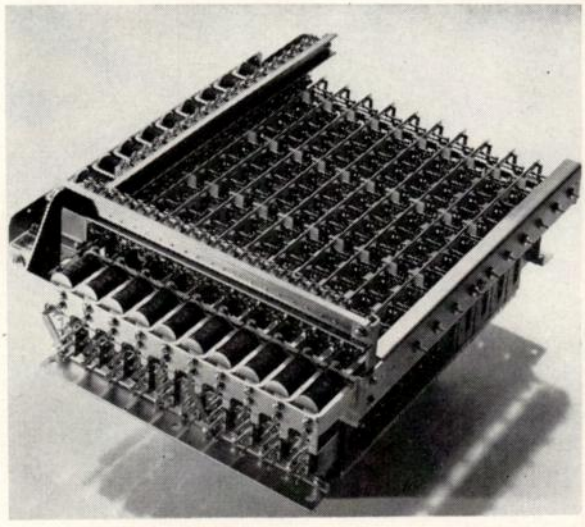
Hartsall Co., Div. of Allison Labs., Calif., Custom

Haydon Co., A. W., 240 N. Elm St., Waterbury 20, Conn., 80
See ad on page 360
Tel: PLaza 6-4481

Heath Co., Subsidiary of Daystrom, Inc., Benton Harbor 4, Mich., 18
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Tel: YUkon 3-3961

Heinemann Electric Co., N.J., Circuit Breakers-Hydraulic Magnetic
Hetherington, Inc., Pa., 20, 27, 35, 40, 45, 50, 55, 60, 65, 80
Hi-Lo TV Antenna Corp., Ill., 19, 77

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By means of a coordinate system of select and hold magnets operated sequentially, a mechanical operation is performed at a crosspoint. This mechanical operation in turn makes electrical connection at the crosspoint, establishing a circuit to one of 100 crosspoint terminations. Each circuit may have 1 to 6 wires (poles).

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CROSSTALK—down 55 db. at 4 mc. in a 10 x 10 switch with 75 ohm termination under the worst condition (parallel input paths connected to parallel output paths). The addition of shields in the link direction gives a 75 ohm characteristic impedence through the switch and further reduces the crosstalk.
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INSULATION RESISTANCE—Special materials give insulation resistance at 10,000 megohms—conductors to frame and between conductors.
CONDUCTOR RESISTANCE—through longest path in in a 10 x 10 switch is 0.3 ohms.
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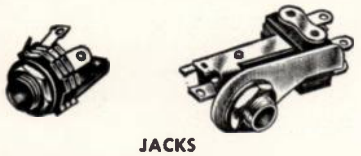
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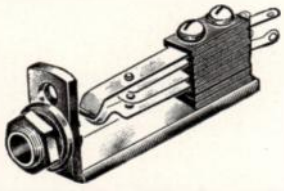
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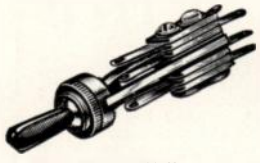
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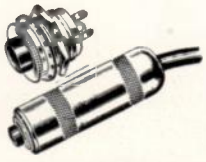


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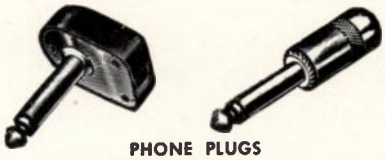
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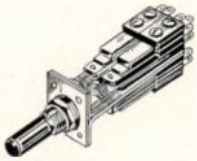
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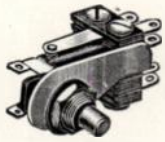
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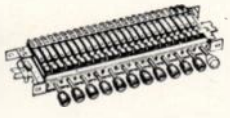
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Jerrold Electronics Corp., Dept. 23, Jerrold Bldg., 15th & Lehigh, Philadelphia 32, Pa., 10
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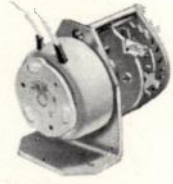
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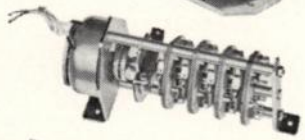
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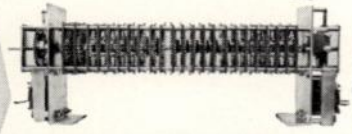
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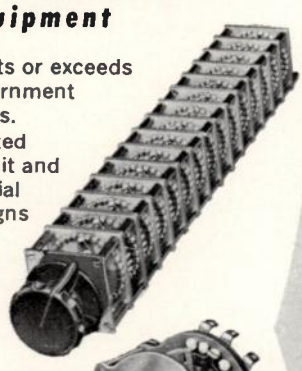




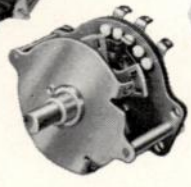
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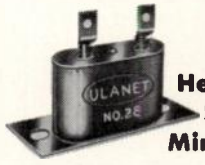
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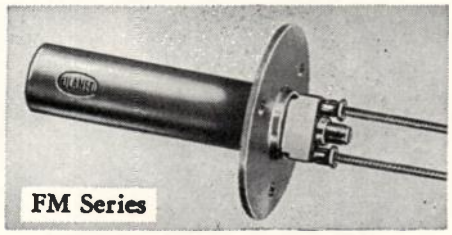
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Pass & Seymour, Inc., N.Y., 35, 55, 80
Penta Labs., Inc., Calif., Vacuum Switches
Pfannkuch & Co., O. E., Conn., 15
Philadelphia Scientific Glass Co., Pa., 15, 16, 30, 40, 80
Philmore Mfg. Co., Inc., N.Y., 5, 25, 50, 80
Photo-Crystals, Inc., Ill., 16, 30, 40
Photographic Prods., Inc., Calif., 50, 77

Pollak Corp., Joseph, Dept. B, 75-95 Freeport St., Boston 22, Mass., 35, 50, 70, 80
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Tel: AVenue 2-9550

Precision Line, Inc., Mass., 18
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Radio Components, Ltd., Canada, 5, 18, 35, 50, 55, 65, 70, 80
Ram Meter, Inc., Mich., 18
Raymond Mfg. Co. Div., Associated Spring Corp., Pa., 15
Recora Co., Inc., Ill., 20
Resitron Labs., Inc., Calif., 30, Vacuum
Revere Corp. of America, Conn., Dry Reed Glass-Switch
Rhodes, Inc., M. H., Conn., 77
Richards Electrocraft, Inc., Ill., 15, 35, 80
Rixon Electronics, Inc., Md., 60
Roanwell Corp., N.Y., 35, 45, 65, 80
Robertshaw-Fulton Controls Co., Acro Div., Ohio, 27, 35, 45, 80
Rodale Mfg. Co., Pa., 30, 70, 80
Roflan Co., The, Mass., 35, 50, 65, 80
Roller-Smith Instruments, Inc., N.J., 16, 50
Ronar, Inc., Ill., 30
Rotron Mfg. Co., Inc., N.Y., Air Velocity
Sage Laboratories, Inc., Mass., 10
Sampson Chemical & Pigment Corp., Ill., 30
Sangamo Electric Co., Ill., 75, 77
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Scaico Controls, Inc., N.J., 19, 30, 75

Scientific Electronic Labs., Inc., 866 Bergen St., Newark 8, N.J., 30
See ad on page 591
Tel: BIgelow 3-8675

Shallcross Mfg. Co., Selma, N.C., 50, 80
See ad on page 468
Tel: WOodlawn 5-2341

Singer Mfg. Co., Military Prods. Div., N.Y., 16, 45, 50, 77
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Slater Electric & Mfg. Co., N.Y., 35, 80
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Tel: ATlantic 7-9761

Sperry Gyroscope Co., Microwave Electronics Div., N.Y., 19
Sperti Faraday, Inc., Cooper Hewit Elec. Co. Div., N.J. 30
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Stackpole Carbon Co., Pa., 15, 55
Steel Co., Herman D., Pa., 15
Stepper Motors Corp., Calif., 60. Rotary

Stevens Mfg. Co., Inc., P.O. Box 1007 Annex, Mansfield, Ohio, 75
See ad on page 216
Tel: TUxedo 4-1311

Switchcraft, Inc., 5561 N. Elston Ave., Chicago 30, Ill., 15, 17, 25, 35, 50, 65, 80
See ad on page 428
Tel: SPring 4-1515

Tech Laboratories, Inc., Bergen & Edsall Blvds., Palisades Park, N.J., 5, 50, 60, 65, 70
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Tel: WIndsor 4-2221

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Telerad Mfg. Corp., N.Y., 60, Acceleration
Teletronic Laboratories, Inc., Calif., 18
Teletronics Laboratory, Inc., N.Y., 18
Thompson-Bremer Co., Ill., 15
Thompson Products, Inc., Electronics Div., Ohio, 10
Tork Time Controls, Inc., N.Y., 77
Torsion Balance Co., N.J., 80

Trad Electronics Corp., 1001 First Ave., Asbury Park, N.J., 10
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Tel: PRospect 6-7445

Transco Products, Inc., Calif., 10, 19

Transistor Electronics Corp., 3362 Republic Ave., Minneapolis 26, Minn., 35, 65, 80
See ad on page 372
Tel: WEst 9-6754

Tricon Mfg. Co., Ill., 15, 17

Trimm, Inc., 400 W. Lake St., Libertyville, Ill., 80
See ad on page 356
Tel: LIbertyville 2-3700

Ucinite Co., Div. United Carr Fastener Corp., Mass., 45, 50

Ulanet Co., George, 416 Market St., Newark 5, N.J., 75, 77
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Tel: MArket 2-4876

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Universal Circuit Controls Corp., Ill., 16, 25, 50, 65, 70, 80
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Tel: MUrdock 6-6600

Wind Turbine Co., 248 E. Market St., West Chester, Pa., 10
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Tel: OWen 6-3110

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TR tubes: See class 63

Tags & markers: See class 87

Tape & labels, adhesive: See class 87

Tape, magnetic recording: See class 49

Tape recorders: See class 16

Telephone relays: See class 52

Television picture tubes: See class 61

Television studio equipment: See class 18

Television tuners: See class 60

Terminals: See class 87

Test clips: See class 87

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57. Thermostats.

5. Bellows
10. Bimetal
15. Hermetically sealed

American Instrument Co.. Inc., Md., 10
Anthony & Co., J. L., R.I., 10
Belling & Lee, Ltd., England, 10
Bristol Co., Conn., 5, 10
Canadian GE Co., Ltd., Canada, 10, 15
Control Products, Inc., N.J., 10, 15
Cox & Co., Inc., N.Y., 10, 15

Curtiss-Wright Corp., 631 Central Ave., Carlstadt, N.J., 10
See ad on page 400
Tel: GEneva 8-4000

Dales Co., F., Ohio, 10
E T A Products Co. of America, Ill., 10
Edison Industries, T. A., N.J., 10, 15
Enflo Corp., N.J., 5

Engelhard Industries, Inc., 113 Astor St., Newark 2, N.J., 10
See ad on page 166
Tel: BIgelow 3-0030

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Flexonics Corp., Ill., 5
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General Electric Co., Apparatus Sales Div., N.Y., 10

General Hermetic Sealing Corp.. 99 E. Hawthorne Ave., Valley Stream, L.I., N.Y., 15
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Tel: VAlley Stream 5-6363

Gleason-Avery, Inc., N.Y., 10

Hart Mfg. Co., 265 Bartholomew Ave., Hartford 1, Conn., 5
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Mercoid Corp., Ill., 5, 10
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Panseal, Inc., N.J., 10
Partlow Corp., N.Y.. 15
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Ruge Associates, Inc., Arthur C., Mass., Thermo-Couples
Scaico Controls, Inc., N.J., 5, 10, 15
Singer Mfg. Co., Military Prods. Div., N.Y., 15

Stevens Mfg. Co., Inc., P.O. Box 1007 Annex, Mansfield, Ohio, 10, 15
See ad on page 216
Tel: TUxedo 4-1311

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Temperature Eng. Corp., N.J., 5, 10, 15
Topp Mfg. Co., Calif., 10

Ulanet Co., George, 416 Market St., Newark 5, N.J., 10, 15
See ad on page 430
Tel: MArket 2-4876

United Control Corp., Wash., 10, 15
Westinghouse Electric Corp., Pa., 10

Wilson Div., H. A., Engelhard Industries, Inc., U.S. Highway 22, Union, N.J., 10
See ad on page 166
Tel: MUrdock 6-6600



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Thyratrons: See class 62

Time delay generators: See class 77

Time delay relays: See class 52

Timing motors: See class 44

Toroidal cores: See class 32

Toroids: See class 29

Towers, antenna supporting: See class 3

58. Transducers.

5. Electro-mechanical **10. Photo electric** **15. Thermo electric**

Aero Research Instr. Co., Inc., Ill., Thermocouples
Aerojet General Corp., Calif., 5
Aetna Electronics Corp., N.Y., 5
American Measurement, Mass.; 5
American Standard Labs., N.J., 5
American Thermo Electric Co., Calif., 15
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Atlantic Research Corp., Va., 5
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B & F Instruments, Inc., Pa., 5
Beam Instrument Corp., N.Y., 15
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Beckman & Whitley, Inc., Calif., Heat Flow
Bendix Aviation Corp., Eclipse-Pioneer Div., Teterboro, N.J., 5
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Cardinal Instrument Corp., Calif., 5, 15
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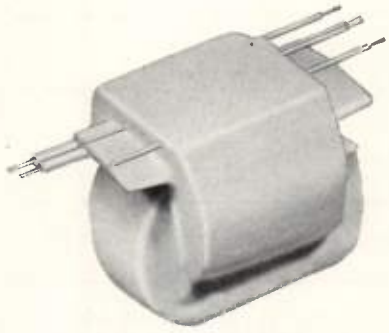
58. Transducers.

Crescent Engineering and Res. Co., Calif., 5
Dallons Labs., Inc., Calif., Piezo-Electric
Datran Electronics, Calif., 5
Daystrom, Inc., N.J., 5, 10, 15
Daystrom Pacific, Calif., 5
Daytronic Corp., Ohio, 5
Decker Corp., Pa., 5, 15
Detroit Controls Div., Calif., 5
Donner Scientific Co., Calif., 5
Dwyer Engineering Co., Inc., Airport Rd., P.O. Box 452, Nashua, N.H., 5
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Tel: TUxedo 3-3206
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Dynamics Research Assoc., Mo., 15
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Eldema Corp., 1805 Belcroft Ave., El Monte, Calif., 5
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Tel: GIlbert 4-7077 & CUmberland 3-3498
Electric Mach. Mfg. Co., Mullenbach Div., Calif., 5
Electro Impulse Lab., Inc., 208 River St., Red Bank, N.J., 15
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Electro-Prods. Labs., Inc., Ill., 5
Electro-Voice, Inc., Mich., 5
Electronic Control Corp., Mich., 10
Elliott Bros., Ltd., England, 5, 15
Endevco Corp., Calif., 5
Fairchild Controls Corp., N.Y., 5, Accelerometer
Farrand Controls Inc., N.Y., 5
Garrett Corp., Calif., 5, Air Sensing
General Electric Co., Rectifier Dept., Va., 5
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General Riveters, Inc., Electro-Mechanical Div., N.Y., 5
Genisco, Inc., Calif., 5, Accelerometer
Geotechnical Corp., Tex., 5, 10
Giannini & Co., Inc., G. M., N.J., 5
Giannini & Co., Inc., G. M., 918 E. Green St., Pasadena, Calif., 5, 15, pressure & force balance
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Greenleaf Mfg. Co. Div., Mo., 5
Gulton Industries, Inc., N.J., 5
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Harris Transducer Corp., Conn., 5
Harrison Labs., B. M., Mass., 5
Helco Products Corp., Calif., 5
Hesco Engineering, Calif., 15
Hewlett-Packard Co., 275 Page Mill Rd., Palo Alto, Calif., 10
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Tel: DAvenport 5-4451
Hoover Electronics Co., Md., 5, 10, 15
Humphrey, Inc., Calif., 5
Hupp Electronics Co., Pa., 5
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Kearfott Co., Inc., 1378 Main Ave., Clifton, N.J., 5, 10, 15
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Mack Electronics Div., Inc., N.J., 5
Maclaren & Co., Inc., F. B., N.Y., 10
Mandrel Industries, Inc., Mo., 5
Manning, Maxwell & Moore, Inc., Conn., 5
Medical Electronics Develop Co., N.Y., 5
Microsonics, Inc., Mass., 5
Miljan, Inc., Div. Paul Omohundro Co., Calif., 5
Minatron Corp., N.J., 5
Minco Products, Inc., Minn., 15
Minneapolis-Honeywell Reg. Co., Boston Div., Mass., 5
Minneapolis-Honeywell Reg. Co., Military Prods. Group, Minn., 5, 15, Accelerometer
Mullenbach Div., Electric Mach. Mfg. Co., Calif., 5
Nilsen Mfg. Co., Ill., 5
Northern Electronic & Vacuum Industries, Canada, 10, 15
Omega Instrument Co., Calif., 5, 15
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P S P Engineering Co., Calif., 5
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Philadelphia Scientific Glass Co., Pa., 15
Photocon Research Prods., Calif., 5
Pickering & Co., Inc., N.Y., 5
Pierce, George C., Va., 5
Pitometer Log Corp., N.Y., 5
Polyphase Instrument Co., Pa., 5, Strain Gage
Potter Aeronautical Corp., N.J., 5
Precision Line, Inc., Mass., 5
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Servo-Tek Products Co., N.J., 5
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Sperry Gyroscope Co. of Canada, Ltd., Canada, 5
Standard Electronics Research Corp., N.Y., 5, 10, 15
Statham Instruments, Inc., Dept. IR, 12401 W. Olympic Blvd., Los Angeles 64, Calif., 5
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Tel: GRanite 8-0361

These are examples of products we build to help the Electronic Industry



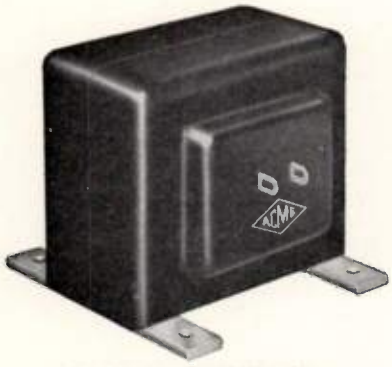
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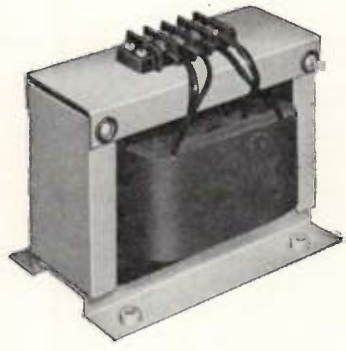
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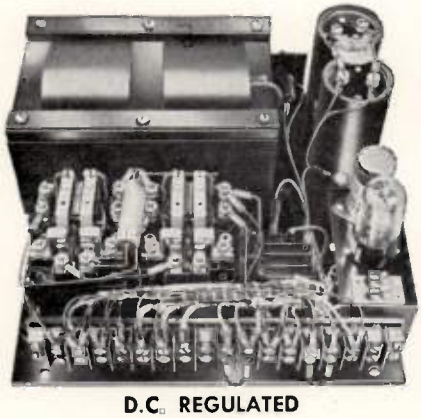
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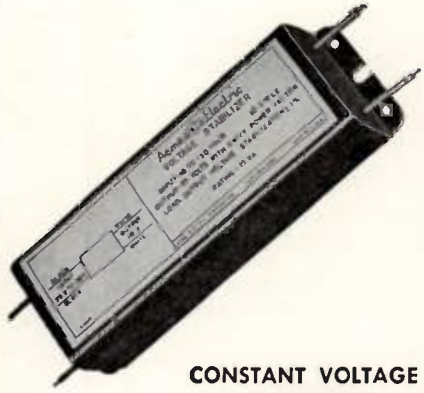
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Directory II. Components

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Taber Instrument Corp., N.Y., 5
Tensitron, Inc., Mass., 5
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Waldorf Instrument Co., Div. F. C. Huyck & Sons, N.Y., 5, 10
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Transmitters, telemeter: See class 20

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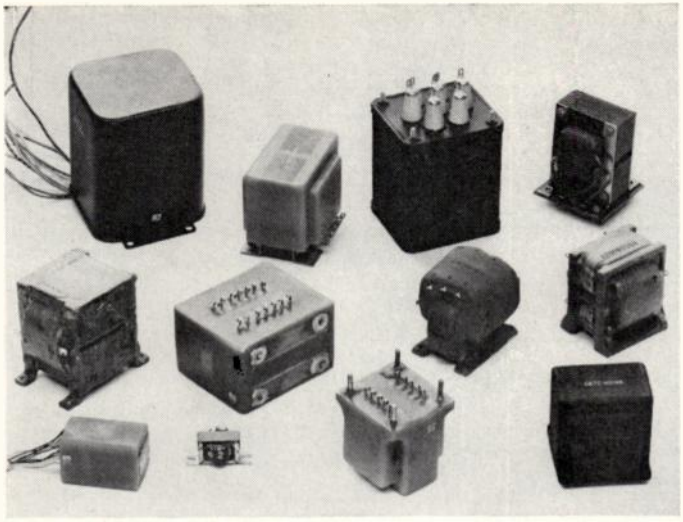
59. Transformers.

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10. Current limiting
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30. Horizontal output & flyback
32. Instrument
35. Intermediate frequency
40. Isolation
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45. Power
50. Precision matched
52. Precision voltage dividing
55. Pulse
60. Radio frequency
65. Saturable
70. TV deflection
75. TV impedance matching
80. Toroidal
85. Ultrasonic
87. Vibrator
90. Variable
95. Voltage regulating

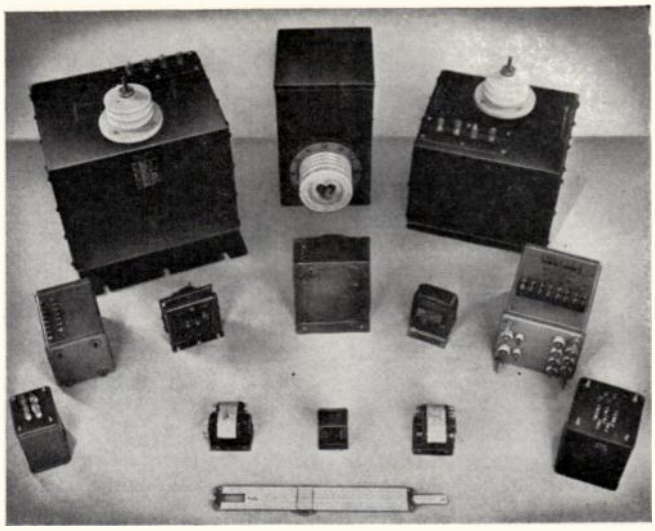
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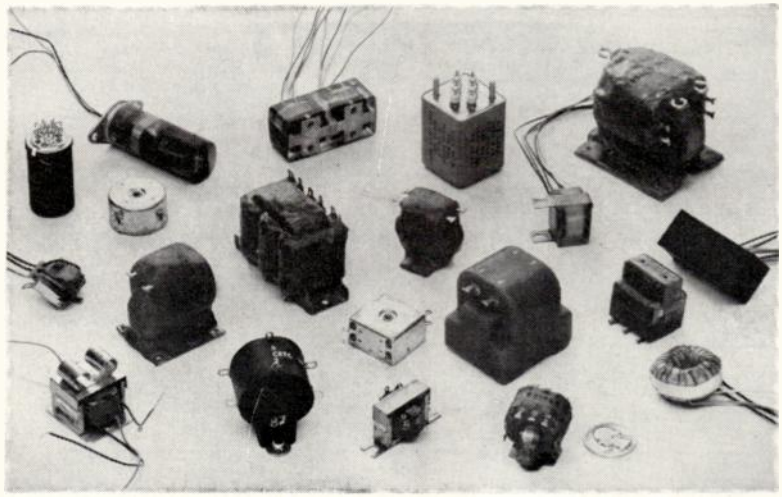


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saturable reactors
electronic assemblies

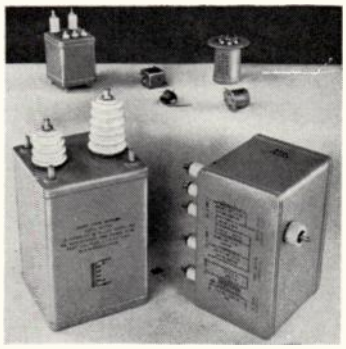
open...encased (including oil-filled)
encapsulated...cast



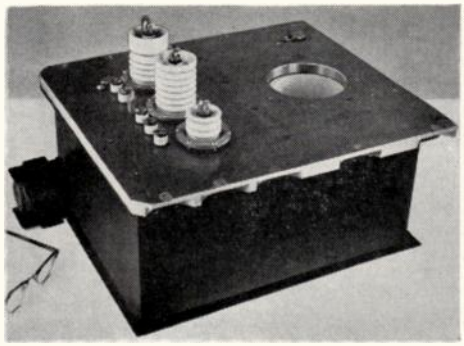
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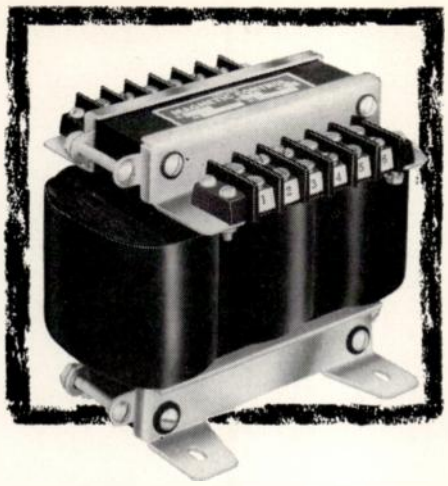
Dept. ID, Caledonia, N. Y.

In Canada: Hackbush Electronics, Ltd., 23 Primrose Ave., Toronto 4, Ont.

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Caledonia Electronics & Transformer Corp., Dept. ID, P.O. Box 98, Caledonia, N.Y., 5, 15, 25, 27, 45, 55, 80
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Cambridge Thermionic Corp., 440 Concord Ave., Cambridge 38, Mass.. 60
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Tel: DAvis 7-1123
Central Transformer Co., Ill., 10, 15, 25, 27, 32, 40, 42, 43, 45, 52, 65, 85, 87, 95
Chicago Condenser Corp., Dept. A, 3255 W. Armitage Ave., Chicago 47, Ill., 55, 95
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Tel: CApitol 7-7070
Chicago Elec. Engrg. Co., Ill., 10, 15, 20, 25, 27, 35, 40, 42, 45, 50, 52, 55, 65, 80, 87
Chicago Magnetic Control, 1616 North Damen Ave., Chicago 47, Ill., 5, 10, 15, 25, 27, 30, 40, 42, 45, 50, 52, 65, 80, 87, 95
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Tel: ARmitage 6-7400
Chicago Standard Transformer Corp., 3514 W. Addison St., Chicago 18, Ill., 5, 15, 25, 27, 30, 42, 45, 55, 65, 70, 75, 80, 87, 90, 95
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Tel: INdependence 3-7400
Chicago Telephone of Calif., Inc., Calif., 5, 32, 45
Clifton Precision Products Co., Inc., Marple at Broadway, Clifton Heights, Pa., linear
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Tel: MAdison 6-2101
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Coast Coil Co., Calif., 5, 15, 25, 50, 80
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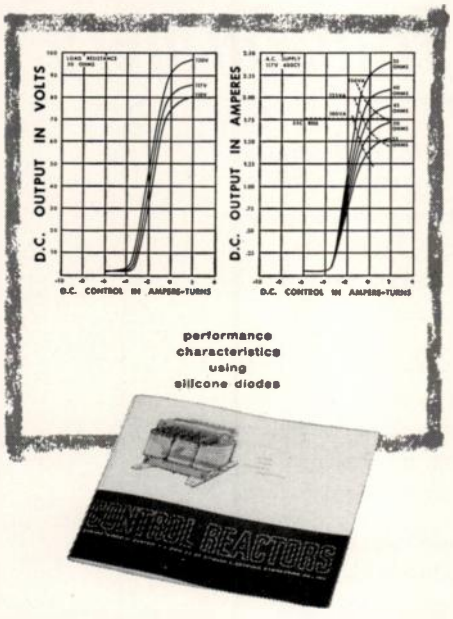


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MGP1	400/200	V	185	.070	6.3/5	2	6.3	3	HA
MGP2	650	V	260	.070	6.3/5	2	6.3	4	JB
MGP3	650	V	245	.150	6.3	5	5.0	3	KB
MGP4	800	V	318	.175	5.0	3	6.3	8	LB
MGP5	900	V	345	.250	5.0	3	6.3	8	MB
MGP6	700	V	255	.250					KB
MGP7	1100	V	419	.250					LB
MGP8	1600	V	640	.250					NB

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All primaries 105/115/125 v., 60 c.p.s.

Cat. No.	Secondary Volt	Secondary Amp	Test VRMS	MIL Case
MGF1	2.5	3.0	2,500	EB
MGF2	2.5	10.0	2,500	GB
MGF3	5.0	3.0	2,500	FB
MGF4	5.0	10.0	2,500	HB
MGF5	6.3	2.0	2,500	FB
MGF6	6.3	5.0	2,500	GB
MGF7	6.3	10.0	2,500	JB
MGF8	6.3	20.0	2,500	KB
MGF9	2.5	10.0	10,000	JB
MGF10	5.0	10.0	10,000	KB

PULSE TRANSFORMERS

Cat. No.	Block'g. Osc.	Int. Coupl'g	Low. Pow. Out.	Pulse Voltage Kilovolts	Pulse Duration Microseconds	Duty Rate	No. of Wdgs.	Test Volt. KVRMS	Char. Imp. Ohms
MPT1	V	V		0.25/0.25/0.25	0.2-1.0	.004	3	0.7	250
MPT2	V	V		0.25/0.25	0.2-1.0	.004	2	0.7	250
MPT3	V	V		0.5/0.5/0.5	0.2-1.5	.002	3	1.0	250
MPT4	V	V		0.5/0.5	0.2-1.5	.002	2	1.0	250
MPT5	V	V		0.5/0.5/0.5	0.5-2.0	.002	3	1.0	500
MPT6	V	V		0.5/0.5	0.5-2.0	.002	2	1.0	500
MPT7	V	V	V	0.7/0.7/0.7	0.5-1.5	.002	3	1.5	200
MPT8	V	V	V	0.7/0.7	0.5-1.5	.002	2	1.5	200
MPT9	V	V	V	1.0/1.0/1.0	0.7-3.5	.002	3	2.0	200
MPT10	V	V	V	1.0/1.0	0.7-3.5	.002	2	2.0	200
MPT11	V	V	V	1.0/1.0/1.0	1.0-5.0	.002	3	2.0	500
MPT12	V	V	V	0.15/0.15/0.3/0.3	0.2-1.0	.004	4	0.7	700

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Frequ. resp. 300 to 10000 cps ± 2 DB. All Case Sizes AJ

Catalog No.	Application	Impedance Prim. Ohms	Impedance Ct.	Impedance Sec. Ohms	Impedance Ct.	DC Current Prim. Side MA. Max. Unbal. MA	DC Current Max. Level DBM
MGA1	Single or P.P. Plates — to Single or P.P. Grids	10K	V	90K Split	V	10 10	+15
MGA2	Line to Voice Coil	600 Split		4, 8, 16		0 0	+33
MGA3	Line to Single or P.P. Grids	600 Split		135K	V	0 0	+15
MGA4	Line to Line	600 Split		600 Split		0 0	+15
MGA5	Single Plate to Line	7.6K 4.8T		600 Split		40 40	+33
MGA6	Single Plate to Voice Coil	7.0K 4.8T		4, 8, 16		40 40	+33
MGA7	Single or P.P. Plates to Line	15K	V	600 Split		10 10	+33
MGA8	P.P. Plates to Line	24K	V	600 Split		10 1	+30
MGA9	P.P. Plates to Line	60K	V	600 Split		10 1	+27

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59. Transformers.

Consolidated Electrodynamics Corp., Calif., 5, 25, 32, 60, 80
Consolidated Radio Prods. Co., Ill., 5, 55
Constantine Eng. Labs. Co., See Celco
Control Devices Inc., Mich., 32, 40, 90
Crest Transformer Corp., Ill., 5, 10, 15, 25, 27, 40, 45, 60, 65, 95
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Daystrom, Inc., N.J., 15, 50, 55, 65, 80
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Del Electronics Corp., Dept. ID, 521 Homestead Ave., Mount Vernon, N.Y., 10, 15, 20, 25, 27, 32, 40, 45, 65, 90
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Delevan Electronics Corp., N.Y., 60, 90
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Tel: SYcamore 2-4142
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Digitronics Corp., Albertson Ave., Albertson, L.I., N.Y., 55
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Tel: PIoneer 7-5090
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Direct TV Replacements, England, 5, 27, 30, 40, 45, 70, 75
Dormeyer Industries Inc., Ill., 5, 10, 27, 45, 65, 87, 90, 95
Douglas Microwave Co., Inc., Dept. RE-8, 252 E. Third St., Mount Vernon, N.Y., 43
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Tel: MOunt Vernon 8-6900
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Eisler Engrg. Co., Inc., N.J., 40, 42, 45
Elcor, Inc., Va., 15, 27, 40, 45
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Tel: BIttersweet 8-4596
Electrical Windings, Inc., Ill., 5, 10, 15, 25, 30, 32, 40, 42, 45, 50, 60, 65, 75, 80
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Electronic Products, N.Y., 5, 15, 20, 25, 27, 40, 45, 85

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Directory II. Components

59. Transformers.

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Tel: CEnter 9-3000

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Tel: DIckens 5-7531

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Tel: CRestview 3-9300

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Fisher Engineering, Inc., Ind., 15, 25, 27, 40, 45, 50, 55, 65

Foley Assoc., Andrew A., N.J., 5, 15, 20, 25, 27, 35, 40, 43, 45, 50, 55, 60, 65, 90, 95

Forbes & Wagner, Inc., N.Y., 30, 35, 55, 60, 65, 70, 75, 80

Forest Electric Co., Ill., 5, 10, 15, 25, 40, 45, 90

Forney Industries, Colo., 45, 65

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Fox Products Co., Pa., 10

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See ad on page 438
Tel: EVergreen 6-1300

Fugle-Miller Labs., Inc., 301 Central Ave., Clark, N.J., 35, 60, 80
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Tel: FUlton 1-2727

G B Electronics Corp., Subsidiary of General Bronze Corp., Hook Creek Blvd., Valley Stream, L.I., N.Y., 43
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Tel: LOcust 1-1125

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Tel: NEedham 3-0005

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General Hermetic Sealing Corp., 99 E. Hawthorne Ave., Valley Stream, L.I., N.Y., 25
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Tel: VAlley Stream 5-6363

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Tel: PIlgrim 8-2400

General Radio Co., 275 Massachusetts Ave., Cambridge 39, Mass., 80, 90
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Tel: TRowbridge 6-4400

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Gudeman Co., 340 W. Huron St., Chicago 10, Ill., 55
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Tel: DE 7-7400

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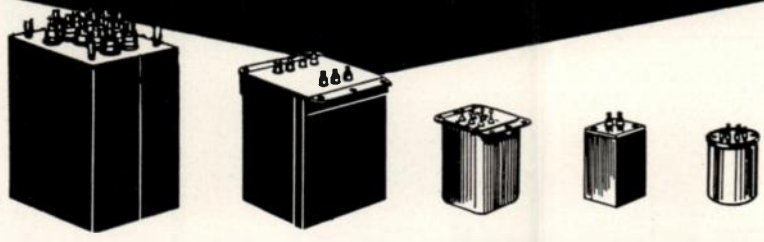
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Hadley Co., Robert M., Calif., 5, 10, 20, 25, 32, 40, 42, 45, 50, 52, 55, 65, 80, 85, 87, 95

Hall Mfg. Co., Ill., 80

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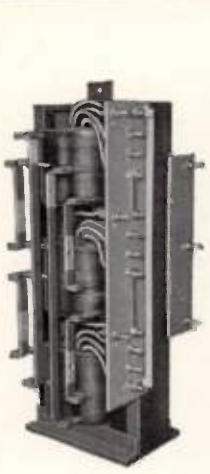
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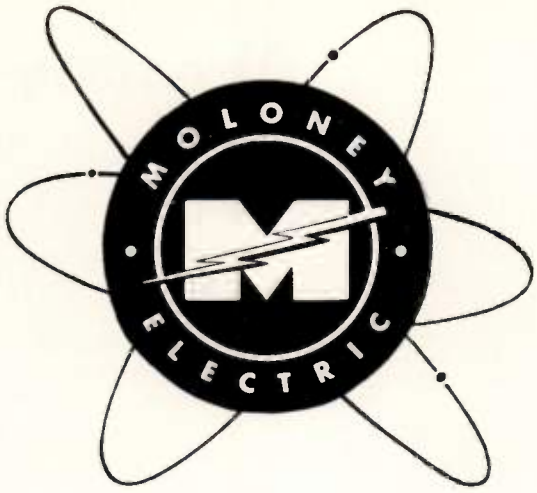
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Filament Transformer



Plate Transformer



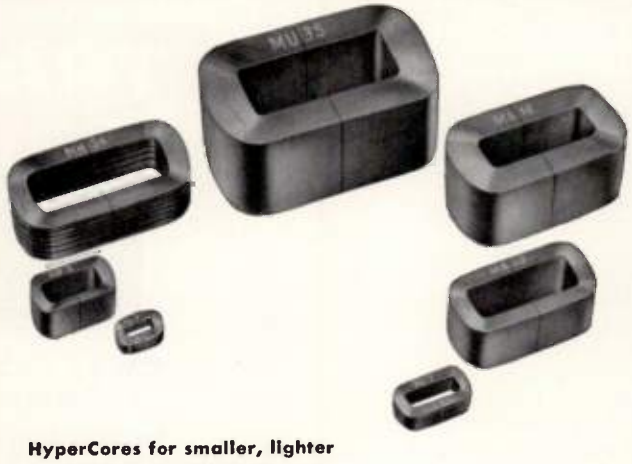
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Directory II. Components

59. Transformers.

Hammond Mfg. Co., Ltd., Canada, 5, 10, 15, 20, 25, 27, 40, 45, 52, 55, 60, 65, 80, 85, 87

Harder Co., Donald C., Calif., 5, 15, 25, 45, 80

Hermetic Seal Transformer Co. Div. SIE, Tex., 5, 10, 15, 20, 25, 32, 40, 42, 45, 50, 52, 55, 65, 80, 85, 87

Hevi-Duty Electric Co., Wis., 10, 15, 27, 32, 40, 42, 45, 65, 90

Highland Engineering Co., 90 Magnolia Ave., Westbury, L.I., N.Y., 5, 10, 15, 20, 25, 27, 40, 45, 50, 90, 95
See ad on this page
Tel: EDgewood 3-2933

Hindle Transformer Co., Inc., N.J., 10, 15, 20, 25, 27, 40, 42, 45, 65

Houlihan Co., T. J., Ill., 35, 60, 90

Inductor Engineering, Inc., Del., 5, 15, 25, 27, 40, 42, 45, 55, 65, 80

Industrial Transformer Corp., Goulds-boro, Pa., custom & military
See ad on pages 122-123
Tel: VIctor 2-2111

Interelectronics Corp., 2432 Grand Concourse, New York 58, N.Y., 5, 10, 15, 20, 35, 40
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Tel: LUdlow 4-6200

International Resistance Co., Calif., 5, 15, 25, 35, 40, 42, 45, 50, 52, 60, 65, 80, 95

International Resistance Co., Pa., 45, 55

Islip Transformer & Metal Co., Inc., N.Y., 5, 15, 25, 35, 45, 60

Jack & Heintz, Inc., Ohio, 10, 15, 25, 32, 40, 45, 80

James Vibrapowr Co., 4050 N. Rockwell St., Chicago 18, Ill., 5, 20, 32, 45, 87
See ad on page 328
Tel: COrnelia 7-6333

Jerrold Electronics Ltd., Canada, 75

Jobbins Electronics, 771 Hamilton Ave., Menlo Park, Calif., 15, 27, 32, 40, 45, 52, 65, 87, 95
See ad on page 429
Tel: DAvenport 6-7110

K-V Transformer Corp., Conn., 5, 15, 20, 25, 27, 32, 40, 42, 43, 45, 50, 52, 55, 65, 80, 87

Kapitol Magnetic Corp., Ill., 5, 10, 15, 20, 25, 32, 40, 42, 45, 50, 55, 65, 80, 85, 87, 95

Kearfott Co., Inc., Microwave Div., Dept. 24J, 14844 Oxnard St., Van Nuys, Calif., 43
See ad on page 458
Tel: STate 6-1760

Kenyon Transformer Co. Inc., N.Y., 5, 10, 15, 20, 25, 27, 40, 42, 45, 50, 52, 55, 65, 85

Kepco Laboratories Inc., 131-38 Sanford Ave., Flushing 55, N.Y., 95
See ad on page 379
Tel: INdependence 1-7000

Kolton Electric Mfg. Co., N.J., 40

L & O Research & Development Corp., Pa., 55

Laboratory for Electronics, Inc., Mass., 43, 80

Langevin Mfg. Corp., N.Y., 5, 15, 20, 25, 35, 40, 45, 55, 60, 65, 80, 95

Lavoie Laboratories Inc., Matawan-Freehold Rd., Morganville, N.J., 15, 25, 27, 45, 55, 95
See ad on page 100
Tel: MAtawan 1-2600

Levinthal Electronic Prods., Inc., Calif., 27, 55, 65

Lieco, Inc., 3610 Oceanside Rd., Oceanside, N.Y., 43
See ad on page 457
Tel: ROckville Centre 6-7620

Light Electric Corp., N.J., 15, 27, 40, 45

Lindberg Engrg. Co., Ill., Filament

Ling Systems, Inc., Calif., 43

Litton Industries, Inc., Calif., 5, 10, 15, 20, 25, 27, 30, 32, 40, 42, 45, 50, 52, 55, 60, 70, 75, 80, 87, 90, 95

Luther Electronic Mfg. Co., Calif., 25, 55

Macarr, Inc., Dept. R, 2543 Boston Rd., New York 67, N.Y., 45, 65
See ad on page 573
Tel: OLinville 3-3306

Magnatran, Inc., N.J., 27, 45, 55, Modulation Filament

Magnavox Co., Ind., 5, 15, 25, 45, 55, 80

Magnetic Amplifiers, Inc., 632 Tinton Ave., New York 55, N.Y., 15, 25, 65, 80, 95
See ad on page 380
Tel: CYpress 2-6610

Magnetic Research Corp., 3160 W. El Segundo Blvd., Hawthorne, Calif., 15, 25, 27, 45, 55, 65
See ad on page 282
Tel: OSborne 5-1171

Magnetic Windings Div., Essex Wire Corp., Pa.. 5, 10, 15, 20, 25, 27, 35, 40, 43, 45, 50, 55

Magnetico, Inc., N.Y., 5, 15, 50, 52, 65, 80

Marine View Electronics, Inc., N.Y., 60

Maxson Instrument Corp., N.Y., 50

McGregor Electronic Industries, Inc., Iowa, 5

McHenry Control Corp., Conn., 65, 95

McKay Electric Co., Mich., 65

Melco Products Inc., Minn., 5, 25, 27, 32, 35, 42, 45, 50, 52, 55, 60, 70, 75, 87, 90, 95

Meridian Metalcraft, Inc., Calif., 43

Merit Coil & Transformer Corp., Fla., 5, 10, 15, 27, 30, 40, 42, 45, 50, 55, 60, 70, 75, 87, 90, 95

Mico Instrument Co., Mass., 80

Microlab, 71 Okner Pkwy., Livingston, N.J., 43
See ad on page 349
Tel: LIvingston 6-0692

Micropulse Engrg., Calif., 25, 55, 80



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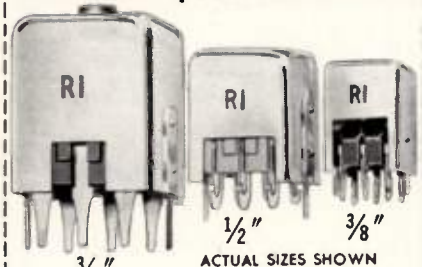
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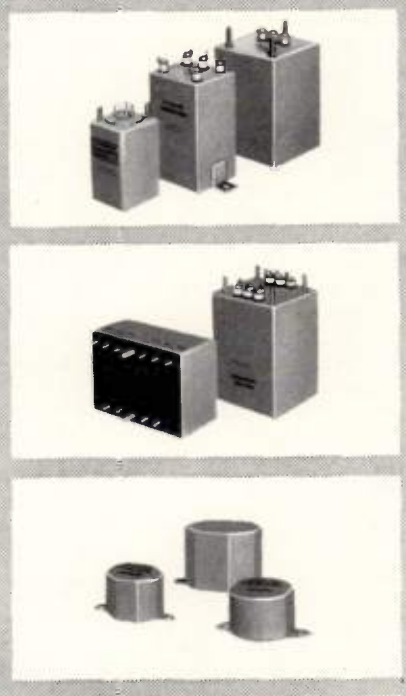
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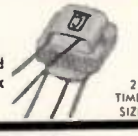
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59. Transformers.

Microtran Co., Inc., 145 E. Mineola Ave., Valley Stream, L.I., N.Y., 5, 15, 20, 25, 27, 32, 40, 45, 50, 52, 55, 85, 87
See ad on page 442
Tel: LOcust 1-6050

Microwave Assoc., Inc., Mass., 43

Mid-West Coil & Transformer Co., Ill., 5, 15, 27, 40, 45, 55, 65, 80

Millen Mfg. Co., Inc., James, 150 Exchange St., Malden 48, Mass., 35, 60
See ad on page 314
Tel: DA 4-4108

Miller Co., J. W., Calif., 27, 35, 60, 75

Miller Co., Sanford, N.Y., Rectifier Types

Minatron Corp., N.J., Differential

Mitchell Electronics Corp., N.Y., 5, 10, 15, 20, 25, 27, 32, 40, 42, 43, 45, 52, 87

Modelectric Prod. Corp., N.J., 27

Moloney Electric Co., 5390 Bircher Blvd., Saint Louis 20, Mo., 15, 25, 27, 45, 55
See ad on page 440
Tel: EVergreen 3-3300

Mosley Electronics, Inc., Mo., 75

Multi-Amp Corp., N.J., 10, 15, 27, 40

Muter Div., The Muter Co., Ill., 55, 60

Mystic Transformers, Inc., Mass., 5, 15, 25, 27, 40, 45

NJE Corp., N.J., 95

NRK Mfg. & Eng. Co., Ill., 43

NYT Electronics, Inc., Calif., 5, 10, 15, 25, 27, 32, 35, 40, 42, 43, 45, 50, 55, 60, 65, 80, 87

National Aircraft Corp., Calif., 5, 15, 25, 27, 40, 45, 55, 65, 80, 95

New England Transformer Co., Mass., 5, 10, 20, 25, 27, 35, 40, 43, 45, 55, 60, 65, 70, 75, 80, 85, 90, 95

New York Coil Co., Inc., Pa., 5, 10, 45, 65

New York Transformer Co., Inc., N.J., 5, 10, 15, 20, 25, 27, 32, 40, 42, 45, 50, 52, 55, 65, 80, 85, 87

North Hills Electric Co., Inc., 402 Sagamore Ave., Mineola, L.I., N.Y., 10, 35, 55, 60, 75, 80, 85, wide band
See ads on pages 315, 453
Tel: PIoneer 7-0555

Northern Electric Co., Ltd., Canada, 5, 25, 43, 45, 55, 80

Nothelfer Winding Labs., Inc., P.O. Box IRE, Albemarle Ave., Trenton 3, N.J., 10, 15, 27, 32, 40, 42, 45, 55, 65
See ad on page 200
Tel: EX 2-7116

Ogden Coil & Transformer Co., Ill., 5, 10, 15, 25, 27, 32, 40, 45, 55, 65, 87, 90, 95

Ohmite Mfg. Co., Ill., 90

Orbitran Co., Inc., Calif., 55

Ortho Filter Corp., N.J., 5, 15, 20, 25, 32, 40, 45, 50, 65, 80

Osborne Electronic Sales Corp., Ore., 5, 10, 15, 20, 25, 27, 30, 32, 35, 40, 42, 43, 45, 50, 52, 55, 60, 65, 70, 75, 80, 85, 90, 95

Osborne Transformer Corp., Mich., 5, 10, 15, 27, 32, 40, 42, 45, 50, 52, 65, 80, 85, 87, 95

Oxford Electric Corp., Ill., 5, 30, 40, 45, 87

PCA Electronics, Inc., Calif., 55, 80

Packard-Bell Electronics, 12333 W. Olympic Blvd., Los Angeles 64, Calif., 55
See ad on page 204
Tel: BRadshaw 2-2171

Palo Alto Engineering Co., Calif., 5, 10, 15, 25, 40, 45, 55

Panseal, Inc., N.J., 65, 70

Partridge Transformers Ltd., England, 5, 15, 25, 27, 32, 40, 42, 45, 50, 87, Hi-Fi

Pearson Electronics, Calif., 55, Super High Voltage

Peerless Electrical Prods. Div., Altec Lansing Corp., Calif., 5, 10, 15, 20, 25, 27, 40, 42, 45, 50, 52, 55

Penn-East Engineering Corp., P.O. Box 240, Kutztown, Pa., 5, 10, 15, 25, 40, 42, 45, 65
See ad on page 442
Tel: OVerbrook 3-7308

Perkin-Elmer Corp., Conn., Adjustable Computing

Permoflux, Ill., 5

Peschel Electronics, Inc., N.Y., 10, 15, 27, 40, 45, 65, 90

Polyphase Instrument Co., Pa., 5, 15, 25, 32, 35, 45, 50, 52, 55, 60, 65, 80

Poughkeepsie Coil Co., N.Y., 80

Precise Measurements Co., Millbrook Lane, R.D. #1, Flemington, N.J., 27, 45, 65, 87, 90
See ad on page 382
Tel: FLemington 900

Precision, Inc., Minn., 80

Pulse Engineering, Inc., Calif., 15, 55, 80

Outronic Transformer Corp., N.Y., 5, 15, 20, 25, 27, 32, 35, 40, 42, 45, 50, 52, 65, 80

R. K. Manufacturing Co., Ill., 5, 43, 44, 55, 87

Radio City Products Co., Inc., Pa., 65

Radio Components Ltd., Canada, 30, 35, 60, 70

Radio Engng Labs., Inc., Standard Electronics Div., N.Y., 10, 25, 27, 32, 45, 55, 65, 90, 95

Radio Engineering Prods., Canada, 5, 25, 50, 80

Radio Industries, Inc., 666 Garland Place, Des Plaines, Ill., 35
See ads on pages 305, 393, 442
Tel: (Chicago) UPtown 8-6500

Raeco, Ind., 5, 10, 15, 25, 27, 40, 45, 50, 55, 65, 80, 90, 95

Railway Communications Inc., Mo., 10, 15, 22, 37

Randall, Inc., Douglas, R.I., 5, 45

Raytheon Mfg. Co., Mass., 55, 95

Redman Electronics Corp., 90 Prospect St., Thompsonville, Conn., 35, 60, 80, 85
See ad on page 315
Tel: RIverview 5-8024

Remco Electric Co., Mass., 5

Rogers Electronic Tubes & Components, Canada, 35, 55, 60

Rola Co., The, Div. Muter Co., Ohio, 5, 15, 25, 27, 30, 40, 70, 75, 87

Rytron Co., Inc., Calif., 5, 15, 25, 35, 40, 42, 45, 50, 52, 55, 60, 65, 80, 95

SNC Mfg. Co., Inc., Wis., 5, 15, 25, 27, 40, 45

Sangamo Electric Co., Ill., 5, 15, 32, 40, 42, 45, 50, 55, 65, 80, 85, 95

Saratoga Industries, N.Y., 5, 10, 15, 25, 27, 30, 32, 40, 42, 45, 50, 52, 55, 60, 65, 80, 90, 95

Savage Transformers, Ltd., Eng., 5, 10, 15, 20, 25, 27, 40, 45, 50, 65, 85

Scientific Engineering Laboratory, 1510 6th St., Berkeley 10, Calif., 55
See ad on page 576
Tel: LAndscape 6-2772

Servomechanisms, Inc., Calif., 25, 80

Sickles Div., F. W., Gen. Instrument Corp., Mass., 30, 35, 60

Signal Transformer Co., N.Y., 5, 15, 20, 25, 27, 40, 42, 45, 50, 52, 55, 65, 80, 85, 87

Sioux Radio Products, S.D., 35, 60, 75, 80

Sivers Lab., Sweden, 43

Skysweeper, Inc., Ill., 5, 10, 15, 25, 27, 40, 45, 87

Smallwood Ltd., S. G., Canada, 30, 35, 60

Sola Electric Co., 4633 W. 16th St., Chicago 50, Ill., 95
See ad on page 386
Tel: BIshop 2-1414

Southwestern Industrial Electronics Co., 2831 Post Oak Rd., P.O. Box 13058, Houston 19, Tex., 5, 20, 32, 45, 80
See ad on page 192
Tel: MOhawk 7-6611

Specialties Inc., N.Y., 5, 15, 45, 55

Sperry Gyroscope Co., Microwave Electronics Div., N.Y., 43

Sperry Gyroscope Co. of Canada, Ltd., Canada, 65, 80

Spivey, Inc., James S., D.C., 55

Sprague Electric Co., Mass., 55

Square D Co., Wis., 45

Standard Electrical Products Co., Ohio, 5, 15, 20, 25, 27, 45, 50, 65, 80, 90, 95

Standard Electronics, Div. of Radio Engrg. Labs., Inc., 5, 10, 25, 27, 32, 45, 55, 65, 90, 95

Stanley Transformer Co., N.Y., 5, 10, 15, 25, 27, 32, 40, 42, 45, 50, 52, 55, 65, 85, 87, 95

Stanwyck Coil Co., E., 75 Carson Ave., Newburgh, N.Y., 35, 60, 80
See ad on page 317
Tel: NEwburgh 3030

Stanwyck Winding Co., Inc., N.Y., 35, 60, 80

Sterling Transformer Corp., N.Y., 5, 15, 20, 25, 27, 40, 42, 45, 55, 65, 87, 95

Summit Coil Co., N.J., 27, 35, 60, 75

Superex Electronics Corp., N.Y., 5, 60, Transistor Transformers

Superior Electric Co., The, 8000 Lee Ave., Bristol, Conn., 15, 90
See ad on pages 36-40
Tel: LUdlow 2-9561

Sylvania Electric Products, Inc., Mass., 5, 10, 15, 25, 27, 40, 42, 45, 50, 52, 55, 65, 80, 87

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Tel: REctor 2-6248

Technitrol Engineering Co., Pa., 55

Tele Coil Co., N.J., 30, 35, 60, 90 ,

Telechrome Inc., 28 Ranick Dr., Amityville, L.I., N.Y., 27, 30, 70
See ad on page 228
Tel: Lincoln 1-3600

Telecomputing Corp., Calif., 52, 55, 65, 80

Telectro Industries Corp., N.Y., 5, 25, 27, 32, 35, 40, 42, 45

Telerad Mfg. Corp., N.Y., 43

Teleradio Engineering Corp., N.Y., 30, 35, 50, 60, 70

Television Laboratories, Inc., Ill., 70

Telex, Inc., Minn., 5, 15, 25, 32, 50, 55, 60, 80

Tensor Electric Development Co., Inc., N.Y., 5, 10, 15, 20, 25, 27, 40, 42, 45, 50, 52, 55, 65, 80, 85, 87, 90, 95

Thermador Electrical Mfg. Co., Calif., 5, 15, 20, 25, 27, 30, 32, 35, 40, 42, 45, 50, 52, 55, 60, 65, 80, 85, 87, 90, 95

Thordarson-Meissner, Ill., 5, 10, 15, 20, 25, 27, 30, 32, 35, 40, 42, 43, 45, 50, 52, 60, 65, 70, 75, 85, 87, 90, 95

Topp Mfg. Co., Calif., 5, 10, 15, 25, 32, 40, 42, 45, 50, 52, 55, 65, 80, 85, 90, 95

Topping Electronics, Ltd., F.V., Canada, 60, Ferrite

Toroid Coil Winding, Inc., 171 Coit St., Irvington 11, N.J., 80
See ad on page 316
Tel: ESsex 4-9800

Torwico Electronics, Inc., 1090 Morris Ave., Union, N.J., 5, 15, 25, 42, 50, 52, 65, 80
See ad on page 134
Tel: ELizabeth 4-5650

Transformer Specialty Co., Inc., Pa., 5, 15, 25, 27, 32, 40, 45

Transformer Technicians, Inc., Ill., 5, 10, 15, 20, 25, 27, 32, 40, 45, 52, 55, 65, 80, 87, 95

Transformers, Inc., N.Y., 5, 15, 20, 25, 27, 40, 45, 50, 55, 80, 85

Transonic, Inc., Calif., 5, 10, 15, 20, 25, 27, 32, 40, 43, 45, 50, 52, 55, 65, 80, 87, 90, 95

Trenton Transformer Corp., N.J., 15, 25, 27, 32, 35, 40, 42, 45, 65

Tresco, Inc, 3824-28 Terrace St., Philadelphia 28, Pa., 5, 15, 25, 27, 32, 40, 42, 45, 52, 65, 87
See ad on this page
Tel: IVyridge 3-1383

Triad Transformer Corp., 4055 Redwood Ave., Venice, Calif., 5, 15, 20, 25, 27, 30, 32, 40 42, 45, 50, 55, 70, 75, 80, 85, 87, 90
See ad on page 236
Tel: EXmont 7-2145 or TExas 0-5381

Tronic Coils Winding Co., Inc., Conn., 25, 27, 45, 55, 65, 80

Union Electric & Mfg. Co., N.J., 5, 10, 15, 25, 27, 35, 40, 42, 45, 50, 52

United States Electronics Corp., N.J., Molded

United Transformer Corp., 150 Varick St., New York 13, N.Y., 5, 10, 15, 20, 25, 27, 32, 40, 42, 45, 50, 55, 65, 80, 85, 87, 90, 95
See ad on Cover 2
Tel: ALgonquin 5-3500

Universal Mfg. Co., Inc., 1168 Grove St., Irvington 11, N.J., 80
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Tel: ESsex 4-9800

Universal X-Ray Products, Inc., Ill., 27

Utrad Corp., Ind., 5, 10, 15, 20, 25, 27, 32, 40, 42, 45, 50, 52, 55, 75, 80, 87, 95

Vanguard Electronics Co., Calif., 35, 60

Vari-L Co., Inc., 432 Fairfield Ave., Stamford, Conn., 65, 80
See ad on page 316
Tel: FIreside 8-0091

Varo Mfg. Co., Inc., Tex., 5, 10, 15, 20, 25, 32, 40, 42, 45, 50, 52, 65, 80, 85, 87

Vernistat Div., Perkin-Elmer Corp., Conn., Variable Ratio

Vibration Research Labs., Inc., N.Y., 15, 25, 27, 45, 65, 80

Vickers, Inc., Electric Prods. Div., Mo., 65, 90

Virginia Electronics Co., Inc., D.C., 5, 45, 60, 80, 95

Walsh Engineering Co., N.J., 5, 27, 32, 45, 55, 65, 85

Warren Transformer Co., Inc., Pa., 5, 10, 15, 20, 25, 27, 32, 35, 40, 42, 43, 45, 50, 52, 55, 60, 65, 80, 85, 87

Warsaw Coil Co., Ind., 35

Wave Particle Corp., Calif., 27, 43

Waveline, Inc., N.J., 43

Welch Mfg. Co., A.W., Ind., 80

Westbury Electronics, Inc., N.Y., 40, 60, 75

Western Coil Products Co., Calif., 60

Westinghouse Electric Corp., Pa., 10, 15, 25, 27, 45, 50, 55

Weston Instruments, Div. Daystrom, Inc., N.J., 32, 50

Wheeler Electronic Corp., Div. Sperry Rand Corp., Conn., 5, 10, 15, 25, 27, 32, 35, 40, 42, 43, 45, 50, 52, 55, 80, 87

Wright, Inc., Minn., 5

Wright-Zimmerman, Inc., Minn., 27, 30, 60

Transistors: See class 54

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60. Tuners.

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10. FM tuners
15. Klystron
20. Microwave
25. TV tuners
30. UHF & VHF

ACF Industries, Inc., N.J., 20

ACF Industries Inc., Erco Div., Md., 30

Acoustical Mfg. Co. Ltd., England, 5, 10

Aircom, Inc., 354 Main St., Winthrop 52, Mass., 20, 30
See ad on page 454
Tel: OCean 3-3096

Aircom, Inc., N.J., 20

Airtron, Inc., Dept. I, 1106 W. Elizabeth Ave., Linden, N.J., 20
See ad on page 454
Tel: HUnter 6-1000

Directory II. Components

60. Tuners.

Allied Radio Corp., Dept. 35-59, 100 N. Western Ave., Chicago 80, Ill., 10, FM & AM
See ad on page 142
Tel: HAymarket 1-6800

Altec Lansing Corp., Calif., 5, 10
Altec Service Co., N.Y., 5, 10
American Communications Corp., N.Y., 5
American Microwave Corp., Calif., 20
Arkay, N.Y., 5, 10
Audio-Video Corp.. N.Y., 5, 10, 30

Bergen Laboratories, Inc., 247 Crooks Ave., Clifton, N.J., 30
See ad on page 359
Tel: GRegory 3-7800

Bogen Co., Inc., D., N.J., 5, 10
British Industries Corp., S. G. Brown Div., N.Y., 10
British Industries Corp., Wharfedale Div., N.Y., 10
Browning Labs., Inc., Mass., 5, 10
Budd Stanley Co., Inc., N.Y., 20
Calbest Electronics Co., Calif., 5, 10
Conrac, Inc., Calif., 25
DX Radio Products Co., Ill., 25, 30
Daystrom, Inc., N.J., 5, 10

DeMornay-Bonardi, 780 S. Arroyo Pkwy., Pasadena, Calif., 20
See ad on pages 50-51
Tel: SYcamore 2-4142

Diamond Antenna & Microwave Corp., Mass., 15, 20
Dictograph Prods. Inc., N.Y., 5, 10
Dominion Electrohome Ind., Ltd., Canada, 5, 10

Douglas Microwave Co., Inc., Dept. RE-8, 252 E. Third St., Mount Vernon, N.Y., 20
See ad on page 456
Tel: MOunt Vernon 8-6900

Dunn Engrg. Assoc., Inc., Mass., 20
E M I Electronics, Ltd., England, 30, Special
Electronics Instrument Co., Inc., N.Y., 10
Emerson Radio & Phono Corp., Md., 5, 10, 15, 20, 25, 30

Engineering Associates, 434 Patterson Rd., Dayton 9, Ohio, 20, 30
See ad on page 271
Tel: AXminister 3-1662

Fisher Radio Corp., N.Y., 5, FM, 10, Receivers
Forbes & Wagner, Inc., N.Y., 5

G B Electronics Corp., subsid. of General Bronze Corp., Hook Creek Blvd., Valley Stream, L.I., N.Y., 20
See ad on page 246
Tel: LOcust 1-1125

General Bronze Corp., N.Y., 20
General Dynamics Corp., Stromberg-Carlson Div., N.Y., 5, 10
General Electronic Labs., Inc., Mass., 30
General Instrument Corp., Automatic Mfg. Div., N.J., 25, 30
Gonset Div., Young Spring & Wire Corp., Calif., 5, 10

Gorham Mfg. Co., 333 Adelaide Ave., Providence 7, R.I., 20, 30
See ad on page 457
Tel: WIlliams 1-1000

Gramatan Instrument Co., N.Y., 20
Granco Products Inc., N.Y., 5, 10, 30
Gray Mfg. Co., Conn., 10
Grigsby-Allison Co., Inc., Ill., 25
Hallicrafters Co., Ill., 5, 10, 15, 20, 30
Harman-Kardon, Inc., N.Y., 5, 10

Heath Co., Subsidiary of Daystrom, Inc., Benton Harbor 4, Mich., 5, 10
See ad on page 482
Tel: YUkon 3-3961

Herold Radio & Electronics Corp., N.Y., 5, 10
Hoffman Electronics, Consumer Prods. Div., Calif., 5, 10
International Crystal Mfg. Co., Inc., Okla., 10
International Tel. & Tel. Corp., Ind. Prods. Div., Calif., 25

JFD Electronics Corp., 1462 62nd St., Brooklyn 19, N.Y., 20, 30
See ad on page 306
Tel: DEwey 1-1000

J-V-M Microwave Co., 9305 W. 47th St., Brookfield, Ill., 20, 30
See ad on page 500
Tel: HUnter 5-2000

Kama Instrument Corp., N.Y., 20, 30

Kearfott Co., Inc., Microwave Div., Dept. 24J, 14844 Oxnard St., Van Nuys, Calif., 20
See ad on page 458
Tel: STate 6-1760

Land-C-Air Sales Co., N.Y., 30
Ling Systems, Inc., Calif., 20
Magnavox Co., Ind., 5, 10, 30
Mallory & Co., Inc., P. R., Ind., 25, 30
Marsland Engrg. Ltd., Canada, 25
McIntosh Lab., Inc., N.Y., 5, 10
Meridian Metalcraft, Inc., Calif., 20

Microlab, 71 Okner Pkwy., Livingston, N.J., 15, 20, 30
See ad on page 349
Tel: LIvingston 6-0692

Microwave Associates Inc., Mass., 20
Miller Co., J. W., Calif., 10
Molded Insulation Co., Pa., 30
NRK Mfg. & Eng. Co., Ill., 20

Narda Microwave Corp., Dept. IRE-8, 118-160 Herricks Rd., Mineola, L.I., N.Y., 20, 30
See ad on pages 124-127
Tel: PIoneer 6-4650

National Co., Inc., Mass., 5
Newcomb Audio Products Co., Calif., 5, 10
Northern Electric Co., Ltd., Canada, 5

For further information about any of the products or services advertised in this book, circle the appropriate number on the Readers Service Card at the back of the book.

Philco Corp., Government & Industrial Div., Pa., 5, 10, 15, 20
Pitometer Log Corp., N.Y., 20, 30

Polarad Electronics Corp., 43-20 34th St., Long Island City 1, N.Y., 15, 20
See ad on pages 103-104
Tel: EXeter 2-4500

Precise Development Corp., N.Y., 5, 10
Precision Radiation Instruments, Calif., 5, 10
Radar Design Corp., N.Y., 20
Radio Condenser Co., N.J., 5, 10
Raytheon Mfg. Co., Mass., 15, 20
Rhein Sound Systems, Inc., Conn., 5, 10
Republic Electronic Industries Corp., N.Y., 5, 10
Saratoga Industries, N.Y., 5, 10
Sargent-Rayment Co., Calif., 5, 10
Sickles Div., F. W., General Instrument Corp., Mass., 5, 10, 25, 30
Sivers Lab., Sweden, 20
Sperry Gyroscope Co., Electronic Tube Div., N.Y., 15
Sperry Gyroscope Co., Microwave Electronics Div., N.Y., 20
Standard Coil Products, Canada, Ltd., Canada, 10, 25, 30

Sylvania Electric Products Inc., 1740 Broadway, New York 19, N.Y., 5, 10, 15, 20, 25, 30
See ad on pages 25-30
Tel: JUdson 6-2424

Tarzian, Inc., Sarkes, Ind., 25, 30
Tech Master Corp., N.Y., 5, 10, 25, Kits

Telechrome, Inc., 28 Ranick Dr., Amityville, L.I., N.Y., 25
See ad on page 228
Tel: LIncoln 1-3600

Telerad Mfg. Corp., N.Y., 20
Warwick Mfg. Corp., Ill., 5, 10
Waveline, Inc., N.J., 20

Weinschel Engineering, 10503 Metropolitan Ave., Kensington, Md., 20, 30
See ads on pages 287, 503
Tel: LOckwood 4-0122

Wells-Gardner & Co., Ill., 5, 10

Tuning coils: See class 29

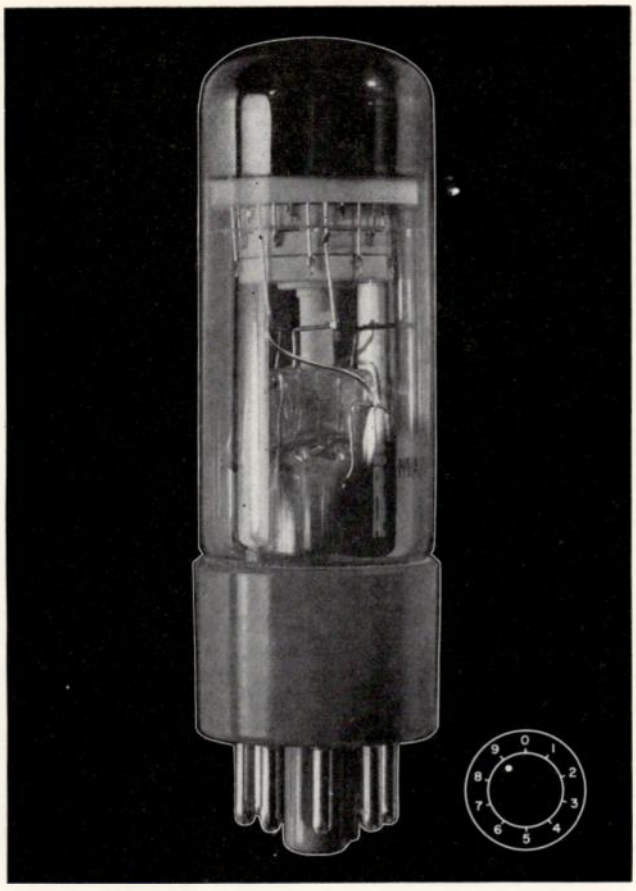
Tuning forks: See class 75

Turntables: See class 18

Vacuum tube parts: See class 97

Vacuum tube rectifiers: See class 51

Vacuum tube voltmeters: See class 72



Need a **PROVEN** tube that indicates and counts?

dekatron*

The only cold-cathode glow transfer counting tube **WITH OVER 10 YEARS OF SERVICE RELIABILITY AND PERFORMANCE.** Simple circuitry. Electronic speed and accuracy up to 20,000 counts/sec. For counting, sorting, programming, unit flow, packaging and many other applications. Continuous visual reference to total count. For detailed information, request Technical Data Sheet IC4001.

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Baird Atomic

Baird-Atomic, Inc.

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Instrumentation for Better Analysis

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5. Cathode-ray & TV picture
10. Miniature
15. Standard types, glass & metal
20. Sub-miniature

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Amperex Electronic Corp., 230 Duffy Ave., Hicksville, L.I., N.Y., 10, 15, 20
See ad on pages 72-73
Tel: WElls 1-6200

Autometric Corp., N.Y., 5
CBS-Hytron Div., Mass., 5, 10, 15
Calvideo Tube Corp., Calif., 5
Canadian GE Co., Ltd., Canada, 5, 10, 15, 20
Cascade Research, Calif., 15
Chatham Electronics, N.J., 10, 15, 20
Chromatic TV Labs., Inc., N.Y., 5
Claremont Tube Corp., N.Y., 5
Dumont Labs. Inc., A. B., International Div., N.Y., 5, Ind. Tubes, Multiplier Photo Tubes
Dumont Labs., Inc., A. B., N.J., 5
E M I Electronics, Ltd., England, 5

Eitel-McCullough, Inc., 798 San Mateo Ave., San Bruno, Calif., Ceramic
See ad on pages 68-69
Tel: JUno 8-1212

Electronic Tube Corp., Pa., 5
Ericsson Corp., L. M., See State Labs.
Freeland Products Co., La., 5
General Electric Co., Ky., 10, 15, 20
General Electronics Inc., N.J., 5
Gotham Audio Dev. Corp., N.Y., 5
Huggins Labs., Inc., Calif., 15
Hughes Products, Hughes Aircraft Co., Calif., 5, Direct View Storage Tubes
Intelex Systems, Inc., N.Y., 10, 15
Jan Hardware Mfg. Co., Inc., N.Y., 5

Kip Electronics Corp., 29 Holly Pl., P.O. Box 562, Stamford, Conn., 10, 20
See ad on page 447
Tel: DAvis 5-1551

Litton Industries, Inc., Calif., 5
Litton Industries, Calif., 5
Mackay Research Labs., Ill., 5
Metropolitan Overseas Supply Corp., N.Y., 5, 10, 15, 20
Mullard Overseas, Ltd., England, 5, 10, 15, 20
Multi-Tron Lab., Inc., Ill., 5
National Standard Corp., Conn., 5
National Union Electric Corp., Ill., 5
National Video Corp., Ill., 5
Philadelphia Scientific Glass Co., Pa., 15

Philco Corp., Lansdale Tube Co. Div., Dept. IR-958, Church Rd., Lansdale, Pa., 5, 10, 20
See ad on page 208
Tel: ULysses 5-4681

Radio Corp. of America, Electron Tube Div., Section I-20-Q, 415 S. Fifth St., Harrison, N.J., 5, 10, 15, 20
See ad on pages 113-116
Tel: HUmboldt 5-3900

Rank Cintel, Ltd., England, 5
Raytheon Mfg. Co., Receiving Tube & Semiconductor Operations, Mass., 5, 10, 15, 20
Resitron Labs., Inc., Calif., 5, 10
Rogers Electronic Tubes & Components, Canada, 5, 10, 15, 20
Rye Sound Corp., N.Y., 20

Sonotone Corp., Dept. COO-108, P.O. Box 200, Elmsford, N.Y., 10, 15, 20
N.Y., 10, 15, 20
See ad on page 291
Tel: LYric 2-6400

Directory II. Components

61. Vacuum Tubes, Receiving.

State Labs., Inc., 649 Broadway, New York 12, N.Y., 5, 10, 15, 20
See ad on this page
Tel: ORegon 7-8400

Stromberg-Carlson Div., General Dynamics Corp., Calif., 5

Sylvania Electric Products Inc., 1740 Broadway, New York 19, N.Y., 5, 10, 15, 20
See ad on pages 25-30
Tel: JUdson 6-2424

Technical Impex Corp., Mass., 10, 15

Thomas Electronics, Inc., N.J., 5

Tung-Sol Electric, Inc., 95 Eighth Ave., Newark 4, N.J., 5, 10, 15, 20
See ad on pages 82-83
Tel: HUmboldt 2-4200

Vacuum Tube Products Co., Inc., Calif., 5

Waterman Products Co., Inc., 2445 Emerald St., Philadelphia 25, Pa., 5
See ad on page 45
Tel: GArfield 6-8600

Watkins-Johnson Co., Calif., Low Noise Microwave

Wells Co., Inc., Gary, N.Y., 15

Westinghouse Electric Corp., N.Y., 5, 10, 15

62. Vacuum Tubes, Special Purpose.

5. Electrometer tubes
10. Geiger-Mueller
15. Phototubes
20. Pirani tubes
25. Thyratrons
30. Voltage regulators & ballasts
35. X-Ray

Aerolux Light Corp., N.Y., 25, 30

American Radio Co., Inc., N.Y., 10

Amglo Corp., Ill., 15, Electronic Flash

Amperex Electronic Corp., 230 Duffy Ave., Hicksville, L.I., N.Y., 10, 25, 30, 35
See ad on pages 72-73
Tel: WElls 1-6200

Anton Electronic Labs., Inc., N.Y., 10, 30

Applied Radiation Corp., Calif., 35

Baird-Atomic, Inc., 33 University Rd., Cambridge 38, Mass., cold cathode counter
See ads on pages 446, 480
Tel. UNiversity 4-7420

Bendix Aviation Corp., Red Bank Div., Electron Tube Section, Route #35, Eatontown, N.J., 25, 30
See ad on page 97
Tel: EAtontown 3-2000

Burroughs Corp., Electronic Tube Div., N.J., Visual Indicator & Beam Switching Tubes

CBS-Hytron Div., Mass., 25, 30

Canadian GE Co., Ltd., Canada, 5, 15, 25, 30, 35

Cathodeon Ltd., England, 20

Central Electronic Mfg. Inc., N.J., 5

Chatham Electronics, N.J., 25, 30

Continental Electric Co., Ill., 10, 15, 20, 25

62. Vacuum Tubes, Special Purpose.

Dumont Labs., Inc., A. B., Industrial Tubes Sales, N.J., 15, 25

E A K Research Labs., N.Y., 10, 35

E M I Electronics Ltd., England, 15, Photo Multipliers

Edgerton, Germeshausen & Grier, Inc., Mass., 15

Electron-Radar Products, Ill., 15

Electronic Enterprises, Inc., N.J., 25

Electronic Products Co., N.Y., 10, 30

Electronics Corp. of America, Mass., Photo Conductors

Electrons, Inc., N.J., 25

Ericsson Corp., L. M., See State Labs.

Etelco Ltd., England, 30, & Cold Cathode

Farnsworth Electronics Co., Ind., 15

Ferranti Electric, Inc., N.Y., 5, 35

General Dynamics Corp. Stromberg-Carlson Div., N.Y., Cathode-Ray, Shaped Beam



High Gm Tetrode—From LM Ericsson!

The type 7150 is a tetrode for use from audio frequencies up to about 300 Mc/s. It may also be used in a triode connection, where it is very useful as a low noise input amplifier. Below are partial characteristics for typical operation.

Tetrode Operation	
Heater Voltage	6.3 volts
Heater Current	450 milliamps
Plate Supply Voltage	135 volts
Cathode Bias Resistor	260 ohms
Plate Current	26 milliamps
Transconductance	34,000 umhos
Triode Operation (grounded grid)	
Heater Voltage	6.3 volts
Heater Current	450 milliamps
Plate Supply Voltage	125 volts
Cathode Bias Resistor	33 ohms
Plate Current	34 milliamps
Transconductance	47,000 umhos.

For complete information write LM Ericsson's U.S. agents

STATE LABS, INC.
649 Broadway, New York 12, N.Y. ORegon 7-8400

For details, circle #612 on Reader Service Card



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THE VICTOREEN INSTRUMENT COMPANY

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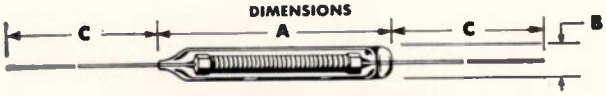
GLASS-SEALED DEPOSITED CARBON RESISTORS

RESISTOR DATA CHART

TYPE	RESISTANCE	TOLERANCE	VOLTAGE COEF. % / V	TEMP. COEF. % / °C	MAX. W.V.	WATTAGE	MAX TEMP. °C	DIMENSIONS A (MAX)	DIMENSIONS B (MAX)	DIMENSIONS C (MIN)
RX2	1 Meg to 50 Meg	1,2,5,10,20 Note 1	—.0002	—0.08	3000	1	125	2	.413	1½
RX3	1 Meg to 200 Meg	1,2,5,10,20 Note 2	—.0002	—0.08	10,000	3	125	3⅛	.413	1½
RX4	200 ohm to 50 Meg	1,2,5	—.0002	—0.05	800	5	200	2	.413	1½
RX5	200 ohm to 200 Meg	1,2,5 Note 3	—.0002	—0.05	2000	10	200	3⅛	.413	1½
RX8	100 ohm to 10 Meg	1,2,5	—.0002	—0.05	750	2	200	1½	.240	1⅜

NOTE: 1: 1% and 2% tolerance available only below 20 meg.
2: 1%, 2% and 5% tolerance available only below 100 meg.
3: 1% and 2% tolerance available only below 100 meg.

DIMENSIONS



HI-MEG RESISTORS

GLASS SEAL: HI-MEGS are vacuum sealed in a glass envelope which is treated with a special silicone varnish which keeps the resistor relatively free from the effects of moisture.

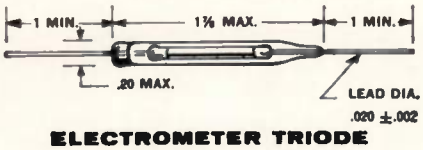
RESISTANCE: HI-MEG resistors are available in values from 10^8 to 10^{14} ohms.

TOLERANCE: HI-MEG resistors can be supplied in the following tolerances: 1% below 10^{12} ohms, 2% and 5% below 10^{13} ohms, and 10% over the entire range.

MAXIMUM WORKING VOLTAGE: 1000 volts.

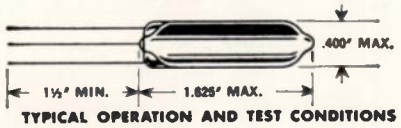
MAXIMUM OPERATING AMBIENT TEMPERATURE: 100° C.

POWER RATING: The power rating for any HI-MEG resistor is equal to one divided by the resistance in megohms.



ELECTROMETER TRIODE

VX-55



TYPICAL OPERATION AND TEST CONDITIONS

E_f	1.25	Volts	I_p	95	μa
I_f	10.0	ma	G_m	110	μmho
E_g	7.5	Volts	I_g	5×10^{-14}	amp
E_g	—2.2	Volts	M_u	2.1	

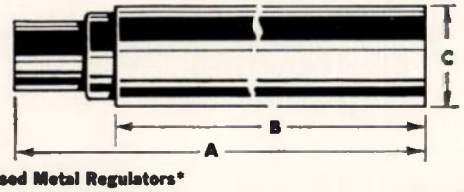
ELECTROMETER TETRODE

5800/VX-41A

AS A TETRODE ELECTROMETER

Plate Voltage	+4.5	Volts	Transconductance	15	μmhos
Accelerator Grid Voltage (g_1)	+3.4	Volts	Plate Current	12	μa
Control Grid Voltage (g_2)	—3	Volts	Accelerator Grid Current	300	μa
Amplification Factor	1		Control Grid Current	10^{-15}	Amp

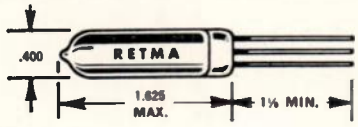
CORONA TYPE VOLTAGE REGULATORS



Commonly Used Metal Regulators*

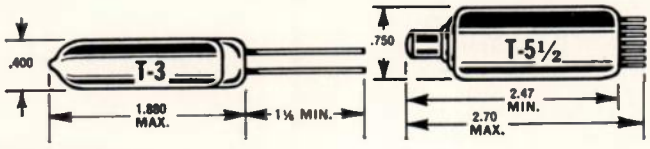
TYPE	VOLTAGE RANGE	TOLERANCE	NOM. TEST POINT	CURRENT MAX.	CURRENT MIN.	REGULATION 100-1000μa	DIMENSIONS A	DIMENSIONS B	DIMENSIONS C
M105B	5 KV-10 KV	±500V	500μa	1000μa	50μa	7½%	6½	5	1¼
M105	10 KV-20 KV	±500V	500μa	1000μa	100μa	10%	6½	5	1¼
M108	10 KV-20 KV	±500V	500μa	1000μa	100μa	7%	9½	8	1¼
M126	20 KV-25 KV	±500V	500μa	1000μa	100μa	10%	7½	6	1½
M128	20 KV-27 KV	±500V	500μa	1000μa	100μa	7%	9½	8	1½

CORONA TYPE VOLTAGE REGULATORS



R. E. T. M. A. Types

TYPE	NOM.	TOLERANCE	NOM. TEST PT.	CURRENT IN μa MIN.	CURRENT IN μa MAX.	CURRENT IN μa PEAK	REGULATION VOLTS	REGULATION CURRENT RANGE
5950	700V	± 15V	25μa	5	100	150	14V	5-100μa
5841	900V	± 18V	25μa	5	100	150	18V	5-100μa
6143	1200V	± 24V	25μa	10	100	150	24V	5-100μa
6119	2000V	±100V	25μa	15	100	150	40V	5-100μa

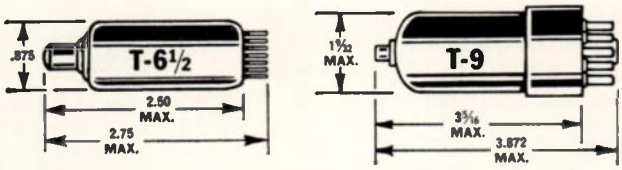


Commonly Used Models in T-3 Size*

TYPE	NOM. TEST PT.	TOLERANCE	NOM.	CURRENT IN μa MIN.	CURRENT IN μa MAX.	CURRENT IN μa PEAK	REGULATION VOLTS	REGULATION CURRENT RANGE
GV3B-400	50μa	±10V	400V	5	150	300	15V	5-150μa
GV3B-600	50μa	±10V	600V	5	150	300	20V	5-150μa
GV3A-900	50μa	±15V	900V	10	250	350	25V	10-250μa
GV3A-1200	50μa	±30V	1200V	10	250	400	40V	10-250μa
GV3A-1500	50μa	±30V	1500V	15	300	500	50V	15-300μa
GV3A-2000	50μa	±50V	2000V	15	300	500	75V	15-300μa

Commonly Used Models in T-5½ Size*

TYPE	NOM.	TOLERANCE	NOM. TEST PT.	CURRENT IN μa MIN.	CURRENT IN μa MAX.	CURRENT IN μa PEAK	REGULATION VOLTS	REGULATION CURRENT RANGE
GV5B-700	700V	±20V	100μa	10	250	350	25V	10-250μa
GV5B-900	900V	±25V	100μa	10	300	500	30V	10-300μa
GV5B-1000	1000V	±30V	100μa	10	300	500	35V	10-300μa
GV5A-1200	1200V	±36V	100μa	10	400	600	40V	10-400μa
GV5A-2200	2200V	±65V	100μa	20	800	1000	50V	20-800μa
GV5A-3000	3000V	±90V	100μa	30	1000	1200	75V	30-1000μa



Commonly Used Models in T-6½ Size

TYPE	NOM. VOLTAGE	TOLERANCE	NOM. TEST PT.	CURRENT IN μa MIN.	CURRENT IN μa MAX.	CURRENT IN μa PEAK	REGULATION**
GV6A-450	450	±11V	500μa	20	1000	1300	30V
GV6A-1000	1000	±25V	500μa	30	1000	1500	42V
GV6A-2500	2500	±65V	500μa	50	1500	3500	100V
GV6A-3000	3000	±75V	500μa	50	1000	3500	70V

**This regulation is the change in voltage over the useful range of current from MIN. to MAX.

Commonly Used Models in T-9 Size

TYPE	NOM. VOLTAGE	TOLERANCE	NOM. TEST PT.	CURRENT IN μa MIN.	CURRENT IN μa MAX.	CURRENT IN μa PEAK	REGULATION**
GV9A-600	600	±15V	1000μa	50	1500	2000	25V
GV9A-1000	1000	±25V	1000μa	50	1750	2200	45V
GV9A-2000	2000	±50V	1000μa	50	3500	4200	80V
GV9A-3000	3000	±75V	1000μa	50	2700	7000	110V

**This regulation is the change in voltage over the useful range of current from MIN. to MAX.

*T-3 size voltage regulators are available in any desired nominal voltage ±2% from 400 volts to 2000 volts at the customary test point of 50 ua. T-5½ size voltage regulators are available in any desired nominal voltage ±3% from 400 volts to 6000 volts at the nominal test point at 100 ua. Metal regulators are available in any desired voltage ±500 volts from 7½ KV. to 27½ KV. at the customary test point of 500 ua. All other characteristics such as maximum and minimum currents, regulation, etc., may be interpolated from the table.

For details, circle #415 on Reader Service Card

Directory II. Components

62. Vacuum Tubes, Special Purpose.

General Electric Co., Power Tube Dept., Bldg. 267, Schenectady 5, N.Y., 25
See ad on page 450
Tel: FRanklin 4-2211
General Electric Co., Receiving Tube Dept., Ky., 25
General Electric Co., X-Ray Dept., Wis., 35
General Electric Co. of England Ltd., N.Y., 5, 10, 25, 30
General Electronics, Inc., N.J., 25, 30, Photo Flash
General Electronics, Inc., N.J., 25
Glass Engineering Labs., Calif., Glass Apparatus
Gordos Corp., N.J., 15
Grimson Color, Inc., N.Y., Reticle Tubes
Industrial Tubes, Inc., Ill., 25
International Telephone & Telegraph Corp., ITT Components Div., P.O. Box 412, Clifton, N.J., 25
See ad on page 182
Tel: NUtley 2-3600
Kemlite Labs., Inc., Ill., 25, 35, & Flash Tubes
Kip Electronics Corp., 29 Holly Pl., P.O. Box 562, Stamford, Conn., 25, Electron Tubes
See ad on page 447
Tel: DAvis 5-1551
Kuthe Labs., Inc., N.J., 25
Landsverk Electrometer Co., Calif., 10
Machlett Labs., Inc., Conn., 35
Mackay Research Labs., Ill., 15, 25, 35, Lead Sulphide Glow Flashtubes
Metropolitan Overseas Supply Corp., N.Y., 5, 10, 15, 20, 25, 30, 35
Minneapolis-Honeywell Reg. Co., Mil. Prods. Group, Minn., Infrared
Mullard Overseas, Ltd., England, 5, 10, 15, 25, 30
Multi-Tron Lab., Inc., Ill., 10, 30, 35
National Electronics, Inc., Ill., 25, Ignitrons
National Union Electric Corp., Ill., 30
Nuclear Corp. of America, Inc., Mo., 10, 15
Nuclear Corp. of America, Inc., N.Y., 10, 25
Nucleonic Corp. of America, N.Y., 10
OK Electronics Corp., N.J., 30
Penta Labs., Inc., Calif., 25
Practical Electronics Mfg. Co., Ill., 15
Radiation Research Corp., N.Y., 30
Radio Corp. of America, Electron Tube Div., Section I-20-Q, 415 S. Fifth St., Harrison, N.J., 15, 25, 30
See ad on pages 113-116
Tel: HUmboldt 5-3900
Rank Cintel Ltd., England, 15
Raytheon Mfg. Co., Receiving Tube & Semiconductor Operations, Mass., 5, 10, 25, 30
Resitron Labs., Inc., Calif., 35
Rogers Electronic Tubes & Components, Canada, 5, 10, 15, 25, 30
Scientific Electronic Labs., Inc., 866 Bergen St., Newark 8, N.J., 20
See ad on page 591
Tel: BIgelow 3-8675
Signalite, Inc., N.J., 30
State Labs., Inc., 649 Broadway, New York 12, N.Y., 15, 25, 30
See ad on page 447
Tel: ORegon 7-8400
Superior Electric Co., The, 8000 Lee Ave., Bristol, Conn., 30
See ad on pages 36-40
Tel: LUdlow 2-9561
Sylvania Electric Products Inc., 1740 Broadway, New York 19, N.Y., 20, 25, 30
See ad on pages 25-30
Tel: JUdson 6-2424
Technical Apparatus Builders, 109 W. Liberty St., New York 6E, N.Y., 25, 30
See ad on page 384
Tel: REctor 2-6248
Triplett & Barton, Inc., Calif., 35
Tung-Sol Electric, Inc., 95 Eighth Ave., Newark 4, N.J., 5, 25, 30
See ad on pages 82-83
Tel: HUmboldt 2-4200

Classifications with a System!

THE IRE Directory Product Classifications have both a pattern and a purpose. They differ widely from most product indexes, deliberately. They aim to organize the hundreds of products and services of a complex technical industry according to the way engineers think. To this end, the product grouping follows the pattern of the IRE Professional Groups, broadly. The result is a division of all products and services into four fundamental indexes into which 100 basic classifications have been organized.

For detailed identification, these 100 products and services, grouped in the 4 indexes, are further defined into 852 named products. We have tried to avoid oversimplification, and a tremendous amount of information is given by our product number system. But, the basic indexing adds speed. Purely alphabetical directories are as slow and cumbersome as a telephone book. IRE engineers have liked our system better!

You will note that we here differ from most directory compilers, for we do not mix meters with motors simply for alphabetical reasons. Products used in "Communications" whether components or complete apparatus form the first fundamental group. Yet, the same manufacturer and product may also appear in the "Component Parts" section. This system gives subject grouping for speed and convenience. A directory should aid a man who has forgotten some detail, or product name. Ours helps by grouping products as one would *think*.

For safety, an alphabetical "terminology" index is given, preceding the product system in the pink pages introducing the company index. You will note also that after each firm, its products are listed by number code in the alphabetical list, and that sub-classifications shown by number code in the product indexes give much detail. Just a little study of the system will help you get great good from this book.

The IRE DIRECTORY is four directories in one

POWER TUBES
Planar-Lighthouse Types

Class of Service	Frequency for Max. Ratings —Megacycles	Typical Performance
Class A RF Amplifiers		
GL-2C40	3370	8.5 db noise, 15 db gain at 700 mc
GL-2C40-A	3370	8.5 db noise, 15 db gain at 700 mc
Class A_1 Amplifiers		
GL-6299 (ceramic)	3000	13.2 db noise, greater than 10 db gain 8.2 db noise at 1200 mc, greater than 15 db gain 4 to 5 db noise at 400 mc, greater than 17 db gain
Class C RF Amplifiers and CW Oscillators		
GL-2C40	3370	0.075 watts output
GL-2C40-A	3370	0.075 watts output
GL-2C43	1500	frequency multiplier service—tripling to 300 mc two tubes in push-pull—4.4 watts output
GL-6442 (ceramic)	2500	2.0 watts output
GL-6897 (ceramic)	2500	17 watts output 40 watts output at 500 mc
Plate-pulsed Power Oscillators		
GL-2C40-A	3370	300 watts peak output at 3000 mc
GL-2C43	3370	1.75 kilowatts peak output
GL-6442 (ceramic)	4000	2.0 kilowatts peak output at 3500 mc

For application assistance and for delivery and price information on the above types and on other G-E Power Tubes, call or wire your Power Tube representative.

EASTERN REGION SALES OFFICE
General Electric Co.—Power Tube Sales
200 Main Avenue, Clifton, N. J.
Telephone: (Clifton) GRegory 3-6387
(Calls may be made from New York City direct by dialing WIsconsin 7-4065)
H. W. COLE W. R. RATE

CENTRAL REGION SALES OFFICE
General Electric Co.—Power Tube Sales
3800 N. Milwaukee Ave., Chicago 41, Ill.
Telephone: SPring 7-1600
H. W. A. CHALBERG R. L. HANNA

WESTERN REGION SALES OFFICE
General Electric Co.—Power Tube Sales
11840 West Olympic Boulevard
Los Angeles 64, California
Telephone: GRanite 9-7765
BRadshaw 2-8566
A. H. PHILLIPS

GOVERNMENT SALES OFFICE
General Electric Co.—Power Tube Sales
Building 267—Schenectady, N. Y.
Telephone: FRanklin 4-2211
C. W. HAMAKER W. F. McKEEHAN

POWER TUBE DEPARTMENT

GENERAL ELECTRIC

9545-8481-13

SCHENECTADY 5, NEW YORK

For details, circle #416 on Reader Service Card

Directory II. Components

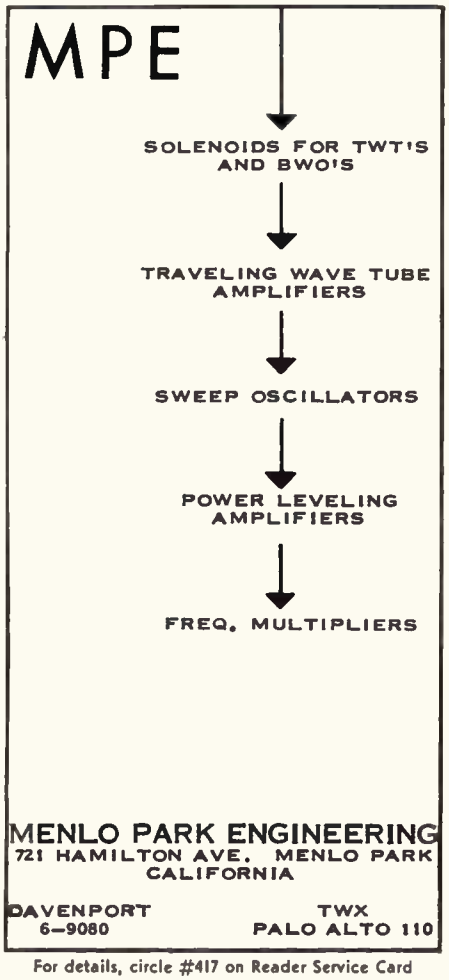
62. Vacuum Tubes, Special Purpose.

United Electronics Co., N.J., 25
Vacuum Tube Prods. Co., Inc., Calif., 20, 25
Veeco Vacuum Corp., 86-K Denton Ave., New Hyde Park, L.I., N.Y., 20
See ad on page 576
Tel: PIoneer 6-1161
Victoreen Instrument Co., 5806 Hough Ave., Cleveland 3, Ohio, 5, 10, 30
See ad on page 448
Tel: ENdicott 1-6200
Western Radiation Lab., Calif., 10, 15
Westinghouse Electric Corp., Pa., 22, 35
Westinghouse Electric Corp., N.Y., 15, 20, 25, 35

63. Vacuum Tubes, Transmitting.

5. ATR & TR types
10. Air-cooled power tubes
15. Iconoscopes
20. Image orthicons
25. Klystrons
30. Magnetrons
35. Monoscope tubes
40. Traveling wave
45. Water-cooled power tubes

American Radio Co., Inc., N.Y., 25, 30, 40, Carcinotrons
Amperex Electronic Corp., 230 Duffy Ave., Hicksville, L.I., N.Y., 10, 25, 30, 45
See ad on pages 72-73
Tel: WElls 1-6200
Applied Radiation Corp., Calif., 25
Bendix Aviation Corp., Red Bank Div., Electron Tube Section, Route #35, Eatontown, N.J., 25, 40
See ad on page 97
Tel: EAtontown 3-2000
Bomac Labs., Inc., Salem Rd., Beverly, Mass., 5, 25, 30, Reference cavities & shutter
See ad on pages 64-65
Tel: WAlker 2-6000
Borg-Warner Corp., Pesco Prods. Div., Ohio, 30, Cooling Packages
CBS-Hytron Div., Mass., 10
Canadian GE Co., Ltd., Canada, 5, 10, 15, 20, 25, 30, 35, 40, 45
Cascade Research, Calif., 10
Cathodeon, Ltd., England, 20, 35, Vidicons
Central Electronic Mfg., Inc., N.J., 5, 10, 45
Concord Control, Inc., Mass., 15, 25
DeMornay-Bonardi, 780 S. Arroyo Pkwy., Pasadena, Calif., 40
See ad on pages 50-51
Tel: SYcamore 2-4142
Diamond Power Specialty Corp., Ohio, 20
Dumont Labs., Inc., A. B., Industrial Tubes Sales, N.J., 35
E M I Electronics, Ltd., England, 10, 20, 25, 30
Eitel-McCullough, Inc., 798 San Mateo Ave., San Bruno, Calif., 10, 25, 40, 45
See ad on pages 68-69
Tel: JUno 8-1212
Electronic Enterprises, Inc., N.J., 10
Electronic Tube Corp., Pa., 35
Ericsson Corp., L. M., See State Labs
Ferranti Electric, Inc., N.Y., 5, 25, 30
Ferranti Electric, Ltd., Canada, 5, 25, 30
Freeland Products Co., La., 10, 45
Geisler Labs., Calif., 25, 40, Backward Wave Oscillator
General Electric Co., Power Tube Dept., Bldg. 267, Schenectady 5, N.Y., 10, 20, 25, 30, 40, 45
See ad on page 450
Tel: FRanklin 4-2211
General Electronics, Inc., N.J., 10
Huggins Labs., Inc., Calif., 40, Backward Wave Amp. Oscillators
Hughes Products, Hughes Aircraft Co., Calif., 40
Industrial Tubes, Inc., Ill., 10
International Telephone & Telegraph Corp., ITT Components Div., P.O. Box 412, Clifton, N.J., 10, 40, 45
See ad on page 182
Tel: NUtley 2-3600
Land-C-Air Sales Co., N.Y., 40
Lewis & Kaufman, Ltd., Calif., 10
Litton Industries, Inc., Calif., 10, 25, 30, 40, 45



For details, circle #417 on Reader Service Card

Litton Industries, Calif., 25, 30, 40
Machlett Labs., Inc., Conn., 10, 20, 45
Mackay Research Labs., Ill., 30
Marconi Instruments, 111 Cedar Lane, Englewood, N.J., 40
See ad on page 502
Tel: LOwell 7-0607
Menlo Park Engineering, 721 Hamilton Ave., Menlo Park, Calif., 40
See ad on this page
Tel: DAvenport 6-9080
Metropolitan Overseas Supply Corp., N.Y., 5, 10, 15, 20, 25, 30, 35, 40, 45
Microwave Assoc., Inc., Mass., 5, 30
Minneapolis-Honeywell Reg. Co., Military Prods. Group, Minn., 5
Mullard Overseas, Ltd., England, 10, 25, 30, 40, 45
National Union Electric Corp., Ill., 35
Nuclear Corp. of America, Inc., N.Y., 5, 10, 45
Penta Labs., Inc., Calif., 10
Philips Electronics, Inc., Instrument Div., N.Y., X-Ray Tubes & Rectifiers
Philips Labs., Div. North American Philips, N.Y., 25, 30, 40
Radio Corp. of America, Defense Electronics Prod., N.J., 5, 10, 20, 30, 40, 45
Radio Corp. of America, Electron Tube Div., Section I-20-Q, 415 S. Fifth St., Harrison, N.J., 10, 15, 20, 25, 30, 35, 40, 45
See ad on pages 113-116
Tel: HUmboldt 5-3900
Radio Research Instrument Co., N.Y., 25
Raytheon Mfg. Co., Microwave & Power Tube Div., Section PT-07, Foundry Ave., Waltham 54, Mass., 25, 30, 40, Backward Wave Oscillator
See ad on page 452
Tel: TWinbrook 3-5860
Raytheon Mfg. Co., Mass., 5
Resitron Labs., Inc., Calif., 30
Rogers Electronic Tubes & Components, Canada, 5, 10, 15, 20, 25, 30, 40, 45
Scala Radio Co., Calif., 75
Sperry Electronic Tube Div., Fla., 25, 40
Sperry Gyroscope Co., Electronic Tube Div., N.Y., 25, 40
State Labs., Inc., 649 Broadway, New York 12, N.Y., 10, 25, 30, 40, 45
See ad on page 447
Tel: ORegon 7-8400
Stewart Engineering Co., Calif., Backward Wave Oscillator Tubes
Sylvania Electric Products Inc., 1740 Broadway, New York 19, N.Y., 5, 25, 30, 40
See ad on pages 25-30
Tel: JUdson 6-2424
Tung-Sol Electric, Inc., 95 Eighth Ave., Newark 4, N.J., 10
See ad on pages 82-83
Tel: HUmboldt 2-4200
United Electronics Co., N.J., 10

(Continued on page 453)

RAYTHEON

THE WORLD'S LARGEST PRODUCERS OF MAGNETRONS AND KLYSTRONS

REFLEX KLYSTRON OSCILLATORS
Self-Contained and External Cavity

Tube Type	Maximum Frequency Range Megacycles	Power Output Milliwatts Ave.	Power Output Milliwatts Min.	Resonator Potential D.C. Volts	Focus or Control Grid Potential D.C. Volts	Maximum Temperature Coef. MC/C°	Filament Current at 6.3 V Amps	†
5837	550-3800	160	50	325	10	.....	0.675	1A
		40	15	300				
RK-5777	600-2350	160	100	400	0 to 5	.15	0.985	1A
707B	1500-3750	140	80	300	300	±.15	0.650	1A
		80	.....	300	300			
2K28 A	1500-3750	140	95	300	300	±.15	0.650	1A
5981	1245-1460	100	40	225	.....	±.05	0.455	2C
RK-5778	1800-4620	150	100	300	—5 to 5	.15	0.985	3A
6BL6	1600-4000	121	.....	300	0	.....	0.675	1A
	2000-4500	45	25	300	0	.....	0.675	1A
	3600-5500	72	25	300	0	.....	0.675	1A
5836	1600-5500	121	.....	300	10	.....	0.675	1A
		45	25					
5721	2000-12,000	150	50	1000	4 to 18	±.040	0.580	1A
		125	100	1000	4 to 18	±.025	0.580	3A
		40	20	1250	4 to 18	±.040	0.580	
6236	3800-7600	125	90	1000	4 to 18	±.1	0.580	
726-C	2700-2960	100	85	300	.....	—.1 to +.05	0.440	2C
6043	2950-3275	175	150	300	300	±.15	0.650	1A
		50	25	250	250			
2K29	3400-3960	106	85	300	.....	—.1 to +.05	0.440	2C
2K56	3840-4460	100	80	300	.....	—.1 to +.05	0.440	2C
QK-381	4100-4450	4.5	3.0	250	.....	—.10 to +.05	0.440	2C
2K22	4240-4910	115	75	300	.....	—.1 to +.05	0.440	2C
2K48	4000-11,000	.....	5	1250	.....	.....	0.575	1A
		.....	5	1250	.....	.....	0.575	3A
		.....	20					
		.....	20	1250	.....	.....	0.575	
6115A	5100-5900	100	70	300	.....	—.10 to +.05	0.440	2C
QK-412	5100-5900	100	70	300	.....	—.10 to +.10	0.440	2C
RK-6037	5120-5430	30	20	300	0 to —200	.....	••	4C
QK-549	5925-6450	120	100	300	.....	—.1 to +.1	0.440	2C
QK-461	5925-6450	120	100	300	.....	±0.1	.440	2C
QK-404	5925-6450	120	100	300	.....	—.10 to +.10	0.440	2C
5976	6200-7425	110	85	300	.....	—.10 to +.10	0.440	2C
QK-531	6575-6875	110	85	300	.....	—.1 to +.1	0.440	2C
2K26	6250-7060	150	100	300	.....	±0.1	.440	2C
QK-422	7125-8125	100	80	300	.....	0 to —.20	0.440	2B
RK-6390	6870-10,750	80	55	1250	2 to 16	±.025	0.580	1A
		80	55					3A
QK-532	6875-7125	110	85	300	.....	—.1 to +.1	0.440	2A
QK-623	7125-7650	110	85	300	.....	—.1 to +.1	0.440	2A
2K25	8500-9660	32	20	300	.....	0 to —.20	0.440	2B
		22	15					
2K45	8500-9660	32	20	300	—35 to +15	.....	0.762	4B
6116	8500-9660	32	20	300	0 to —270	.....	••	4B
6940	8500-9660	32	20	300	0 to —280	.....	••	4A
QK-414	9660-10,250	20	15	300	.....	—.10 to +.10	0.440	2B
QK448	12,000-13,800	85	50	300	.....	±.05	0.675	2B
QK-510	12,000-13,800	85	50	300	.....	±.05	0.675	2B
RK-6178	15,750-16,250	25	20	300	.....	—.20 to —.60	0.675	2B
QK-246	15,000-16,200	51	20	1500	—20 to —120	.....	0.580	2B
RK-6573	15,500-17,000	25	20	300	.....	—.20 to —.60	0.675	2B
RK6310	8500-10,000	70	50	300	.....	0 to —.20	1.20	2B
RK6312	8500-10,000	70	50	300	.....	0 to —.20	1.20	2B
RK6316	8500-10,000	70	50	300	.....	0 to —.20	1.20	2B
QK-306	18,000-22,000	40	10	1800	—20 to —100	—1.0	0.580	2B
*RK6253	18,000-22,000	40	10	1800	—20 to —100	—1.0	0.580	2B
2K33	22,000-25,000	40	10	1800	—20 to —100	—1.0	0.580	2B
*RK6254	22,000-25,000	40	10	1800	—20 to —100	—1.0	0.580	2B
QK-463	24,500-27,500	40	10	1800	—20 to —125	—1.0	0.580	2B
QK-289	§27,270-30,000	20	10	2250	—20 to —250	To be Specified	0.580	2B
QK-290	§29,700-33,520	20	10	2250	—20 to —250	To be Specified	0.580	2B
QK-291	§33,520-36,250	18	5	2250	—20 to —250	To be Specified	0.580	2B
QK-288	34,300-35,300	20	10	2250	—50 to —180	—1.5 to —3.5	0.580	2B
QK-292	§35,100-39,700	10	5	2250	—20 to —200	To be Specified	0.580	2B
QK-293	34,900-42,800	5	.....	2500	—20 to —200	To be Specified	0.580	2B
QK-294	40,000-51,800	5	.....	3000	—20 to —200	To be Specified	0.580	2B
QK-295	•	To be Spec.		3500	—20 to —200	To be Specified	0.580	2B

1 = Mechanical Inductive
2 = Mechanical Capacitive
3 = Non-Contacting Plunger
4 = Thermal Capacitive

• 2 Tubes Necessary to Cover From 50,000 to 60,000 Mc

A = Coaxial Cable
B = Waveguide
C = Coaxial to Waveguide
* With UG/425/U Output Flange
§ Typical Operating Range

•• Klystron-.470 Tuner .825

MAGNETRON OSCILLATORS
for Pulse and CW Operation

Type No.	Heater Volts	Heater Amps	Band or Range Mc.	Maximum Ratings Anode Kv	Maximum Ratings Anode Amps	Maximum Ratings Duty Cycle	Class*	Typical Operation Min. Power Pk Kw
RK4J30	23.5	2.2	1220-1232	30.0	60.0	.002	2	600.0
RK5J26	23.5	2.2	1220-1350	31.0	60.0	.002	3	400.0
RK6517	2.5	85.0	1250-1350	70.0	60.0	.0013	3	1000.0
QK264	3.0	85.0	1250-1350	75.0	100.0	.0012	3	2000.0
QK470	3.0	85.0	1250-1350	75.0	100.0	.0012	3	2000.0
QK390	8.0	35.0	2420-2490	6.2	.375	CW	5	.80
RK5609A	6.3	1.5	2425-2475	1.6	0.15	CW	5	0.08
RK5586	16.0	3.1	2700-2900	32.0	70.0	.001	3	700.0
RK6518	13.0	40.0	2700-3010	45.0	92.0	.0007	2	1500.0
RK6410	8.3	85.0	2750-2860	76.0	135.0	.001	2	4500.0
RK6406	8.3	85.0	2850-2910	56.0	95.0	.0006	2	1750.0
RK2J69	6.3	1.5	2695-2755	20.0	25.0	.001	3	150.0
RK2J68	6.3	1.5	2745-2805	20.0	25.0	.001	3	150.0
RK2J67	6.3	1.5	2795-2855	20.0	25.0	.001	3	150.0
RK2J66	6.3	1.5	2845-2905	20.0	25.0	.001	3	150.0
RK2J34	6.3	1.5	2700-2740	22.0	30.0	.002	2	285.0
RK2J33	6.3	1.5	2740-2780	22.0	30.0	.002	2	285.0
RK2J32	6.3	1.5	2780-2820	22.0	30.0	.002	2	285.0
RK2J31	6.3	1.5	2820-2860	22.0	30.0	.002	2	285.0
RK2J30	6.3	1.5	2860-2900	22.0	30.0	.002	2	285.0
RK4J35	16.0	3.1	2700-2740	30.0	70.0	.001	2	900.0
RK4J34	16.0	3.1	2740-2780	30.0	70.0	.001	2	900.0
RK4J33	16.0	3.1	2780-2820	30.0	70.0	.001	2	900.0
RK4J32	16.0	3.1	2820-2860	30.0	70.0	.001	2	900.0
RK4J31	16.0	3.1	2860-2900	30.0	70.0	.001	2	900.0
RK5657	16.0	3.1	2900-3100	32.5	70.0	.001	3	700.0
RK2J29	6.3	1.5	2914-2939	22.0	30.0	.002	2	275.0
RK2J28	6.3	1.5	2939-2965	22.0	30.0	.002	2	275.0
RK2J27	6.3	1.5	2965-2992	22.0	30.0	.002	2	275.0
RK2J26	6.3	1.5	2992-3019	22.0	30.0	.002	2	275.0
RK2J25	6.3	1.5	3019-3047	22.0	30.0	.002	2	275.0
RK2J24	6.3	1.5	3027-3071	22.0	30.0	.002	2	275.0
RK2J23	6.3	1.5	3071-3100	22.0	30.0	.002	2	275.0
RK4J44	16.0	3.1	2965-2992	30.0	70.0	.001	2	900.0
RK4J43	16.0	3.1	2992-3019	30.0	70.0	.001	2	900.0
RK4J61	6.3	3.5	2450-2720	1.5	0.15	CW	1	0.05
RK4J62	6.3	3.5	2695-3015	1.5	0.15	CW	1	0.05
RK4J63	6.3	3.5	2985-3335	1.5	0.15	CW	1	0.05
RK4J64	6.3	3.5	3305-3675	1.5	0.15	CW	1	0.05
RK2J70	6.3	1.25	3030-3110	7.5	15.0	.002	2	20.0
RK2J71	6.3	1.25	3190-3201	5.5	8.0	.002	2	6.0
RK4J41	16.0	3.1	3400-3450	30.0	70.0	.001	2	750.0
RK6402	8.3	43.0	3430-3570	57.0	55.0	.0016	3	700.0
RK6403	8.3	43.0	3430-3570	65.0	90.0	.0014	3	2000.0
RK6695	16.0	3.1	3430-3570	33.0	65.0	.001	3	650.0
RK4J40	16.0	3.1	3450-3500	30.0	70.0	.001	2	750.0
RK4J39	16.0	3.1	3500-3550	30.0	70.0	.001	2	750.0
RK4J38	16.0	3.1	3550-3600	30.0	70.0	.001	2	750.0
RK4J37	16.0	3.1	3600-3650	30.0	70.0	.001	2	750.0
RK4J36	16.0	3.1	3650-3700	30.0	70.0	.001	2	750.0
RK6177	6.3	0.6	4268-4350	.35	.035	CW	4	.011
QK456	6.3	1.50	5360-5400	16.0	20.0	.001	2	75.0
RK6344	11.0	11.0	5450-5825	24.0	30.0	.001	3	175.0
QK313	11.0	11.0	5450-5825	27.0	30.0	.001	3	250.0
RK6843	9.5	11.0	5450-5825	26.0	30.0	.0012	1.0	250.0
QK457	5.0	.63	5500-5800	2.0	1.0	.002	3	.20
RK4J59	12.6	3.75	6375-6275	25.0	35.0	.001	2	180.0
RK4J58	12.6	3.75	6475-6375	25.0	35.0	.001	2	180.0
RK4J57	12.6	3.75	6576-6475	25.0	35.0	.001	2	180.0
RK2J51	6.3	1.0	8500-9600	16.0	16.0	.0012	3	45.0
RK2J51A	6.3	1.0	8500-9600	16.0	16.0	.0012	3	45.0
RK6249	9.0	14.4	8500-9600	32.0	32.0	.0013	3	200
RK2J50	6.3	1.0	8750-8900	16.0	16.0	.0012	2	40.0
RK6229	5.0	.45	8900-9400	5.0	1.0	.003	3	0.40
RK6230	5.0	.45	8900-9400	5.0	1.0	.003	3	0.91
RK2J49	6.3	1.0	9000-9160	16.0	16.0	.0012	2	40.0
RK2J36	6.3	1.5	9003-9168	13.5	12.0	.002	2	14.0
QK367	6.3	1.0	9015-9075	16.0	16.0	.001	2	40.0
QK366	6.3	2.9	9205-9285	15.5	14.5	.001	2	75.0
RK2J56	6.3	1.0	9215-9275	16.0	16.0	.001	2	40.0
RK2J56A	6.3	1.0	9215-9275	14.0	13.0	.001	2	40.0
QK362A	5.0	.60	9300-9500	2.0	1.25	.002	3	.06
RK2J55	6.3	1.0	9345-9405	16.0	16.0	.001	2	40.0
RK6002	4.0	40.0	9230-9404	30.0	40.0	.002	2	225.0
RK5982	6.3	8.25	9320-9430	16.5	20.0	.002	2	75.0
QK172	6.0	30.0	9330-9420	36.0	50.0	.001	2	440.0
RK2J42	6.3	0.5	9345-9405	6.0	5.5	.0025	2	7.0
RK2J42H	6.3	0.5	9345-9405	6.0	5.5	.0025	2	7.0
RK730A	6.3	1.0	9345-9405	16.0	16.0	.002	2	40.0
RK725A	6.3	1.0	9345-9405	16.0	16.0	.0012	2	40.0
QK324	4.8	12	15850-16160	30	14	.0028	2	70.0
RK6841	4.0	10.5	16410-16625	18.0	16.0	.001	3.0	45.0
QK389	5.0	2.9	23750-24250	16.0	20.0	.0007	2	50.0

* Class 1 = Tunable CW
2 = Fixed Frequency-Pulsed
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4 = CW Electro-Mech. Freq. Mod.
5 = Fixed Frequency-CW

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The list shown on this page includes only part of the tube selection available to you.

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Microwave and Power Tube Division

Section 4PT-07, Waltham 54, Mass.

RAYTHEON

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Directory II. Components

63. Vacuum Tubes, Transmitting.

Varian Associates, 611 Hansen Way, Palo Alto 2, Calif., 25, 40, Backward Wave
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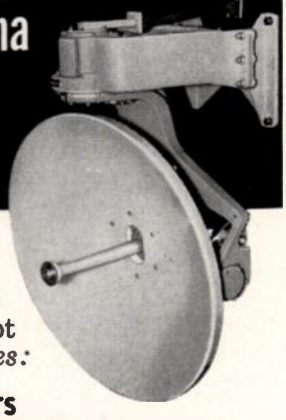
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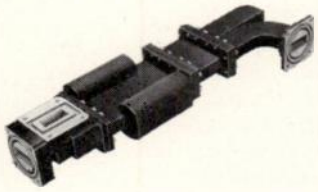
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Complete line of Microwave Components

From Magnetron Through Antenna Designed and Produced by Airtron INC.



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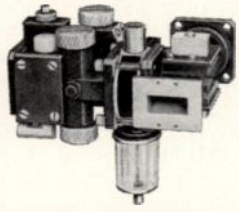
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Duplexers, waveguide switches, high and low power load isolators, variable absorption attenuators and other devices are the result of a continuous ferrite development program. All ferrite materials used are specially compounded and fired in Airtron's Ferrite Research Development Laboratory. Complete facilities permit design and production to meet any specific need.



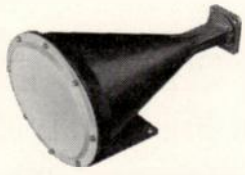
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STANDING WAVE AMPLIFIER

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- INPUT ATTENUATOR: 50 db. in steps of 5 or 10 db.
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- AMPLIFIER FREQUENCIES: Wideband, 400 cycles tunable ±5%, 1000 cycles tunable ±5%
- AMPLIFIER: Q 25 ±5
- METER SCALES: VSWR 1-4, VSWR 3-10, DB 0-10
- SIZE: 14¼" d, 8½" w, 10½" h
- PRICE: $195.00.





WWV RECEIVER

- FREQUENCIES: 2.5, 5.0, 10.0, 15.0, 20.0, 25.0 Mc
- SENSITIVITY: better than 1.0 microvolt for standard output
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- OUTPUT: 600 ohms and self contained speaker
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Voltmeters: See class 42

Voltmeters, vacuum tube: See class 72

Washers: See class 87

Wattmeters: See class 42

66. Waveguides & Accessories.

3. Cavities
5. Couplings
10. Crystal-detectors
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25. Duplexers
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60. Rotary joints
65. Sampling lines, reflectors, etc.
70. Switches
75. Terminations
80. Transmission lines
82. Unfinished castings

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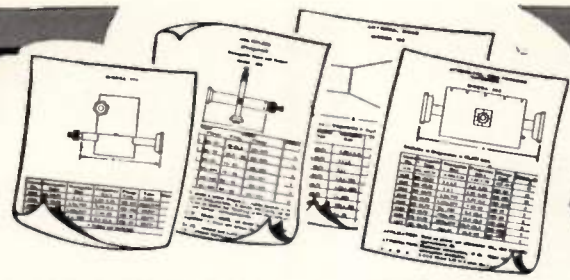
66. Waveguides & Accessories.

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Code numbers shown after each firm refer to product or service sub-classes listed at the beginning of each major classification. Complete addresses will be found in the Alphabetical Directory.

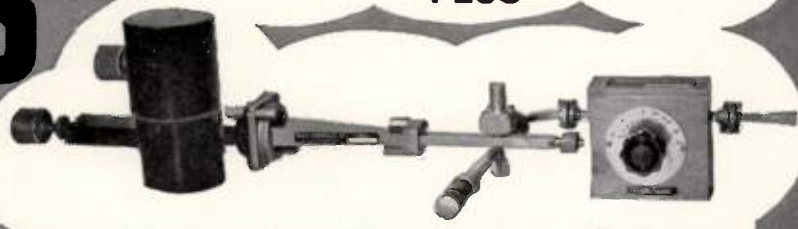
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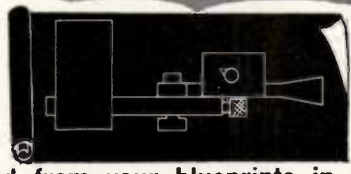
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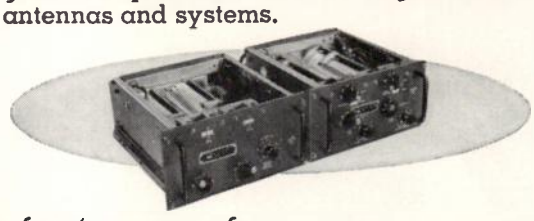
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WAVEGUIDE SECTOR SCAN ROTARY JOINTS

LIECO announces a series of Step Twist Rotary Joints for scanning a ± 90° sector. These sector scan joints are broadband, covering the entire usable waveguide frequency band (approximately 40%). The maximum VSWR is below 1.15. For narrower bandwidths the VSWR can be held well below 1.10. The sector scan joints are short, have input and output on the same axis and are capable of being pressurized. LIECO is producing these units in all standard waveguide sizes in the frequency range from 2.60 to 40.0 kmc. The joints can be supplied fabricated from either brass or aluminum. Sector Scan Joints for particular requirements will be produced to your specifications.

SPECIFICATIONS

MODEL NO.	WAVEGUIDE RG-( )/U	TERMINATING FLANGES CHOKE UG-( )/U	TERMINATING FLANGES COVER* UG-( )/U	FREQUENCY BAND kmc/s.	APPROX. LENGTH Inches
27EI	48	54A	53	2.60-3.95	6 7/8
27FI	49	148B	149A	3.95-5.85	4
27GI	50	343A	344	5.85-8.20	3
27HI	51	52A	51	7.05-10.0	2 9/16
27JI	52	40A	39	8.20-12.4	2 1/4
27KI	91	541	419	12.4-18.0	1 1/2
27LI	53	596	595	18.0-26.5	1 1/8
27MI	96	599	599	26.5-40.0	15/16

*Cover type flange with threaded bolt holes. Mating flange shall be a choke with clearance bolt holes.

LIECO INC.

Request Catalog No. 5-6A
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Directory II. Components

66. Waveguides & Accessories.

Frequency Standards, Inc., P.O. Box 504, Asbury Park, N.J., 3, 20, 25, 40
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Tel: PRospect 4-0500

G B Electronics Corp., subsid. of General Bronze Corp., Hook Creek Blvd., Valley Stream., L.I., N.Y., 3, 5, 15, 20, 35, 40, 50, 55, 60, 65, 70, 75, 80, 82
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Tel: LOcust 1-1125

Gabriel Electronics Div., Gabriel Co., 135 Crescent Rd., Needham Heights 94, Mass., 15, 20, 35, 40, 60
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Tel: NEedham 3-0005

Gar Precision Parts, Inc., Conn., 3, 5, 10, 15, 20, 25, 35, 40, 43, 45, 50, 55, 60, 65, 70, 75, 80, 82

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Gorham Mfg. Co., 333 Adelaide Ave., Providence 7, R.I., 3, 5, 20, 25, 35, 40, 55, 60, 75, 82
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Tel: WIlliams 1-1000

Gramatan Instrument Co., N.Y., 3, 5, 10, 15, 20, 25, 35, 40, 45, 50, 55, 60

Graphite Metallizing Corp., 1057 Nepperhan Ave., Yonkers, N.Y., 5, 60
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Tel: YOnkers 8-8400

Gulton Industries, Inc., N.M., 10, 35, 80

Hansen Electronics Co., Calif., 75

Hewlett-Packard Co., 275 Page Mill Rd., Palo Alto, Calif., 10, 20, 75
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Tel: DAvenport 5-4451

Hycon Eastern, Inc., Dept B., 75 Cambridge Parkway, Cambridge 42, Mass., 3, 20, 70
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Tel: UNiversity 4-7200

J-V-M Microwave Co., 9305 W. 47th St., Brookfield, Ill., 3, 5, 10, 15, 20, 25, 35, 40, 43, 45, 50, 55, 60, 65, 70, 75, 80, 82
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Tel: HUnter 5-2000

Jones Electronics Co., Inc., Conn., 20

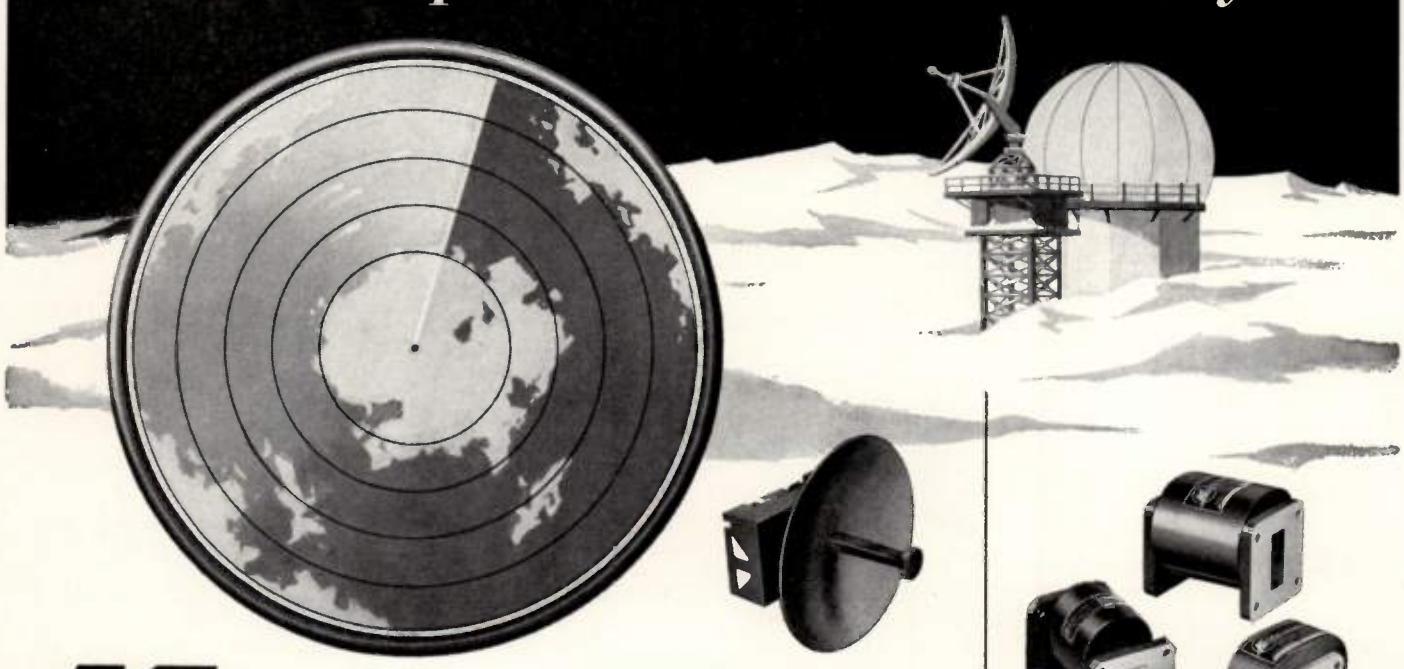
Kama Instrument Corp., N.Y., 3, 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 65, 75

Kearfott Co., Inc., 1378 Main Ave., Clifton, N.J., 3, 5, 10, 15, 20, 25, 30, 35, 40, 43, 45, 50, 55, 60, 65, 70, 75, 80
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Tel: GRegory 2-1000

Kearfott Co., Inc., Microwave Div., Dept. 24J, 14844 Oxnard St., Van Nuys, Calif., 3, 10, 15, 20, 25, 43, 50, 55, 70, 75
See ad on page 458
Tel: STate 6-1760

Kennedy & Co., D. S., Route 3A, Cohasset, Mass., 25, 35, 55, 80
See ad on page 250
Tel: EVergreen 3-1200

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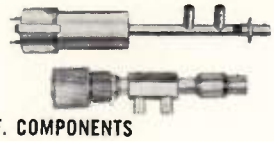
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6211 Denton Drive
Dallas, Texas

Northwest Area Office:
530 University Avenue
Palo Alto, California

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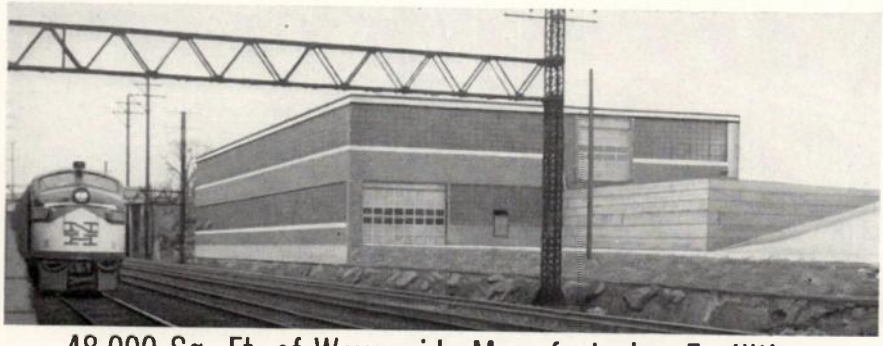


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Wire recorders: See class 16

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Within these four basic directories, 100 major product and service groups are numbered consecutively throughout. Under each of these 100 classes a further breakdown is given, showing in detail by a system of code numbers after each firm listed what specific products within the class are manufactured by that firm.

For a terminology cross-index listing the 852 subproducts in alphabetical order, consult the pink section preceding page 1.

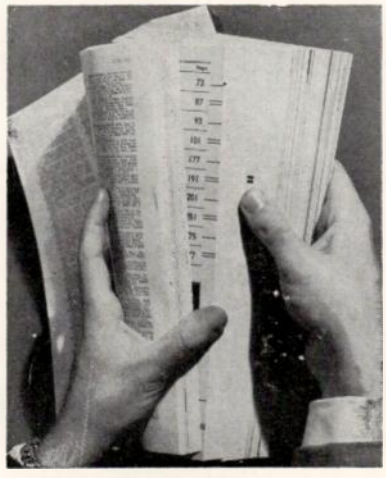
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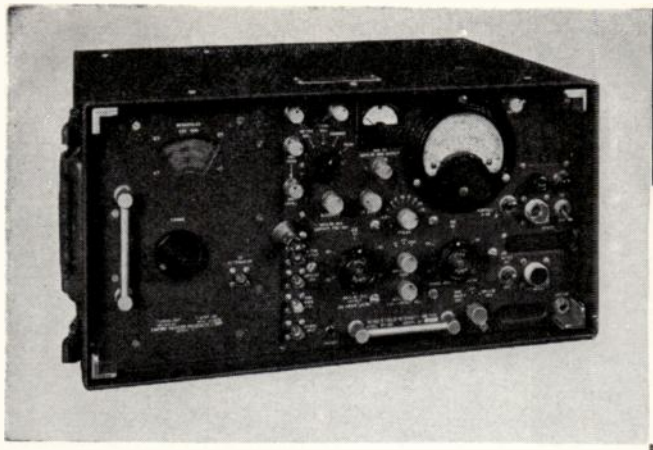
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For complete list of products and services, arranged alphabetically for fast reference, see the pink section preceding page 1.

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241	DIRECTORY I COMMUNICATIONS
275	DIRECTORY II COMPONENTS
461	DIRECTORY III CONTROLS & INSTRUMENTS
519	DIRECTORY IV MATERIALS & SERVICES

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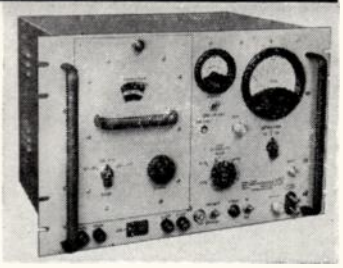


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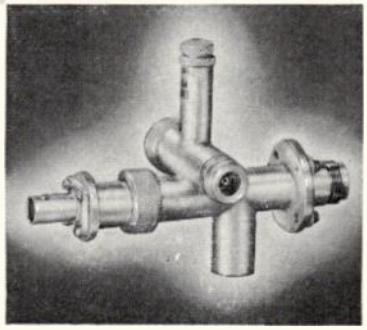
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Four quick-change tuning heads • Single knob tuning for easy scanning Built-in impulse generator serves as calibrator • Carrier and peak reading VTVM • Aural slideback • Coaxial step attenuators • Regulated "A" and "B" supply.

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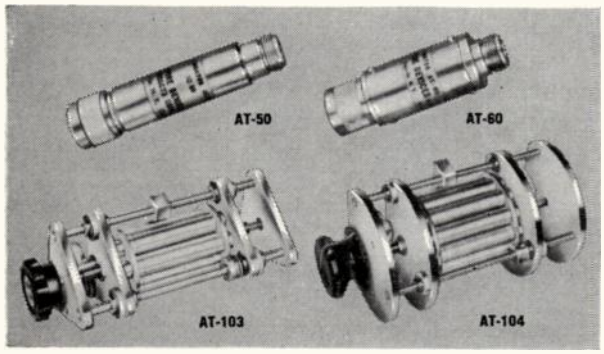
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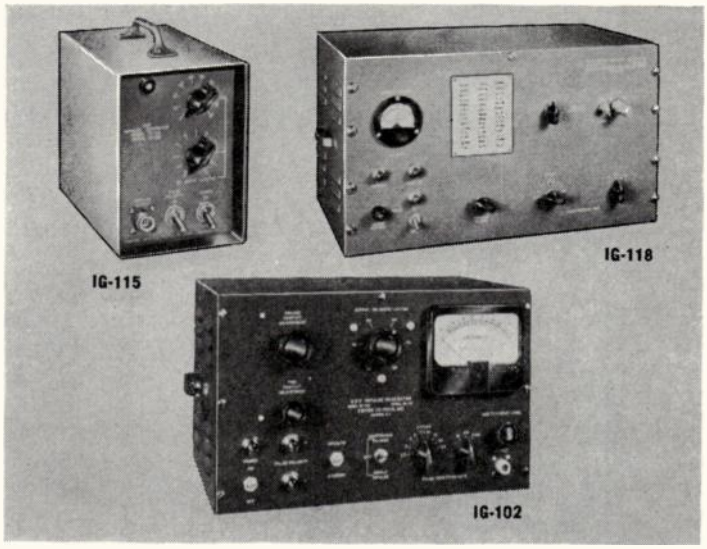
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RATED POWER:
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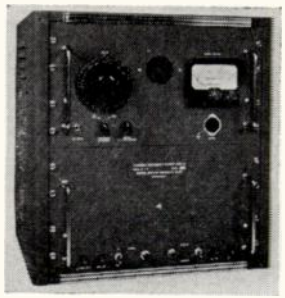


UHF IMPULSE GENERATORS, Models IG-102, IG-115, IG-118

Model	Flat Spectrum (±½ DB)	Peak Output Level	Repetition Rate
IG-102	10 KC to 1000 MC	70,000 μV/MC	2.5 to 2500 cycles
IG-115	10 KC to 1000 MC	100,000 μV/MC	60 cycles
IG-118	100 MC to 10,000 MC	9,000 μV/MC	2.5 to 2500 cycles

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67. Audio Frequency Test Equipment.

3. AF signal
5. Beat frequency oscillators
10. Distortion & noise analyzers
15. Intermodulation meters
17. Harmonic frequency
20. Output power
25. RC oscillators
27. Sound level
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40. Telegraph test
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Precise Development Corp., N.Y., 3, 25, 35, 45
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10. Combustion & smoke-nuisance controls
15. Electronic remote controls
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17. Gyroscopes
18. Liquid level
20. Photo electric
25. Positioning equipment
27. Pressure
30. Production controls, counting & sorting equipment
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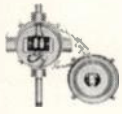


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Shallcross

PRECISION WIREWOUND RESISTORS

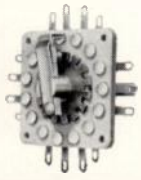


Small, Shallcross "P-Type" encapsulated resistors offer unmatched stability and reliability for critical applications. All are reverse-pi wound on multiple-section epoxy resin bobbins, then hermetically-sealed in a tough epoxy coating.

"P-Type" resistors are offered in a complete range of commercial and military types with radial leads, axial leads, or lug terminals. Military types meet or exceed MIL-R-93A (85°C ambient) and MIL-R-9444 (125°C ambient) requirements—including salt water immersion tests. Standard tolerances—1%, 0.5%, 0.25%, 0.1%, and 0.05%. Close tolerances and matched pairs a specialty. *Write for Bulletin L-30.*

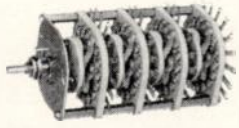
ROTARY SELECTOR SWITCHES

STANDARD SWITCHES



Single-Pole, instrument-type switches using silicone-impregnated steatite or phenolic decks. ¼" laminated silver or solid brass contacts and multiple-leaf wiper arms. Positive, long-life ball-bearing detent. Up to 4 decks. Many optional special features. *Bulletin L-31.*

OVAL CERAMIC SWITCHES



Assembled by Shallcross from stock, interchangeable parts, the "12,000" Series offers custom-built quality without the delay and cost of specials. Solid silver contacts and collector rings on steatite decks. 0.0025 Ω contact resistance. 1 to 3 poles per deck, up to 10 decks. Adjustable stop. Optional detent. *Bulletin L-32.*

MINIATURE SWITCHES



Only 1¾" square by 1" deep for first deck, ⅝" for additional decks. Silver alloy button contacts and multi-leaf wipers maintain low contact resistance. Glass fibre Silicone-laminate decks for outstanding humidity, moisture and salt-spray resistance. 1 to 4 poles per deck. 1 or 2 hole mounting. Easily-positioned, adjustable stops. *Bulletin L-45A.*

BRIDGES

Field & Lab Types for Precise DC Resistance Measurements . . . 1 micro-ohm to 10^6 megohms.
Bulletin L-19B

6100
6101

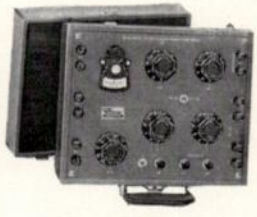




617 series



6320

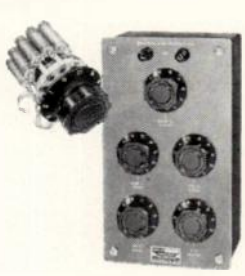


638-R

Model Number	Measurement Accuracy	Maximum Setting	Minimum Setting	Circuit	Special Features
6100	±0.1% +0.01Ω (.1Ω to 1.011 MegΩ)	1.011 MegΩ	0.001Ω	Fault Location—Wheatstone	Fault Location by Murray, Varley, Hilborn & Fisher Loop Tests.
6101	±0.1% +0.01Ω (1Ω to 11.11 MegΩ)	11.11 MegΩ	0.001Ω	Wheatstone	Four dial rheostat usable as decade box.
6320	±0.02% +0.01Ω (1Ω to 11.11 MegΩ)	111.11 MegΩ	0.000001Ω	Wheatstone	Most accurate five dial Shallcross bridge for direct resistance measurement.
	±0.05% to ±20% on separate "+" and "—" percent selectors. (1Ω to 10 MegΩ)	11.111 MegΩ	0.0001Ω	Percent Limit	Rapid "GO-NO GO" percent limit testing. Built-in adjustable comparison standard.
638-R	±0.75% or better (.001Ω to 1Ω)	11.11Ω	0.000001Ω	Kelvin	Overlapping Kelvin and Wheatstone ranges selected with single ratio dial.
	±0.2% +0.01Ω (1Ω to 11.11 MegΩ)	11.11 MegΩ	.001Ω	Wheatstone	
6350	±1%, (10Ω to 10 MegΩ) ±2%, (10 MegΩ to 10,000 MegΩ) ±5%, (above 10,000 MegΩ)	1.111×10^6 MegΩ	0.01Ω	Wheatstone with d-c Amplifier	Modular construction dual range power supply, null indicator-amplifier, for 115V. 60 cycle operation.
617 Series	±0.1% to ±20% on separate "+" and "—" selectors from a minimum resistance consistent with number of dials in use to the maximum settings.	111,111Ω 1,111,110Ω 11,111,100Ω	0.1Ω *1Ω 10Ω	Percent Limit	For rapid "GO-NO GO" percent limit testing. Hand or foot operated for production testing. All models also usable for direct resistance measurements. Binding post for external d-c power supply.
	†±0.2% +0.01Ω from a minimum consistent with number of dials in use to the maximum setting.	111,111Ω 1,111,110Ω 11,111,100Ω	0.1Ω *1Ω 10Ω	Wheatstone	

† Except 617B and 617J ±0.1% ±0.01Ω. * Except 617G, 0.01Ω.

DECADE RESISTANCES



Available as single unmounted decades or as complete decade resistance boxes with 1 to 6 dials. Steps as low as 0.01 ohm; total resistance as high as 11,111,100 ohms.

Remarkably rugged and accurately-calibrated for maintained stability in rough lab, classroom and production line work. Uses impregnated Shallcross precision wirewound resistors mounted on steatite switch decks. Large button contacts of silver or brass. *Write for Bulletin L-17A.*

DECADE VOLTAGE DIVIDERS



Laboratory-type voltage dividers used in bridge circuits, for measuring rotary potentiometer linearity, in synchro-test delta bridge circuits, and in other uses requiring maintained accuracy and high resolution. Kelvin-Varley or Potentiometer circuits available in eight 4 and 5 dial models.

Impregnated Shallcross precision wirewound resistors used throughout. Steatite instrument switches assure uniformly low contact resistance. *Bulletin L-16B.*

SHALLCROSS MANUFACTURING CO.

SELMA, NORTH CAROLINA
Representatives in principal U. S. Cities; Toronto & Vancouver, Canada

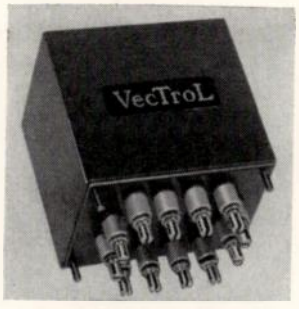
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THE COMPLETE PACKAGED
VecTroL®
Thyratron Grid Control



Available from Stock
- Patented supersensitive circuitry avoids need for preamplifier
- 1 Package controls 1 or 2 thyratrons
- Failsafe—No bias needed
- 4 isolated D.C. control windings
- Insulation tested at 1500-2500 volts

All Thyratron Control Applications
- Motor and generator controls
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- Electronic temperature controls
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Superior Instruments Co., 2435 White Plains Rd., New York 67, N.Y., 5, 20
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Tel: TUlip 2-6880
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United Transformer Corp., 150 Varick St., New York 13, N.Y., 35
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Tel: ALgonquin 5-3500
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Directory III. Controls & Instruments

70. Computers & Counters.

5. Analog to digital converters
7. Card to tape converters
10. Computers, analog
15. Computers, digital
20. Counters, continuous
22. Counters, mechanical
25. Counters, pre-set
30. Data reduction
32. Digital to analog converters
35. Drums, magnetic
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42. High speed printer
45. Tape to card converter
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Bailey Meter Co., Ohio, 5, 10, 30

Baird-Atomic, Inc., 33 University Rd., Cambridge 38, Mass., 20, 25
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Tel: UNiversity 4-7420

Baldwin Piano Co., Ohio, 5, Shaft Angle Encoders
Beattie-Coleman, Inc., Calif., Punch Tape Programmers
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Beckman Systems Div., Calif., 5, 7, 10, 20, 22, 25, 30, 32, 45
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CG Electronics Corp., N.M., 5, 15, 30, 32
Cal-Air Engrg., Inc., Calif., 5, 10, 15, 30, 32, 40
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Decimal indications from 000 to 999 with return to 000. Reversible and continuous rotation. Speed: 1500 rpm max. int., 500 rpm cont. Torque: .2 in.-oz. at 20°C. Wgt.: .5 oz. Specifications are typical, and may be changed to suit requirements.

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Tel: TWinoaks 7-8821

Digitronics Corp., Albertson Ave., Albertson, L.I., N.Y., 35, 47, paper tape readers
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Ford Instrument Co., N.Y., 10, 15, 30

Foto-Video Laboratories, Inc., 36 Commerce Rd., Cedar Grove, N.J., 20
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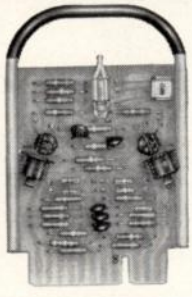
Franklin Electronics, Inc., Pa., 5, 30

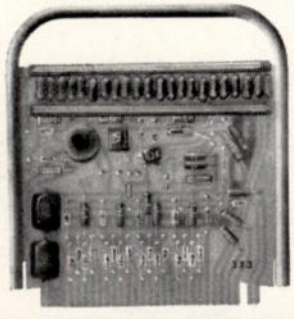
Freed Transformer Co., Inc., 1713 Weirfield St., Brooklyn 27, N.Y., 20, 25
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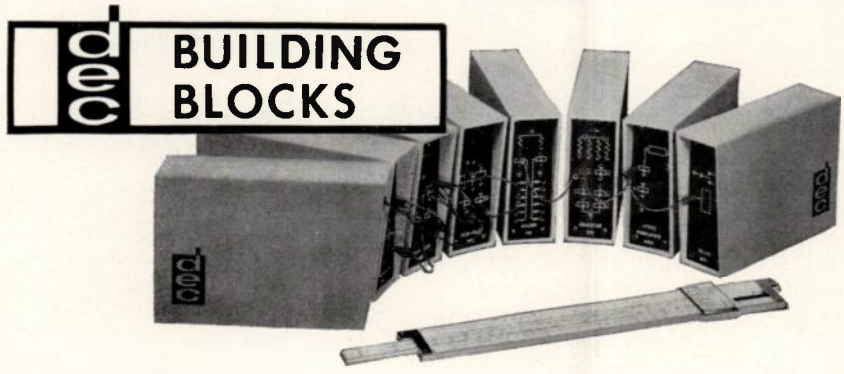
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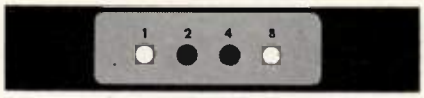
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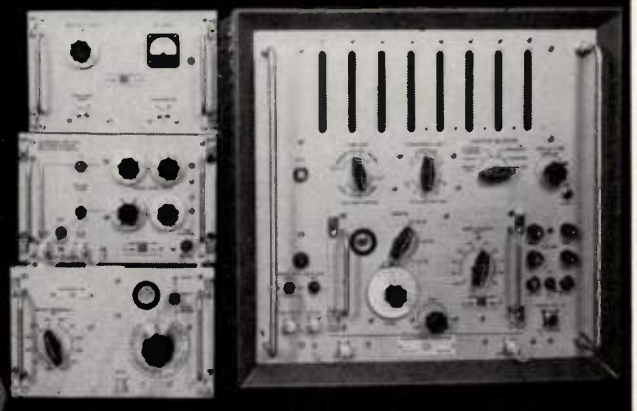
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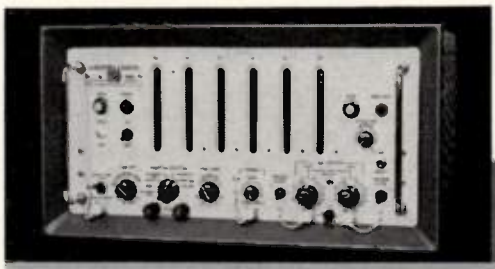
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VERSATILITY achieved by plug-ins which: extend frequency range — increase sensitivity — measure time intervals.

FEATURES — Accuracy as high as 1 part in 1,000,000 ± 1 count using internal oscillator. Stability long time 2 parts/million/week
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10 MC Direct Reading, with frequency measurements to 220 MC made simply and with extreme accuracy with plug-in converter.



14-20A Basic Unit
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14-22 Converter 220 MC
14-23 Video Amplifier
14-24 Time Interval

Price on application

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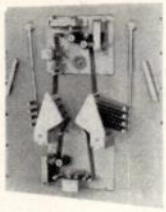
MODEL 140-40	Max rate: 40 kc. Input: neg 50-150 v. Power: 6.3 vac @ 1.2 a; 300 vdc @ 9 ma.
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MODEL 140-1100	Max rate: 1.1 mc. Input: neg 20 v. Power: 6.3 vac @ 1.2 a; 300 vdc @ 47 ma.
MODEL 120-100	Preset, 100 kc max rate. Input: neg 70-180 v. Power: 6.3 vac. @ 1.5 a; 300 vdc @ 17 ma



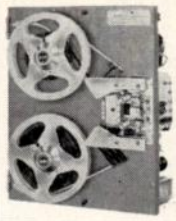
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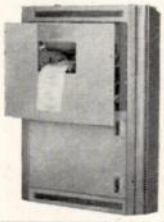


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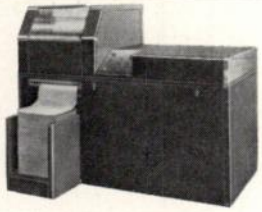
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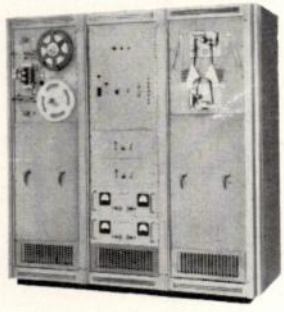
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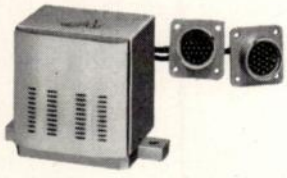
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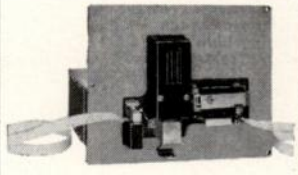
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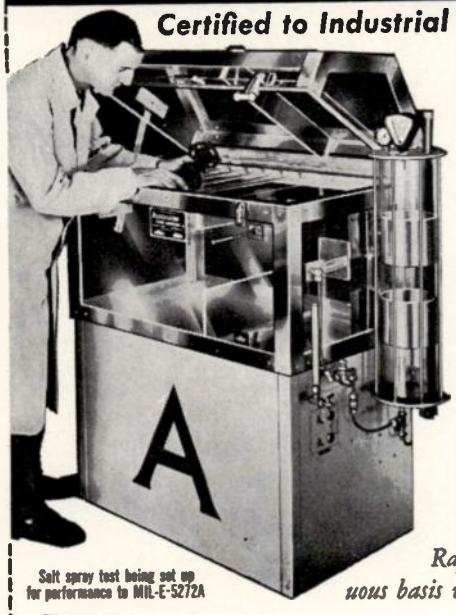
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Precision Instrument Co., Calif., 47

Radiation, Inc., P.O. Box 37, Melbourne, Fla., 5, 30, 32, 42
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Radio Frequency Labs., Inc., Powerville Rd., Boonton, N.J., digital readout converters
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Sperry Gyroscope Co. of Canada, Ltd., Canada, 5, 10, 15, 30, 32

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Frequency meters, microwave: See class 77

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Galvanometers: See class 42

Galvanometers, recording: See class 73

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71. General Laboratory Equipment & Supplies.

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10. Chemicals
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25. Shielded enclosures

Ace Engrg. & Machine Co., Inc., Pa, 20, 25, Free Space Rooms
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Derby Luminescents Ltd., England, 10
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Eastman Kodak Co., 343 State St., Rochester 4, N.Y., 10
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Electric Hotpack Co., Inc., 5074 Cottman Ave., Philadelphia 35, Pa., 5, 15
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Tel: DEvonshire 3-1700

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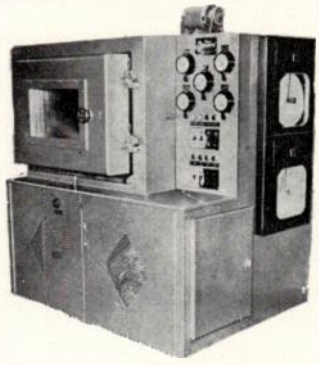
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12. Circuit testers
15. Crystal testers
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30. Dynamometers
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55. Multimeters
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67. Pressure gages
70. Pyrometers
72. Racks—aging
73. Resistor testers
74. Spectrometers
78. Stroboscopes
80. Transistor testers
82. Ultrasonic generators
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85. Vacuum gages
86. Vacuum tube testers
88. Vacuum tube voltmeters
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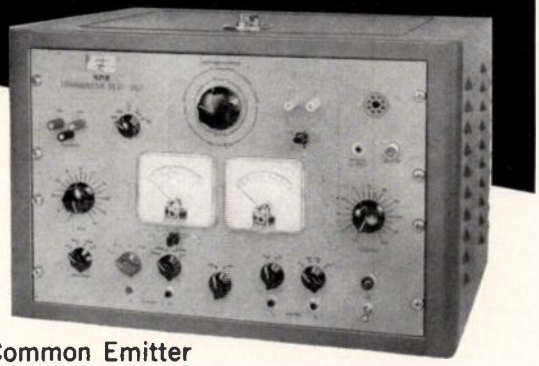
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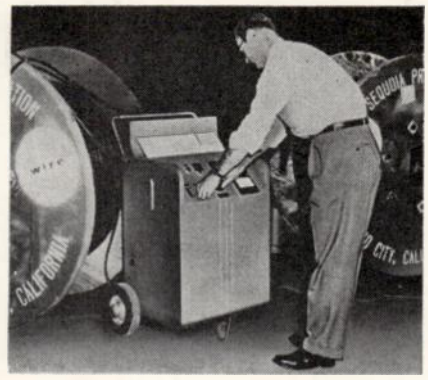
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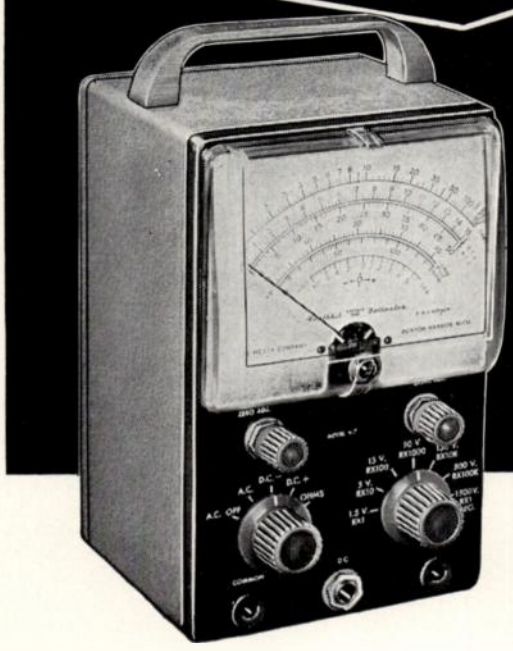
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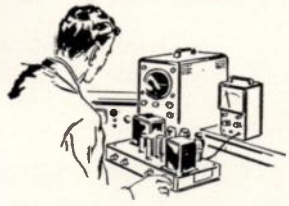
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72. General Test Equipment.

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TERA-OHMMETERS

Type FT	Test Voltage	Resistance Range
H-4	Variable, 100 to 1,000 v.	20 MΩ to 5,000 TΩ*
H	Variable, 100 to 1,000 v.	2 MΩ to 500 TΩ
F2-500	100 and 500 v.	2 MΩ to 5 TΩ 10 MΩ to 25 TΩ
F3-500	100 and 500 v.	20 MΩ to 50 TΩ 100 MΩ to 250 TΩ
F2-10	10 and 100 v.	0.2 MΩ to 0.5 TΩ 2 MΩ to 5 TΩ
F3-10	10 and 100 v.	2 MΩ to 5 TΩ 20 MΩ to 50 TΩ
F2-3	3 and 100 v.	5,000 Ω to 0.15 TΩ 2 MΩ to 5 TΩ
F3-3	3 and 100 v.	50,000 Ω to 1.5 TΩ 20 MΩ to 50 TΩ
D-1	100 v.	0.2 MΩ to 0.5 TΩ
D-2	100 v.	2 MΩ to 5 TΩ
D-3	100 v.	20 MΩ to 50 TΩ

* 1 TΩ = 10^{12}Ω

VOLTMETERS AND POWER METERS

Type Ft	Description	Application	Frequency	Range
URI	Multimeter	General purpose measurements; AC, DC voltage, current, and resistance	DC-200 mc	AC-DC to 1,000 v. 10Ω to 1,000 MΩ .002-1 amp
URV	RF Millivoltmeter	Millivolt measurements through the UHF range	0.1 to 2,400 mc	3 mv. to 500 v.
UBM	Tunable Indicating Amplifier	Voltage indicator; Bridge detector	45 cps to 600 kc	1 μv.-100 v.
NRD	Microwave Power Meter	Accurate Measurement of UHF Power	DC to 3,200 mc	1 to 200MW

SIGNAL SOURCES

Type Ft	Description	Frequency Range	Accuracy	Max. Output
SBF	Wide Band Signal Generator	10 cps to 10 mc	1 %	10 v.
SMLR	Power Signal Generator	100 kc to 30 mc	1 %	10 v.
SMLM	Power Signal Generator	30 to 300 mc	1 %	3 v.
SDAF	AM-FM Signal Generator	170 to 620 mc	1 %	0.5 v.
SDR	UHF Signal Generator	300 to 1,000 mc	1 %	4 v.
SCR	Standard Signal Generator	1,000 to 1,900 mc	1 %	3 v.
SBR	UHF Signal Generator	1,600 to 2,400 mc	1 %	0.25 v.
SMCB	SHF Signal Generator	1,700 to 4,600 mc	1 %	20 mv.
XUA	Frequency Synthesizer	10 cps to 30 mc	2 parts in 10^7	1 v.

IMPEDANCE MEASURING EQUIPMENT

Type Ft	Description	Range: Impedance	Range: Frequency	Accuracy
RGV	Precision Resistance Bridge	0.01Ω to 100 MΩ	DC	0.1%
LCB	Precision L-C Bridge	10μh to 1000h .01 to 1 MΩ 10,000μμf to 1000μf	50 cps to 20 kc	0.3%
LARU	Inductance Meter	0.1μh to 1h	2.2 kc to 4.7 mc	1%
KARU	Capacitance Meter	0.5μμf to 10μf	1.5 to 175 kc	1%
VKB	Dielectric Test Bridge	10μμf to 1μf	50 cps to 300 kc	1%
VLU	Admittance Meter	0-1000μμf 1KΩ-200 MΩ	0.1 to 10 mc	1%
KKH	Direct Capacitance Bridge	.003 to 30μμf	500 kc	2%
KZS	Tolerance Bridge	10μμf to 1μf 10Ω to 1 MΩ 100μh to 2mh	17 kc	Dependent on Range Selected
LMM	Slotted Line	.03 to 1 reflection coefficient	80 to 300 mc	2%
LMD	Slotted Line	.02 to 1 reflection coefficient	300-3,000 mc	2%
ZDU	Diagraph	1 to 2500Ω	30-300 mc	2%
ZDD	Diagraph	1 to 2500Ω	300-2,400 mc	3%
ZUP	Reflectometer	.005 to 1 reflection coefficient	10-600 mc	1%
ZPD	Reflectometer	02 to 1 reflection coefficient	300-2,400 mc	1%
VLUK	Admittance Meter	0 to 100μμf 1000Ω-10 MΩ	10-100 mc	1%

FREQUENCY MEASURING EQUIPMENT

Type FT	Description	Range	Accuracy
XZB	Table model—Decade Frequency Measuring System	10 cps to 600 mc	1 part in 10^7
XZA	Decade Frequency Measuring System with Master Crystal Oscillator	10 cps to 1,000 mc	1 part in 10^9
WIK	Portable Frequency Measuring System	10 cps to 1,000 mc	1 part in 10^7

LARGE SCREEN OSCILLOSCOPES and ACCESSORIES

Type	Screen Size	Sensitivity	Sweep Range
1735D	17"	10 mv./in. to 100 v./in.	10 μsec. per inch to 1 sec. per inch
2135D	21"	10 mv./in to 100 v./in.	10 μsec. per inch to 1 sec. per inch
1740D	17"	1 mv./in. to 100 v./in.	10 μsec. per inch to 1 sec. per inch
2140D	21"	1 mv./in. to 100 v./in.	10 μsec. per inch to 1 sec. per inch
1770A	17"	1v./in. to 10 v./in.	Monitor Scope, contains no sweep.
DC-40BG	17"	1 mv. full scale	Bar Graph presentation of 40 DC signals.
AC-40BG	17"	50 mv. full scale	Bar Graph presentation of 40 AC signals.
200K			Swept Frequency Generator —20 cps to 200 kc

In addition to those instruments listed above, many others, including capacitance standards and precision attenuators, are available. Write for complete information and specifications on the entire line of Federal instruments.

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Industrial Products Division

INTERNATIONAL TELEPHONE AND TELEGRAPH CORPORATION—250 GARIBALDI AVE, LODI, N. J.

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Tel: CYpress 2-4025

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Jones & Lamson Machine Co., Vt., Optical Inspection Equipment
Kane & Co., J. V., Pa., 86, Automatic Circuit Selector
Kauffman Comm. & Electronics, Ohio, Mobile 2 Way-Test Panel Uni-Trol

Kay Electric Co., Dept. ID-9, Maple Ave., Pine Brook, N.J., 80, 88, 90
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Tel: CApital 6-4000

Kearfott Co., Inc., 1378 Main Ave., Clifton, N.J., 22, 25, 60, 65, 73, 80, 88
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Keithley Instruments, Inc., 12415 Euclid Ave., Cleveland 6, Ohio, 10, 35, 55, 60, 65, 73, 88
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Kinney Manufacturing Div. New York Air Brake, 3650 Washington St., Boston 30, Mass., 85
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Tel: JAmaica 4-3220

KinTel, Div. Cohu Electronics, 5725 Kearny Villa Rd., San Diego 11, Calif., 22, 40, 60, 65
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Tel: DA 4-4108

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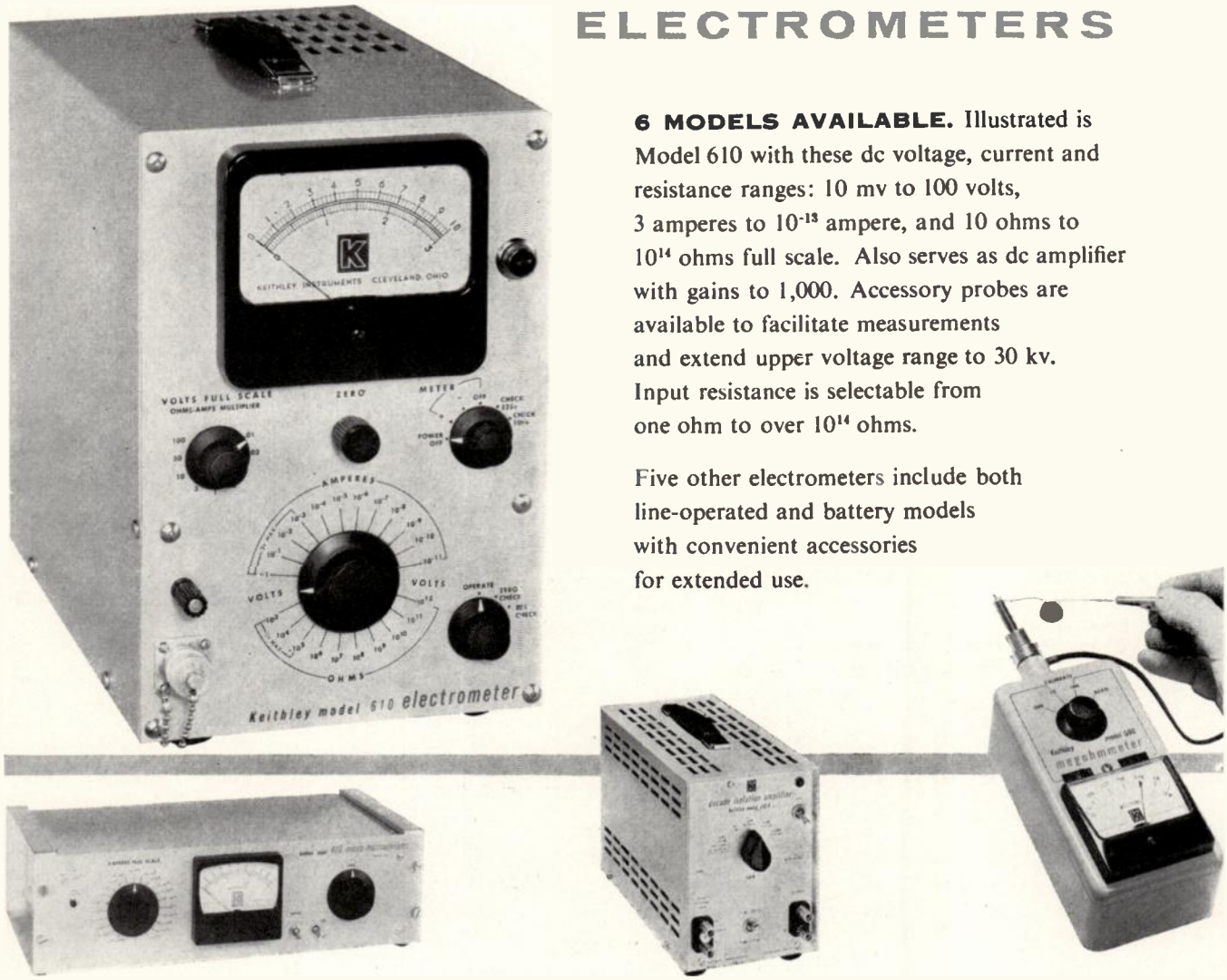
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Tel: JAmaica 4-3220

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for electronic measurement and control

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6 MODELS AVAILABLE. Illustrated is Model 610 with these dc voltage, current and resistance ranges: 10 mv to 100 volts, 3 amperes to 10^{-13} ampere, and 10 ohms to 10^{14} ohms full scale. Also serves as dc amplifier with gains to 1,000. Accessory probes are available to facilitate measurements and extend upper voltage range to 30 kv. Input resistance is selectable from one ohm to over 10^{14} ohms.

Five other electrometers include both line-operated and battery models with convenient accessories for extended use.

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6 MODELS. The 410 (illustrated) has 20 ranges from 3 x 10^{-13} to 10^{-3} ampere full scale (two per decade); zero drift below 2% of full scale in 24 hours. Other models include: micro-microammeters with linear or log scale meters, with or without contact-meter relays; and Log n period amplifiers.

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2 MODELS. AC Decade Isolation Amplifier Model 102B shown above has stabilized decade gains from 0.1 to 1000, a selectable bandwidth of 2 cps to 150 kc or to 1.7 mc and noise below 20 microvolts. Mid-band gain accuracy is 2%; 400 megohm 3$\mu\mu$f input impedance. Also available, Model 303, dc to 20 kc.

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3 MODELS. Model 500 above measures 10 to 10,000 megohms on a single extended scale. Model 501, a similar portable instrument with a 0.01 to 10,000 megohm scale. Model 510 is line-operated, 10^{7} to 10^{15} ohm range; 5, 50 and 500-volt test potentials.

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measures current without adding resistance: 0.001 μa full scale reading

The Model REL-500 Precision Universal Meter is so versatile and broad-ranged that it performs as a voltage stability meter, a millivoltmeter, a micromicroammeter, a megohmmeter, a capacity meter, a pH meter, and as an electrostatic voltmeter.
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PROVE your product's reliability

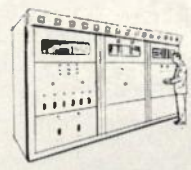
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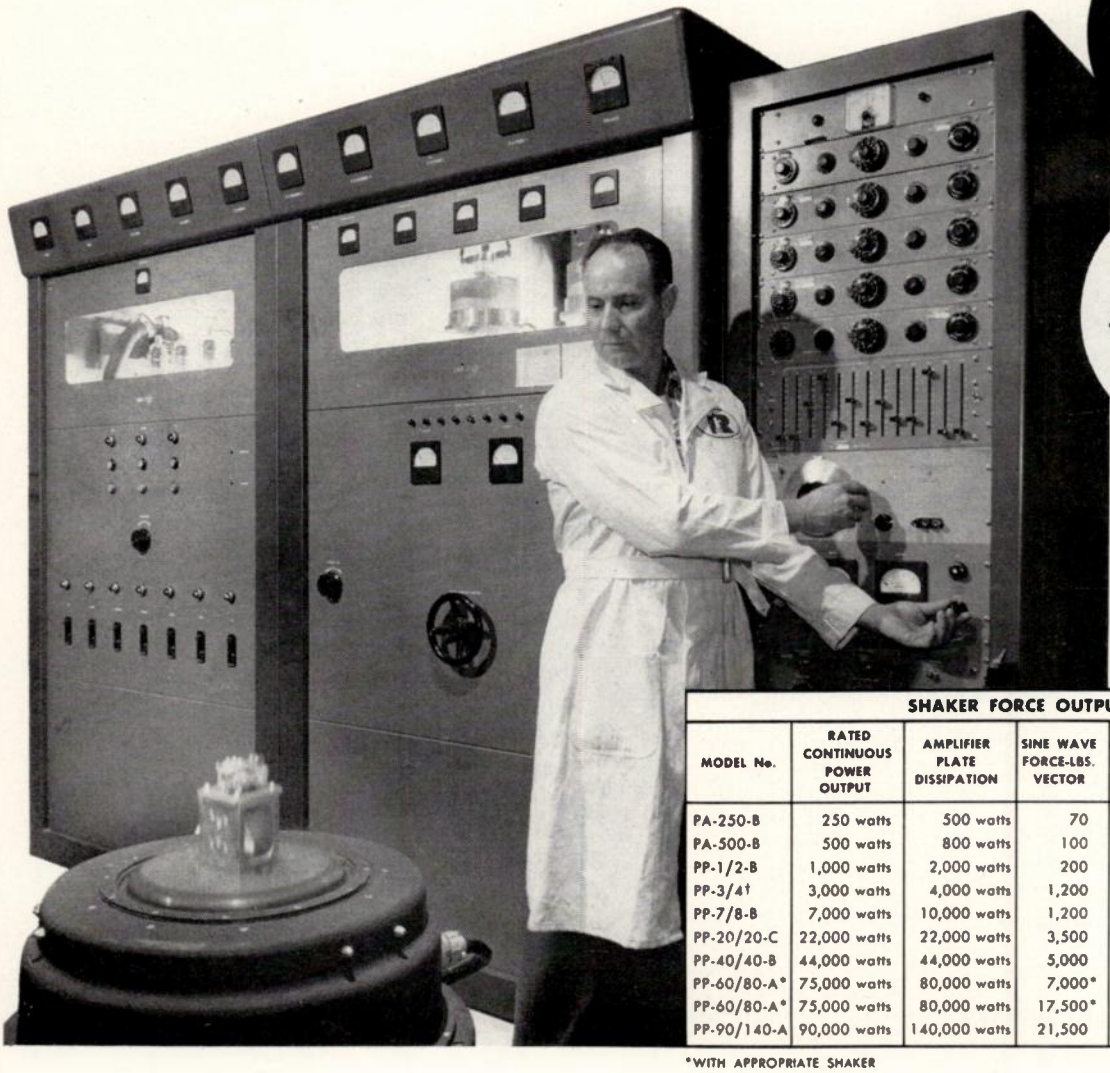
Model PP-90/140



Sine-O-Matic †
Model PP-3/4



Mobile Vibration Laboratory



This 20 KVA power generator and control console at Rocketdyne is one of 23 complete Ling systems at North American Aviation Divisions.

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				FORCE-LBS. RMS	FORCE LBS. PEAK	
PA-250-B	250 watts	500 watts	70	—	—	—
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PP-1/2-B	1,000 watts	2,000 watts	200	—	—	—
PP-3/4†	3,000 watts	4,000 watts	1,200	—	—	—
PP-7/8-B	7,000 watts	10,000 watts	1,200	840	2,520	AP-10-A
PP-20/20-C	22,000 watts	22,000 watts	3,500	2,500	7,500	AP-30-A
PP-40/40-B	44,000 watts	44,000 watts	5,000	3,500	10,500	AP-40-A
PP-60/80-A*	75,000 watts	80,000 watts	7,000*	5,000*	15,000*	AP-60-A
PP-60/80-A*	75,000 watts	80,000 watts	17,500*	12,000*	36,000*	AP-60-A
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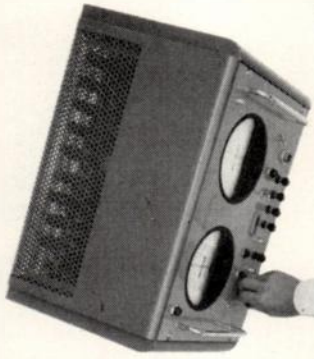
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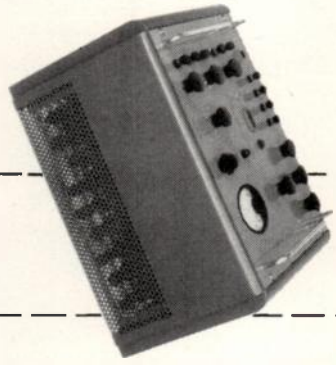
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Test Equipment

SIMPLIFIES



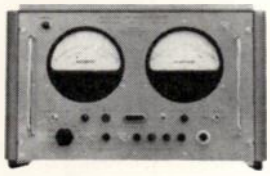


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Take advantage of Solartron—WORLD'S foremost servo test equipment source. The Solartron Decade Oscillator and Resolved Components Indicator combination gives you a packaged system able to handle servo function analysis, laboratory and production testing requirements.

Solartron's matched units are off-the-shelf-ready for use. Before attempting the design and building of your own costly servo test units or any other possible solutions to your requirements—call or write Solartron first!

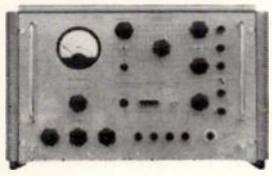
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Sheffield Corp., The, Ohio, Dimensional & X-Ray Thickness Gage

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Sierra Electronic Corp., 3753D Bohannon Dr., Menlo Park, Calif., 85, 88
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Solartron, Inc., 10761 Burbank Blvd., N. Hollywood, Calif., 22, servo analyzers
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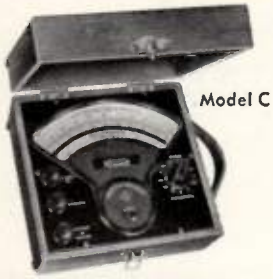
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Standard Electric Time Co., Mass., 5

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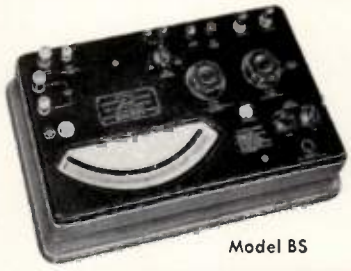
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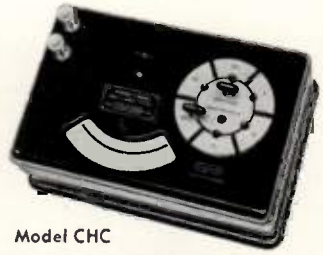

Model BS


Model THACH

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"Self Checking" DC Volt-Amp-Milliammeter. .05% accurate. 12" vernier scale. 25 full scale ranges from 1.5 ma. and .3 V. to 15 amps. and 1500 V. Internal standard cell. Other DC laboratory standards available with an accuracy of .1% and full scale ranges starting from 30 microamps or 50 mv.

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Model CHC

AMMETERS

Heavy current DC use. .2% accurate. Self-contained. Ranges switched by changing a single-plug connection. 6.3" scale length. Full scale ranges between 1 and 100 amps. Other instruments available as millivoltmeters with external laboratory standard shunts. Ranges up to 1,000 amps.


Model FM

FLUXMETERS

Single or multirange. Basic sensitivity 10,000 maxwells per division using a single turn search coil. Accuracy .5%. 5.2" scale length. Available with general purpose 10 turn search coil with a mean area of 8 square centimeters.


Model CRV

CREST VOLTMETERS

Measures RMS, positive and negative peaks of 10 per second or faster. Basic instrument is electrostatic voltmeter with accuracy of 1%. Ranges up to 100 KV. full scale. Input impedance 10,000 megohms. For AC or repetitive pulsed DC.


Model FRE

FREQUENCY METERS

Expanded scale, direct reading, single and multirange low audio frequency measuring instruments of the differential coil permanent magnet type. Accuracy .25%. 6.3" scale length.


Model RFV

VOLTMETERS

True RMS responding. Full scale ranges from 1 V. to 300 V. Accuracy .5% on DC to 1 megacycle. Usable up to 10 megacycles. Other thermocouple instruments available for all current and voltage measurements.

Model UTS



TEST SETS

Replaces over 200 individual DC current, voltage and resistance measuring instruments. Accuracy .5%. Contains 3 instruments that may either be a millivoltmeter, voltmeter, milliammeter, or ammeter, and 1 microammeter. Portable. Other test sets available for AC and magnetic testing.

Model UPP



Type EW



PANEL INSTRUMENTS

AC and/or DC edgewise panel instruments with the same electrical specifications as Reference Standard portable models. Accuracies to .25%. Scale lengths to 7". Up to eight ranges switch controlled and self-contained. Full scale ranges start from 1 microamp or 1 mv. DC and 1 ma. or 200 mv. AC.



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ELECTRICAL INSTRUMENTS OF PRECISION SINCE 1927

Directory III. Controls & Instruments

72. General Test Equipment.

Star Expansion Prods. Div., Star Precision Devices, Inc., Pleasant Hill Rd., P.O. Box 108, Mountainville, N.Y., 80, 86
See ad on page 576
Tel: COrnwall 3-3755

Statham Instruments, Inc., Dept. IR, 12401 W. Olympic Blvd., Los Angeles 64, Calif., 67
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Statistical Instrument Co., N.Y., 82, 90, Noise Generators

Stavid Engineering Inc., N.J.. 12

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Sterling Precision Corp., N.Y., Gyro Test Tables

Sticht Co., Inc., Herman H., 27 Park Place, New York 7, N.Y., 45, 65
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Sunshine Scientific Instrument, Pa., 20, 82

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Tech Laboratories, Inc., Bergen & Edsall Blvds., Palisades Park, N.J., 73
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Technical Apparatus Builders, 109 W. Liberty St., New York 6E, N.Y., 12, 25, 45, 72, 78, 80, 86
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Temperature Engineering Corp., N.J., 85, Vacuum Ovens

Tensitron, Inc., Mass., Tension Meters

Tesla Electric Co., Ill., 5, 12, 20, 45, 72, 82

Texas Instruments Incorporated, 6000 Lemmon Ave., P.O. Box 312, Dallas 9, Tex., 20
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Tel: FLeetwood 7-4311

Theta Instrument Corp., N.J., Synchro & Resolver Testers

Thomas Electronics, Inc., N.J., 72, 86

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Trans-Aire Electronics, Inc., N.Y., 80

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Transistor Applications, Inc., Mass., Magnetic Core Plane Tester

Transistor Electronics Corp., 3362 Republic Ave., Minneapolis 26, Minn., 25, 80
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Tel: WEst 9-6754

Trans-Sonics, Inc., Mass., 67

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Varian Associates, 611 Hansen Way, Palo Alto 2, Calif., 74, magnetometers
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Tel: DAvenport 6-4000

Vectron, Inc., Mass., Capacitance Voltage Dividers

Veeco Vacuum Corp., 86-K Denton Ave., New Hyde Park, L.I., N.Y., 74, 85, Leak Detectors
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Wallson Associates, Inc., 33 E. Runyon St., Newark 8, N.J., 25
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Tel: TAlbot 4-2600

Waterman Products Co., Inc., 2445 Emerald St., Philadelphia 25, Pa., Electronic
See ad on page 45
Tel: GArfield 6-8600

(Continued on page 493)

The New Model 77

VACUUM TUBE VOLTMETER

WITH NEW 6" FULL-VIEW METER

Compare it to any peak-to-peak V. T. V. M. made by any other manufacturer at any price!



- V Model 77 completely wired and calibrated with accessories (including probe, test leads and portable carrying case) sells for only $42.50.
- V Model 77 employs a sensitive six inch meter. Extra large meter scale enables us to print all calibrations in large easy-to-read type.
- V Model 77 uses new improved SICO printed circuitry.
- V Model 77 employs a 12AU7 as D.C. amplifier and two 9006's as peak-to-peak voltage rectifiers to assure maximum stability.
- V Model 77 uses a selenium-rectified power supply resulting in less heat and thus reducing possibility of damage or value changes of delicate components.
- V Model 77 meter is virtually burn-out proof. The sensitive 400 microampere meter is isolated from the measuring circuit by a balanced push-pull amplifier.
- V Model 77 uses selected 1% zero temperature coefficient resistors as multipliers. This assures unchanging accurate readings on all ranges.

AS A DC VOLTMETER
The Model 77 is indispensable in Hi-Fi Amplifier servicing and a must for Black and White and color TV Receiver servicing where circuit loading cannot be tolerated.

AS AN ELECTRONIC OHMMETER
Because of its wide range of measurement leaky capacitors show up glaringly. Because of its sensitivity and low loading, intermittents are easily found, isolated and repaired.

AS AN AC VOLTMETER
Measures RMS values if sine wave, and peak-to-peak value if complex wave. Pedestal voltages that determine the "black" level in TV receivers are easily read.

Specifications

• DC VOLTS—0 to 3/15/75/150/300/750/1,500 volts at 11 megohms input resistance • AC VOLTS (RMS)—0 to 3/15/75/150/300/750/1,500 volts • AC VOLTS (Peak to Peak)—0 to 8/40/200/400/800/2,000 volts • ELECTRONIC OHMMETER—0 to 1,000 ohms/10,000 ohms/100,000 ohms/1 megohm/10 megohms/100 megohms/1,000 megohms • DECIBELS —10 db to + 18 db, + 10 db to + 38 db, + 30 db to + 58 db. All based on 0 db = .006 watts (6 mw) into a 500 ohm line (1.73v). • ZERO CENTER METER—For discriminator alignment with full scale range of 0 to 1.5/7.5/37.5/75/150/375/750 volts at 11 megohms input resistance.

Model 77 comes complete with operating instructions, probe and test leads. Use it on the bench—use it on calls. A streamlined carrying case, included at no extra charge, accommodates the tester, instruction book, probe and leads. Operates on 110-120 volt 60 cycle. Only..... **$42.50 NET**

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72. General Test Equipment.

Waveforms, Inc., N.Y., 88
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Weightman & Associates, Calif., 55
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Generators, marker (radio frequency): See class 80

Generators, marker (TV): See class 82

Generators, pulse: See class 77

Generators, signal (AM & FM): See class 80

Generators, signal (TV): See class 82

Generators, sweep (radio frequency): See class 80

Generators, sweep (TV): See class 82

Generators, synchronizing: See class 82

Generators, time delay: See class 77

Generators, ultrasonic: See class 72

73. Geophysical Apparatus.

5. Complete exploration equipment
10. Control equipment
15. Microphones
20. Recording galvanometers

Abrams Instrument Corp., Mich., 10
American Measurement, Mass., 5, 10
Becks, Inc., Minn., 10
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Canadian Research Inst., Canada, 5
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Chemalloy Electronics Corp., Calif., 5
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Maurer, Inc., J. A., N.Y., 20
Midwestern Instruments, Okla., 20
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Southwestern Industrial Electronics Co., 2831 Post Oak Rd., P.O. Box 13058, Houston 19, Tex., 5, 10, 15, 20
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Texas Instruments Incorporated, 6000 Lemmon Ave., P.O. Box 312, Dallas 9, Tex., 5, 10, 15, 20
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United Electrodynamics, Calif., 5, 10, 15, 20
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Varian Associates, 611 Hansen Way, Palo Alto 2, Calif., 5
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Tel: DAvenport 6-4000

74. Graphic Recorders.

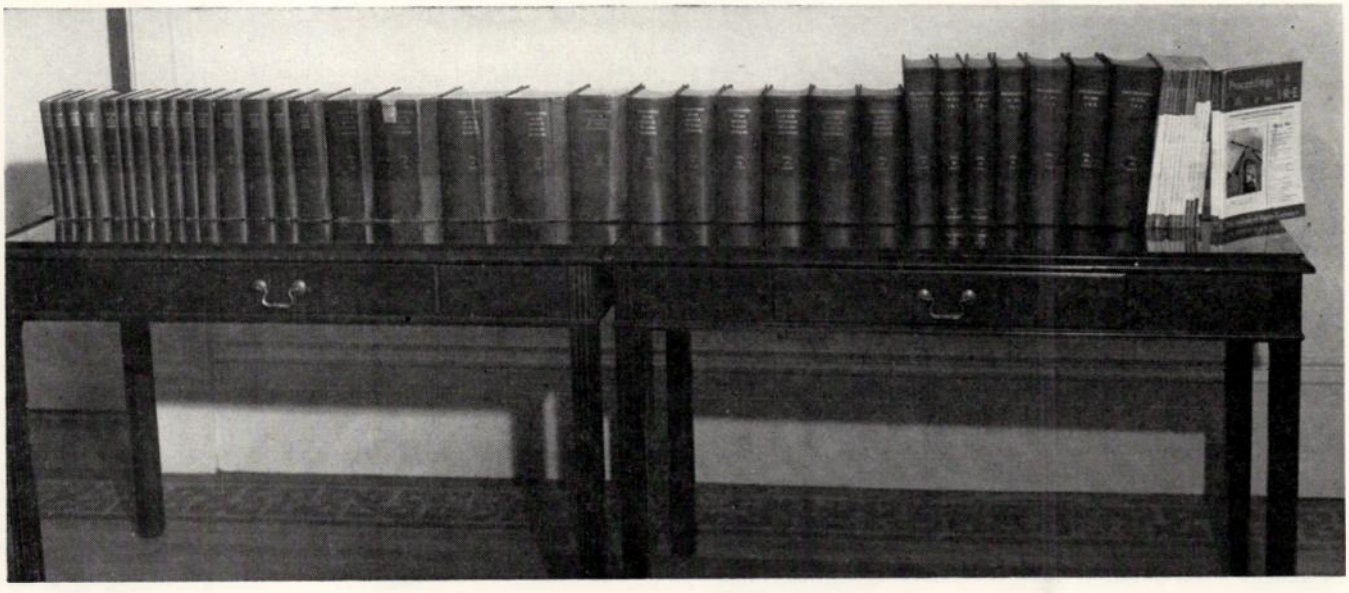
3. Boards—Plotting
5. Charts & papers
10. Ink writing
15. Inkless types
20. Fixed speed types
25. Variable speed types

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Alden Electronic & Impulse Recording Equipment Co., Alden Research Center, P.O. Box 125, Westboro 6, Mass., 5, 15, 20, 25
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B & F Instruments, Inc., Pa., Strain Gage
Bayly Engrg. Ltd., Canada, 20
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Bunnell & Co., J. H., N.Y., 10
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THE MOSELEY

AUTOGRAF trade mark X-Y RECORDER & ACCESSORIES



Model 1 AUTOGRAF

A portable drum type X-Y Recorder; accepts 8½"x11" paper; independent servo-actuated drives for each axis; input ranges 5 MV to 100 volts; 200,000 ohms/volt input resistance; less than 1 second plotting speed for full scale travel; ±0.25% accuracy and resolution; available for use as curve follower.



Model 2A AUTOGRAF

Flat-bed bench type X-Y Recorder; accepts up to 11"x17" paper; input ranges 5 MV to 150 volts; input filters; zero offset; built-in vacuum paper hold-down; 200,000 ohms/volt input resistance; less than 1 second plotting speed for full scale travel; inputs for curve follower, point plotter, card or tape translator; ±0.25% accuracy and resolution.



Model 3 AUTOGRAF

Flat-bed table-top X-Y Recorder; accepts 8½"x11" paper; input ranges 5 MV to 500 volts, calibrated or continuous; input filters; zero offset; positive clamp-type paper hold-down; 200,000 ohms/volt input resistance; ½ second plotting speed for full scale travel; ±0.25% accuracy and resolution.



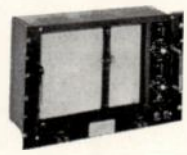
Model 3S AUTOGRAF

Identical to Model 3 except has added feature of a built-in TIME BASE or SWEEP CIRCUIT. Five calibrated time intervals of 5, 10, 50, 100, and 500 seconds for full scale X-axis pen travel (2 inches/sec. to 0.2 inches/sec.). Combination X-axis range control permits standard two-variable plotting or one variable plotted against time.



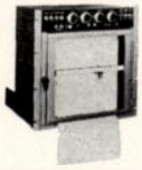
Model 4 AUTOGRAF

Rack mounting X-Y Recorder; vertical flat recording surface; accepts up to 11"x17" paper; built-in vacuum paper hold-down; input ranges 5 MV to 150 volts, calibrated or continuous; input filters; zero offset; 200,000 ohms/volt input resistance; less than 1 second plotting speed for full scale travel; ±0.25% accuracy and resolution; inputs for curve follower, point plotter, card or tape translator; 19¼" panel.



Model 5 AUTOGRAF

Rack mounting X-Y Recorder; vertical flat recording surface; accepts 8½"x11" paper; positive clamp-type paper hold-down; input ranges 5 MV to 500 volts; input filters; zero offset; 200,000 ohms/volt input resistance; ½ second plotting speed for full scale travel; 0.25% accuracy and resolution; 12¼" panel.



Model 6 AUTOGRAF

An AUTOMATIC FRAME ADVANCE X-Y Recorder identical electrically to Models 2A or 4. Features continuous chart roll (approx. 100 charts per roll), automatic, manual, or remote control of chart advance, vacuum paper hold-down, 10" x 10" plotting area completely visible, single chart tear-off or rolled chart storage.



Model F-1
Curve Follower Adaptor

An adaptor unit designed for use directly with Model 2A or 4 AUTOGRAF; converts graphic information to voltage or point form from conducting curves; may also be used with Models 1, 3, and 5 with suitable modification of recorders: 10 inches per second reproducing rate; furnished with all necessary installation accesscries.



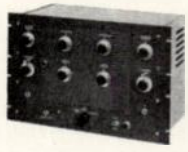
Type D-1
Character Printer

A solenoid-plunger type die replacing pen assembly on a Model 2A AUTOGRAF to permit identification of curves obtained from plotting digital information. Consists of complete kit with instructions for installation and minor recorder wiring changes.



Model 40A Keyboard

Full keyboard type; 30 keys for each axis; also available in 10 key; connects directly to Model 2A and 4 AUTOGRAF; built-in regulated power supply; plots from zero to ±1999 on each axis; 0.10% digital to analog conversion accuracy; special circuits for calibration, error detection, and selection of 'hold" or "automatic clear" on each axis.



Model 30A
Card Translator

For use with Model 2A or 4 AUTOGRAF to convert output pulses from IBM Summary Punch to analog voltages for automatic plotting; speed of 50 cards per minute, maximum; 10, 20, 50, 100, or 200 counts per inch; calibration by switch or calibrator card; automatic or manual feed; 0.10% accuracy; mounted on 12¼" standard panel, 11½" deep.



Model 50
Tape Translator

For use with Model 2A or 4 AUTOGRAF to plot digital information from perforated paper tape in conjunction with standard tape reader; standard model accepts 1-2-4-8 binary code; other codes available on special order; maximum speed, 60 points per minute; zero offset of 100 to 900 points; plotting scale steps of 10, 20, 50, 100, and 200 points/inch.



Model 60
Logarithmic
Converter

Converts DC or AC input voltages to DC voltages proportional to the logarithm of the amplitude of the input voltage; self contained power supply; better than 60 db dynamic range; 20 to 20,000 cps; accuracy ±½db; output ranges, 5, 10, 20 db per inch; speed 20 db per second.



Model 20
DC Voltmeter

A high accuracy servo-actuated, multi-range DC Voltmeter with large, easy to read scale; eleven ranges from 3 MV to 300 volts, full scale; internal calibration cell; input resistance, 200,000 ohms/volt up to 30 volt scale, 20,000 ohms/volt on 300 volt scale; zero left and zero center adjustment feature; 0.25% accuracy on all ranges.



Clary Printer and Model C-1 (2, 3)
Accessory Panel

A Clary Printer, Model 1900, is specially wired for use with a Coleman Digitizer and Moseley Accessory Panel to provide "on demand" printed readout of DC signals from the Model 20 DC Voltmeter. Also may be used for readout from shaft rotation. Available for 3, 4, and 5 decade Digitizers.

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409 N. FAIR OAKS AVE., PASADENA, CALIFORNIA

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Century Electronics & Instruments, Inc., Okla., 15
Chart-Pak, Inc., Mass., 3, 5
Curtiss-Wright Corp., 631 Central Ave., Carlstadt, N.J., 10, 15, 25
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Rust Industrial Co., Inc., N.H., 15
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Integrators, pulse count: See class 78

Intermodulation meters: See class 67

Ionization chambers: See class 78

Laboratory equipment & supplies: See class 71

75. Laboratory Standards of Frequency & Time.

5. Elapsed time measuring equip.
10. Primary standards of frequency
15. Primary standards of time
20. Secondary standards of frequency
25. Secondary standards of time
30. Tuning forks

Abrams Instrument Corp., Mich., 25
Acme Telectronix Div., Ohio, 20, 25, 30
Aero Instrument Co., Calif., 5, 20
Aeronca Research Div., Md., 5, 10, 15, 20, 25
Airmec Ltd., England, 5, 10, 15, 20, 25
Allegany Instrument Co., Inc., Md., 5
American Chronoscope Corp., N.Y., 5
American Time Products, Inc., 580 Fifth Ave., New York 36, N.Y., 20, 25, 30
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Tel: PLaza 7-1430
Baird-Atomic, Inc., 33 University Rd., Cambridge 38, Mass., 5
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Tel: UNiversity 4-7420
Barker & Williamson, Inc., Pa., 10
Beckman/Berkeley Div., Calif., 5, 20, 25
Beckman Systems Div., Calif., 5
Bergen Laboratories, Inc., 247 Crooks Ave., Clifton, N.J., 5
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Tel: GRegory 3-7800
Berkshire Labs., N.H., 5
Bliley Electric Co., 200 Union Station Bldg., Erie, Pa., 20
See ads on pages 334, 339
Tel: ERie 2-2287
Borg Corp., George W., Borg Equip. Div., 120 S. Main St., Janesville, Wis., 10, 15, 20, 25
See ad on page 408
Tel: PLeasant 4-6616
Bulova Watch Co., Electronics Div., Dept. DA-776, 40-06 62nd St., Woodside 77, N.Y., 20, 25
See ad on page 336
Tel: NEwtown 9-5700
Bunnell & Co., J. H., N.Y., 30
Chatillon & Sons, J., N.Y., 30
Clegg Labs., Div. Clegg, Inc., N.Y., 20
Computer Measurement Corp., Calif., 5
Control Electronics Co., Inc., 10 Stepar Place, Huntington Station, L.I., N.Y., 20
See ads on pages 343, 507
Tel: HAmilton 7-7961

Code numbers shown after each firm refer to product or service sub-classes listed at the beginning of each major classification. Complete addresses will be found in the Alphabetical Directory.

FREQUENCY STANDARDS



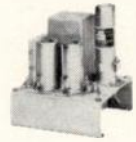
*3⅛" high
400 - 1000 cy.

PRECISION FORK UNIT
TYPE 50

Size 1" dia. x 3¾" H. Wght., 4 oz.*

Frequencies: 240 to 1000 cycles
Accuracies:—
Type 50 (±.02% at —65° to 85°C)
Type R50 (±.002% at 15° to 35°C)
Double triode and 5 pigtail parts required
Input, Tube heater voltage and B voltage
Output, approx. 5V into 200,000 ohms

FREQUENCY STANDARD
TYPE 50L



Size 3¾" x 4½" x 5½" High
Weight, 2 lbs.

Frequencies: 50, 60, 75 or 100 cycles
Accuracies:—
Type 50L (±.02% at —65° to 85°C)
Type R50L (±.002% at 15° to 35°C)
Output, 3V into 200,000 ohms
Input, 150 to 300V, B (6V at .6 amps.)



*3½" high
400 to 500 cy.
optional

PRECISION FORK UNIT
TYPE 2003

Size 1½" dia. x 4½" H. Wght. 8 oz.*

Frequencies: 200 to 4000 cycles
Accuracies:—
Type 2003 (±.02% at —65° to 85°C)
Type R2003 (±.002% at 15° to 35°C)
Type W2003 (±.005% at —65° to 85°C)
Double triode and 5 pigtail parts required
Input and output same as Type 50, above

FREQUENCY STANDARD
TYPE 2005



Size, 8" x 8" x 7¼" High
Weight, 14 lbs.

Frequencies: 50 to 400 cycles (Specify)
Accuracy: ±.001% from 20° to 30°C
Output, 10 Watts at 115 Volts
Input, 115V. (50 to 400 cycles)

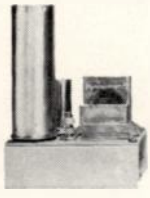


FREQUENCY STANDARD *NEW*
TYPE 2007-6
TRANSISTORIZED, Silicon Type
Size 1⅛" dia. x 3½" H. Wght. 7 ozs.
Frequencies: 400 — 500 or 1000 cycles
Accuracies:
2007-6 (± .02% at —50° to +85°C)
R2007-6 (±.002% at +15° to +35°C)
W2007-6 (±.005% at —65° to +125°C)
Input: 10 to 30 Volts, D. C., at 6 ma.
Output: Multitap, 75 to 100,000 ohms

FREQUENCY STANDARD
TYPE 2121A



Size
8¾" x 19" panel
Weight, 25 lbs.
Output: 115V
60 cycles, 10 Watt
Accuracy:
±.001% from 20° to 30°C
Input, 115V (50 to 400 cycles)



FREQUENCY STANDARD
TYPE 2001-2

Size 3¾" x 4½" x 6" H., Wght. 26 oz.

Frequencies: 200 to 3000 cycles
Accuracy: ±.001% at 20° to 30°C
Output: 5V. at 250,000 ohms
Input: Heater voltage, 6.3 - 12 - 28
B voltage, 100 to 300 V., at 5 to 10 ma.

FREQUENCY STANDARD
TYPE 2111C



Size, with cover
10" x 17" x 9" H.
Panel model
10" x 19" x 8¾" H.
Weight, 25 lbs.
Frequencies: 50 to 1000 cycles
Accuracy: (±.002% at 15° to 35°C)
Output: 115V, 75W. Input: 115V, 50 to 75 cycles.

ACCESSORY UNITS
for TYPE 2001-2



L—For low frequencies multi-vibrator type, 40-200 cy.
D—For low frequencies counter type, 40-200 cy.
H—For high freqs, up to 20 KC.
M—Power Amplifier, 2W output.
P—Power supply.

This organization makes frequency standards within a range of 30 to 30,000 cycles. They are used extensively by aviation, industry, government departments, armed forces—where maximum accuracy and durability are required.

WHEN REQUESTING INFORMATION
PLEASE SPECIFY TYPE NUMBER

American Time Products, Inc.

Watch Master
Timing Systems

Telephone: PLaza 7-1430

580 Fifth Ave., New York 36, N. Y.

For details, circle #459 on Reader Service Card

Directory III. Controls & Instruments

75. Laboratory Standards of Frequency & Time.

D & R Ltd., Calif., 20
Daystrom, Inc., N.J., 5
Decade Instrument Co., N.J., 20
Delta-F, Inc., Ill., 5, 10, 15, 20, 25, 30
DeMornay-Bonardi, 780 So. Arroyo Parkway, Pasadena, Calif., 20
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Tel: SYcamore 2-4142
Designers for Industry, Inc., Ohio, 20, 25
Dunlap Electronics Inc., Iowa, 20
Dymec, Inc., Calif., 5
Dynapar Corp., Il., 5, 20, 25
Eldorado Electronics, Calif., 5
Electro Medical Lab., Inc., Vt., 5
Electro-Pulse, Inc., 11861 Teale St., Culver City, Calif., 5, 20, 25
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Tel: TExas 0-8006
Elk Electronics Labs., Inc., N.Y., 20
El-Tronics, Inc., Alwac Div., Calif., 20
Engineering Associates, 434 Patterson Rd., Dayton 9, Ohio, 20
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Tel: AXminister 3-1662
Erie Resistor Corp., 644 W. 12th St., Erie 6, Pa., 5
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Gaertner Scientific Corp., Ill., 5
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Geotechnical Corp., Tex., 10, 15, 20, 25
Gertsch Products, Inc., Calif., 20
Gibbs Mfg. & Research Corp., Wis., 5, 20, 25, 30
Hamilton Watch Co., Pa., 30
Haydon Co., A. W., 240 N. Elm St., Waterbury 20, Conn., 5
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Tel: PLaza 6-4481
Hewlett-Packard Co., 275 Page Mill Rd., Palo Alto, Calif., 20
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Tel: DAvenport 5-4451
Hill Electronic Engrg. & Mfg. Co., Inc., Pa., 10, 20
Hycon Eastern, Inc., Dept. B, 75 Cambridge Parkway, Cambridge 42, Mass., 5, 10, 15, 20, 25
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Tel: UNiversity 4-7200
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International Telephone & Telegraph Corp., Federal Instruments, Industrial Products Div., 250 Garibaldi Ave., Lodi, N.J., 10, 15, 20, 25
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Tel: PRescott 3-1550
Invar Electronics Co., Calif., 20
Jacobs Instrument Co., Md., 20, 25
Lavoie Labs., Inc., Matawan-Freehold Rd., Morganville, N.J., 10
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Tel: MAtawan 1-2600
Lytle Engrg. & Mfg. Co., N.M., 5
Manson Labs., Inc., 207 Greenwich Ave., Stamford, Conn., 10, 20
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Marconi Instruments, 111 Cedar Lane, Englewood, N.J., 10
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Muirhead & Co., Ltd., England, 20
Muirhead Instruments, Inc., N.Y., 30, Standard Cells
National Co., Inc., Mass., 5, 10, 15
New London Instrument Co., Conn., 20
Norrman Labs., Ernst, Wis., 5, 10, 15, 20, 25
Northeastern Engineering, Inc., 25 South Bedford St., Box 150, Manchester, N.H., 20, 25
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Tel: NAtional 2-6485
Olympic Radio & TV, Inc., N.Y., 20
Orbitran Co., Inc., Calif., 25
Panoramic Radio Products, Inc., 528 S. Fulton Ave., Mount Vernon, N.Y., 20
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Tel: OWens 9-4600
Panseal, Inc., N.J., 5
Parsons Co., Ralph M., Electronics Div., Calif., 5, 25
Philamon Laboratories, Inc., 90 Hopper St., Westbury, L.I., N.Y., 10, 30
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Presto Recording Corp., N.J., 20
Probescope Co., Inc., 8 Sagamore Hill Dr., Port Washington, L.I., N.Y., 20
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Tel: POrt Washington 7-8150
Pylon Electronic Development Co., Ltd., Canada, 20
Radio Frequency Labs, Inc., Powerville Rd., Boonton, N.J., 20
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Resdel Engineering Corp., Calif., 5
Riverbank Labs., Dept. of Engrg., Ill., 20, 25, 30
Sticht Co., Inc., Herman H., 27 Park Place, New York 7, N.Y., 5
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Tel: REctor 2-8163
Sunshine Scientific Instrument, Pa., 5
Systron Corp., Calif., 5, 10, 20, 25
Telerad Mfg. Co., N.Y., 20
Teletronics Laboratory, Inc., N.Y., 5, 20
Tempo Instrument Inc., N.Y., 5
Times Facsimile Corp., 540 West 58th St., New York 19, N.Y., 10, 15
See ad on this page
Tel: JUdson 2-3030



new FORK OSCILLATOR—
Stability 1 part in 10,000,000

Improvements in the amplifier circuitry have minimized frequency excursions caused by variables such as temperature, plate supply voltage, tube aging, etc.

Fork employs compact oven developed for this unit.

Fork **FK5-A** Standard frequencies (1600, 1800 or 2000 cps). **$350.00.**

Also furnished without oven. *Write for detailed specifications.*

TIMES FACSIMILE
CORPORATION
540 West 58th Street, New York 19, N.Y.

For details, circle #460 on Reader Service Card

specialized ELECTRONIC TESTING EQUIPMENT

SOFT- AND HARD-TUBE PULSE MODULATORS

Widest selection of standard modulators covering all useful power levels. Precision-engineered designs for operation and test of magnetrons, klystrons, traveling wave tubes, pulse transformers, waveguide components and related devices. All models adaptable to individual specifications.

Peak power outputs from 16 kw. to 30 megawatts and higher. Average output powers to 60 kilowatts and higher. Typical features include: continuously adjustable voltage control; discrete or variable pulse widths; internally- and externally-controllable repetition frequencies; synchronized auxiliary outputs; pulse-shape monitoring circuits; source and load overload protection.



20-megawatt soft-tube modulator, Model 150

HIGH-VOLTAGE POWER SUPPLIES

High-voltage DC and AC types, single- or multiple-output, regulations and stabilities to 0.01%. Standard and custom designs from bench-top models to large mobile units to satisfy your specific tube testing or production problems: highly-regulated supplies uniquely suited for test and operation of traveling wave tubes, backward wave oscillators and similar tube types; unregulated high-power supplies for systems testing; complete power sources for controlling all aspects of tube production. Also many models for general power-source applications in engineering laboratories and industrial plants.



Highly-regulated, multiple-output high-voltage supply, Model M-224

TUBE TESTERS AND CHECKERS

Designed to perform MIL or special-purpose tests, for virtually every type of tube: high-power vacuum diodes, triodes and tetrodes; C-R tubes; phototubes; magnetrons, thyratrons and gas tubes.

The wide variety includes static-characteristics checkers, aging and conditioning sets, emission and life testers, test oscillators, cathode-interface resistance measuring sets, and special equipment for tube R&D work.

Cathode-Interface Resistance Test Set, Model 186





Transmitting-Tube Static-Characteristics Measuring Set, Model 166

precision COMMUNICATIONS INSTRUMENTATION

CRYSTAL FREQUENCY SYNTHESIZERS

Disciplined incremental and continuous-coverage oscillators, approaching the "black-box" equivalent of a crystal with thousands of selectable frequencies. Ideal for SSB Systems—as transmitter exciters or receiver VFO's, ultra-stable signal generators, frequency meters, FSK exciters, and similar applications where exactness, operating convenience and equipment dependability are mandatory.

SERIES 182. Three Models cover from 18 mc to 410 mc, with zero-error readability and resettability, frequency stability 1 part in 10^7, spurious signals down 80 db.

Other models:

A-200, continuously tunable 2-32 mc. stability of 1 part in 10^6 any frequency.

N-245, incremental tuning 2-32 mc. stability of 1 part in 10^8 any frequency.

N-248, subminiaturized, 18-36 mc. stability of 1 part in 10^7 any frequency.

Other frequency ranges available.



Incremental Crystal Synthesizer, Series 182

FREQUENCY STANDARDS

1-MC HARMONIC REFERENCE OSCILLATOR. A laboratory-level frequency standard plus a jitter-free millimicrosecond pulse source for harmonic measurements. Built-in balanced mixer enables direct determination of unknown frequencies up to 1000 mc. Stability better than 1 part in 10^8 day. Fundamental tunable $\pm$25 cycles.

1-MC, 100-MC and 1-KMC STANDARDS. Exceptionally compact, highly stable, low-cost crystal-controlled oscillators suitable as reference sources or master oscillators in frequency control systems. Stabilities better than 1 part in 10^8 per day. Modifications to meet individual frequency requirements.



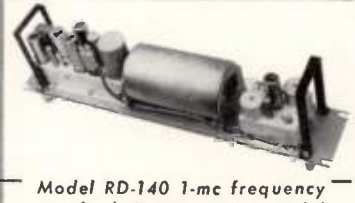
Model RD-110 Harmonic Reference Oscillator

PROPORTIONALLY-CONTROLLED OVEN SYSTEMS

Non-cycling systems for precise temperature control of crystals, oscillator circuits, thermocouples and other components. Oven temperature held to within 1/1000 of ambient changes. Ovens can be set at any point from 10°C to 100°C above ambient with vernier adjustment available.

Model RD-130, for rack mounting.

Model RD-132, transistorized sub-assembly version



Model RD-140 1-mc frequency standard, incorporating model RD-130 proportional oven system.

FOR THE WIRE AND CABLE INDUSTRY

Manson builds special testing apparatus including *High-Potential Test Sets* having voltages to 100KV and/or power capacities to 100KVA; *Velocity of Propagation Meters* for measuring coaxial cables to MIL-C-17B; *Flammability Testers* in two Models for cables up to 3" diameter.

MANSON LABORATORIES, INC.

207 GREENWICH AVENUE • STAMFORD, CONNECTICUT

DAVIS 5-1391

manson

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75. Laboratory Standards of Frequency & Time.

Topping Electronics Ltd., F. V., Canada, 20, 25
Transistor Applications, Inc., Mass., 10
Uniwave, Inc., N.Y., 5
Van Norman Industries, Inc., Electronics Div., N.H., 20
Varo Mfg. Co., Inc., Tex., 20, 30
Walkirt Co., Calif., 5, 20, 25, 30
Waltham Electronics Corp., Mass., 10, 20
Westport Electric Co., Calif., 5

Marker generators, microwave: See class 77

Marker generators, radio frequency: See class 80

Marker generators, TV: See class 82

76. Medical Equipment.

5. Cardiographs
10. Diathermy
15. Electronic cauterizing
20. Electroencephalographs
25. Stimulators

American Electronic Labs., Inc., Pa., 25
American Machine & Foundry Co., Va., 20
Applegate & Co., C. J., Colo., 25
Aviation Electronic Service, Ill., 25
Canadian Research Inst., Canada, 10, 25
Dale Products, Inc., 1318 28th Ave., Columbus, Neb., 25
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Tel: LOcust 4-3131
Dallons Labs., Inc., Calif., 5, 10, 15, 20, 25
Eastwood Industries Inc., Ill., 25
Electro Medical Lab., Inc., Vt., 20, 25, Dermohmeters, Psychogalvanometers
Electro-Pulse Inc., 11861 Teale St., Culver City, Calif., 25
See ad on page 501
Tel: TExas 0-8006
Electrodine Co., Inc., Mass., 5, 25, Cardiac Arrest Fibrillation
Electronic Control Corp., Mich., X-ray Timers
Engineered Specialties, Ohio, 25
Epsco, Inc., Mass., 5, 20
Farrall Instrument Co., Neb., Photomicro
General Electric Co., X-ray Dept., Wis., 5, 10
Grass Instrument Co., Mass., 20, 25
Gulton Industries, Inc., Vibro-Ceramics Div., N.J., 5
Harmon Electronics Co., Mo., 5
Harworth Mfg. Co., Calif., Metal Detectors
Horwitron Electron-Medical Co., Pa., 25
Industrial Control Co., N.Y., 25

76. Medical Equipment.

Interelectronics Corp., 2432 Grand Concourse, New York 58, N.Y., Audiometers
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Tel: LUdlow 4-6200
Jansky & Bailey, Inc., D.C., 5
Jarrell-Ash Co., Mass., Electronic Blood Cell Counters
L & O Research & Development Corp., Pa., 5
Lektra Labs., Inc., N.Y., 25
Levinthal Electronic Prods., Inc., Calif., 5, 25
Ludlow Papers, Inc., Mass., 5, Paper
Measurement Engrg., Ltd., Canada, 25
Medical Electronics Develop. Co., N.Y., Blood Pressure Apparatus
Mendelsohn Speedgun Co., Inc., N.J., 5
Model Engineering & Mfg., Inc., Ind., 5
Montek Associates, Inc., Utah, 5
Mooradian High Frequency Labs., N.J., 10, 15, 25
Nevada Air Prods. Co., Nev., 20, 25
Offner Electronics, Inc., 5, 20
Pacific Technical Co., Calif., 5, Needle Electrodes
Panseal, Inc., N.J., 5, 25
Philips Electronics, Inc., N.Y., X-ray Equip.
Process & Instruments, N.Y., 25
Sanborn Co., 175 Wyman St., Waltham 54, Mass., 5
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Tel: TWinbrook 4-6300
Standard Electronics Research Corp., N.Y., 25
Taber Instrument Corp., N.Y., 5
Teca Corp., N.Y., 25, Electro-Myograph

Megohm meters: See class 72

Meters: See class 42

Micro-ammeters: See class 42

77. Microwave & Radar Test Equipment.

5. Bolometers
7. Calorimeters
10. Frequency meters
15. Marker generators
17. Mixers
20. Oscillators
25. Pulse generators
30. Slotted lines & measuring accessories
35. SWR meters
40. Time delay generators
45. Wavemeters

ACF Industries, Inc., N.J., 10, 17, 20, 45
A R F Products, Inc., Ill., 20, 25
Adler Electronics, Inc., N.Y., 10, 25
Ad-Yu Electronics Lab., Inc., 249 Terhune Ave., Passaic, N.J., 40
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Tel: GRegory 2-5622
Aero Instrument Co., Calif., 10
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77. Microwave & Radar Test Equipment.

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Aircom, Inc., 354 Main St., Winthrop 52, Mass., 5, 7, 10, 15, 17, 20, 25, 30, 35, 45
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Tel: OCean 3-3096
Aircom, Inc., N.J., 10, 17
Airtron, Inc., Dept. I, 1106 W. Elizabeth Ave., Linden, N.J., 17, 30
See ad on page 454
Tel: HUnter 6-1000
Alford Mfg. Co., Inc., 299 Atlantic Ave., Boston 10, Mass., 30, RF Impedance Plotter
See ad on page 245
Tel: HAncock 6-2150
Alfred Electronics, Calif., 20, Microwave Leveler
Alto Scientific Co., Inc., Calif., 25, 35
Amerac, Inc., Mass., 10, 17, 20, 25, 45
American Electronic Labs., Inc., Pa., 5, 25
American Mach. & Foundry Co., Va., 10
American Microwave Corp., Calif., 45
American Missile Prods. Co., Inc., Calif., 17, 20
Amtron Corp., Mass., 35
Andrew Antenna Corp., Ltd., Canada, 30
Andrew Corp., 363 E. 75th St., Chicago 19, Ill., 30
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Tel: TRiangle 4-4400
Armstrong Whitworth Aircraft, England, 17, 20
Atomitron, Inc., N.Y., 10, 20
Avionics, Ltd., Canada, 30, 35, 45
Baird-Atomic, Inc., 33 University Rd., Cambridge 38, Mass., 5
See ads on pages 446, 480
Tel: UNiversity 4-7420
Baughman Co., E. J., Calif., Remote Control Reflector
Bayly Engrg., Ltd., Canada, 35
Beckman/Berkeley Div., Calif., 10, 25
Bellaire Electronics, Inc., N.J., 5, 30
Biddle Co., J. G., Pa., 10, 20
Bird Electronic Corp., 1800 E. 38th St., Cleveland 14, Ohio, 35
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Tel: DEerfield 4-3200
Borg-Warner Corp., BJ Electronics Div., Calif., 20, 30, 35
Brocker Labs., Calif., Microwave Regulator
Brooks Research, Inc., N.Y., 25
Browning Labs., Inc., Mass., 35
Bruno-N.Y., Industries Corp., N.Y., 5, Broadband Power Meter
Burroughs Corp., Electronic Tube Div., N.J., 25, 40

Code numbers shown after each firm refer to product or service sub-classes listed at the beginning of each major classification. Complete addresses will be found in the Alphabetical Directory.

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FOR ALL WAVEGUIDES FROM 1 to 24 KMC (with Adapters)

Measures Power up to 2,000 Watts

- Simple to operate.
- Direct Reading.
- Uses NO Thermometers.
- Uses NO Flow Meters.
- Does not have to be connected to power line.



Measures 5 watts full scale and 50 watts full scale. 7 to 24 KMC with Adapters.



Measures 10,000 watts.



Measures 5,000 watts.



Measures 150 watts.

High & Low Power CALORIMETERS

DC—12 KMC • 1 TO 20,000 WATTS

- Direct Reading
- Simple to Operate
- Uses NO Thermometers
- Uses NO Flow Meters
- Can be Calibrated in the Field



High & Low Power LIQUID DUMMY LOADS

FOR CALORIMETRIC USE

COAXIAL & WAVEGUIDE

DC to 12 KMC • 1 to 20,000 watts

WRITE TODAY FOR COMPLETE INFORMATION

ELECTRO IMPULSE Laboratory

208 River Street • Red Bank, N.J. • Phone: SHadyside 1-0404

For details, circle #462 on Reader Service Card

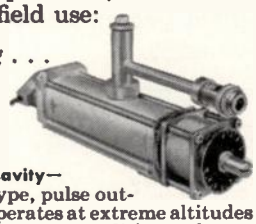
NOW...ANY MICROWAVE COMPONENT CAN BE BUILT AND ENGINEERED TO YOUR PARTICULAR APPLICATION

Regardless of complexity, design or tolerance problems—you can get UHF or microwave components that are job-engineered to your application. All units are delivered, *electrically tested and proven*, ready for immediate operation.

Components can be built from your prints or can be designed and built to integrate with the application. Close and confidential coordination is maintained from drawing board stage to installation.

Range of assemblies is practically unlimited—from dc. to over 40,000 mc., military or industrial. Typical examples are these components, delivered ready for field use:

Telemetering . . .



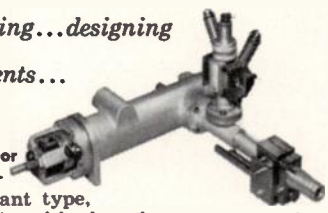
Tuneable S-Band Transmitter Cavity— re-entrant type, pulse output 150 w., operates at extreme altitudes and under extreme conditions of temperature, humidity and salt spray.

Improving signal-to-noise ratio . . . selectivity...



Tuneable UHF Pre-Selector— relatively low frequency coaxial resonator with very low insertion loss, extreme selectivity and very high signal-to-noise ratio. Especially adapted to use in aircraft or in crowded communication bands.

Calibrating...designing S-Band components...



S-Band Signal Generator Cavity— re-entrant type, complete with thermistor mount and calibrated variable attenuator. Frequency range 2700 to 3400 mc.

•

Get the facts on our complete design, engineering and mechanical fabrication facilities. Have us quote on your needs—cavities, mixers, duplexers, multipliers, rotary joints, twists, bends and other components or assemblies.

Contact us today. Request catalog.

CUSTOM-ENGINEERED MICROWAVE PARTS

J-V-M MICROWAVE COMPANY

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Phone: Hunter 5-2000
TWX Brookfield, Illinois 2796

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Directory III. Controls & Instruments

77. Microwave & Radar Test Equipment.

California Technical Industries, Calif., 30, 35
Canoga Corp., Calif., 17, 20
Central Research Labs., Inc., Minn., Die Electrometer
Chemalloy Electronics Corp., Calif., 7
Chesapeake Instrument Corp., Md., Impedance Plotters
Clegg Labs., Div. Clegg., Inc., N.Y., 25, 40
Clough-Brengle Co., Ill., 20
Coaxial Connector Co., Inc., N.Y., 17
Compagnie Generale de Metrologie, France, 25

Control Electronics Co., Inc., 10 Stepar Place, Huntington Station, L.I., N.Y., 10, 17, 20, 25, 35, 45
See ads on pages 343, 507
Tel: HAmilton 7-7961

Cossor (Canada) Ltd., Canada, 5, 17, 25, 30, 35, 40, 45
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Dawe Instruments Ltd., England, 25
Daystrom, Inc., N.J., 10, 20
Decade Instrument Co., N.J., 20
Defiance Engrg. & Microwave Corp., Mass., 10, 17, 30

DeMornay-Bonardi, 780 S. Arroyo Parkway, Pasadena, Calif., 10, 17, 30, 35, 45 phase shifter
See ad on pages 50-51
Tel: SYcamore 2-4142

Diamond Antenna & Microwave Corp., Mass., 10, 17, 30, 45

Douglas Microwave Co., Inc., Dept. RE-8, 252 E. Third St., Mount Vernon, N.Y., 10, 30, 45
See ad on page 456
Tel: MOunt Vernon 8-6900

Dumont Labs., Inc., A. B., Instr. Div., N.J., 20, 25
Dymec, Inc., Calif., 20, 25
E M I Electronics, Ltd., England, 15, 17, 20, 25, 30
Elcor, Inc., Va., 25
Electrical & Physical Instr. Corp., N.Y., 25

Electro Impulse Lab., Inc., 208 River St., Red Bank, N.J., 5, 7, 10, 35, 45
See ad on page 500
Tel: SHadyside 1-0404

Electro-Pulse, Inc., 11861 Teale St., Culver City, Calif., 10, 15, 25, 40
See ad on this page
Tel: TExas 0-8006

Elsin Electronics Corp., N.Y., 5, 10, 17, 20, 25, 45
Emerson Radio & Phono Corp., Md., 5, 10

Empire Devices Products Corp., 37 Prospect St., Amsterdam, N.Y., 17, 25
See ad on page 462
Tel: VIctor 2-8400

Engineering Associates, 434 Patterson Rd., Dayton 9, Ohio, 10
See ad on page 271
Tel: AXminister 3-1662

F-R Machine Works, Inc., 26-12 Borough Pl., Woodside 77, N.Y., 5, 10, 17, 20, 25, 30, 35, 45
See ad on pages 117-120
Tel: AStoria 8-2800

Federal Mfg. & Eng. Co., N.Y., 25
Federal Scientific Corp., N.Y., Radar Simulation Equip.
Ferranti Electric, Canada, 17, 20, 30, 35

Foto-Video Labs., Inc., 36 Commerce Road, Cedar Grove, N.J., 25
See ad on page 376
Tel: CEnter 9-6100

Frequency Standards, P.O. Box 504, Shafto Rd., Asbury Park, N.J., 10, 20, 45
See ad on page 133
Tel: PRospect 4-0500

G B Electronics Corp., Subsidiary of General Bronze Corp., Hook Creek Blvd., Valley Stream, L.I., N.Y., 30
See ad on page 246
Tel: LOcust 1-1125

Geisler Labs., Calif., 5, 10, 20, 25
General Bronze Corp., N.Y., 30
General Communication Co., Mass., 5, 10, 15, 25, 45
General Dynamics Corp., Stromberg-Carlson Div., N.Y., 15, 20, 25
General Electronic Labs., Mass., 10, 35

General Radio Co., 275 Massachusetts Ave., Cambridge 39, Mass., 20, 25, 30, 35, 40
See ad on Cover 4
Tel: TRowbridge 6-4400

Gertsch Products, Inc., Calif., 10

Gorham Mfg. Co., 333 Adelaide Ave., Providence 7, R.I., 17, 45
See ad on page 457
Tel: WIlliams 1-1000

Gramatan Instrument Co., N.Y., 5, 10, 17, 20, 30, 35, 45
Haller, Raymond & Brown, Pa., 15, 25, 40
Hamner Electronics Co., Inc., N.J., 25

Hewlett-Packard Co., 275 Page Mill Rd., Palo Alto, Calif., 7, 10, 20, 25, 30, 35, 40, 45
See ad on pages 3-18
Tel: DAvenport 5-4451

Hickok Electrical Instrument Co., Ohio, 10, 15, 20, 25, 35
Hoover Electronics Co., Md., 15, 25, 40
Huggins Labs., Inc., Calif., 20, Backward Wave
International Telephone & Telegraph Corp., Federal Telephone & Radio Co. Div., N.J., 15, 25, 40

International Telephone & Telegraph Corp., Federal Instruments, Industrial Products Div., 250 Garibaldi Ave., Lodi, N.J., 10, 20, 30, 35
See ad on page 484
Tel: PRescott 3-1550

J-V-M Microwave Co., 9305 W. 47th St., Brookfield, Ill., 30, 45
See ad on page 500
Tel: HUnter 5-2000

PULSE GENERATORS

1310A Time Delay Generator—precision delays 10 us to 10 sec in 5 ranges, accurate width gate output.

2120A Pulse Generator—fully calibrated .1—1000 us pulse width, 0—10,000 us delay, 10 cps—100 kc, 80v from 93 ohms, .02 us rise time.



Model 2125B

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3420 Pulse Oscillator — wide range trigger generator 100 cps to 3.3 mc, half period outputs each ±25v .1 us wide.

3450B Megacycle Pulse Generator—200 cps to 2 mc, 0—100 us pulse delay, 1—100 us pulse width, ±50v output.

3460A Megacycle Double Pulse Generator—.1—100 us separately controlled pulse widths, 0—100 us separation, 200 cps to 2 mc, ±35v into 93 ohms separate or mixed.

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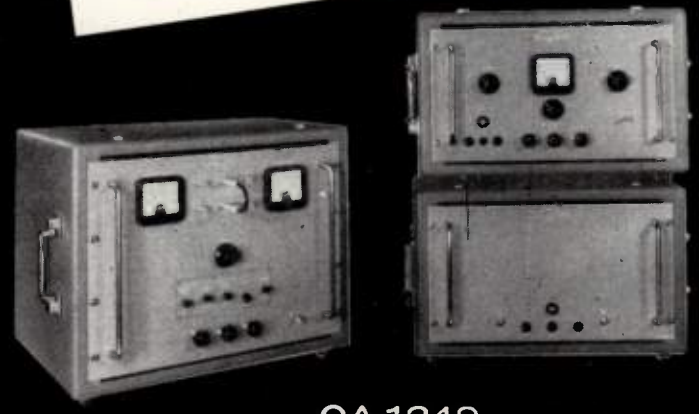
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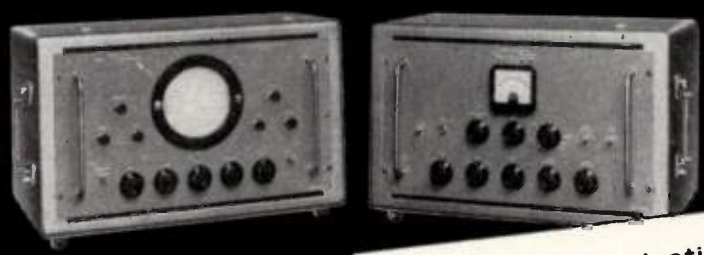
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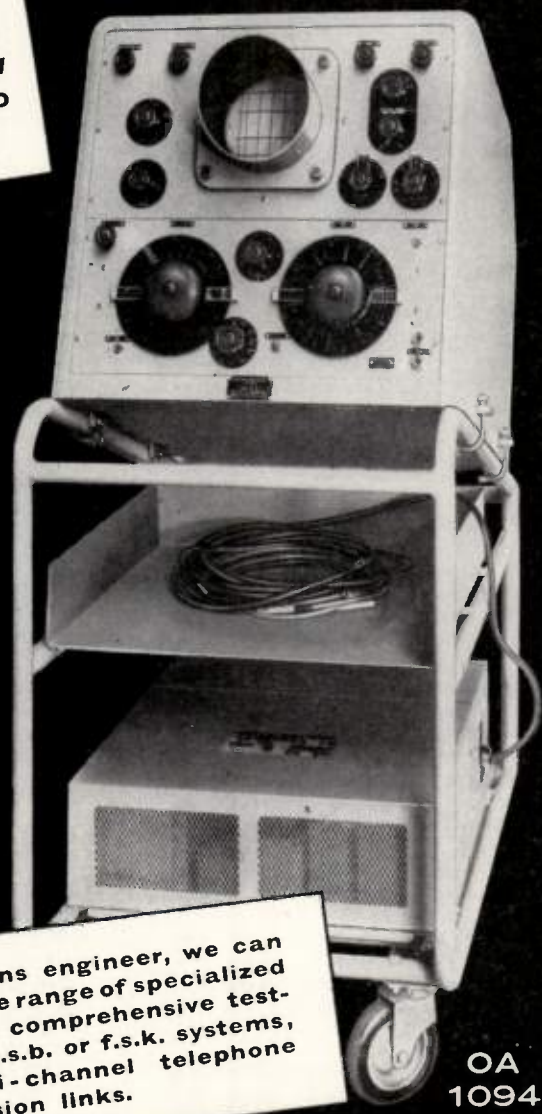
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OA 1259



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Jones Electronics Co., Inc., Conn., 35
Kama Instrument Corp., N.Y., 5, 10, 17, 30, 35, 45
Kay Electric Co., Dept. ID-9, Maple Ave., Pine Brook, N.J., 10, 15, 20, 25, 45
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Tel: CApital 6-4000
Kearfott Co., Inc., 1378 Main Ave., Clifton, N.J., 5, 7, 10, 15, 17, 20, 25, 30, 35, 40, 45
See ad on page 364
Tel: GRegory 2-1000
Kearfott Co., Inc., Microwave Div., Dept. 24 J, 14844 Oxnard St., Van Nuys, Calif., 17, 45
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Tel: STate 6-1760
Lab. for Electronics, Inc., Mass., 20
Lavoie Labs., Inc., Matawan-Freehold Rd., Morganville, N.J., 10, 25
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Tel: MAtawan 1-2600
Levinthal Electronic Prods., Calif., 25
Lieco, Inc., 3610 Oceanside Rd., Oceanside, L.I., N.Y., 17, 30, 45
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Tel: ROckville Centre 6-7620
Ling Systems, Inc., Calif., 45
Loral Electronics Corp., N.Y., 10, 20, 25
Magnetic Research Corp., 3160 W. El Segundo Blvd., Hawthorne, Calif., 25
See ad on page 282
Tel: OSborne 5-1171
Manson Labs., Inc., 207 Greenwich Ave., Stamford, Conn., 20, 25
See ad on page 498
Tel: DAvis 5-1391
Marconi Instruments, 111 Cedar Lane, Englewood, N.J., 10, 25, 30, 35, 45
See ad on page 502
Tel: LOwell 7-0607
Maxson Instruments Corp., N.Y., 20
McPherson Engrg., Co., N.Y., 25
Measurements, A McGraw-Edison Div., P.O. Box 180, Boonton, N.J., 5, 10, 20, 25, 45
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Tel: DEerfield 4-2131
Mendelsohn Speedgun Co., Inc., N.J., 17, 20, Cavities
Menlo Park Engineering, 721 Hamilton Ave., Menlo Park, Calif., 20
See ad on page 451
Tel: DAvenport 6-9080
Meridian Metalcraft, Inc., Calif., 17
Mico Instrument Co., Mass., 45
Microlab, 71 Okner Parkway, Livingston, N.J., 30
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Tel: LIvingston 6-0692
Microsonics, Inc., Mass., 40
Microwave Associates Inc., Mass., 5, 7, 10, 17, 30, 35, 45
Microwave Dev. Labs., Mass., 10, 45
Microwave Engrg. Labs., Calif., 7, 10, 17, 20
Microwave Radiation Co., Inc., Calif., 17
Missouri Research Labs., Mo., 15, 40
Model Engineering & Mfg., Inc., Ind., 25
Mu Beta Products, Calif., 20
Narda Microwave Corp., Dept. IRE-8, 118-160 Herricks Rd., Mineola, L.I., N.Y., 5, 10, 17, 30, 35, 45
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Tel: PIoneer 6-4650
Nevada Air Prods. Co., Nev., 20, 25
Northeast Electronics Corp., N.H., 35
Northern Electric Co., Ltd., Canada, 25
Omega Labs., Inc., Mass., 17, 30, 45
Packard-Bell Electronics, 12333 W. Olympic Blvd., Los Angeles, Calif., 25
See ad on page 204
Tel: BRadshaw 2-2171
Panseal, Inc., N.J., 15, 40
Pitometer Log Corp., N.Y., 17, 20
Polarad Electronics Corp., 43-20 34th St., Long Island City 1, N.Y., 20, 25, 35, spectrum analyzers
See ad on pages 103-104
Tel: EXeter 2-4500
Polytechnic Research & Development Co., N.Y., 5, 7, 10, 17, 20, 30, 35, 45
Portchester Instrument Corp., 114 Wilkins Ave., Port Chester, N.Y., 17, 45
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Tel: WEstmore 9-4092
Premier Instrument Corp., 33 New Broad St., Port Chester, N.Y., 10, 17, 45
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Tel: WEstmore 9-8900
Press Wireless Laboratories, Inc., 30
Production Research Corp., N.Y., 10
Pye Telecommunications, England, 25
Radar Design Corp., N.Y., 17, 30, 35, 45
Radiation, Inc., P. O. Box 37, Melbourne, Fla., 25
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Tel: 1800
Radio Res. Inst. Co., N.Y., 10, 17, 20, 45
Ramo-Wooldridge Corp., Calif., 35
Raytheon Mfg. Co., Mass., 20
Remanco, Inc., Calif., 25, 40
Resdel Engineering Corp., Calif., 20, 25
Rutherford Electronics Co., Calif., 25, 40
Sage Laboratories, Mass., 10, 17, 30, 45
Sanders Associates, Inc., N.H., 17, 30
Saratoga Industries, N.Y., 10, 17, 20, 25, 45
Scientific Engineering Laboratory, 1510 6th St., Berkeley 10, Calif., 25
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Tel: LAndscape 6-2772
Siemens & Halske A. G., Germany, 10, 20, 30, 45
Sierra Electronic Corp., 3753D Bohannon Dr., Menlo Park, Calif., 7, 35
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Tel: DAvenport 6-2060
Sivers Lab., Sweden, 10, 17, 20, 30, 35, 45
Solartron Electr. Group, England, 35
Spectralab Instruments, Calif., 20



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77. Microwave & Radar Test Equipment.

Spencer-Kennedy Labs., Inc., Mass., 25
Sperry Gyroscope Co., Electronic Tube Div., N.Y., 20
Sperry Gyroscope Co., Microwave Electronics Div., N.Y., 5, 10, 15, 17, 25 30, 35, 40, 45, Peak Power Meter, Combination Radar Test Set, Radar Performance Tester, Spectrum Analyzer, Wattmeter Bridges
Sperry Gyroscope Co. of Canada, Ltd., Canada, 15, 25
Spivey Inc., James S., D.C., 25
Sticht Co., Inc., Herman H., 27 Park Place, New York 7, N.Y., 10
See ad on page 363
Tel: REctor 2-8163
Technicraft Labs, Inc., Conn. 30
Technitrol Engineering Co., Pa., 25
Telecomputing Corp., Calif., 25
Telectro Industries Corp., N.Y., 10, 25, 35, 45
Telerad Mfg. Co., N.Y., 5, 10, 15, 17, 20, 25, 30, 35, 45, Beacons
Teletronics Laboratory, N.Y., 20, 25
Telonic Industries, Inc., Ind., 15, 25
Triplett Electrical Inst. Co., Ohio, 15
Uniwave, Inc., N.Y., 5, 10, 30, 45
Van Norman Industries, N.H., 20
Varian Associates, 611 Hansen Way, Palo Alto 2, Calif., 7
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Tel: DAvenport 6-4000
Vectron, Inc., Mass., 15, Spectrum Analyzers, Multipulse Gating Unit
Wac Line, Inc., Ohio, 10, 30, 45
Waldorf Instrument Co., N.Y., 15, 45
Wave Particle Corp., Calif., 20
Waveline, N.J., 10, 17, 20, 30, 35, 45
Wayne-Kerr Labs., Pa., 5, 20, 25, 45
Weinschel Engineering, 10503 Metropolitan Ave., Kensington, Md., 20, Insertion Loss Test Set
See ads on pages 287, 503
Tel: LOckwood 4-0122
Weston Instruments, Div. Daystrom, Inc., N.J., 10
White Electron Devices, N.J., 20

Milli-ammeters: See class 42

Multimeters: See class 72

Multi-vibrators: See class 80

Noise analyzers: See class 67

78. Nuclear Equipment.

5. Beta gauges
10. Crystals
15. Dosimeters
20. Ionization chambers
25. Ionization gauges
30. Particle accelerators
35. Pulse count integrators
40. Radiation detectors
45. Scalers
50. Survey meters

ACF Industries Inc., Erco Div., Md., 40
AME, France, 35, 50
Airmec, Ltd., England, 40, 45
American Electronics Inc., Calif., 40, 45
American Tradair Corp., N.Y., 5, 10, 35, 40, 45, 50
Anton Electronic Labs., Inc., N.Y., 5, 20, 40, 50, Air Particle Monitor

78. Nuclear Equipment.

Applied Physics Corp., Calif., 20
Applied Radiation Corp., Calif., 30
Atomic Labs., Inc., Calif., 30, 40
Auto Coil Winder-Elec. Equip. Co., England, 5, 25, 40, 50
Baird-Atomic, Inc., 33 University Rd., Cambridge 38, Mass., 5, 15, 35, 40, 45, 50
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Tel: UNiversity 4-7420
Bar-Ray Prods., Inc., N.Y., Radiation Shielding
Bassett, Inc., R., Fla., 10
Bausch & Lomb Optical Co., N.Y., 15
Beckman/Berkeley Div., Calif., 45
Bendix Aviation Corp., Ohio, 15, 20, 40, 50, Pulse Height Analyzer
Borg-Warner Corp., BJ Electronics Div., Calif., 5, 10, 15, 40, 45, 50
Bracke-Seib X-ray Co. Inc., N.Y., X-ray Generator
Brooks Resch., N.Y., 30, 35, 40, 45, 50
Central Electronics Mfg. Inc., N.J., 25
Chatham Electronics, N.J., 40, 50
Computing Devices of Canada, Canada, 35
Connecticut Tel. & Elec. Co., Conn., 15, 40, 50
Curtiss-Wright Corp., 631 Central Ave., Carlstadt, N.J., 5
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Daystrom, Inc., N.J., 15, 20, 40, 45, 50
Dominion Electrohome Ind., Ltd., Canada, 5, 10, 15, 20, 25, 40, 45, 50
E A K Research Labs., N.Y., 40
E M I Electronics Ltd., England, 40
Elcor, Inc., Va., 45, Current Indicators & Integrators
Eldorado Electronics, Calif., 35, 45, Pulse Height Analyzer
Electrical & Phys. Instr. Corp., N.Y., 45
Electronic Prods. Co., N.Y., 40, 50
Electronic Research Labs., Mass., 25
Engineered Electronics Co., Calif., 45
Engineering Specialties, Ohio, 20, 35
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Etelco, Ltd., England, 40, 45, 50
Fairchild Camera & Inst., N.Y., 40
Ferranti Electric, Ltd., Canada, 15, 50
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Fleetwood Labs., Inc., N.Y., X-ray Thickness Gauges
Franklin Electronics, Inc., Pa., Linear Amplifiers, 35, 45, Pulse Analyzers
Geisler Labs., Calif., 25, 30
General Electric Co., Apparatus Sales Div., N.Y., 20, 25, 30, 35
General Electric Co. Instrument Dept., Mass. 20, 25, 40
General Electric Co., X-ray Dept., Wis., 5, 30
Gulton Industries, Inc., N.M., 30, 35
Hamner Electr. Co., N.J., 35, 40, 45
Heath Co., Subsidiary of Daystrom, Inc., Benton Harbor 4, Mich., 40
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Hewlett-Packard Co., 275 Page Mill Rd., Palo Alto, Calif., 45
See ad on pages 3-18
Tel: DAvenport 5-4451
High Vacuum Equip. Corp., Mass., 20, 25
High Voltage Engr. Corp., Mass., 30, X-ray Equip.
Industrial Nucleonics Corp., Ohio, 5, 40
Industrial Teltronics, Inc., Mich., Nuclear Shielding
Jacobs Instrument Co., Md., 45
Jordan Electronics, Inc., Calif., 20, 40, 50
Landsverk Electrometer Co., Calif., 15, 20, 40, 50
Levinthal Electronic Prods., Calif., 10
Mackay, Inc., A. D., N.Y., 10
Manhattan Physical Research Group, Inc., N.Y., 5, 15, 20
Manufacturers Engrg. & Equip. Corp., Pa., 40
Measurement Engrg. Ltd., Canada, 40
Menlo Research Lab., Calif., 40, 50
Metalab Equipment Co., N.Y., Fume Hoods for Radioactive Materials
Montek Associates, Inc., Utah, 25, 35
Moran Instrument Corp., Calif., 40
Multi-Tron Lab., Inc., Ill., 30
NRC Equipment Corp., Dept. 129, 160 Charlemont St., Newton 61, Mass., 25
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Tel: DEcatur 2-5800
Nebel Laboratory, N.Y., 10
Nevada Air Prods Co., Nev., 40
Nichols Ltd., R. H., Canada, 50
Nuclear-Chicago Corp., Ill., 10, 15, 20, 40, 45, 50
Nuclear Corp. of America, Inc., Mo., 5, 10, 15, 20, 25, 40, 45, 50
Nuclear Corp. of America, Inc., N.Y., 5, 10, 15, 20, 25, 35, 40, 45, 50
Nuclear-Electronics Corp., Pa., 20, 35, 40, 45, 50
Nuclear Research Corp., Pa., 40
Nucleonic Corp. of America, N.Y., 5, 15, 20, 25, 40, 45, 50
Pacific Electro-Nuclear Co., Calif., Pulse Height Analyzer
Pacific Transducer Corp., Calif., 15, 40
Patterson Moos, N.Y., 5, 10, 15, 40
Philips Electronics, Inc., N.Y., 45, Impulse Generator
Potter Aeronautical Corp., N.J., 3
Radiation Inst. Dev. Lab., Ill., 45
Radio Craftsmen, Calif., 40
Resitron Labs., Inc., Calif., 20, 25
Robertshaw-Fulton Controls, Calif., 5
St. John X-ray Laboratory, N.J., 15
Saratoga Industries, N.Y., 20, 40, 50
Scientific Engineering Laboratory, 1510 6th St., Berkeley 10, Calif., 45
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Semi-Elements, Inc., Pa., 40
Single Crystal Corp. of America, Pa., 10
Sivers Lab., Sweden, Pulse Height Analyzers
Specialty Engineering & Electronics Co., N.Y., 15, 50
Sperry Gyroscope Co. of Canada, Ltd., Canada, 15, 50
Standard Crystal Co., Mo., 10
Summers & Mills, Inc., Tex., 40
Systron Corp., Calif., 45
Technical Associates, Calif., 20, 40, 45, 50
Technical Measurement Corp., Conn., 10, Reactor Monitoring Equip., Radiation Monitors
Tracerlab Inc., Mass., 5, 10, 15, 20, 25, 35, 40, 45, 50
United States Dynamics Corp., Mass., 10
United States Radium Corp., N.J., Isotopes
Universal Transistor Products Corp., N.Y., 15, 40, 50

Directory III. Controls & Instruments

78. Nuclear Equipment.

Vacuum Tube Products Co., Calif., 25
Varian Associates, 611 Hansen Way, Palo Alto 2, Calif., 30, linear accelerators
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Tel: DAvenport 6-4000
Veeco Vacuum Corp., 86-K Denton Ave., New Hyde Park, L.I., N.Y., 25
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Tel: PIoneer 6-1161
Victoreen Instrument Co., 5806 Hough Ave., Cleveland 3, Ohio, 15, 20, 35, 40, 45, 50
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Virginia Research Associates, Va., 30
Wave Particle Corp., Calif., 30
Welch Mfg. Co., W. M., Ill., 25
Western Radiation Lab., Calif., 5, 40, Radio-Isotopes
Westinghouse Electric Corp., N.Y., 20, 25, 40
Westlake Plastics Co., Pa., 40

Null indicators: See class 72

Ohm meters: See class 72

Oscillators, beat frequency: See class 67

Oscillators, microwave: See class 77

Oscillators, RC: See class 67

Oscillators, radio frequency: See class 80

79. Oscilloscopes—Cathode-Ray.

5. General purpose
10. Oscilloscope cameras
15. Oscillosynchroscopes
20. Recording oscillographs
25. Special UHF & pulse analysis equipment
30. Time & voltage-calibrators

ACF Industries, Inc., N.J., 5
Advanced Electr. Mfg. Corp., Calif., 5
Aeroquip Corp., Mich., Hydrauliscope
Airmec Ltd., England, 5
Allegany Instrument Co., Md., 20, 30
American Electronic Labs., Inc., Pa., 5
Ansco Div., N.Y., 10
Armstrong Whitworth Aircraft, England, 10, 20
Avco Mfg. Co., Crosley Div., Ohio, 5
Beam Instrument Corp., N.Y., 5, 10
Beattie-Coleman, Calif., 10, Recording
Beckman & Whitley, Inc., Calif., 10
Berkshire Labs., N.H., 30
Brooks Research, Inc., N.Y., 25
Central Research Labs., Minn., 20, 25

79. Oscilloscopes—Cathode-Ray.

Century Electronics & Instruments, Inc., Okla., 20
Clegg Labs. Div., Clegg, Inc., N.Y., 25
Compagnie Generale De Metrologie, France, 5
Consolidated Electrodynamics Corp., Calif., 20
Cossor (Canada) Ltd., Canada, 5, 10
Dallons Labs., Inc., Calif., Cardioscopes
Daystrom, Inc., N.J., 5
Dumont Labs., A. B., Automotive Div., N.J., 10, Automotive
Dumont Labs., Inc., A. B., Instr. Div., N.J., 5, 10, 25
Dunlap Electronics, Inc., Iowa, 20, 30
E M I Electronics, Ltd., England, 5, 10, 20, 25
Edgerton, Germeshausen & Grier Inc., Mass., 5
Edin Co., Inc., Mass., 20
Electro Medical Lab., Inc., Vt., 10
Electronic Tube Corp., Pa., 5, 10, 15, 20, 30
Fairchild Camera & Instr. Corp., N.Y., 10
General Electric Co., Apparatus Sales Div., N.Y., 5, 20
Hamilton Watch Co., Colo., 20
Hamilton Watch Co., Pa., 20
Heath Co., Subsidiary of Daystrom, Inc., Benton Harbor 4, Mich., 5
See ad on page 482
Tel: YUkon 3-3961
Heitz Inc., Karl, N.Y., 10
Hewlett-Packard Co., 275 Page Mill Rd., Palo Alto, Calif., 5
See ad on pages 3-18
Tel: DAvenport 5-4451
Hickok Electrical Inst. Co., Ohio, 5, 30
Hogan Labs., Inc., N.Y., 20
Hughes Products, Calif., 5
Hycon Electronics, Inc., Calif., 5
Industrial Television Inc., N.J., 5
International Electronics Corp., N.Y., 5
International Telephone & Telegraph Corp., Federal Instruments, Industrial Products Div., 250 Garibaldi Ave., Lodi, N.J., 5
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Tel: PRescott 3-1550
Jackson Electrical Inst. Co., Ohio, 5
Kama Instrument Corp., N.Y., 25
Lab. for Electronics, Inc., Mass., 5
Lavoie Labs., Inc., Matawan-Freehold Rd., Morganville, N.J., 5, 15, 30
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Tel: MAtawan 1-2600
Loral Electronics Corp., N.Y., 5
Midwestern Instruments, Okla., 20
Millen Mfg. Co., Inc., James, 150 Exchange St., Malden 48, Mass., 5, 15, 25, 30
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Tel: DA 4-4108
Minneapolis-Honeywell Reg. Co., Heiland Div., Colo., 20
Model Engineering & Mfg., Ind., 5
Mullard Overseas, England, 5, 10, 25
National Scientific Labs., D.C., 20, 25
Nichols, Ltd., R. H., Canada, 20
Optomechanisms, Inc., N.Y., 10
P B R Mfg. Co., Pa., Mobile Oscilloscope Dolly
Photographic Prods., Inc., Calif., 10
Photron Instrument Co., Ohio, 20
Precise Development Corp., N.Y., 5, 15
Precision Apparatus Co., Inc., N.Y., 5
Probescope Co., Inc., 8 Sagamore Hill Dr., Port Washington, L.I., N.Y., 5, 25
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Tel: POrt Washington 7-8150
Radio City Products Co., Inc.. Pa., 5
Radio Corp. of America, Electron Tube Div., Section I-20-Q, 415 S. Fifth St., Harrison, N.J., 5
See ad on pages 113-116
Tel: HUmboldt 5-3900
Radiometer, Denmark, 5
Railway Communications Inc., Mo., 5, Multi-Channel Oscilloscope
Rank Cintel, Ltd., England, 5
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Spivey, Inc., James S., D.C., 5, Teletype Communications Monitor
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Technitrol Engineering Co., Pa., Cathode-Ray Indicator
Tektronix, Inc., Ore., 5, Dual Beam & Spec. Purpose
Telechrome, Inc., 28 Ranick Dr., Amityville, L.I., N.Y., 10
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Tel: PRospect 6-7445
Triplett Electrical Inst. Co., Ohio, 5
Waterman Products Co., Inc., 2445 Emerald St., Philadelphia 25, Pa., 5, 15, 25
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Waters Manufacturing, Inc., Boston Post Rd., Wayland, Mass., 5
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Tel: ELmwood 8-2777
Weston Instruments, N.J., 5

Phase meters: See class 80

Photo electric controls: See class 68



Pilots Check Out

NAVIGATION RECEIVER ACCURACY

ARC Type H-14A Signal Generator Checks Omni/Localizer Equipment

ARC's H-14A Signal Generator provides a simple and dependable means of checking *omnirange* and *localizer receivers* in aircraft on the field, by sending out on the hangar antenna a continuous test identifying signal that blankets the field. Tuned to this signal, individual pilots or whole squadrons can quickly test their own equipment. Voice can be transmitted simultaneously with signal. The instrument will check 24 omni courses, omni course sensitivity, operation of TO-FROM meter and flag-alarms, left-center-right on 90/150 cps localizer, receiver frequency calibration, reciprocal course accuracy, and receiver output. The H-14A is also widely used for making quantitative measurements on the bench during receiver maintenance. Input power is 160 watts, 115 volts 60 cps.

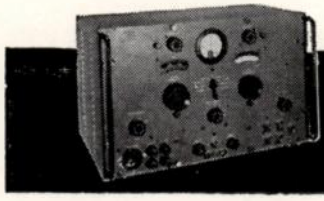
The H-16A Standard Course Checker measures the accuracy of the indicated omni course in ARC's H-14A or other omni signal generator to better than ½ degree. It features a built-in method of checking its own precision.

ARC's Type H-12 Signal Generator (900-2100 mc) is equal to military TS-419 U, and provides a reliable source of CW or pulsed rf. Internal circuits provide control of width, rate and delay of internally-generated pulses. Complete specifications on request.

Dependable Airborne Electronic Equipment Since 1928

Aircraft Radio Corporation BOONTON, NEW JERSEY

Miniaturized Automatic Direction Finders • Omni/Loc Receivers • Course Directors • UHF and VHF Receivers and Transmitters
LF Receivers and Loop Direction Finders • 10-Channel Isolation Amplifiers • 8-Watt Audio Amplifiers
Interphone Amplifiers • Omnirange Signal Generators and Standard Course Checkers • 900-2100 Mc Signal Generators



Type H-12
UHF Signal Generator



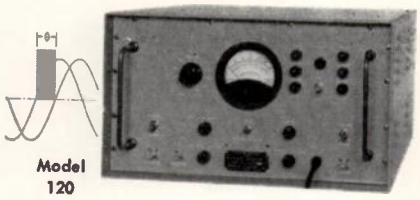
Type H-16
Standard Course Checker

ARC

For details, circle #467 on Reader Service Card

Directory III. Controls & Instruments

Precision Instruments



Model 120

Phase Angle Meter and Monitor

- ***Direct Reading Without Ambiguity:***
Phase angle is read directly on a large 4½" meter. The Coarse Meter Scale is graduated from 0° to 360° in 5° divisions. A selector switch cancels out all but the last 30° of any measured phase angle, providing a vernier reading on a 0° to 30° scale which is graduated in 0.5° divisions.
- ***High Accuracy Over a Wide Frequency And Amplitude Range:***
An accuracy of ± 1 degree is obtained over the frequency range of 20 cps to 20,000 cps and from 2 to 30 volt peak input. At frequencies of 20,000 to 100,000 cps phase measurements can be made at slightly reduced accuracy.
- ***Accepts Sinusoidal or Complex Wave Forms:***
Since the method of phase detection is based on the point of zero cross-over, any type of wave form is acceptable which does not cross the zero axis more than once in a given direction per cycle.
- ***Recorder Output:***
An output is available which is suitable for use with recording equipment. It provides 0 to 10 volts DC corresponding to a phase angle of 0 to 360°.
- ***Rugged:***
Originally designed for Military use, as Monitor, Phase AN/URM-67



Precision Pulse Delay Generator

Model 131

- Ranges: 100 to 999,900 yards in 100 yard steps.
- Accuracy: ± 5 yards or 0.01%.
- Input Trigger: 50 to 5,000 P.P.S. random source accepts up to 10% jitter.
- Pulse Widths: 0.1, 0.6, and 4.0 μ secs.
- Rise Time: 0.05 μ secs.
- Amplitude: Up to ± 50 volts into 75.Ω
- Output: Strobe and Trains—Train spacing 1,000, 10,000 or 100,000 yds.
- Internal Trigger Generator: 50 to 500 and 500 to 5,000 P.P.S.
- Power Requirements: 115 volts ± 10%; 50 to 450 cycles, 300 watts.
- Also available: Model 130 with range of 1 to 10,000 μ secs. in 0.1 μ sec. step.

VHF-UHF Frequency Calibrator

Model 121



- Wide Frequency Range:
Covers entire spectrum from 50 mc to 11,000 mc without the use of tuning controls.

- Ease of Operation:
A flick of the switch delivers the full spectrum. A switch provides a choice of 50 mc or 100 mc spacing. The amplitudes of the marker signals are adjusted by an output level control.

- Accurate:
(±) 0.005% at any frequency, unaffected by temperature or input power variations.

- Compact; Rugged; Light Weight:
Built to the same specifications as its Military equivalent of Test Set AN/USM-45.

CONTROL ELECTRONICS CO., INC.
10 Stepar Place
Huntington Station, New York

For details, circle #468 on Reader Service Card

Production control equipment: See class 68

Pulse count integrators See class 78

Pulse generators: See class 77

Pyrometers: See class 72

"Q" meters: See class 80

R C oscillators: See class 67

Radiation detectors: See class 78

80. Radio Frequency Test Equipment.

5. Field strength meters
10. Impedance & admittance meters
15. Marker generators
20. Multi-vibrators
25. Oscillators
30. Phase meters
35. "Q" meters
40. RF power output meters
42. RF signal generators
45. Signal generators, AM
50. Signal generators, FM
52. Signal generators, SSB
55. Sweep generators

A. R. F. Products, Inc., Ill., 50
Adler Electronics, Inc., N.Y., 42
Ad-Yu Electronics Lab., Inc., 249 Terhune Ave., 30
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Tel: GRegory 2-5622
Aerotronic Associates, N.H., 40
Aircom, Inc., 354 Main St., Winthrop 52, Mass., 25, 40, 55
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Aircraft Armaments, Inc., Md., 42, 55
Aircraft Radio Corp., Boonton, N.J., 42, 45
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Alto Scientific Co., Calif., 10, 25, 45
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Auto Coil Winder-Elec. Equip. Co., England, 25, 35, 42, 45, 50
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B & K Mfg. Co., Ill., 42
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Barker & Williamson, Inc., Pa., 40
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Bellaire Electronics, Inc., N.J., 5, 40
Benco TV Associates Ltd., Canada, 5
Bergen Laboratories, Inc., 247 Crooks Ave., Clifton, N.J., 30
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Tel: GRegory 3-7800
Bird Electronics Corp., 1800 E. 38th St., Cleveland 14, Ohio, 40, RF Wattmeters
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Tel: EXpress 1-3535
Blonder-Tongue Labs., Inc., N.J., 5

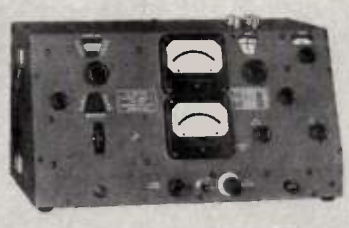
80. Radio Frequency Test Equipment.

Boonton Electronics Corp., 738 Speedwell Ave., Morris Plains, N.J., 25, 40
See ad on page 481
Tel: JEfferson 9-4210
Boonton Radio Corp., Intervale Rd., Boonton, N.J., 10, 15, 25, 35, 42, 45, 50, 55, Voltage Stds. RF
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Tel: DEerfield 4-3200
Borg-Warner Corp., BJ Electronics Div., Calif., 25, 42, 50, 55
Browning Labs. Inc., Mass., WWV Frequency Calibrator Receiver
Bruno-N.Y. Industries Corp., N.Y., 42
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Budelman Electronics Corp., Conn., 40
Canadian Research Inst., Canada, 25, 45
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Clegg Labs., N.Y., 25, 52
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Compagnie Generale De Metrologie, France, 25, 42, 45, 50, 55
Connecticut Tel. & Elec. Co., Conn., 42, 45, 50
Consolidated Electrodynamics Corp., Calif., 25
Control Electronics Co., Inc., 10 Stepar Place, Huntington Station, L.I., N.Y., 5, 15, 30, 40
See ads on pages 343, 507
Tel: HAmilton 7-7961
Cossor (Canada) Ltd., Canada, 15
Crosby Labs., Inc., N.Y., 52
Daystrom, Inc., N.J., 5, 20, 25, 35, 40, 42, 45, 50, 55
Decade Instrument Co., N.J., 25, 55
Defiance Engrg. & Microwave Corp., Mass., Noise Generators
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Dymec, Inc., Calif., 25, 40, 42, 45, 50, 55
Dynamic Instrument Corp., 59 New York Ave., Westbury, L.I., N.Y., 30, angle
See ad on page 514
Tel: EDgewood 3-1600
E M I Electronics, England, 25, 40, 55
Eastern Specialty Co., Pa., 30
Electro Impulse Lab., Inc., 208 River St., Red Bank, N.J., 40
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Tel: SHadyside 1-0404
Electronic Instrument Co., Inc., N.Y., 15, 42, 45, 55
Elk Electronic Labs., Inc., N.Y., 5, 25, 35, 42, 45, 50
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Emerson Radio & Phono Corp., Md., 40, 42, 45, 50
Empire Devices Products Corp., 37 Prospect St., Amsterdam, N.Y., 5, 42, 45
See ad on page 462
Tel: VIctor 2-8400

BRC ELECTRONIC TEST and MEASURING INSTRUMENTS



Q METER TYPE 190-A



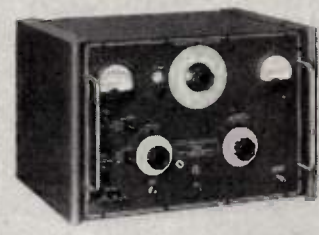
Q METER TYPE 260-A



RX METER TYPE 250-A



SWEEP SIGNAL GENERATOR
TYPE 240-A



FM-AM SIGNAL GENERATOR
TYPE 202-E



RF VOLTAGE STANDARD
TYPE 245-A



UNIVERTER TYPE 207-E



FILM GAUGE TYPE 255-A

Q METERS

Type	Freq. Range	Q Range	Tuning Capacity Range	Q Accuracy	Price
260-A	50 kc to 50 mc	10 to 625	30-450 mmf	5% to 30 mc	$775.
190-A	20 mc to 260 mc	5 to 1200	7.5 to 100 mmf	7% to 100 mc	$760.

FM-AM SIGNAL GENERATORS

Type	Freq. Range	Output Range	Modulation FM	Modulation AM	Application	Price
202-E	54-216 mc	0.1 to 200,000 μv	0-240 kc	0-50%	General	$1090.
202-F	175-250 mc	0.1 to 200,000 μv	0-240 kc	0-100%	Telemetering	$1075.

SWEEP SIGNAL GENERATOR

Type	Freq. Range	Output Range	Modulation FM	Modulation AM	Markers	Price
240-A	4.5 to 120 mc	1.0 to 300,000 μv CW 1.0 to 100,000 μv	±1% to ±30% Center Freq.	30%	Crystal & Pip.	$1585.

OMNI-RANGE SIGNAL GENERATOR (Crystal Monitored)

Type	Freq. Range	Output Range	Modulation	Application	Price
211-A	88-140 mc	0.1 to 200,000 μv	0-100% am	Omni-Range Rcvrs.	$1800.

GLIDE SLOPE SIGNAL GENERATOR

Type	Freq. Range	Output Range	Modulation	Application	Price
232-A	329-335 mc	1.0 to 200,000 μv	0-100% am	Glide Slope Rcvrs.	$1700.

WIDE BAND IMPEDANCE MEASURING EQUIPMENT—RX Meter

Type	Freq. Range	R Range	C Range	L Range	Price
250-A	0.5 to 250 mc	15 to 100,000 ohms	0-20 μμf	0.001 μh-100 mh	$1320.

RF VOLTAGE STANDARD

Type	Freq. Range	Calibrated Out.	Output Impedance	Application	Price
245-A	0.1 to 1,000 mc	0.5,1.0,2.0 μv	50 ohms	Calibrates Signal Generators	$360.

UNIVERTERS

Type	Freq. Range	Output Range	Modulation FM	Modulation AM	Accessory to	Price
207-E	0.1 to 55 mc	0.1 to 100,000 μv	0-240 kc	0-50%	202-E	$390.
207-F	0.1 to 55 mc	0.1 to 100,000 μv	0-240 kc	0-50%	202-F	$380.
203-B	0.1 to 25 mc	1.0 to 100,000 μv	1.5 to 30 mc	30%	240 A	$380.

FILM GAUGE

Type	Measures	Thicknesses	Price
255-A	Non-magnetic Metals	0.000004" to 0.0002"	$450.

RX METER:
Wide Frequency Band RF Bridge

Q METERS:
Low, Medium, High and Very High Frequencies

UNIVERTERS:
Low, Medium and High Frequency Converters

SIGNAL GENERATORS:
Frequency and Amplitude Modulated for Aircraft Navigation, Mobile and TV Receivers, Precision broad band sweeps with markers

SIGNAL GENERATOR CALIBRATORS:
RF Voltage Standard in the low microvolt range over a wide frequency range

FILM GAUGE:
Measures metal film and plating thicknesses

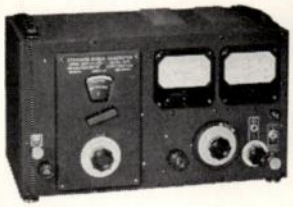
BOONTON RADIO CORPORATION
Boonton, New Jersey

For details, circle #469 on Reader Service Card



MODEL 65-B
Standard
Signal Generator

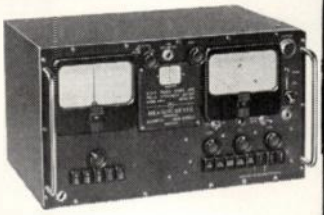
MODELS 80 and 80-R
Standard
Signal Generators





MODEL 210 Series
FM Standard
Signal Generators

MODEL 58-AS
VHF Radio Noise
and
Field Strength
Meter





MODEL 72
Square Wave
Generator

MODEL 202-C
Standard Barretter
Bridge





MODEL 59
Megacycle
Meter



MODEL 179
Standard
Pulse
Generator

MODEL 162
Vacuum
Tube
Voltmeter



MEASUREMENTS'
Electronic Instruments for Research, Development and Design

STANDARD SIGNAL GENERATORS

MODEL	FREQUENCY RANGE	PRICE
65-B	75 Kc to 30 Mc	$875.00
80	2 Mc to 400 Mc	590.00
80-R	5 Mc to 475 Mc	625.00
82	20 cps to 200 Kc 80 Kc to 50 Mc	660.00
84-TVR	400 Mc to 1000 Mc	785.00
95	50 Mc to 400 Mc	1800.00
210 Series	25 Mc to 480 Mc	450.00 to 475.00

VHF RADIO NOISE AND FIELD STRENGTH METER

MODEL	FREQUENCY RANGE	PRICE
58-AS	15 Mc to 150 Mc	$925.00

SQUARE WAVE GENERATORS

MODEL	FREQUENCY RANGE	PRICE
71	6 cps to 100,000 cps	$195.00
72	5 cps to 5 Mc	248.00

MEGACYCLE "GRID-DIP" METERS

MODEL	FREQUENCY RANGE	PRICE
59-LF	100 Kc to 4.5 Mc	$168.00
59	2.2 Mc to 420 Mc	168.00
59-UHF	420 Mc to 940 Mc	198.00

VACUUM TUBE VOLTMETERS

MODEL	FREQUENCY RANGE	PRICE
67	5 to 100,000 sine-wave cps	$235.00
162	27 cps to over 150 Mc	210.00

CRYSTAL CALIBRATORS

MODEL	FREQUENCY RANGE	PRICE
111	250 Kc to 1000 Mc	$ 97.50
111-B	100 Kc to 1000 Mc	110.00

STANDARD BARRETTER BRIDGE

MODEL	FREQUENCY RANGE	PRICE
202-C	2 Mc to 1000 Mc	$375.00

STANDARD PULSE GENERATOR

MODEL	FREQUENCY RANGE	PRICE
179	60 cps to 100,000 cps	$365.00

This is only a partial listing of Measurements' products.
Write for our complete Catalog.

Laboratory Standards

MEASUREMENTS
A McGraw-Edison Division
BOONTON, NEW JERSEY

For details, circle #470 on Reader Service Card

Directory III. Controls & Instruments

80. Radio Frequency Test Equipment.

Engineering Associates, 434 Patterson Rd., Dayton 9, Ohio, 42, 45, 50, 55
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Tel: AXminister 3-1662

Espey Mfg. Co., Inc., N.Y., 5

F-R Machine Works, Inc., 26-12 Borough Pl., Woodside 77, N.Y., 42
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Tel: AStoria 8-2800

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General Communication Co., Mass., 15, 42, 55

General Electric Co., Apparatus Sales Div., N.Y., 20, 25, 30

General Electronic Labs., Inc., Mass., 5

General Radio Co., 275 Massachusetts Ave., Cambridge 39, Mass., 10, 25, 42, 45
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Tel: TRowbridge 6-4400

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Gramatan Instrument Co., N.Y., 25

Hallamore Electronics Co., Calif., 30

Heath Co., Subsidiary of Daystrom, Inc., Benton Harbor 4, Mich., 5, 35, 40, 42, 55
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Tel: YUkon 3-3961

Hewlett-Packard Co., 275 Page Mill Rd., Palo Alto, Calif., 25, 40, 42, 45, 55, phase shifter
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Tel: DAvenport 5-4451

Hickok Electrical Instrument Co., Ohio, 5, 15, 25, 42, 45, 50, 55

Hill Electronic Engrg. & Mfg. Co., Inc., Pa., 25

Hupp Electronic Co., Pa., 15, 20

Industrial Television, Inc., N.J., 5

Industron Co., N.Y., 50

Interference Testing-Research Lab., Inc., Mass., 5

International Crystal Mfg. Co., Inc., Okla., 25, 42

International Telephone & Telegraph Corp., Federal Telephone & Radio Co., Div., N.J., 40, 42

International Telephone & Telegraph Corp., Federal Instruments, Industrial Products Div., 250 Garibaldi Ave., Lodi, N.J., 5, 10, 25, 30, 40, 42, 45, 50, 55
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Tel: PRescott 3-1550

Jackson Electrical Instrument Co., Ohio, 15, 25, 55

Jerrold Electronics Corp., Dept. 23, Jerrold Bldg., 15th & Lehigh, Philadelphia 32, Pa., 5, 55
See ad on page 518
Tel: BAldwin 6-3456

Jerrold Electronics, Ltd., Canada, 5

PANORAMIC'S *long and specialized experience in electronic measurement guarantees reliable instrumentation to speed your research and development projects...solve your production testing problems*

Panoramic's widely accepted and completely dependable SPECTRUM ANALYZERS provide stable displays for rapid accurate analyses — 0.5 cps to 44,000 mc

For low frequencies—



Model LF-2 0.5-2,250 cps
- 0.1-20 cps resolution
- Six sweep widths—2 to 500 cps
- 10-sec.-16-min. scan intervals
- Built-in-chart recorder
- High stability

Model LP-1a 20-22,500 cps
- Broad range log freq. scale 40-cps-20 kc
- 200, 1000 or 5000 cps linear segments centered anywhere from 0-20 kc
- Linear and 2-decade log amplitude scales

For the ultrasonic range—

Model SB-7bZ 1-300 kc
- Continuously variable sweep width (0-200 kc), C.F. and I.F. bandwidth
- Linear, 2-decade log and 2.5 db expanded amplitude scales
- Discriminator controlled linearity and stability

Model SB-15 0.1-525 kc



- Continuously variable C.F., sweep width, scan rate and I.F. bandwidth
- Linear, 2-decade log and 2.5 db expanded amplitude scales
- Highly versatile for varied applications

For RF • VHF • UHF analysis up to 1000 mc—

Model SB-12a Panalyzor Type T-100



- 60 db dynamic range
- 10 cps resolution capability
- 100 kc max. sweep width
- Critically designed for sensitive analyses . . . testing SSB systems

Model SB-8b Panalyzor in 3 Types
- Max. sweep width ranges 200 kc to 10 mc
- Resolution ranges of 50 cps to 100 kc
- Continuously variable sweep width, resolution and scan rate
- Lin, log and power amplitude scales

Model SB-3 Panalyzors in 5 Types
- General purpose workhorse
- Max. sweep width ranges of 50 kc-6 mc
- Resolution ranges 1 kc to 50 kc
- 3" CRT
- Line synchronized sweep rate
- Continuously variable sweep width

Panadaptors Model SA-8b in 3 Types; Model SA-3 in 11 Types
- Designed to operate with receivers with I.F.'s from 455 kc to 30 mc
- Show signals on either side of frequency to which receiver is tuned
- Max. sweep width ranges 50 kc to 10 mc

For high frequencies—

Model SPA-1 50-4,000 mc



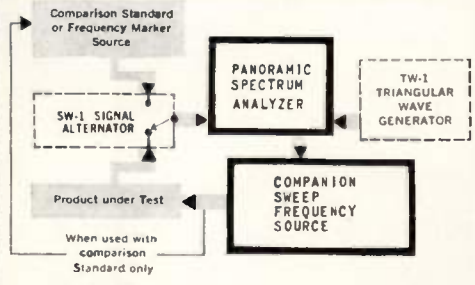
- High inherent stability
- Sensitivities up to —100 dbm with internal preamplifier
- Continuously variable sweep width (10 mc-0), resolution, scan rate and differential markers (±50 kc to ±5 mc)
- Lin, log and power amplitude scales

Model SPA-4 10-44,000 mc
- Single tuning head has same sensitivity as multi-tuning head analyzers
- Continuously variable sweep width (70 mc to 0) and resolution (1 to 80 kc)
- Calibrated power, voltage and log amplitude scales
- Careful shielding avoids interference

dependable **CERTIFIED SPECIFICATIONS** *for accurate data*

Designed and constructed to meet performance specifications over long periods of hard usage, Panoramic instruments are PROVED PERFORMERS in laboratories, plants and military installations all over the world.

Panoramic's unique 0.5 to 500,000 cps CURVE TRACING INSTRUMENTATION SYSTEMS provide single line response to fundamental frequency only . . . discriminate against noise and hum . . . have virtually unlimited dynamic range.



Frequency Response Indicators operate with appropriate Panoramic Spectrum Analyzer and accessory instruments—

0.5-2,250 cps MODEL G-5 with LF-1 or LF-2
20-22,500 cps MODEL G-2 with LP-1a or AP-1
1-300 kc MODEL G-3 with SB-7bZ
0.1-525 kc MODEL G-15 with SB-15

Sweep Generator operates with oscilloscope indicator and Panoramic accessory instruments—

Model SG-1 20-200,000 cps
- 2 fixed log, 2 adjustable linear, sweep widths, individually calibrated
- Passive null type internal markers

ACCESSORY INSTRUMENTS—

Model TW-1 Triangular Wave Generator
- Permits tracing response of highly selective networks
- Produces continuously variable linear bi-directional time base to adjust scan rate for true response

Model SW-1 Signal Alternator
- Bi-stable switch alternates analysis between two inputs on successive scans
- Facilitates precise comparisons of production models with standard and the injection of calibrating markers

Panoramic's specially designed TELEMETERING TEST INSTRUMENTS provide a simple, reliable, almost instantaneous method of checking airborne packages and ground station equipment in FM/FM Systems.



Model TMI-1a Telemetering Indicator
- Basic instrument displays frequency vs. amplitude of composite signal components
- Frequency range 350 cps to 85 kc log, ± 50 cps to ± 10 kc linear segments centered anywhere between 0-70 kc
- Lin and log amplitude scales
- Automatic optimum resolution

Simultaneous 11-Point Calibrator
- Generates simultaneously extremely precise calibrating frequencies for all IRIG channels in system
- 11-point calibrations automatically sequenced or individually adjustable
- Simple, reliable operation
- Compact packaging
- Ideal for automatic discriminator calibration and as reference for data reduction

Model TMC-1 Subcarrier Deviation Indicator and 3-Point Calibrator
- Built-in channel selector
- Furnishes 3 frequencies, channel by channel for discriminator calibration
- Sets max. deviation limits and C.F. of subcarrier oscillators with TMI-1a
- Long term freq. accuracy 0.02%



Model TMC-307a 7-Point Calibrator
- Furnishes 7 equally spaced frequencies for discriminator calibration
- Long term freq. accuracy 0.02%
- Use with TMI-1a and CHS-1 Channel Selector for multi-point calibration of subcarrier oscillators

PANORAMIC
RADIO PRODUCTS, INC.

the pioneer is the leader

Specialized experience, rigid quality controls, continuous product improvement and far-sighted development techniques assure the finest in instrumentation for the analysis of measurement problems.

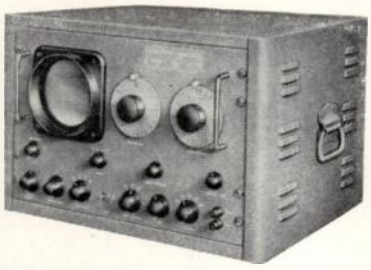
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SPECTRUM ANALYZERS
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Model SS-100

SPECTRUM ANALYZERS

MODEL SS-5	1 cycle to 5 KC Resolution to 2 cycles.
MODEL SS-100	13.5 cycles to 110 KC Resolution to 27 cycles.
MODEL SS-500	75 cycles to 500 KC Resolution to 150 cycles.
MODEL UR-10	100 KC to 10 MC Resolution to 500 cycles.

Synchronous Sweep Generators and Variable Rate Attachments available for all Spectrum Analyzers.

SINGLE SIDEBAND SPECTRUM MONITOR MODEL MD-500

500 kc center frequency
0-100 kc sweep width
Resolution to 10 cycles.

The MD-500 has a built-in frequency converter for operation to over 500 m.c.

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Telemetering calibrators designed to give separate crystal controlled calibrating frequencies for the 23 telemetering subcarrier channels.

Calibrators available with 11, 9, 7, 5, or 3 points with crystal oscillators accurate to ± .005%, ± .001%, or ± .00025%.

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Test and Service Products

For MAGNET CHARGING, TREATING and CALIBRATION



MODEL 1221 is used for small magnets. Its 10,000 ampere-turn output will saturate about 2" of Alnico V. Operates by condenser discharge method thru plug-in fixtures. Uses only 30 watts at 115 v. For continuous duty; charging cycle averages 3 sec. Price $180.



MODEL 107A is a versatile, condenser discharge magnetizer for most medium size magnets of either simple or complex pole configuration. It provides ranges of 12,000 and 24,000 ampere-turns and is capable of saturating most instrument magnets, including the core type mechanisms, using the standard flat bar, adapters or wire-wound fixtures. Can be used for continuous duty production magnetizing; average charging cycle is under 5 sec. Weight is 75 lbs. Size 12 x 7 x 17. Operates from 115-volt, 60-cycle line. Price $530.



MODEL 1500 is designed for production, research and instrument repair work. It will magnetize the new cobalt platinum and barium ferrite materials as well as all the Alnicos. It will saturate large switchboard meter assemblies and all panel type instruments and uses most existing adapters designed for the Model 107A. Wire-wound fixtures are plugged into the front panel through a safety interlock system providing maximum operator protection. Operates from 115-volt, 60-cycle line. Size 11 x 20 x 15; weight 125 lbs. Price $945.



MODEL 942 will saturate Alnico magnets weighing up to 34 lbs. and high flux ceramic magnets of any shape or pole configuration. Operates on condenser discharge principle from regular 115-volt, 60-cycle line. Produces charging outputs (depending on number of 100 μf condensers employed) from 100,000 to 200,000 ampere-turns through plug-in transformers, up to 3600 watt-seconds using wire-wound fixtures. Adapters for multi-pole rotors, rod, bar, ring and various other shapes available. Equipped with extensive system of safety interlocks for complete operator protection. Designed for continuous production use with low power consumption. Price of basic unit is less than $2100.

MODEL 889A de-magnetizes saturated magnets to any desired level of flux. Provides a precision method for rapidly treating permanent magnets, including the new core type instrument mechanisms. Used with Model 206A Booster or Model 107A Charger. Price $247.





MODEL 1295 is a stable, all transistorized Gaussmeter which provides a conservative accuracy of 3% over nine full-scale ranges: 0-100, 200, 500, 1 K, 2 K, 5 K, 10 K, 20 K and 20 K + gausses, using a single probe. Two standard reference magnets having ¾% accuracy are supplied. Weight is 12 lbs. Operates from battery or 115-volt, 50-400 cycle line. Price $420.

For ELECTRICAL INSTRUMENT CALIBRATION

A Model for Every Purpose and Price Range



MODEL 829 checks AC and DC meters of all types and ranges. Compact cabinet contains power supply, special Weston standard meters, Wheatstone Bridge and all circuits for quick, convenient instrument calibration to 0.5% accuracy by non-technical personnel. Automatic protection for both operator and instrument under test is provided by interlocks and high voltage discharge circuits. Net price $2650.

DUAL POTENTIOMETER DC STANDARD

Model 262B



MODEL 262B Dual Potentiometer Standards for calibrating meters to 0.1% through a range of 1 millivolt to 1500 volts and 1 microampere to 150 amperes. Uses L & N Brooks Mod. 7 pot. and Weston Mod. 5 standard cells. Voltage and current ranges are separate for the calibration of wattmeters. Operates on 105/125 volts, 50/1600 cycles, 350 watts, with internal voltage regulator. Operator is protected by interlocks. Price $15,600.

Also available are MODELS 261B and 454 Standards for calibrating AC meters to 0.5% through ranges of 10 millivolts to 1500 volts and 1 microampere to 200 amperes; MODEL 260C Standards for DC meters to 0.5% over ranges of 1 millivolt to 1500 volts and 1 microampere to 150 amperes. Accuracy of 0.25% using charts. These standards have been used for 8 years by the government services and leading industrial organizations.

For CRYSTAL TESTING









FOUR MODELS developed for Signal Corps under national crystal testing standardization program to measure resonance and anti-resonance resistance of quartz crystals including those covered by MIL-C-3098B. Capacitance, inductance and PI of crystal can be determined.

MODEL 459A (Improved TS-330/TSM) covers 800 kc to 15 mc, for 0.002% crystals, 0-9900 ohms. Operates from 115/230 v, 50-1000 cps. Price $1125.

MODEL 531 (TS-683/TSM) Crystal Impedance Meter covers range of 10-140 mc for 10-150 ohm crystals. Twelve fixed calibrating resistors of 10, 22, 30, 40, 51, 60, 68, 82, 91, 100, 120 and 150 ohms, plus a 100-ohm var. resistor for determining crystal resistance. Anti-resonance adapter also provided. Operates from 115/230 v, 50-1000 cps source. Price $590.

MODEL 541A (TS-710/TSM) for 10-1100 kc range crystals with resistances from 200 ohms to 0.5 megohms. An internal load capacitance is calibrated from 15 to 105 mmf with accuracy better than ±0.5 mmf. Power dissipated in crystal measured by built-in VTVM and ohmmeter. For 115/230 v, 50-1000 cps operation. Price $860.

MODEL 1207 (AN/TSM-15) covers range of 75-200 mc for 10-125 ohm crystals. Crystal voltage at series resonance is measured within 10%, effective resistance within ±5 ohms, and the power calculated. 18 C_o cancellation inductances and 1 uncompensated var. resistor supplied; 5 compensated var. resistors available. 115/230 v, 50-1000 cps. Price $1050.



DIGIVERTER

DIRECT READING, digital converter fits all vertical DCU system counters; changes random vertical numerals to easy reading "in-line" display. No modifications to counter. Remote readout also available.



DIGIDEC

DIGITAL CONVERTER for individual decade counter units provides "in-line" reading for OEM installation, or in special purpose test and computing equipment. DIGIDEC mounts over neon strip; replaces mask.

Variable Frequency Power Supplies



MODEL 150 is a stable, single phase, 150 VA power source of laboratory quality. Output frequency is continuously adjustable between 380 and 2400 cps with stability of 0.1% ±2 cycles. Price $575.

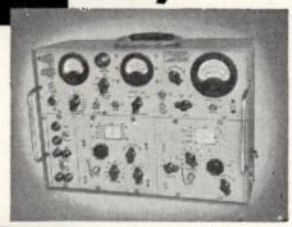
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RT-500 RECEIVER-TRANSMITTER TESTER



Equivalent to AN/TRM-1. Laboratory-quality portable instrument, designed to measure performance on transmitting and receiving equipment.

- Frequency Range: 190 KC to 400 MC
- Signal Generator Output: 2.5 to 100,000 microvolts into 50 ohms
- Transmitter Tester Power Range: 3 to 100 watts
- Volt/Milliwatt Meter: multi-range meter measures AC, DC volts and milliwatts

SG-25 STANDARD SIGNAL GENERATOR



Equivalent to AN/URM-25D. For alignment of radio receivers, measurements of receiver sensitivity and selectivity, and in all radio frequency voltage measurement work.

- Frequency Range: 10 KC to 50 MC in 8 bands
- Calibrated Output: 0.1 to 100,000 microvolts into 50 ohms
- High Output: 2.0 volts, 500 ohms impedance

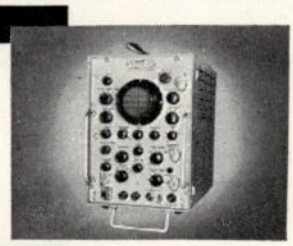
SG-26 STANDARD SIGNAL GENERATOR



Equivalent to AN/URM-26B. For alignment of radio receivers, measurements of receiver sensitivity and selectivity, and in all radio frequency voltage measurement work.

- Frequency Range: 4 to 405 MC in 6 bands
- Calibrated Output: 0.1 to 100,000 microvolts into 50 ohms
- Output Impedance: 50 ohms nominal

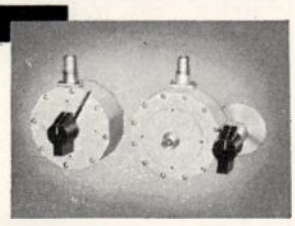
PO-400 PULSE OSCILLOSCOPE



Equivalent to AN/USM-38. Precision portable oscilloscope for analyzing amplitude and time characteristics of complex electrical waveforms.

- Transient Response: 0.06 microseconds (rise time)
- Square Wave Response: less than 5% drop at 50 cycles
- Deflection Sensitivity: 0.1V RMS per inch
- Sweep: 1 to 100,000 microseconds per inch, triggered or recurrent

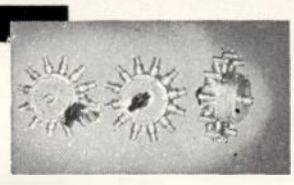
AT-120 R. F. STEP ATTENUATOR



Designed for use in output systems of signal generators, precision microvolters, IF strips of microwave receivers, etc.

- Frequency Range: 0 to 1000 MC
- Attenuation Range: up to 120 db in ten steps
- Output Impedance: 50 ohms standard, 75 ohms optional
- VSWR: 1.1 up to 500 MC, 1.2 up to 1000 MC

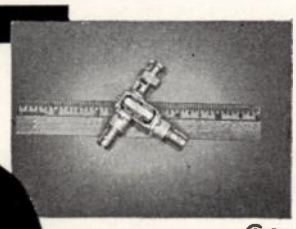
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For all types of coaxial switching.

- Positions: up to 12
- Nominal Impedance: 5 ohms
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For general purpose in RF monitoring 50 or 75 ohm coaxial systems. Can be used with Trad Attenuator AT-120.

- Frequency Range: 10 to 1000 MC
- Accuracy: ½ db
- Impedance: available in 50, 75, 100, 150 and 225 ohms
- Maximum Signal Output: 2.5 V RMS

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Builder of miniature, high temperature, precision servo components of proven performance and dependability. Dynamic Instrument Corp.'s manufacturing skills are concentrated on servo components only.

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DYNAMIC's new A/C Servo Motor, developed for the Navy Bureau of Ordnance

- High torques at low control field power.
- Exceptionally rapid response.
- Fast stall acceleration.
- Superior internal damping.
- Rigid adherence to military requirements.
- Very low cost – due to radically simplified design.



Miniature 60 cycle Servo Motor, Size 11 Model M-100 (4 Frame Sizes: 5, 8, 10, 11) Pat. Pend.

MECHANICAL CHARACTERISTICS

Rotor Inertia (gm-cm²)	1.4
Torque at Stall (oz. in.)	.73
No Load Speed (rpm)	1450
Time Constant (SEC)	.005
Theoretical Stall Acceleration	35,000 (RAD/SEC²)
Operating Temperature Range	400°F.
Damping (DYNE-CM-SEC)	300.

ELECTRICAL DATA	FIXED PHASE	CONTROL PHASE
Voltage	115	115
Current (Stall)—MA	42	42
Power (Stall)—Watts	3.5	3.5
Effective R (Stall)—Ohms	3800	3800

NEW MAGNETIC CLUTCH

DYNAMIC's Magnetic Clutches, Brakes, and Clutch Brakes offer exceptionally high torques and long life.



- Highest output torques.
- Low control power.
- –85°F. to 400°F. operation temperature range.
- Fast response time.
- Extra long life under full rated loads.
- New design provides outstanding reliability.

Model D-103 Size 11 Clutch
(4 Frame Sizes: 11 models in each frame size)

TYPICAL CHARACTERISTICS

Output Torque	65 oz. in.
Breakaway Torque (energized)	.10 oz. in.
Breakaway Torque (de-energized)	.03 oz. in.
Inertia (outer shaft)	5.1×10^{-6}
Inertia (inner shaft)	4.7×10^{-6}
Backlash (engaged)	0
Power Consumption	3 watts
Response Time	As low as 3 millisecs
Weight	4.2 oz.
Max. Recommended Speed	10,000 rpm

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Application engineering for all Dynamic Instrument Corp. products. ALL TO MILITARY STANDARDS WHERE REQUIRED! Whatever your servo component needs, let DYNAMIC build the right one to your specifications.

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KAY Electronic Test & Measuring Instruments

• Sweeping Oscillators • Noise Figure Measurement • TV Picture & Sound Signal Sources • Marker Generators • Pulsed Carrier Generators • TV Transmitters • Color Generators • Signal Generators • Attenuators • Sound Spectrographs • Gain and Loss Test Sets • Spectrum Analyzers • Vibration Analyzers • Vacuum Tube Voltmeters • Transistorized Test Instruments • Power Supply • Voltmeters • Probe • Video Amplifier • Crystal Oscillator • AudioOscillator • Fluttermeter • Rota-Graph

SWEEPING OSCILLATORS



Vari-Sweep

INST.	RANGE	TUNING	WIDTH	OUTPUT	PRICE
MEGA-SWEEP	50kc-1000mc	continuous	0-40	100mv	$465.
CALIB. MEGA-SWEEP	50kc-950mc	single dial	0-40	50mv	495.
MEGA-SWEEP 111A	10mc-500mc 400mc-950mc	zero level base line	0-40	.15V rms 70 ohms .3V rms 300 ohms	575.
MEGA-SWEEP 112A	800mc-1200mc	single dial	0-40	.3V rms 70 ohms	575.
VARI-SWEEP	2-220mc Fund	continuous	Up to 30mc plus	1.0V rms 70 ohms	695.
VARI-SWEEP 400	15-470mc	continuous	30mc plus	1.0V rms 70 ohms	795.
ULTRA-SWEEP	450-900 Fund	continuous	0-50 mc	3.0V rms 70 ohms	895.

SWEEPING OSCILLATORS WITH MARKS



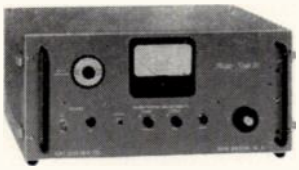
Rada-Sweep Sr



Marka-Sweep
Model Video 50

INST.	RANGE	TUNING	WIDTH	MARKERS	OUTPUT	PRICE
MARKA-SWEEP MODEL VIDEO	50kc-20mc	3 ranges 50kc-20mc	complete range	6 crystals	0.2 Vrms 70 ohms	$525.
MARKA-SWEEP MODEL VIDEO TTV	50kc-8mc	.....	0-8 mc	5 crystals 1 variable	1.5V rms 70 ohms	695.
MARKA-SWEEP MODEL VIDEO 50	50kc-50mc	contin.	4-50mc contin. variable	8 crystals	1.0V P.-P.	695.
VARI-SWEEP MODEL RADAR	10-145mc Fund	contin.	30mc+	11 crystals 1 variable	1.0V rms 70 ohms	950.
VARI-SWEEP MODEL IF	4-120mc Fund	contin.	30mc+	11 crystals 1 variable	1.0 Vrms 70 ohms	950.
RADA-SWEEP SR	1-260mc Fund	6 switched bands	60-70mc	24 crystals	0.5V rms 70 ohms	545. plus crystals
RADA-SWEEP 300	1-350mc Fund	10 switched bands	60-70mc	30 crystals	0.5V rms 70 ohms	695. plus crystals
KILO-SWEEP	50kc-2mc -5mc -10mc	contin.	contin. to 100kc	6 crystals	0.25V rms 70 ohms	575.-695.
SONA-SWEEP	5kc-200kc	contin.	0-20kc	6 crystals	0.25V rms 70 ohms	575.
RADA-SWEEP	20-40mc 50-70mc	.....	20mc or 2mc	9 crystals	.25V rms 70 ohms	395.
RF-P MARKA-SWEEP	IF plus 12 channels	13 positions	15mc	picture and sound	1.0V rms 70 ohms	750.

NOISE FIGURE MEASUREMENT . . . NOISE GENERATORS



Mega-Node Sr.

INST.	RANGE	NOISE FIG. RANGE	PRICE
MEGA-NODE	5-220mc	0-16db @ 50 ohms 0-23.8db @ 300 ohms	$325.
MEGA-NODE SR	10-3000mc	0.20db @ 50 ohms	790.
MICROWAVE	1120-26,500mc	Fluorescent Tubes 15.8 ± .25db	270-690.
MEGA-NODES		Inert Gas Tubes 15.28 ± .1db	(with power supply)
RADA-NODE	5-26,500mc	0-23.8 ± .25db IF strips @ 30 and 60mc	$1,395 covering range 5mc to 400mc
MEGA-NODE 175-A	50-500mc	0-19db, 300 ohms	325.
MEGA-NODE 403-A	3-500mc	0-19db, 50 ohms	325.

SPECTRUM ANALYSIS



Sonalyzer
Model 30

INST.	DESCRIPTION	FREQ. RANGE	FEATURES	PRICE
VIBRALYZER	Vibration Frequency Analyzer	5-4400cps	Displays amplitude vs frequency vs time. Provides permanent record	$2500.
SONA-GRAPH	Sound spectrograph for frequency analysis of audio energy	85-8000cps	Records frequency and intensity to time	1995.
ECHO-VOX SR	Provides variable periods of time delay at audio frequencies	40-12,000cps	20 to 1600 millisecond delay range	1495.
SONA-STRETCHER	Speech stretcher for slowing speech to ½ normal tempo	100-4000cps	Has phono & tape recorder inputs	950.
AUTO-VOX	Variable audio time delay. Dual Channel Input.	40-12,000cps	Negative to positive passing through zero. Delay range: —100 to +720ms	1795.
SONALYZER MODEL 30	A 30-Channel all-electronic spectrum analyzer providing immediate visible display of complex waveforms up to 20,000 cps			1995.

OTHER INSTRUMENTS



Transalyzer

INST.	RANGE	RANGE OF MEASUREMENT	FEATURES	PRICE
KILO-Q	20cps-1mc	Q, 0-12.5, 0-25, 0-50, 0-125, 0-250, 0-500	60 mmf-.1mf Cap. Range	$895.
MICROLTER 50 VTVM	100cps-50mc	Full Scale: 1mv-1V in 7 ranges	May be used as 50mc video amp.	495.
TRANSALYZER	50kc-50mc	Measures Alpha and Alpha Cutoff—Collector and Emitter Current, 3 Voltages—Emitter to Base, Emitter to Collector, and Base to Collector		1595.
MEGA-MATCH	10mc-1000mc	Contin. tuned sweeping oscillator	Displays reflected energy. Checks matching impedance	895.
UTILATOR	4.5-220mc	Fundamental Freq. Utility Oscillator	0.7V rms into 70 ohms metered AGC'd	295.
GAIN SET	Complete Equipment for Making Precision Measurements of Gain or Loss in Components and Systems			1995.
MEGA-PIX	TV Sound-Picture	Color or Black and White Transmitter	.25V output into 70 ohms	925.
RADA-PULSER SR	Pulsed-Carrier Generator, 12-80 mc. continuously variable carrier frequency and pulse width			745.
AUDIOLATOR	15cps-15kc	Transistorized audio oscillator, battery operated. Flat to ±0.5 db over range. Output 1.0V rms at 600ohms		149.50
TRANSIFIER	15cps-15mc	Transistorized battery operated amplifier giving 10 db and 20 db gain		85.

WRITE FOR 1958 KAY CATALOG

KAY ELECTRIC COMPANY

DESIGNERS & MANUFACTURERS OF PRECISION ELECTRONIC TEST AND MEASURING EQUIPMENT

Dept. ID-9 — **MAPLE AVE., PINE BROOK, NEW JERSEY** — **CApital 6-4000**

For details, circle #476 on Reader Service Card

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See class 80

Signal generators TV:
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See class 67

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5. Synchronizing generators
10. TV calibrators
15. TV marker generators
20. TV signal generators
25. TV sweep generators
30. UHF-VHF generators

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Auto Coil Winder-Elec Equip. Co., England, 10, 20, 30

Boonton Electronics Corp., 738 Speedwell Ave., Morris Plains, N.J., 30
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Tel: JEfferson 9-4210

Boonton Radio Corp., Intervale Rd., Boonton, N.J., 20, 25, 30
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Tel: HAmilton 7-7961

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Tel: CEnter 9-6100

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General Electric Co., Technical Prods. Dept., N.Y., 5

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Tel: LOwell 7-0607

Marconi Instruments, N.Y., 30, Oscillators

Measurements, A McGraw-Edison Div., Box 180, Boonton, N.J., 30
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Tel: DEerfield 4-2131

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Radio Corp. of America, Electron Tube Div., Section I-20-Q, 415 S. Fifth St., Harrison, N.J., 10, 15, 20, 25
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Tel: HUmboldt 5-3900

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Tel: TUlip 2-6880

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Telechrome, Inc., 28 Ranick Dr., Amityville, L.I., N.Y., 5, 20
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Tel: LIncoln 1-3600

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Voltmeters: See class 42

Voltmeters, audio frequency: See class 67

Voltmeters, vacuum tube: See class 72

Volume level meters: See class 42

Wattmeters: See class 42

Wavemeters: See class 77

A NEW LINE OF FROM

Precision Test Equipment JERROLD

FOR ACCURATE QUANTITATIVE MEASUREMENTS...
USING SWEEP FREQUENCY GENERATOR TECHNIQUES...

WIDE BAND SWEEP FREQUENCY GENERATOR • MODEL 900



$1260

Recommended wherever unusual versatility, high stability and constancy of output are essential. **SWEEP WIDTHS—AS WIDE AS 300 MC . . . FROM 200 KC to 1,000 MC.**

VHF SWEEP RANGE

Center frequency continuously variable from 0.2 MC to 250 MC. Sweep width continuously variable from a minimum of 0.1 MC, at any center frequency setting, to a maximum of 250 MC at a center frequency setting of 125 MC. Maximum output voltage variation is ±0.5 db with a minimum output of 0.4 volts RMS into a 50 ohm load.

UHF SWEEP RANGE

Center frequency continuously variable from 275 MC to 900 MC. Sweep width continuously variable from a minimum of 0.1 MC, at any center frequency setting, to a maximum of 100 MC at a center frequency of 275 MC, and to a maximum of 300 MC at a center frequency of 850 MC. Maximum output voltage variation is ±1.5 db with a minimum output of 0.5 volts RMS into a 50 ohm load.



$250

A HIGH SPEED COAXIAL SWITCH • MODEL FD-30

For the simultaneous display of two channels or voltages on an oscilloscope . . .

Frequency range of coaxial circuit is from DC to 250 MC with a VSWR of less than 1.1 at 50 or 75 ohms impedance. Switch contacts "Mercury-Wetted" with an adjustable switch rate of 30, 15 or 10 cps.

WIDE BAND SWEEP GENERATORS MODELS 601 and 602

Portable, wide band instruments designed for the test and alignment of LF, IF, and RF circuitry. The Generators feature an electronic, saturable reactor sweep circuit with a maximum sweep deviation of approximately 5 to 1. RF output on all ranges is fundamental.

MODEL 601

12 MC to 225 MC in eleven overlapping ranges. RF output of 1.0 volt RMS. Output flat with ± ½ db.

MODEL 602

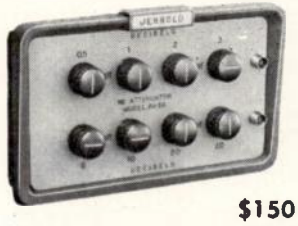
4 MC to 112 MC in eleven overlapping ranges. RF output of 2.5 volts RMS. Output flat within ± ½ db.

Other Generators available on special order to cover any portion of the frecuency range from 15 KC to 225 MC.



$395

VARIABLE, LABORATORY ATTENUATORS MODELS AV-50 and AV-75



$150

Variable, switch-type attenuators from DC to 500 MC. The attenuators feature: 0 to 62.5 db attenuation, in 0.5 db steps; low insertion loss of ¼ db at 250 MC, and ½ db at 500 MC; VSWR of less than 1.15 at 250 MC, and less than 1.4 at 500 MC; newly developed rotary, coaxial switches that utilize a floating rotor with dual wiping, self aligning contacts mounted in a "Tel-F" dielectric; completely shielded switch sections; and rugged, compact design. Model AV-50 is 50 ohms with BNC connectors, and Model AV-75 is 75 ohms with Jerrold "F" Series connectors.

NOTE: New equipment, not ready for cataloguing at this time, features: Sweep Widths . . . up to 400 MC.; Sweep Outputs . . . up to 20 DBM.; Output Flatness . . . to ± 0.05 DB.; and Spectrum Coverage . . . from 15 KC. to 1,400 MC. For further information on all equipment, write: Dept. 23.

JERROLD ELECTRONICS CORPORATION, 15th & Lehigh, Philadelphia 32, Pa.

Export Representative: ROCKE INTERNATIONAL CORP., 13 E. 40th St., New York 16, N. Y.

All prices and data subject to change without notice. All prices F.O.B. Plant.

1959 IRE DIRECTORY

DIRECTORY IV MATERIALS & SERVICES

18 major groups
172 products

The products and services of the radio-electronics industry have been organized into four basic directories:

I. Communications
II. Components
III. Controls & Instruments
IV. Materials & Services

Within these four basic directories, 100 major product and service groups are numbered consecutively throughout. Under each of these 100 classes a further breakdown is given, showing in detail by a system of code numbers after each firm listed what specific products within the class are manufactured by that firm.

For a terminology cross-index listing the 852 subproducts in alphabetical order, consult the pink section preceding page 1.

The first few times you use this EDGE INDEX

follow the "How to use" instructions slowly—one step at a time. After that you will be able to open easily and almost instantly to the section that you seek.

Machol edge indexes covering the alphabetical section and each of the four major directory groups will be found on pages 141, 241, 275, 461, and 519.

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2. Hold in your right hand with your four fingers near to the bound edge and your right thumb near the middle of the open side of this page.
3. From the heavy or light line symbol adjacent to the subject you seek, run your eyes across the page edges until you reach the horizontally corresponding symbol.
4. OPEN THERE!



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For complete list of products and services, arranged alphabetically for fast reference, see the pink section preceding page 1.

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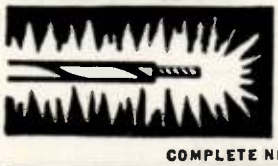
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Blowers: See class 24

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83. Cable & Wire.

3. Aluminum
5. Antenna feeder line
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10. Co-axial cables
15. Copper, bare
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ACF Industries, Erco. Div., Md., 40

A-K Mfg. Co., Inc., Ill., 3, 10, 17, 25, 32, 40, 50, 55, 65

Accurate Specialties Co., Inc., N.Y., 35

Accurate Insulated Wire Corp., Conn., 32, 45, 50, 55

Acme Wire Co., Conn., 20, 30, 55

Aero Research Instr. Co., Inc., Ill., Cut, Ceramic Insulated

Aerolite Electronics Corp., N.J., 40

Airtron, Inc., Dept. I, 1106 W. Elizabeth Ave., Linden, N.J., Cut
See ad on page 454
Tel: HUnter 6-1000

Alden Products Co., 9140 N. Main St., Brockton 64, Mass., 40, 50, 55
See ad on page 319
Tel: BRockton 160

Allied Allegri Co., Inc., N.J., 40

Alpha Wire Corp., 200 Varick St., New York 14, N.Y., 15, 20, 25, 30, 32, 40 45, 50, 55, 57, 65
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Tel: ALgonquin 5-5400

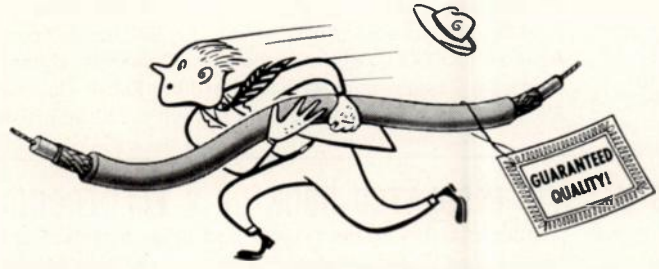
Directory IV. Materials & Services

83. Cable & Wire.

Aluminum Co. of America, Pa., 3
American Communications Corp., N.Y., 10, 32, 50
American Electric Cable Co., Mass., 10, 17, 32, 40, 50, 55, 57, 65
American Leonic Mfg. Co., Pa., 3, 7, 15, 34, 35
American Steel & Wire Div., Ohio, 20, 30, 32, 45, 50, 55
American Super-Temperature Wires, Inc., 10 West Canal St., Winooski, Vt., 25, 30, 50, 55, multi conductor all teflon insulated
See ad on this page
Tel: UNiversity 2-9636
Amphenol Electronics Corp., Ill., 10, 25, 50, 57
Anaconda Wire & Cable Co., N.Y., 3, 5, 10, 15, 20, 25, 30, 45, 50, 57, 65
Anchor Metal Co., Inc., N.Y., 3
Andrew Antenna Corp. Ltd., Canada, 10
Ansonia Wire & Cable Co., R.I., 5, 7, 10, 25, 32, 50, 55, 57
Anthony & Co., J. L., R.I., 15, 34, 35
A-One Precision Proudcts, Calif., 7
Apex Wire & Cable Corp., N.Y., 17
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Atlantic & Pacific Wire & Cable Co. Inc., N.Y., 3, 5, 7, 10, 15, 17, 20, 25, 30, 32, 34, 40, 45, 50, 55, 57
Audio-Video Corp., N.Y., 5, 32, 45, 50, 57
B & M Electric Corp., N.Y., 17, 45
Baker Platinum Div., Engelhard Industries, Inc., 113 Astor St., Newark 2, N.J., 7, 35, 60
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Tel: BIgelow 3-0030
Bean Instrument Corp., N.Y., 3, 5, 7, 10, 17, 25, 32, 45, 50, 55, 57
Belden Mfg. Co., Ill., 3, 5, 10, 15, 17, 20, 25, 30, 32, 45, 50, 55, 57, 65
Bendix Aviation Corp., Scintilla Div., N.Y., 40
Berkshire Electric Cable Co., Mass., 10, 15, 17, 20, 25, 32, 50, 55, 57
Birnbach Radio Co., Inc., 145 Hudson St. New York 13, N.Y., 3, 5, 7, 10, 15, 17, 20, 25, 30, 32, 34, 45, 50, 55, 57, 65
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Tel: WAlker 5-6980
Bishop & Co., J., Pa., 7, 30, 35, 60, Composite Wire
Bliss Electric Corp., N.J., 40
Boston Ins. Wire & Cable Co., Mass., 3, 10, 25, 45, 50, 55, 65, Hi Temp, TV Camera Cable
Bram Metallurgical Chem. Co., Pa., 3, 7, 15, 20, 30, 34, 35
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Canadian GE Co. Ltd., Canada, 5, 40, 45
Channel Master Corp., N.Y., 5, 57
Chase Brass & Copper Co., Conn., 10, 15, 30, 45, 50, 65
Chester Cable Corp., P.O. Box 316, Chester, N.Y., 5, 10, 40, 55
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Tel: HOmestead 9-2141
Cico Corp., Calif., 40
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Conray Corp., Ohio, 40, Interconnecting Cables
Continental Wire Sales Corp., Conn., 10, 32, 50, 55
Cooper & Sons, Inc., J. B., N.Y., 35, 60
Co-operative Industries Inc., N.J., 50, 65, Flexible Conduct

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Directory IV. Materials & Services

83. Cable & Wire.

Copperweld Steel Co., Pa., 5, 7, 10, 15, 45, 50, Copper-Covered Steel Wire

Copperweld Steel Co., Flexo Wire Div., N.Y., 3, 7, 15, 34, 65

Cornish Wire Co., Inc., 50 Church St., New York 7, N.Y., 17, 32, 40, 45, 50, 55, 57
See ad on this page
Tel: BArclay 7-5140

Crescent Company, Inc., R.I., 10, 32, 40, 45, 50

Crucible Steel Co. of America, Pa., 7, 30

Dale Products, Inc., 1318 28th Ave., Columbus, Nebr., 40
See ad on pages 136-137
Tel: LOcust 4-3131

Dana-Beach Co., N.Y., 20, 30, 50, 55, & Resistance Alloy

Dayton Aircraft Products Inc., Fla., 7, 25

Deringer Metallurgical Corp., Ill., 35

Dictograph Products, Inc., N.Y., 7, 32

Dielectric Materials Co., Ill., 10, 25, 32, 50, 55, 57, 65

Driver Co., Wilbur B., 1875 McCarter Highway, Newark 4, N.J., 20 resistance
See ad on page 158
Tel: HUmboldt 2-5550

Driver-Harris Co., 201 Middlesex St., Harrison, N.J., 20
See ad on page 154
Tel: HUmboldt 3-4800

Eagle Electric Mfg. Co., Inc., N.Y., 17, 55

Eagle Electronics Corp., Conn., 50, 55

Eastern Insulated Wire Corp., N.J., 17, 40, 55

Eastern Smelting & Refining Corp., Mass., 35

Electric Auto-Lite Co., Ohio, 3, 15, 20, 30, 40, 45, 50, 55

Electric Cords & Supply Co., Calif., 10, 17, 40, 45, Power Supply Cord

Electrical & Physical Instrument Corp., N.Y., 10

Electri-Cord Mfg. Co., Inc., N.Y., Cord Sets

Electronics, Inc., of Pa., Penna., 40

Empire Electronics Co., Inc., N.J., 40

Enflo Corp., N.J., 7

Engelhard, Inc., C., N.J., 35

Engelhard Industries, Inc., 113 Astor St., Newark 2, N.J., 7, 35
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Tel: BIgelow 3-0030

Essex Wire Corp., Ill., 17, 40, 45

Essex Wire Corp., Ind., 3, 15, 17, 20, 30, 32, 40, 45, 50, 55

Factory Enterprises, Inc., Pa., 60

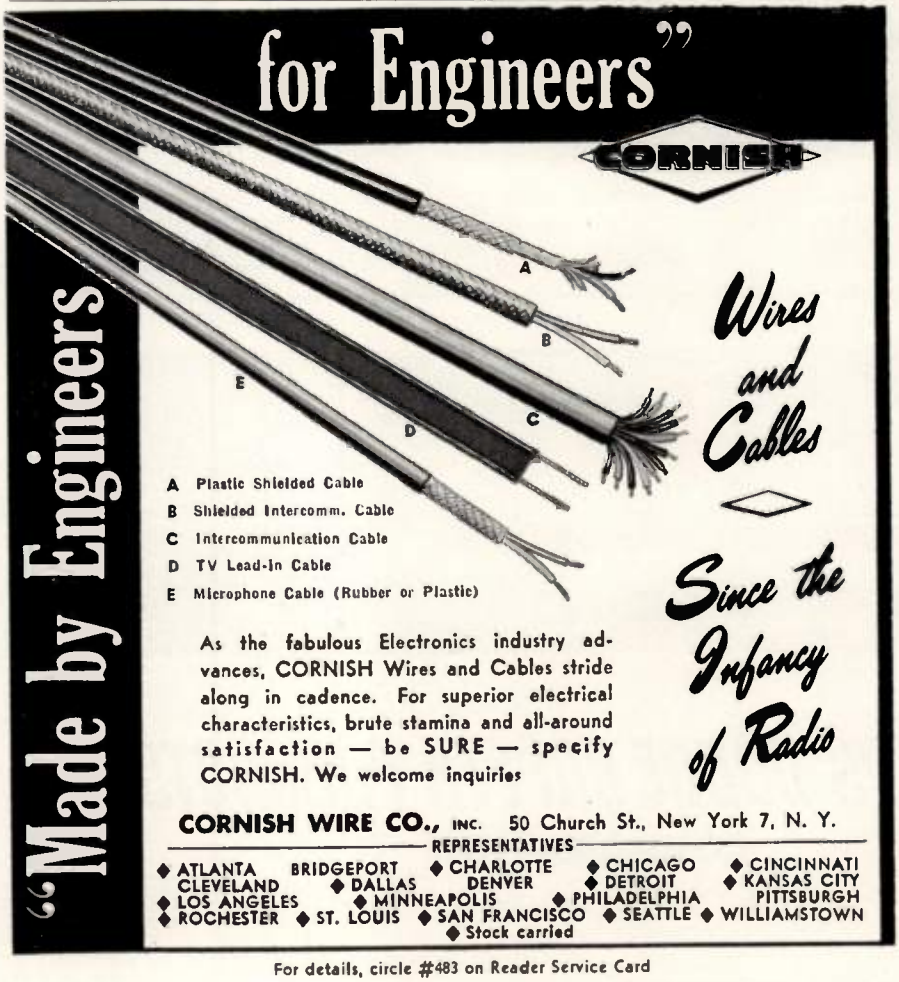
Fairbanks Wire Co., Inc., N.Y., 30, 55

Fairchild Camera & Instrument Corp., N.Y., 10, 40

First Electronics Corp. Mass., 17, 40



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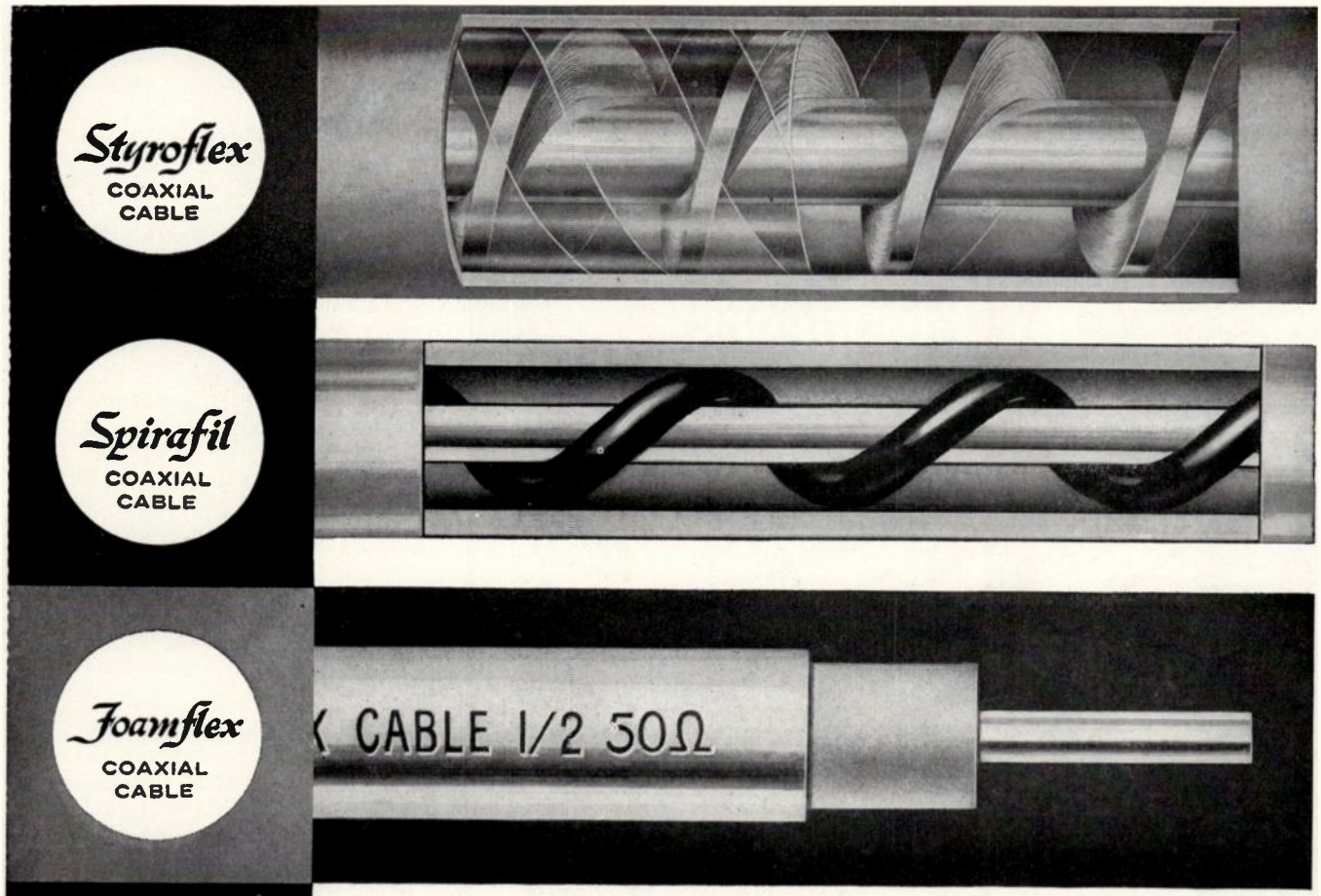


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Fort Wayne Metals, Inc., Ind., Stainless Steel Wire
Gavitt Wire & Cable Co., Mass., 10, 40, 45, 50, 55, 65
General Cable Corp. N.Y., 3, 7, 10, 15, 17, 20, 25, 30, 32, 45, 50, 55, 57, 60, 65
General Laboratory Assoc., Inc., N.Y., 40
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Hallett Mfg. Co., Calif., 10, 17, 50
Handy & Harman, N.Y., 35
Hatfield Wire & Cable Div. Continental, N.J., 3, 5, 7, 10, 15, 25, 32, 45, 50, 55, 57

Haveg Industries, Inc., 900 Greenbank Rd., Wilmington 8, Del., 7, 10, 25, 30, 50, 55, 57
See ad on this page
Tel: WYman 8-2274

Hi-Lo TV Antenna Corp., Ill., 5, 10, 32, 40, 45, 50
Hitemp Wires, Inc., N.Y., 10, 20, 30, 50, 55, Hermetic Seal Lead Wire
Holyoke Wire & Cable Corp., Mass., 10, 15, 17, 40, 50, 55, 57, 65
Houlihan Co., T. J., Ill., 40

Hudson Wire Co., 62 Water St., Ossining, N.Y., 3, 15, 20, 25, 30, 34, 35, 50, 55, 57, 60, 65
See ad on page 522
Tel: WIlson 1-8500

Hudson Wire Co., Winsted Div., Conn., 20, 30
Indium Corp. of America, N.Y., 35
Industrial Accessories, Inc., N.J., 10, 45, 50, Silicon Rubber
Industrial Television Inc., N.J., 40
Inland Electronics Corp., Ill., 40
Inso Products Ltd., N.Y., 10, 30, 40, 50, 65, Miniaturized Multi-Conductor & High-Temp Hook-Up
Interstate Cable-Connector Co., N.Y., 10, 15, 17, 25, 45, 50, 55, 57
International Telemeter Corp., Calif., 10, 25, 57
Jefferson Products, Inc., Mass., 5, 10, 25, 32, 50, 55, 57
Jelliff Mfg. Corp., Conn., 60
Jerrold Electronics Ltd., Canada, 10
Jersey Specialty Co., Inc., N.J., 5, 300 Ohm
Kaiser Aluminum & Chemical Sales Inc., Ill., 3, 5, 7, 10, 15, 25, 32, 45, 50, 55, 57
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Kellogg Switchboard & Supply Co., Ill., 15, 45, 55
Kinney Co., Inc., J., Pa., 7
Knickerbocker Annunciator Co., N.Y., 20, 25, 32, 45, 55, 65
Kulite Tungsten Co., N.J., 7

Kupfrian Mfg. Corp., 157 Prospect Ave., Binghamton, N.Y., 40, 60
See ad on page 379
Tel: BInghamton 3-6426

Kuss Industries, Inc., Pa., 40
Leach & Garner Co., Mass., 7, 34, 35

Lenz Electric Manufacturing Co., 1759 N. Western Ave., Chicago 47, Ill., 10, 25, 32, 50, 55, 57, 60, 65
See ad on page 526
Tel: ARmitage 6-4454

Lewis Engineering Co., 52 Rubber Ave., Naugatuck, Conn., 10, 15, 35, 55, thermocouple & high temp. wire
See ad on page 527
Tel: PArk 9-5253

Leviton Mfg. Co., N.Y., 3, 5, 10, 15, 17, 20, 32, 45, 50, 55, 57
Ling Systems, Inc., Calif., 40
Little Falls Alloys, Inc., N.J., 3, 7, 34, Beryllium Copper, Bronze & Brass Wire
Lowell Insulated Wire Corp., R.I., 32, 45, 50, 55
Mackay, Inc., A.D., N.Y., 3, 35, 60
Mandex Mfg. Co., Ill., 40
Manger Electric Co., Conn., 40

Markel & Sons, L. Frank, School Lane, Norristown, Pa., 45, 55, wire-copper & plastic insulated wire hook-up
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Tel: BRoadway 2-8960

Metal Textile Corp., N.J., 60
Metals & Controls Corp., Mass., Sealing Wire, Copper Cored

Microdot, Inc., 220 Pasadena Ave., So. Pasadena, Calif, 10, 40
See ad on page 324
Tel: RYan 1-3351

Miljan, Inc., Div. Paul Omohundro Co., Calif., 40, 50, Flat Teflon Cable
Modelectric Products Corp., N.J., 17, Harnesses Wiring
Modern Adhesives & Electronics, Inc., N.Y., 20, 25, 30, 55, Aluminum, Copper, Flat Foils
Mohawk Wire & Cable Corp., Mass., 10, 32, 50, 55, 57
Montgomery Co., Conn., 3, 15, 32, 34, 60
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Mutual Electronic Industries Corp., N.Y., 10, 32, 45, 50, 60, 65, Elastic
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New England Electrical Works, Inc., N.H., 15, 20, 25, 30, 34, 65, Bronze Wire Dial Cable, Litz Wire
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Northern Electric Co., Ltd., Canada, 3, 10, 15, 32, 45, 50, 55
Okonite Co., N.J., 3, 5, 10, 25, 32, 45, 50, 55, 57, 65

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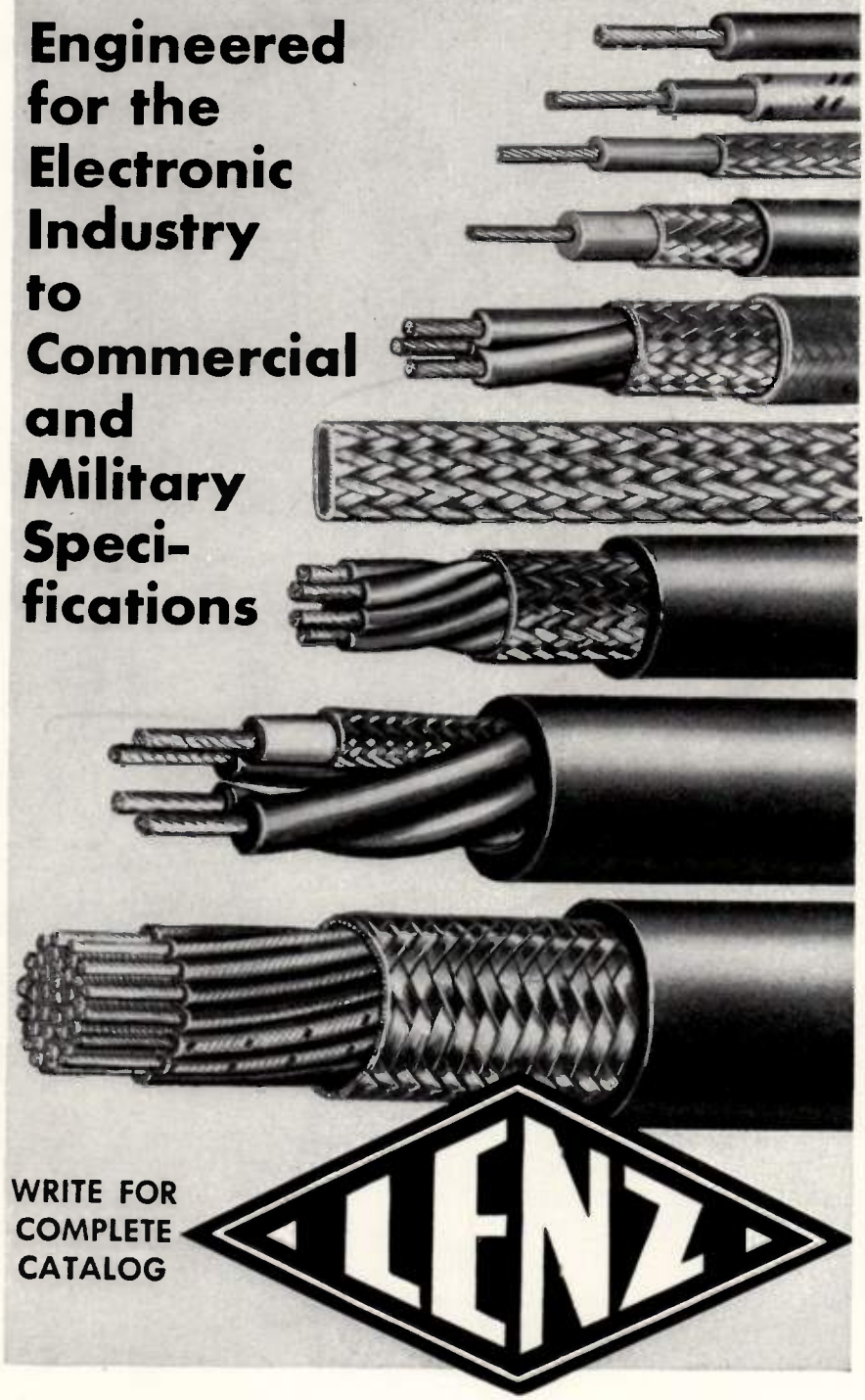
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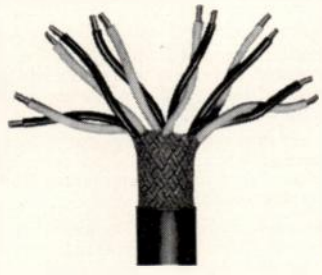
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Suitable for operating temperatures up to 650°F with nickel-clad copper conductor and laminated insulation having superior dielectric strength and moisture resistance. In AWG sizes 22 thru 4/0. In accordance with MIL-C-25038.

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Owens-Corning Fiberglas Corp., N.Y., Insulation Reinforcement
Pacific Automation Products, Inc., Cailf., 10, 17, 45, 50, 55
Permonite Mfg. Co., Ill., 40
Phalo Plastics Corp., Mass., 5, 10, 17, 25, 32, 40, 50, 55, 57
Phelps Dodge Copper Prods. Corp., Ind., 20, 30

Phelps Dodge Copper Products Corp., 300 Park Ave., New York 22, N.Y., 5, 10, 15, 20, 25, 30, 45, 50, 55, 57, 65
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Tel: PLaza 1-3200

Plastic Mold & Engineering Co., R.I., 17
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Pomona Electronics Co., Inc., Calif., 17
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Progress Electronics Co., 296 Broadway, New York 7, N.Y., 10, 15, 57
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Revere Corp. of America, Conn., 25, 40, 50, 55

Rex Corp., 240 Hayward Rd., West Acton, Mass., 10, 25, 50, 55
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Tel: COlonial 3-7721

Robertshaw-Fulton Controls Co., Calif., 40

Robertson Electric Co., Inc., 124 S. Elmwood Ave., Buffalo 2, N.Y., molded cord sets, molded pre-formed wire harnesses, molded cable, multi-conductor & coaxial cable splice cases
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Tel: MAdison 6658

Rockbestos Prods. Corp., Conn., 10, 30, 50, 55, 57
Rockland Insulated Wire & Cable Co., Inc., N.Y., 10, 32, 40, 50, 55
Roesch Cable Div., Douglas, Hall-Scott, Inc., Calif., 40, 45, 50, 55
Rome Cable Corp., N.Y., 3, 15, 20, 30, 32, 45, 50, 55
Royal Electric Corp., Electronic Cable Div., R.I., 10, 17, 25, 45, 50, 55
Runzel Cord & Wire Co., Ill., 15, 17, 40, 45, 50, 55, 65, Inst & Patch Cords
Sag Harbor Industries, Inc., N.Y., 40
Sanders Associates, Inc., N.H., 32, 40, 50, 55

Saxton Products, Inc., Wire & Cable Div., 1661 Boone Ave., New York 60, N.Y., 3, 5, 7, 10, 15, 20, 25, 32, 45, 50, 55, 57, 60, 65
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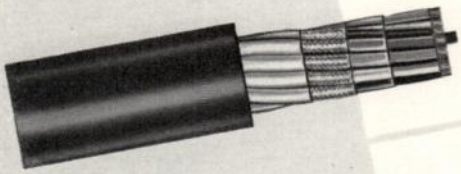
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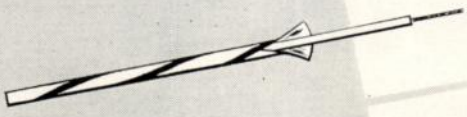
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Tel. WHite Plains 9-4757

Sel-Rex Corp., N.J., 34, 35

Sequoia Wire & Cable Co., 2201 Bay Rd., Redwood City, Calif., 3, 5, 7, 10, 15, 20, 25, 30, 32, 34, 35, 40, 45, 50, 55, 57, 60, 65
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Tel: EMerson 9-0331

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Surprenant Manufacturing Co., 172 Sterling St., Clinton, Mass., 3, 10, 25, 32, 40, 50, 55, 65
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Tel: CLinton 2180

Switchcraft, Inc., 5561 N. Elston Ave., Chicago 30, Ill., Cable assemblies
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Tel: SPring 4-1515

Sylvania Electric Products Inc., 1740 Broadway, New York 19, N.Y., 34
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Sylvania Electric Products Inc., Chemical & Metallurgical Div., Towanda, Pa., 34
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Tensolite Insulated Wire Co., Inc., Dept. TEN-1, W. Main St., Tarrytown, N.Y., 5, 10, 20, 30, 32, 35, 50, 55, 57, 65, Ribbon Cable, Hook-up & "A" wire
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Tel: MEdford 1-2300

Tevco Insulated Wire, Calif., 5, 30, 57

Thermax Wire Corp., N.Y., 10, 25, 50, 57, Teflon Insulated



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Transval Engineering Corp., Calif., 40
Tricon Mfg. Co., Ill., 35
Trimm, Inc., 400 W. Lake St., Libertyville, Ill., 17, 40
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Tel: LIbertyville 2-3700
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Zippertubing Co., The, Calif., 40, 50, 65

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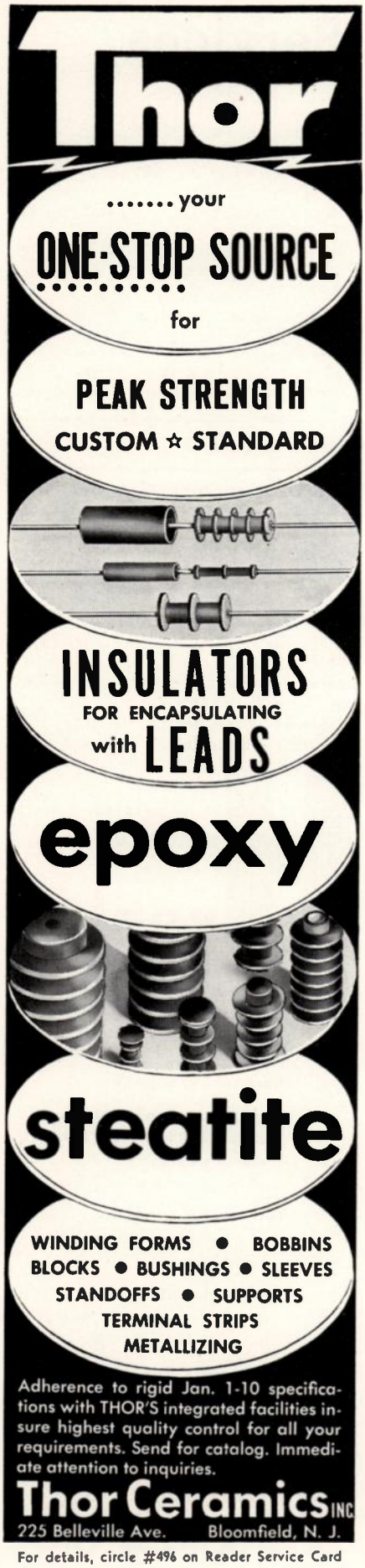
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American Lava Corp., Subs. of Minnesota Mining & Mfg. Co., Cherokee & Mfrs. Rd., Chattanooga 5, Tenn., 5, 10, 12, 15, 17
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Tel: AM 5-3411

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B G Corp., N.J., 5, 10, 15, 17, 20

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Tel: UNion 6-5416

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Cambridge Thermionic Corp., 440 Concord Ave., Cambridge 38, Mass., 5
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Tel: TRowbridge 6-2800

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Tel ERie 2-1481

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Tel SAugerties 1000

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Tel VAlley 6-5100

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General Electric Co., Insulator Dept., Md., 15
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Gulton Industries, Inc., N.J., 10
Gulton Industries, Inc., Nuclear Instru. Div., N.M., 10, 20
ITE Circuit Breaker Co., Victor Insul. Div., N.Y., 15
Isolantite Mfg. Corp., N.J., 5, 10, 15, 17, 20
Jodee Plastics Co., N.Y., 10
Johnson Co., E. F., Minn., 5, 15

Kearfott Co., Inc., 1378 Main Ave., Clifton, N.J., 12
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Tel: GRegory 2-1000

Kearfott Co., Inc., Microwave Div., Dept. 24J, 14844 Oxnard St., Van Nuys, Calif., 12
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Tel: STate 6-1760

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Krystinel Corp., N.Y., 12
Laboratory Equip. Corp., Mich., 20

Lapp Insulator Co., Inc., Radio Specialties Div., 150 Sumner St., Le Roy, N.Y., 10, 15, 17
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Litton Engineering Labs., Shaws Hill, P.O. Box 949, Grass Valley, Calif., 17
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Tel: GRass Valley 1730

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Microwave Chemicals Lab., Inc., 287 7th Ave., New York 1, N.Y., 12, yttrium garnet
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Precision Paper Tube Co., 2062 W. Charleston St., Chicago 47, Ill., 5, phenolic
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84. Ceramics.

Raytheon Mfg. Co., Ceramic Sales, Mass., 5, 10, 12, 15, 17, 20
Raytheon Manufacturing Co., Microwave & Power Tube Div., Section PT-07, Foundry Ave., Waltham 54, Mass., 10, 15, 17, 20
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Saxonburg Ceramics, Pa., 5, 10, 15, 20
Scientific Electronic Labs., Inc., 866 Bergen St., Newark 8, N.J., 17
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Sequoia Wire & Cable Co., 2201 Bay Rd., Redwood City, Calif., 20
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Tel: EMerson 9-0331
Solar Mfg. Corp., Calif., 10, 15, 17
Speer Carbon Co., Speer Resistor Div., Pa., Phenolic Coil Forms
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Clamps, tube: See class 97

Clips, cable: See class 87

Clips, test: See class 87

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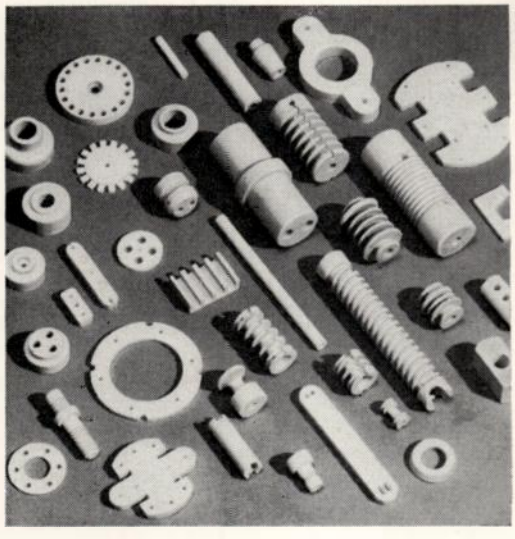
Coil forms, ceramic: See class 84

Coil forms, paper: See class 87

Coil winding machines: See class 92

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85. Consulting Engineers.

5. Acoustical	20. Mechanical
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Avco Mfg. Corp., Mass., 5, 10, 15, 20
Aviation Electronic Service, Ill., 15

Baracket, Albert J., 36 Commerce Rd., Cedar Grove, N.J., 10, 15, 30
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Barber Labs., A. W., N.Y., 15, 25
Barker & Williamson, Inc., Pa., 15, 25
Baruch Labs., N.Y., 10, 15, 25, 30

Bergen Laboratories, Inc., 247 Crooks Ave., Clifton, N.J., 10, 15
See ad on page 359
Tel: GRegory 3-7800

Bernstein, R. I., N.Y., 5, 10, 15, 25, 30
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Bickel, Richard L., P.O. Box 451, Garland, Tex., 15, 30
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Tel: BR 6-6859

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Bixby Associates, H. O., Mass 15
Bjorksten Research Labs., Inc., Wis., 5, 10, 15, 20, 25, 30
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Cleveland Metal Specialties Co., Ohio, 15, 35, Printed Circuits
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Computer Control Co., Inc., 92 Broad St., Wellesley 57, Mass., 10, 15, math
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Tel: CEdar 5-6220

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Designers for Industry, Inc., Ohio, 10, 15, 20, 25, 30
Devol Research Co., Conn., 15, 20

Dewey & Co., Inc., G. C., 202 E. 44th St., New York 17, N.Y., 15, systems
See ad on page 563
Tel: MUrray Hill 2-7369

Dictograph Prods., Inc., N.Y., 5, 10, 15

Digitronics Corp., Albertson Ave., Albertson, L.I., N.Y., 15
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Tel: PIoneer 7-5090

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Double E Products Co., Calif., Radio Interference Reduction
Dumey, A. I., N.Y., Data Processing
Dunlap Electronics, Inc., Iowa, 15, 25, 30
Dunn Engrg. Assoc., Inc., Mass., 10, 15, 20

Dwyer Engineering Co., Inc., Airport Rd., P.O. Box 452, Nashua, N.H., mass production ass'y electro-mark, packaging
See ad on page 563
Tel: TUxedo 3-3206

Dynamic Electronics N.Y., Inc., N.Y., 10, 15, 20, 25, 30
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Erie Resistor Corp., 644 W. 12th St., Erie 6, Pa., 15, 20
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Tel: ERie 2-1481

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Fuchs Impulse Motor Servomechanisms, N.Y., 10, 15, 20

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Tel: LOcust 1-1125

Gabriel Electronics Div., Gabriel Co., 135 Crescent Rd., Needham Heights 94, Mass., 15
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Tel: NEedham 3-0005

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General Devices, Inc., P.O. Box 253, Princeton, N.J., 10, 15, 20
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Tel: DAvis 9-2323

General Kinetics, Inc., Va., 15, 20
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Tel: EDgewood 3-2933

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Kahn, Leonard R., 22 Pine St., Freeport, L.I., N.Y., 25
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Kall, Albert R., 431 W. Tabor Rd., Philadelphia 20, Pa., 15
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Tel: LIvingston 8-4100

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Kip Electronics Corp., 29 Holly Pl., P.O. Box 562, Stamford, Conn., 15
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Magnetic Instruments Co., N.Y., 15, 20
Manhattan Physical Research Group, Inc., N.Y., 5, Physics
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Mayberry, Len, 111 S. Oak St., Inglewood, Calif., 15, 25
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Moskowitz, S., & D. D. Grieg, 67 Factory Pl., Cedar Grove, N.J., 15, 25
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Parke Mathematical Labs., Inc., Mass., Engineering Mathematics

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Technical Marketing Associates, Inc., Mass., 10, Product Planning
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Telechrome, Inc., 28 Ranick Dr., Amityville, L.I., N.Y., 30
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VecTrol Engineering, Inc., P.O. Box 1089, 153 New Spruce St., Stamford, Conn., 15
See ad on page 469
Tel: DAvis 4-4602

Virginia Electronics Co., Inc., D.C., 15
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Wallson Associates, Inc., 33 E. Runyon St., Newark 8, N.J., 15
See ad on page 492
Tel: TAlbot 4-2600

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Washington Aluminum Co., Inc., Dept. 19-9, Knecht Ave. & Pa. R.R., Baltimore 29, Md., 20
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Weedfall Engineering Co., Tex., 5, 10, 15

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Wheeler, Harold A., 122 Cutter Mill Rd., Great Neck, L.I., N.Y., 15, 25
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Embedment: See class 86

Engraving machines: See class 92

Envelopes, vacuum tube: See class 97

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86. Fabricators & Services.

5. Contract fabrication & assembly
10. Electro-plating
12. Encapsulation
15. Engraving
20. Fungus & moisture proofing
25. Hardening & heat-treating
30. Hermetic sealing service
32. Marking services
35. Metal stamping & spinning
40. Packaging
45. Plastic fabricators
50. Plastic molders

ACF Industries, Inc., N.J., 12
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Airflyte Electronics Co., 535 Ave. A, Bayonne, N.J., 5, 12
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Tel: BRockton 160
Alert Products Inc., N.J., 5
Allied Allergi Co., Inc., N.J., 5, 45
Alloy Metalsmiths, Inc., N.J., 5
All-Tronics, Inc., 45 Bond St., Westbury, L.I., N.Y., 5, 12, 40
See ad on page 345
Tel: EDgewood 3-3090
Alpar Mfg. Corp., Calif., 5
Alpha Metals, Inc., N.J., 35
Alpha Wire Corp., 200 Varick St., New York 14, N.Y., 5, 32
See ad on page 520
Tel: ALgonquin 5-5400



For details, circle #511 on Reader Service Card

Code numbers shown after each firm refer to product or service sub-classes listed at the beginning of each major classification. Complete addresses will be found in the Alphabetical Directory.

Altec Service Co., N.Y., 5
Amatom Elec. Hardware Co., Inc., N.Y., 10, 20, 35
American Aluminum Co., 230 Sheffield St.—D, Mountainside, N.J., 5, 35
See ad on page 537
Tel: WEstfield 2-8941
American Chronoscope Corp., N.Y., 5
American Insulator Corp., Pa., 50
American Latex Prods. Calif., 12, 40
American Machine & Foundry Co., Va., 5
American Measurement, Mass., 12
American Missile Prods. Co., Inc., Calif., 5, 12, 40
American Plastics Corp., N.Y., 45, 50
American Printed Circuits Co., N.J., 5, 10, 15, 45
Anchor Plastics Co., Inc., N.Y., 45, 50
Anchor Specialty Mfg. Co., N.J., 5, 45
Ansley Mfg. Co., A., Pa., 40
Antenna Specialists Co., Ohio, 5
Anthony & Co., J. L., R.I., 25, Metal Rolling
A-One Precision Prods., Calif., 10, 12, 45, 50
Aremac Associates, Calif., 5
Aries Labs., Inc., N.Y., 12, Compression Molding Service
Armstrong Cork Co., Pa., 50
Armstrong Whitworth Aircraft, England, 50
Arrow Machinists & Fabricators, 154 E. 3rd St., Mount Vernon, N.Y., 5, 45, metal stamping
See ad on this page
Tel: OWens 9-4000

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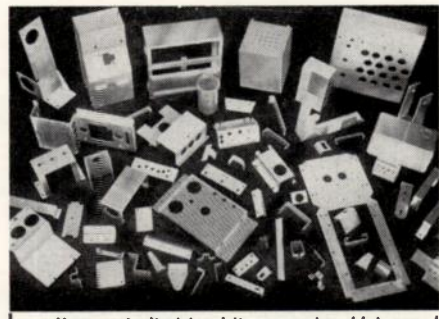
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White Plains 6-8880

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Art Wire & Stamping Co., 21 Boyden Pl., Newark 2, N.J., 5, 35
See ad on page 587
Tel: HUmboldt 4-2100
Artisan Metal Works Co., Ohio, 5
Atlas E-E Corp., Mass., 25, 35
Auburn Mfg. Co., Conn., 35, 45
Audicon Electronics, Inc., N.J., 5, 20
Aurora Equip. Co., Ill., 35
Austenal, Inc., N.Y., Investment Casting
Austin Co., N.Y., 5
Austin, O., N.Y., 15, 32, Decal Labels & Nameplates
Automation Engineering Lab., Inc., Conn., 5, 40
Automation Management, Inc., Mass., 5
Avco Mfg. Corp., Mass., 10
Avionics Ltd., Canada, 5, 10
Bacon Industries, Inc., Mass., 12
Baer Co., N. S., N.J., 45
Barber Labs., A. W., N.Y., 12
Barker & Williamson, Inc., Pa., 5, 12, 30, 40
Barnes Develop. Co., Pa., 5
Bart Mfg. Corp., N.J., 10
Barwood Mfg. Co., Inc., L. J., Mass., 5, 35, 45
Basler Electric Co., Ill., 12
Becks Inc., Minn.. 5
Bergen Laboratories, Inc., 247 Crooks Ave., Clifton, N.J., 10
See ad on page 359
Tel: GRegory 3-7800
Bibbero, R. J., N.Y., 12
Biggs Co., C. H., Calif., 12, 20
Bishop & Co., J., Pa., 10, Chemicals
Biwax Corp., 3441 Howard St., Skokie, Ill., 12, 50
See ad on page 566
Tel: ORchard 3-1050
Bliss Electric Corp., N.J., 5
Boehme, Inc., H. O., N.Y., 5
Boots Aircraft Nut Corp., Conn., 35
Borden Chemical Co., Resinite Dept., Calif., 45, Extruders
Bradley Industries, Ill., 50
Bram Metallurgical Chem. Co., Pa., Metal Fabricators
Braun Tool & Instrument Co., Inc., H., N.J., 35
Brenner Metal Prods. Corp., N.Y., 5, 35
Bright Star Industries, N.J., 35
Brilhart Plastics Corp., N.Y., 50
Bristol Motors Div., Vocaline Co. of America, Conn., 5
Brooks & Perkins, Inc., Mich., 5, 10, 35
Brunswick Balke Collender Co., Ill., 5, 45, 50
Buck Engrg. Co., Inc., N.J., 5
Buckbee Mears Co., Minn., Electro Forming
Bunnel & Co., J. H., N.Y., 5
CG Electronics Corp., N.M., 12
CGS Laboratories, Inc., Conn., 5
C & H Supply Co., Metal-Cal Div., Calif., 32
Cadre Industries Corp., N.Y., 5
Cal-Air Engrg., Inc., Calif., 5
California Technical Industries, Calif., 5
Canadian Radium & Uranium Corp., N.Y., 15, 32
Canadian Research Inst., Canada, 5, 15, 32
Carroll Pressed Metal, Inc., Mass., 5, 35
Celanese Corp., N.J., 40
Centronix, Inc., Fla., 5, 12, 40
Century Plating Co., 229 Ferris Ave., White Plains, N.Y., 10
See ad on this page
Tel: WHite Plains 6-8880
Chase Brass & Copper Co., Conn., 35
Chemalloy Electronics Corp., Calif., 5
Cico Corp., Calif., 12, 20, 45
Clark Cable Corp., Ohio, 5, 40
Clarostat Mfg. Co., Inc., N.H., 12
Cleveland Metal Specialties Co., Ohio, 5, 10, 15
Cohan-Epner Co., Inc., Dept. I.R.E., 142 W. 14th St., New York 11, N.Y., plating services
See ad on page 539
Tel: CHelsea 3-3411
Coils Electronics Co., Pa., 5
Collectron Corp., N.Y., 50
Comco Plastics, Inc., N.Y., 45
Component Mfg. Serv. Inc., Mass., 50
Components for Research, Inc., Calif., 50
Conn-Craft Co., Conn., 15, 45
Conray Corp., Ohio, 5
Consolidated Electrodynamics Corp., Calif., 5
Continental-Diamond Fibre Corp., Del., 15, 40, 50
Control Data Corp., Minn., 5, 12
Control Electronics Co., Inc., 10 Stepar Pl., Huntington Station, L.I., N.Y., 5
See ads on pages 343, 507
Tel: HAmilton 7-7961



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Directory IV. Materials & Services

86. Fabricators & Services.

Controlled Atmosphere Enclosures Corp., N.Y., 45, 50
Cook Co., F. R., Colo., 35
Copeland & Jenkins Ltd., England, mica
Cortland Industries Inc., Ill., 5, 15, 20, 45
Cossor (Canada) Ltd., Canada, 5, 10, 12
Crane Packing Co., Ill., 45, 50
Croname, Inc., Ill., 5, 10
Crosby-Laughlin Div., Ind., 15
Crystal Research Products, N.J., 5
Crystal-X Corp., Pa., 12, 15, 40, 45, 50
Cutler Metal Prods. Co., N.J., 5, 35, 40
Daco Instrument Co., N.Y., 5
Dale Products, Inc., 1318 28th Ave., Columbus, Neb., 45
See ad on pages 136-137
Tel: LOcust 4-3131
Dallons Labs., Inc., Calif., 30
Datran Electronics, Calif., 20
Daven Co., N.J., 5, 12
Davies Molding Co., H., Ill., 50
Daystrom Instruments, Pa., 5
Dayton Aircraft Prods., Inc., Fla., 40
Decatur Electronic Ind. Corp., N.Y., 5, 50
De Laval Separator Co., N.Y., 5, 25, 35
Denominator Co., Inc., N.Y., 5
Diamond Antenna & Microwave Corp., Mass., 5
Dimco-Gray Co., Ohio, 50
Direct TV Replacements, England, Subcontract Electronic Assembly
Dixon Corp., R.I., 45, 50
Dolin Metal Prods., Inc., N.Y., 5
Donnelly Mfg. Co., Mass., Sheet Metal Fabricator
Doty Acoustical Elec. Labs., N.Y., 5, 12, 20, 40
Double E Prods. Co., Calif., 12
Dunn Engrg. Assoc., Inc., Mass., 5, 12, 40
Dura Plastics of N.Y., Inc., N.Y., 5, 15, 45
Duralith Corp., Pa., 45
Duro Spec. Co., Inc., Mass., 5, 35
Dwyer Engineering Co., Inc., Airport Rd., P.O. Box 452, Nashua, N.H., 5, 12
See ad on page 563
Tel: TUxedo 3-3206
E B Metal Prods. Co., Inc., N.Y., 5, 35
E M I Electronics Ltd., England, 12, 30
Eagle Signal Corp., Ill., 5, 20, 30
Eastern Specialty Co., Pa., 5
Eastwood Industries Inc., Ill., 5, 45
Eby, Inc., H. H., Pa., 35, 45, 50
Eder Engineering Co., Inc., Wis., 5
Ehrenpreis, D., N.Y., 5, 40
Elco Corp., Pa., 5, 10, 35, 50
Electric Auto-Lite Co., Ohio, 50
Electrical Industries, 691 Central Ave., Murray Hill, N.J., 30
See ad on page 172
Tel: CRestview 7-4300
Electrical Insulation Co., Inc., N.Y., 5, 15, 45
Electro-Chemical Engraving Co., Inc., N.Y., 10, 15, 35
Electro-Physics Co., N.Y., 5
Electron Service Corp., Ill., 12, 20, 30, 32
Electronic Assembly Co., Inc., Mass., 5, 12
Electronic Eng. Co. of Calif., Calif., 5
Electronic Parts Mfg. Co., N.J., 5, 35
Electronic Plastics Co., Calif., 12
Electronic Plastics Corp., Mass., 20, 45
Electronic Research Labs., Mass., 5, 40
Electronic Techniques, Inc., Calif., 12, 35
El-Rad Mfg. Co., Ill., 5
El-Tronics, Inc., Alwac Div., Calif., 5
Elzee Metal Prods. Co., Inc., N.Y., 5, 15, 35, 40
Emeloid Co., Inc., N.J., 5, 45, 50
Emerson & Cuming, Inc., Mass., 12, 30, 45, 50
Emerson Plastics Corp., N.Y., 5, 45, 50
Emmco Plastics Fabricators, Mass., 45
Empire Electronics Co., Inc., N.J., 5
Enflo Corp., N.J., 5, 45, 50
Engelhard, Inc., C., N.J., 45, 50
Engelhard Industries, Inc., 113 Astor St., Newark 2, N.J., 5, 10
See ad on page 166
Tel: BIgelow 3-0030
Engineered Electronics Co., Calif., 5, 40
Engineering Specialties, Ohio, 5
Erie Resistor Corp., 644 W. 12th St., Erie 6, Pa., 35, 40, 50
See ad on pages 62-63
Tel: ERie 2-1481
Erwood, Inc., Ill., 50
Espey Mfg. Co., Inc., N.Y., 12
Etched Products Corp., N.Y., 32
Eugene Engrg. Co., Inc., Mass., 35, 40
Excellex Electronics, Inc., N.Y., 45, 50
Export Packing and Crating Co., Inc., N.Y., 40
Eyelematic, Inc., Conn., 5, 12, 35
Fabra-Print, Inc., Minn., 32, 45
Falstrom Company, N.J., 5, 35
Farnsworth Electronics Co., Calif., 30
Farwell Metal Fabricating, 73 W. Fairfield Ave., St. Paul 7, Minn., 5, 35
See ad on page 297
Tel: CApitol 4-5318
Federal Tool & Mfg. Co., Minn., 35
Felsenthal & Sons, Inc., Ill., 45, 50
Ferranti Electric, Ltd., Canada, 12, 30
Fibre Fabricators Co., Inc., Ill., 20, 45
Fidelity Amplifier Co., Ill., 5
First Electronics Corp., Mass., 12
Fischer & Porter Co., Pa., 50
Flexrock Co., Pa., 45, 50
Fluorocarbon Products, Inc., Div. U.S. Gasket Co., N.J., 5, 45, 50
Fluorulon Labs., Inc., N.J., 45, 50
Foampak Corp., Pa., 40
Forbes & Wagner, Inc., N.Y., 5, 12, 35
Fort Hill Plastic Letters Corp., Mass., 15, 45
Forway Industries, Inc., N.J., 5, 35
Furane Plastics, Inc., Calif., 45
G B Electronics Corp., Subsidiary of General Bronze Corp., Hook Creek Blvd., Valley Stream, L.I., N.Y., 5
See ad on page 246
Tel: LOcust 1-1125
GNY, N.Y., 5
Gables Engineering, Inc., Fla., 15
Gabriel Electronics Div., Gabriel Co., 135 Crescent Rd., Needham Heights 94, Mass., 5
See ad on page 248
Tel: NEedham 3-0005
Garde Mfg. Co., R.I., 35, 50
Gasser Metal Products, N.Y., 5, 35
Gates Radio Co., Ill., 12
General Aviation & Electr. Mfg. Co., N.J., 5, 35
General Bronze Corp., N.Y., 5
General Coil & Transformer Co., Inc., N.J., 12, 30
General Communications, Wis., 5, 15
General Components, Inc., 225 E. 144th St., New York 51, N.Y., 5, 35, 45, 50
See ad on page 547
Tel: MOtthaven 5-0740
General Electric Co., Specialty Electronic Components Dept., N.Y., 12
General Findings & Supply Co., Industrial Div., Mass., 5, 10, 35
General Hermetic Sealing Corp., 99 E. Hawthorne Ave., Valley Stream, L.I., N.Y., 5, 30
See ad on page 540
Tel: VAlley Stream 5-6363
General Metal Products Co., Pa., 5
General Products Corp., N.Y., 50
General Resch. & Supply Co., Mich., 32
Gering Products, Inc., N.J., 45
Glasseal Prods. Co., Inc., N.J., 30
Glasply Corp., N.Y., 45, 50
Glastic Corp., Ohio, 45, 50
Globe Electrical Mfg. Co., Calif., 5, 15, 20, 45
Godfrey Mfg. Co., Ill., 35
Golding Mfg. Co., N.J., 5, 35
Good-All Electric Mfg. Co., Neb., 10

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86. Fabricators & Services.

Gorham Mfg. Co., 333 Adelaide Ave., Providence 7, R.I., 5, 10, 35
See ad on page 457
Tel: WIlliams 1-1000

Granite State Machine Co., Inc., N.H., 5

Great Eastern Metal Products Co., 22 Woodworth Ave., Yonkers 2, N.Y., 45
See ad on page 546
Tel: YOnkers 5-7555

Gries Reproducer Corp., 168 Beechwood Ave., New Rochelle, N.Y., 50, die casters, zinc alloy
See ad on page 547
Tel: NEw Rochelle 3-8600

Guardian Electric Mfg. Co., 1621-IRE W. Walnut St., Chicago 12, Ill., 30
See ad on page 170
Tel: CHesapeake 3-1100

Guaranteed Welding Eng. Co., N.J., 5
Gurley Co., W. & L. E., N.Y., 10, 15
H & H Machine Co., Inc., Pa., 35
Hall-Barkan Instruments, Inc., N.Y., 5, 15
Hallett Mfg. Co., Calif., 5, 12
Hamilton Watch Co., Pa., 5, 10, 12, 15, 25
Hampden Mfg., Co., Inc., Mass., 5, 45
Handee Household Prods., Inc., N.Y., 5
Harper-Leader, Inc., Conn., 10
Haumar Instruments Co., Inc., Mass., 5

Haveg Industries, Inc., 900 Greenbank Rd., Wilmington 8, Del., 45, 50
See ad on page 525
Tel: WYman 8-2274

Haydon Instrument Co., Conn., 5
Haydu Electronic Products, Inc., N.J., 35
Heldor Mfg. Corp., N.J., 5, 30, 35
Helko Products Co., Inc., N.Y., 15
Henneke Engineering Co., N.Y., 35
Henry & Miller Industries, Inc., N.J., 5, 10, 35
Hermes Plastics, Inc., N.Y., 15, 32, 45

Hermetic Seal Corp., 31 South Sixth St., Newark 7, N.J., 30
See ad on page 105
Tel: MArket 3-9400

Hermetite Corp., Mass., 30
Hi-Lo TV Antenna Corp., Ill., 5, 20, 35, 40, 45, 50
High Vacuum Equip. Corp., Mass., 5, 25

Highland Engineering Co., 90 Magnolia Ave., Westbury, L.I., N.Y., 5
See ad on page 441
Tel: EDgewood 3-2933

Hildebrand, John G., Mass., 12, 45
Hinde & Dauch Div. of W.Va. Pulp & Paper Co., Ohio., 40
Hitchiner Mfg. Co., Inc., N.J., Precision Investment Casting
Honeycomb Co. of America, Conn., 45
Hoover Electronics Co., Md., 5, 12
Houghton Labs., Inc., N.Y., 12, 45
Howard Precision, Inc., N.J., 35

Hudson Tool & Die Co., 18-38 Malvern St., Newark 5, N.J., 35
See ad on page 101
Tel: MArket 3-7584

Hunter Spring Co., Pa., 35
I.D.E.A., Inc., Ind., 5
IE Manufacturing, Ill., 15, 32, 35, 40, 45
Illinois Tool Works, Fastex Div., Ill., 35, 50
Illumitronic Eng. Co., Calif., 45
Induction Heating Corp., N.Y., 25
Industrial Development Labs., Inc., N.J., 15, 50
Industrial Engravers, Inc., N.Y., 15

Industrial Hardware Mfg. Co., 109 Prince St., New York 12, N.Y., 5, 20, 35, 45, 50
See ad on page 423
Tel: ORegon 7-1881

Industrial Production Associates Corp., N.Y., 5
Ingraham Co., Conn., 5, 35
Inland Electronics Corp., Ill., 5
Instrument Motors, N.J., 5
Insulating Fabricators of N.E., Inc., Mass., 5, 15, 45
Insulation Mfg. Corp., Ill., 5
Insulation Prods. Co., Pa., 50
Insuline Corp. of America, N.H., 5, 10
International Optical Co. Inc., N.Y., 15, Glass
International Pump & Mach. Works, N.J., 30
Investment Casting Co., N.J., Investment Casting
Jack & Heintz, Inc., Ohio, 5, 10, 12, 25, 40
Jacksonville Metal & Plastics Co., Fla., 5, 15, 45
Jacobs Instrument Co., Md., 12
Jamison Plastics Corp., N.Y., 5, 40, 50
Jan Hardware Mfg. Co., Inc., N.Y., 5, 25, 35
Jansen Electronics Mfg., Inc., Minn., 5
Jansky & Bailey, Inc., D.C., 5
Jetronic Industries, Inc., Pa., 5, 12, 35
Jodee Plastics Co., N.Y., 5, 12, 15, 20, 32, 40, 45, 50

Johnson & Hoffman Mfg. Corp., 31 E. 2nd St., Mineola, N.Y., 35
See ad on page 588
Tel: PIoneer 2-3333

Kaiser Aircraft & Electronics Div., Kaiser Ind. Corp., Ohio, 5
Kane Mfg. Corp., Pa., 5
Kern & Co., Inc., L. M., N.Y., 5, 35, 45
Key Resistor Corp., Calif., 12
Kidde & Co., Inc., W., N.J., 35
King Labs., Inc., N.Y., 35
Kingsley Stamping Machine Co., Calif., 32
Kinn Electronics Corp., Md., 5, 35, 40
Kinney Co., Inc., J., Pa., 10, 35
Kirkland Co., H. R., N.J., 15
Kling Metal Spinning Co., N.Y., 35
Koch & Sons, H., Calif., 45, 50
Krengel Mfg., Co., Inc., N.Y., 32, 35
Kulite Tungsten Co., N.J., 5

Kulka Electric Corp., 633-643 S. Fulton Ave., Mt. Vernon, N.Y., 5, 15, 35, 50
See ad on page 551
Tel: MOunt Vernon 4-4024

Kupfrian Mfg. Corp., 157 Prospect Ave., Binghamton, N.Y., 5, 12
See ad on page 379
Tel: BInghamton 3-6426

Kurz-Kasch, Inc., Ohio, 50
Kuss Industries, Inc., Pa., 5, 35
Labko Scientific Inc., Okla., 5, 40
Laboratory for Electronics, Inc., Mass., 5, 12
Laboratory Furniture Co., Inc., N.Y., 5, 35
Laminated Sheet Prods. Corp., Mass., 5, 15, 32, 45
Lamtex Industries, Inc., N.Y., 45, 50
Landau Metal Prods. Corp., N.Y., 5, Sheet Metal, 35

Directory IV. Materials & Services

86. Fabricators & Services.

Lansky Die Cutting Corp., N.Y., 5, Die Cutting & Embossing
Lapointe Industries Inc., Printed Circuit Div., Conn., 5, 10, 12, 20, 25, 30, 35, 40
Lear, Inc., Calif., 5
Lee Chemical Corp., W., N.Y., 45, 50
Leitch Engrg. Corp., N.H., 5
Lennard Co., Inc., P. M., N.Y., 45, 50
Lerco Electronics, Inc., Calif., 50
Lewis & Spring Mfg. Co., Ill., 35
Leyse Aluminum Co., Wis., 35
Ling Systems, Inc., Calif., 5
Link Aviation, Inc., N.Y., 5, 10
Litho-Etch Metal Name Plate Co., N.Y., Etching
Litton Industries, Md., 5, 12
Long, Inc., T. J., N.Y., 5, 15, 20, 32, 45
Luther Electronic Mfg. Co., Calif., Brazing
Lytle Engrg. & Mfg. Co., N.M., 5, 12
M F Electronics Co., 122 E. 25th St., New York 10, N.Y., 5
See ad on page 281
Tel: GRamercy 3-5899
M & G Metal Prods. Co., Ill., Welding & Brazing Service
M V M, Inc., N.Y., 5
Machinery Electrification, Inc., Mass., 5
MacLeod & Hanopol, Inc., Mass., 5
Madigan Corp., N.Y., 5
Magnasync Mfg. Co., Ltd., Calif., 5
Magnetic Instruments Co., N.Y., 5, 40
Malkin-Illion Co., N.J., 5
Mandex Mfg. Co., Inc., Ill., 5, 10, 20, 25, 45, 50
Manger Electric Co., Conn., 12, 32, 45, 50
Mansfield Fabricators, Inc., Ohio., 5, 45
Marine View Electronics, Inc., N.Y., 5
Markwik Mfg. Co., Inc., N.Y., 32
Martin Products, Inc., N.J., 15, 32, 45
Maryland Etching Co., Inc., Md., 15, 35
Masonite Corp., Ill., Hardboard
Matthews & Co., J. H., Pa., 32
Maurer, Inc., J. A., N.Y., 5
Mayberry Electronics Co., Calif., 5
McCurdy Radio Industries, Ltd., Canada, 5
McMillan Industrial Corp., Mass., 50
Merit Plating Co., N.Y., 10
Metal Fabricators Corp., Mass., 5
Metal Finishers, Inc., 78 S. Franklintown Rd., Baltimore 23, Md.
See ad on page 566
Tel: GIlmor 5-0594
Metallic Arts of N.E., Inc., Mass., 35
Metaplast Co., Inc., N.Y., 10
Metaplast Corp., Pa., 12, 45, 50
Meter-Mix Corp., Mass., 12, 45, 50
Methode Mfg. Corp., 7447 W. Wilson Ave., Chicago 31, Ill., 10, 15, 35, 45, 50
See ad on page 388
Tel: Underhill 7-9600
Metpro, Inc., R. I., R.I., 35
Mica Fabricating Co., N.J., 45, 50
Mica Insulator Co., N.Y., 15, 45, 50
Micarta Fabricators, Inc., Ill., 15, 45
Mico Instrument Co., Mass., 15
Micromat Co., N.J., 5
Micromatic Machine Corp., N.Y., 35
Micropulse Engrg., Calif., 5
Microwave Develop Labs., Inc., Mass., 5, 40
Micro-Wire Stranding Co., N.J., 35
Midwest Molding & Mfg. Co., Ill., 50
Millen Mfg. Co., Inc., James, 150 Exchange St., Malden 48, Mass., 12, 50
See ad on page 314
Tel: DA 4-4108
Miller Dial & Name Plate Co., Calif., 15, 32
Milman Engineering Co., Calif., 5
Minco Products, Inc., Minn., 5, 12
Minneapolis-Honeywell Reg. Co., Military Prods. Group, Minn., 5
Mitchell Electronics Corp., N.Y., 12
Mitronics, Inc., N.J., 30
Model Engineering & Mfg., Inc., Ind., 5
Modelectric Products Corp., N.J., 5
Molded Insulation Co., Pa., 5, 50
Mona Industries, Inc., N.J., Remover
Montek Associates, Inc., Utah, 5, 12, 50
Moran Instrument Corp., Calif., 5
Morton Electronics Corp., Chester, Pa., 5
Motorola, Inc., Ariz., 5, 10, 12, 15, 20, 25, 30, 40
Motson Co., Frank J., Pa., 32, Printing
Moxness Products, Inc., Wis., 50
Muckle Mfg. Co., Minn., 40
Murray Plastics Co., N.Y., 45
Mykroy, Inc., Ill., 5, 45
National Electronics Corp., Valco Div., Calif., 5, 12
National Engineering Prod., Inc., D.C., 12
National Fabricated Prods., Ill., 5, 12, 35, 50
National Pneumatic Co., Inc., Holtzer Cabot Div., Mass., 20
National Tel-Tronics Corp., 52 St. Casimir Ave., Yonkers, N.Y., 5, 45
See ad on page 413
Tel: YOnkers 8-6400
National Vulcanized Fibre Co., P.O. Box 311, Wilmington 99, Del., 45
See ad on page 389
Tel: OLympia 5-6371
Networks Electronic Corp., Calif., 5, 30
New England Laminates Co., Inc., Conn., 50
New Hermes Engraving Machine Corp., N.Y., 15
New York Coil Co., Inc., Pa., 12
Newark Spinning & Stamping Co., N.J., 35
Nichols Ltd., R. H., Canada, 15
Norrich Plastics Corp., N.Y., 5, 45
North Electric Co., Ohio, 5
Northern Plastics Corp., Wis., 5, 45
Northwest Plastics, Inc., Minn., 50
Nuclear Corp. of America, Inc., N.Y., 5
Nucor Research, Inc., Mich., 5
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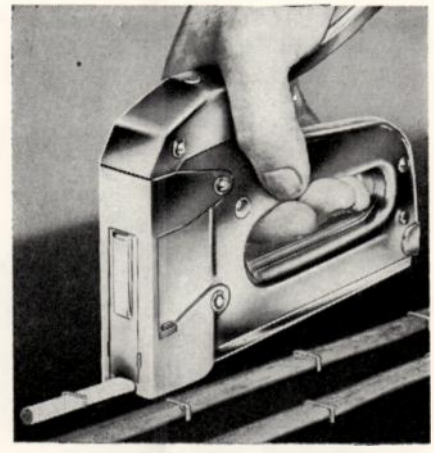
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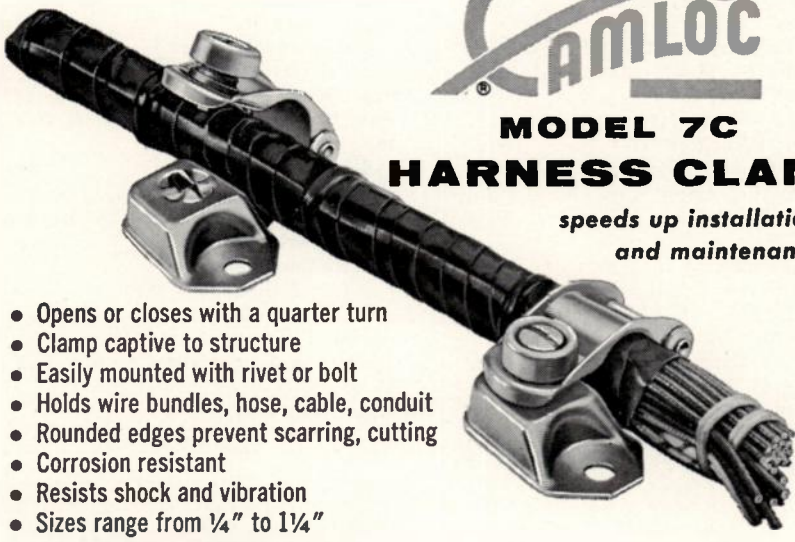
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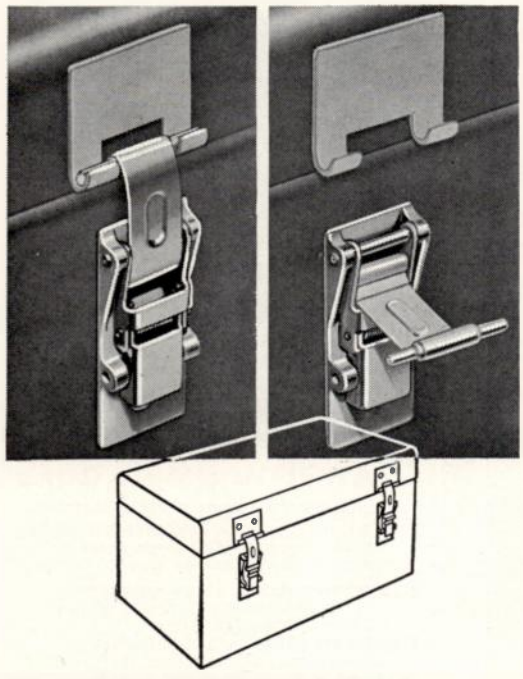
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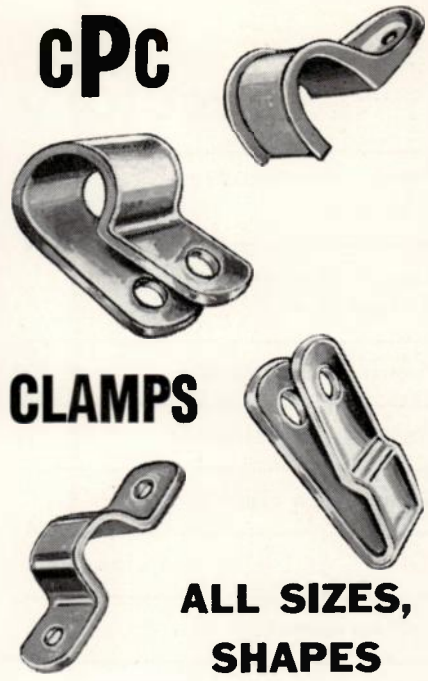
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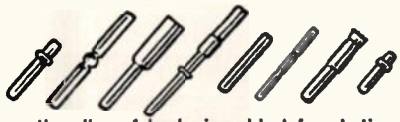
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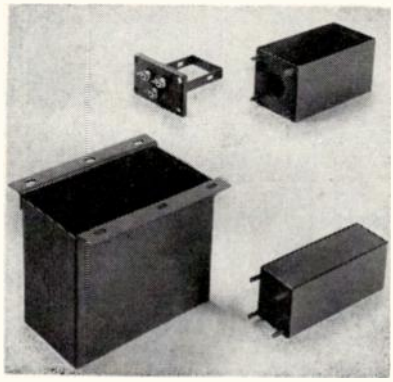
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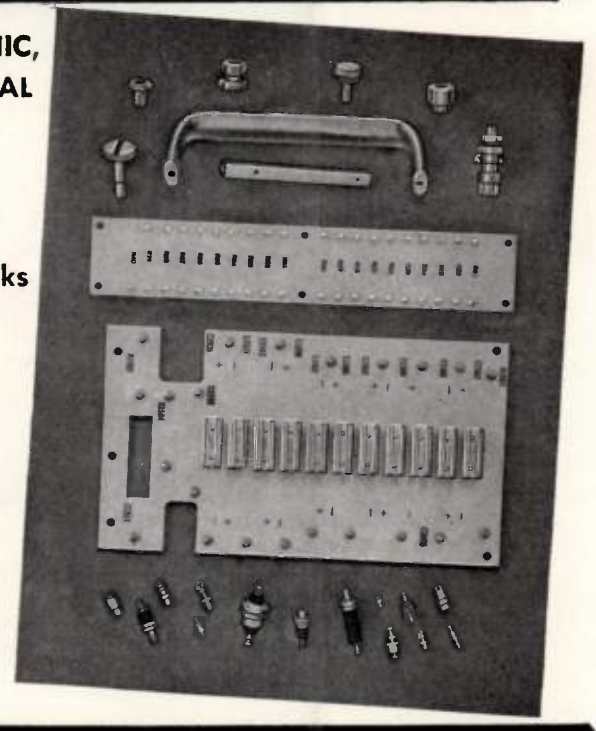
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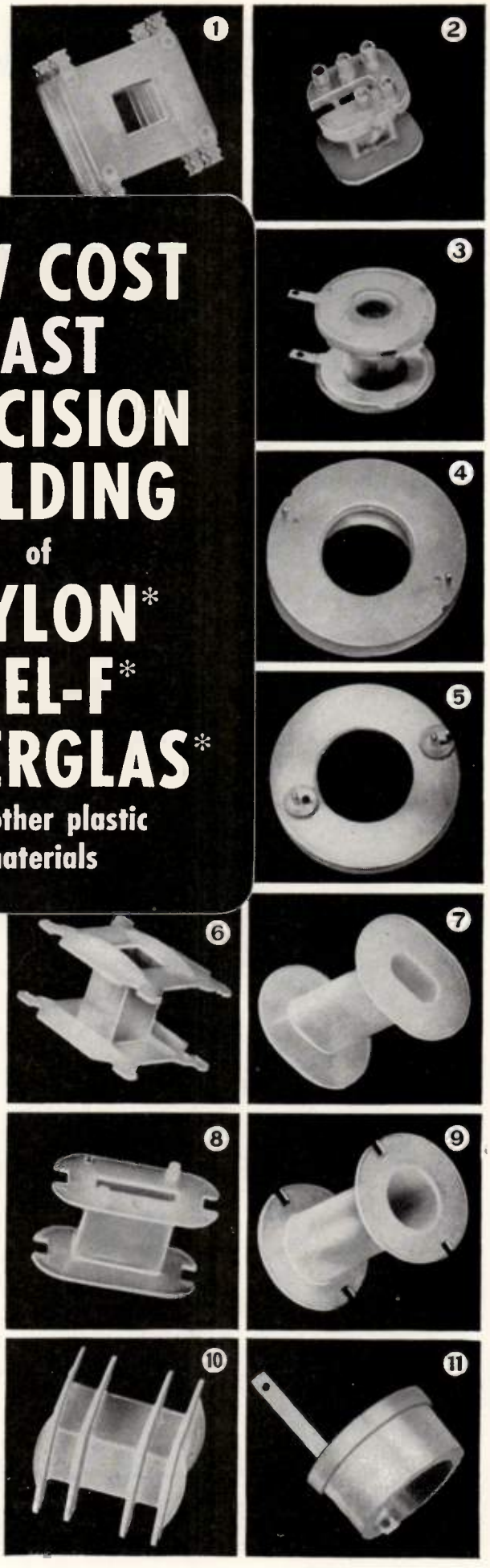
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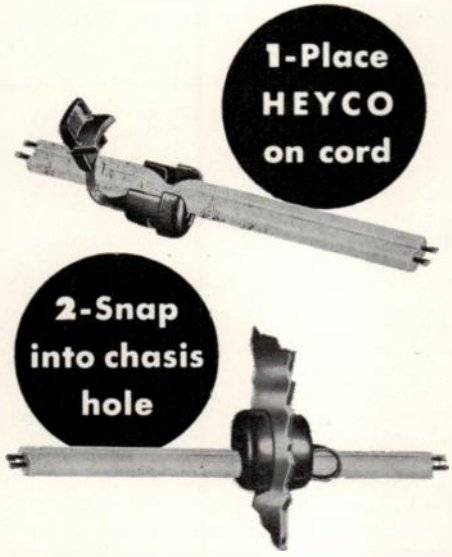
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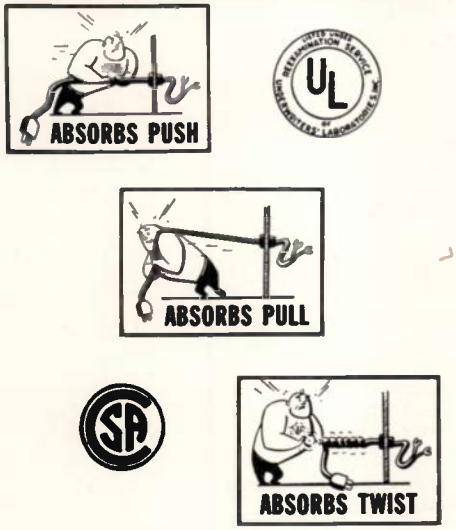
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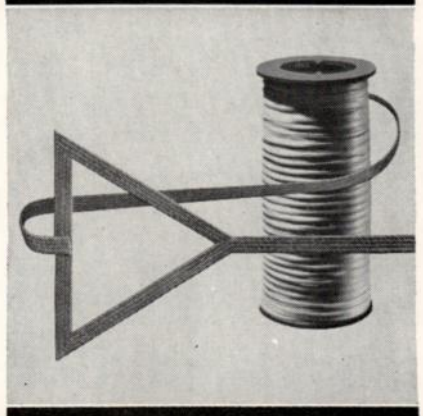
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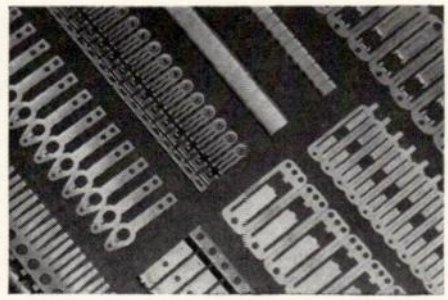
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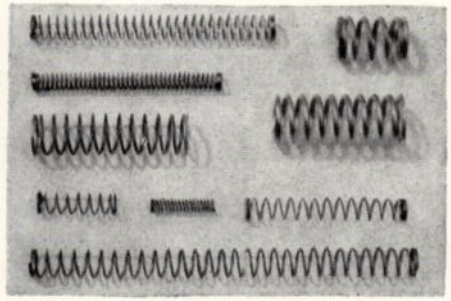
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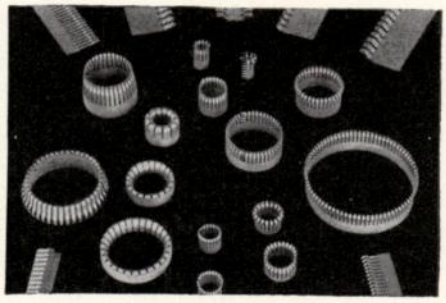
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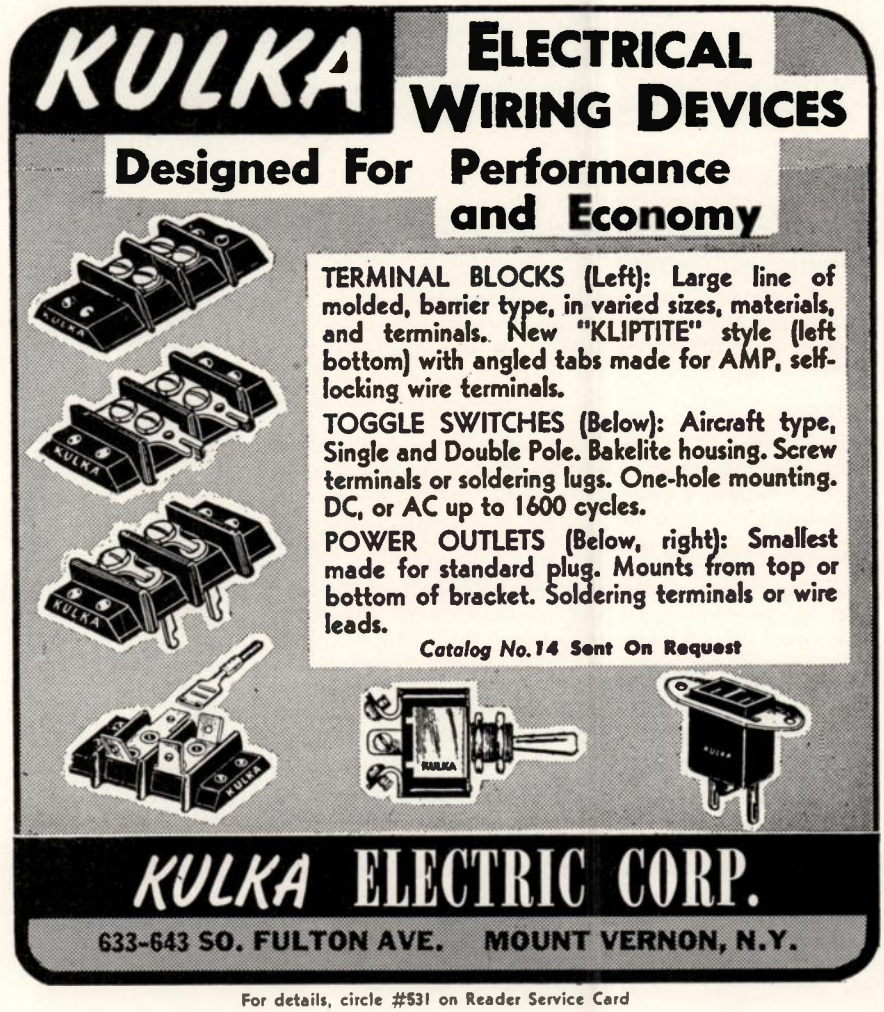
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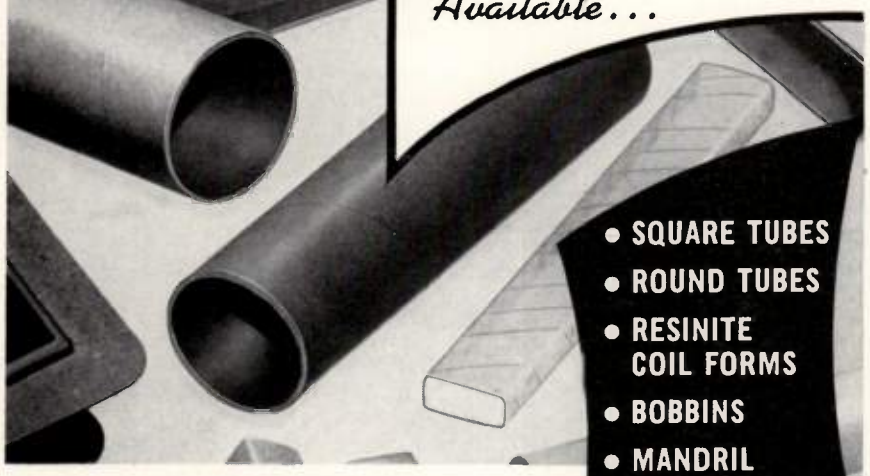


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Code numbers shown after each firm refer to product or service sub-classes listed at the beginning of each major classification. Complete addresses will be found in the Alphabetical Directory.

PRECISION

The Only **COMPLETE COIL FORM SERVICE** *Available...*



- SQUARE TUBES
- ROUND TUBES
- RESINITE COIL FORMS
- BOBBINS
- MANDRIL SERVICE
- FABRICATING SERVICE

SQUARE AND RECTANGULAR TUBES

Produced in any length, shape or size from 1/16" to 8", wall thickness from .010 to .125. Fabricated from dielectric kraft, fish paper, acetate, other patented materials or combinations. Bowed sidewall or Di-Formed construction.

ROUND TUBES

Produced in any decimal size up to 8" I. D. Fabricated from kraft, fish paper, cellulose acetate, mylar, polystyrene, quinterra, fibre glass and other dielectric materials.

RESINITE COIL FORMS

These coil forms have the highest resistivity of any resinated product. Furnished plain, embossed, internally threaded or triangular shape . . . also flyback transformer forms.

BOBBINS

Supplied round, square or rectangular. Cores fabricated from any of the above materials. Metal, asbestos, plastic or fibre flanges. Constructed to fit smaller spaces and permit multiple winding.

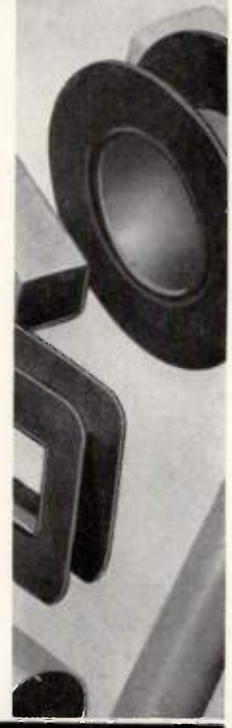
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Accurately ground steel and aluminum coil mandrils at cost economy comparable to commonly used undependable wood or undersized steel mandrils.

FABRICATING SERVICE

We have modern high speed equipment to provide you with any special shape or form . . . rolled, spun, flared, punched or formed to your particular requirement.

Ask about Precision's complete coil form service. Request informative bulletin.



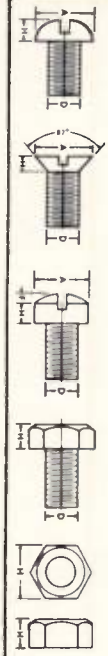
PRECISION PAPER TUBE COMPANY
2062 West Charleston Street, Chicago 47, Illinois
Plant No. 2: 1 Flower Street, Hartford, Conn.
Representatives throughout United States and Canada

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87. Hardware & Findings.

Mundt & Sons, Charles, N.J., 30, Perforated Metals
Mystik Tape Prods. Co., Calif., 3
Narrow Fabric Co., Pa., 36
National Co., Inc., Mass., 18, 21
National Fabricated Prods., Ill., 66
National Pneumatic Co., Inc., Holtzer Cabot Div., 45, 55, 57
National Tel-Tronics Corp., 52 St. Casimir Ave., Yonkers, N.Y., 30, 45, 55, 66, 69, 72, 80, 82
See ad on page 413
Tel: YOnkers 8-6400
Neosil Prods. Div. of Rubber Assoc., N.Y., 27, 64
Nielsen Hardware Corp., 770 Wethersfield Ave., Hartford 14, Conn., 21
See ad on page 553
Tel: JAckson 2-8145
Norrich Plastics Corp., N.Y., 12, 14, 33
North Electric Co., Ohio, 18, 66
North Shore Nameplate, Inc., N.Y., 3, 42, 45
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Northwest Plastics, Inc., Minn., 16
Ny-Glass, Inc., Calif., 12
Nylogrip Products, Mass., 21, Nylon, 54, 55, Nylon, 57, Nylon, 58
O & S Research, Inc., N.J., 18, 55
Page-Madden Co., N.Y., 6
Painton & Co., Ltd., England, 18
Palnut Co., N.J., 21, 57
Panseal, Inc., N.J., 64

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★ **SPECIALISTS**
from 0000-160 to 2-56 TPI and National Miniature.

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to meet your requirements.

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to assure perfect fit.

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Write for free catalog containing prices and dimensional data.

J. I. MORRIS CO.
Southbridge Mass

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Directory IV. Materials & Services

87. Hardware & Findings.

Paramount Paper Tube Corp., 618 Lafayette St., Fort Wayne 2, Ind., paper tubes
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Tel: A-4197

Park Nameplate Co., Inc., N.Y., 3, 18, 45, Aluminum Foil
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Paul & Stein Bros., F. H., Inc., N.Y., 16
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Peerless Products Industries, Ill., 18, 30, 45, 55
Pee-Wee Molding Corp., N.Y., 12, 33
Penn Engineering & Mfg. Corp., Pa., 21
Penn Fibre & Specialty Co., Inc., Pa., 27, 33, 57, 66
Permonite Mfg. Co., Ill., 66

Peter Partition Corp., 124 Boerum Pl., Brooklyn 1, N.Y., 47
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Pickett & Eckel, Inc., Calif., Hand Tools
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Precision Metal Products Co. of Malden, Mass., 45, 55

Precision Paper Tube Co., 2062 W. Charleston St., Chicago 47, Ill., 9, 12
See ad on page 552
Tel: ARmitage 6-5200

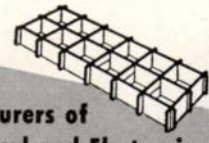
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Rapid Specialties Co., 327 W. Huron St., Chicago 10, Ill., 75
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Sag Harbor Industries, Inc., N.Y., 12
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Scovill Mfg. Co., Conn., 21, 30, 55

Sealectro Corp., 610 Fayette Ave., Mamaroneck, N.Y., 66, 72, 80
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Tel: OWens 8-5600

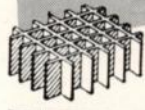
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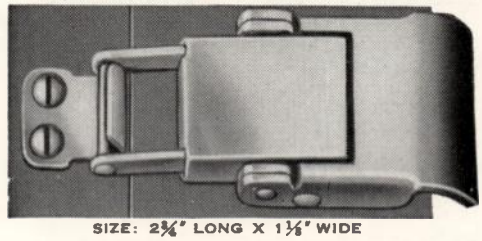
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Here is **the outstanding selection** of types and sizes—over 800 different miniature and subminiature standoffs and feedthrus; jacks and plugs; connectors; taper-pin receptacles. Wide choice of lug styles and platings. And available in **nine RETMA code colors** for circuit and function designations.

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Small Quantities: For the convenience of prototype designers, development labs, special equipment builders, experimenters and others, Sealectro Press-Fit terminals are stocked by industrial distributors. Sixty-odd types most generally used, are available locally.

Production Quantities: Deal directly with the Sealectro plant. The local Sealectro field representative is always "at your service!"



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Wide selection of miniature sizes in voltage ratings up to 4000. For components stressing higher voltages rather than space-saving. Choice of lug styles and platings. In nine RETMA code colors.

Also in subminiature sizes for miniaturization programs. Operating voltages up to 750. Choice of lugs, platings, colors.



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In miniature sizes and choice of lugs including hollow-tube style, facilitating connections through metal chassis or casing. Voltage ratings up to 5500 in larger sizes. Subminiature sizes for ultra space-saving, in voltage ratings up to 750. Choice of lug styles, platings, code colors.



JACKS

Rugged miniature and subminiature test-point jacks featuring either stamped or machined beryllium-copper contact members with bull-dog grip. Take standard instrument test probes or companion plug. Ideal for test points on metal panels, connecting to circuitry or components for external testing, and for unbreakable metal-plate patch-cord boards. In nine RETMA code colors. Plus New Right-Angle Printed-Circuit Jack. Write for samples.



PLUGS

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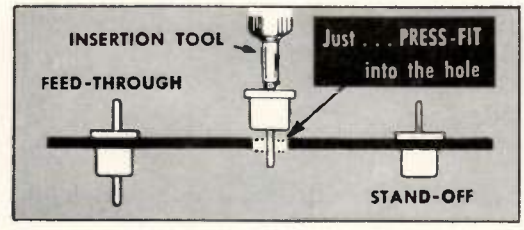


TAPER PIN

Individually-insulated precision-machined receptacles for standard taper pins, taking advantage of the simple, fast, economical Press-Fit installation. Available in feedthru and standoff types, as well as high-voltage designs with extra-long leakage path. In nine RETMA code colors.

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Install them FAST and TO LAST!



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SUB-MINIATURE R.F. CONNECTORS

Radically different. Provably *better*. And you can tell them at a glance—by their *hexagonal* bodies. The only connectors that can be wired and rewired in factory, lab, shop or field, *without special tools*. Typical advantages:

Successfully withstand pull-out strain in excess of 20 lbs.

Captivated contacts insure proper engagement of mating parts.

Clamping parts, insulators and contacts readily assembled on cable before insertion in connector body.

Gold-plated hex stock allows assembly with usual pliers or small wrench.

Contacts soldered to center conductor of cable, insuring proper connections.

No distortion of cable insulation that might affect electrical characteristics.

Flexible design accepts all RG-188/U MIL cable diameters.



50-OHM "CONHEX" TYPES SHOWN

Type 3000 Cable Plug	Type 3002 Panel Receptacle	Type 3004 Cable Feedthru
Type 3001 Cable Jack	Type 3003 Panel Jack	Type 3005 Right-Angle Plug

Also available in 75- and 95-ohm impedance sizes.

* TM reg. pend.

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Also a free subscription to the bi-monthly TERMINALOGY, dealing with terminal developments, applications, installations.

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Directory IV. Materials & Services

87. Hardware & Findings.

Semrow Products Co., Inc., Ill., Speaker Grilles
Shell Chemical Corp., N.Y., 3
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Standard Pressed Steel Co., Pa., 21, 55, 57, Spring-Pins
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Stanley Tools, Conn., Screw Drivers

Stanwyck Coil Co., E., 75 Carson Ave., Newburgh, N.Y., 16, 55
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Tel: NEwburgh 3030

Star Expansion Prods. Div., Star Precision Devices, Inc., Pleasant Hill Rd., P.O. Box 108, Mountainville, N.Y., 21, 54, 82
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Tel: COrnwall 3-3755

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Staver Co., Inc., The, N.Y., 16, 21, 27, 51, Motor Shims
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Stewart Corp., F. W., 4311-13 Ravenswood Ave., Chicago 13, Ill., 24
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Stone City Mach. & Tool Co., Inc., Ind., 15, 21, 75

Sun Dial Corp., Passaic Ave., Caldwell, N.J., 18
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Superex Electronics Corp., N.Y., 82
Superior Abrasive Laboratories, N.Y., Abrasives for Germanium Sawing

Superior Electric Co., The, 8000 Lee Ave., Bristol, Conn., 69
See ad on pages 36-40
Tel: LUdlow 2-9561

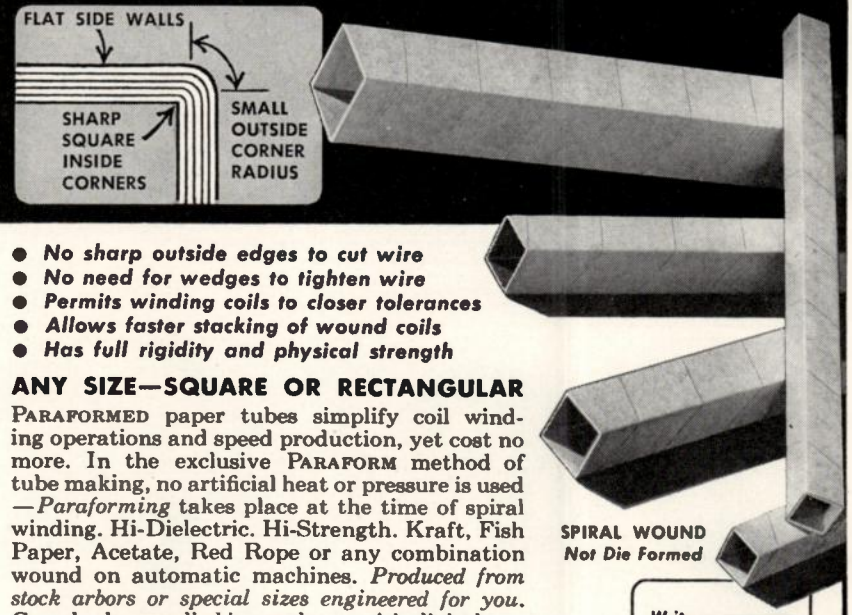
Supreme Process Co., N.Y., 18, 45, Edgelit Panels
Sweet Mfg. Co., Mass., 16, 21, 51, 55, 60, 69, 72
Syncor Products Co., Mass., 6, Fused Quartz
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Television Hardware Mfg. Co., Div. of G-C Textron, Inc., Rockford, Ill., antenna mounting hardware
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Tel: ROckford 8-9661

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Thor Ceramics, Inc., 225 Belleville Ave., Bloomfield, N.J., 6, 12, 33, 66
See ad on page 532
Tel: PIlgrim 3-7797

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- *No sharp outside edges to cut wire*
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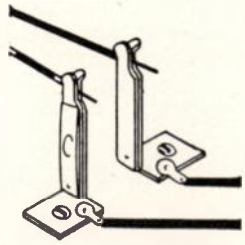
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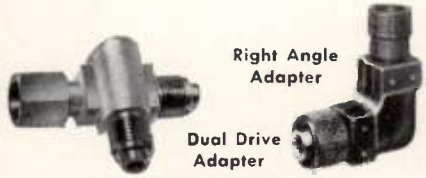


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87. Hardware & Findings.

Tinnerman Products, Inc., Ohio, 15, 21, 51, 57, 63
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Trans-Chem Corp., N.Y., 18
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Triad Transformer Corp., 4055 Redwood Ave., Venice, Calif., 16
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Tel: EXmont 7-2145
TExas 0-5381
Trico Fuse Mfg. Co., Wis., 75
Tricon Mfg. Co., Ill., 54
Tri-Dex Co., Calif., 66
Trimm, Inc., 400 W. Lake St., Libertyville, Ill., 80
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Tel: LIbertyville 2-3700
Tri-Point Plastic, Inc., N.Y., 55, 66, Teflon Stand Offs
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Ulanet Co., George, 416 Market St., Newark 5, N.J., contact screws
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Tel: MArket 2-4876
United Aircraft Prods., Ohio, Transistor Heat Dissipators
United-Carr Fastener Corp., Mass., 21, 57
United Insulator Div., Telegraph Condenser Co., Ltd., Eng., 6, 66

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87. Hardware & Findings.

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Wilson Div., H. A., Engelhard Industries, Inc., U.S. Highway 22, Union, N.J., 60
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Tel: MUrdock 6-6600
Winchester Electronics, Inc., Conn., Stand Off & Feed Thru Terminals
Wolfe Co., Franklin C., Calif., Seals Static
Worcester Pressed Aluminum Corp., Mass., 16, Brackets
X-Acto, Inc., N.Y., Blades, Punches, Routers
Z & W Mfg. Corp., Ohio, 55
Zierick Mfg. Corp., N.Y., 15, 69, 72



For details, circle #542 on Reader Service Card

88. Heating Equipment.

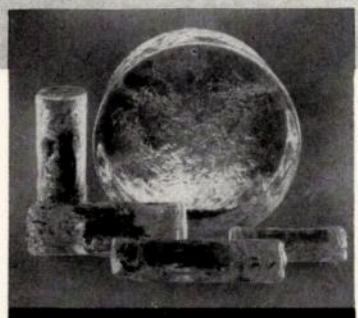
5. Brazing, soldering & welding	12. Electric heaters & elements
10. Di-electric heating	15. Induction heating
	20. Ovens

Accurate Specialties Co., Inc., N.Y., 5
Ackerman Gould Co., N.Y., 12
Acme Electric Heating Co., Mass., 12, 20
Aircom, Inc., N.J., 5
Allis Chalmers Mfg. Co., Wis., 10, 15
American Electrical Heater Co., Mich., 12
American Gas Furnace Co., N.J., 5, 20, Burners
American Instrument Co. Inc., Md., 12, 20
Atwood, W. L., Ohio, 10, 15, Heat Exchangers
B T U Engrg. Corp., Mass., 12, 20, Hydrogen & Vacuum Furnaces
Blue M Electric Co., Ill., 20 Electric Furnaces
CM Mfg. & Machinery Co., N.J., 12, 20
Canadian Research Inst., Canada, 10, 12, 15, 20
Chemalloy Electronics Corp., Calif., 5
Cico Corp., Calif., 12
Cox & Co., Inc., N.Y., 12
Crucible Steel Co., of American, Pa., 5
Cutler-Hammer, Inc., Wis., 12
Dominion Electrohome Ind. Ltd., Canada, 5, 10, 12, 15, 20
Driver Co., Wilbur B., 1875 McCarter Highway, Newark 4, N.J., 12 elements
See ad on page 158
Tel: HUmboldt 2-5550
Eisler Engrg Co., Inc., N.J., 15, 20
Electric Hotpack Co., Inc., 5074 Cottman Ave., Philadelphia 35, Pa., 20
See ad on page 476
Tel: DEvonshire 3-1700
Electro-Flex Heat, Inc., Conn., 12
Electrofilm, Inc., Calif., Electro Mesh Heaters
Electronic Processes Corp., Calif., 10
Electronica Industrial Ltda., Brazil, 5, 10, 12, 15, 20
Emerson Apparatus Co., Mass., 20 Textile Conditioning
Engelhard Industries, Inc., 113 Astor St., Newark 2, N.J., 5
See ad on page 166
Tel: BIgelow 3-0030

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- Phase Shifters
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88. Heating Equipment.

Erdco Engrg. Corp., Ill., 10, 15
Falls Metal Works, Inc., N.J., 20
Forney Industries, Colo., 5
Fostoria Pressed Steel Corp., Ohio, 12, 20
Fusion Engineering, Ohio, 5
General Electric Co., Apparatus Sales Div., N.Y., 12, 15
Girdler Corp., Process Equip. Div., Ky., 10
Glasseal Prods. Co., Inc., N.J., 5
Grieve-Hendry Co., Ill., 5, 15, 20
Haddam Mfg. Co., N.J., 12
Handee Household Prods., Inc., N.Y., 5, 15
Hard-N-Tuff Corp., N.Y., Steel Hardening Compound
Haydu Electronic Products, Inc., N.J., Gas Burners & Tips
Hayes Inc., C. I., R.I., 5, 10, 12, 15, 20
High Vacuum Equip. Corp., Mass., 5, 10, 12, 15, 20
Hoskins Mfg. Co., Mich., 12, Element Wire
Hull Corp., Pa., 20, Vacuum Furnaces
Huppert, K. H., Ill., 12, 20, Electric Furnaces
ILG Electric Ventilating Co., Ill., 12
Induction Heating Corp., N.Y., 5, 10, 15
Industrial Development Labs., Inc., N.J., 5
Industrial Systems Co., N.J., 20
Industron Corp., Mass., 5, 10, 15
Internatl Pump & Mach. Works, N.J., 5
Kanthal Corp., Conn., 12
Kinn Electronics Corp., Md., 10, 15
Kinney Mfg. Div., New York Air Brake Co., 3650 Washington St., Boston 30, Mass., vacuum furnaces
See ad on page 196
Tel JAmaica 4-3220
Lepel High Frequency Labs., Inc., 54-18 37th Ave., Woodside 77, N.Y., 5, 15
See ad on page 421
Tel HAvemeyer 6-4580
Litton Engineering Labs., Shaws Hill, P.O. Box 949, Grass Valley, Calif., 15, 20, furnace, vertical hydrogen
See ad on page 570
Tel: GRass Valley 1730
Marion Electrical Inst. Co., N.H., 15
McDowell Electronics, Inc., N.J., 15
McGraw-Edison Co., PGH Lectrodryer Div., Pa., Dehumidification Equip.
Metal & Thermit Corp., N.J., 5
Mica Fabricating Co., N.J., 12
NRC Equipment Corp., Dept. 129, 160 Charlemont St., Newton 61, Mass., furnaces
See ad on page 572
Tel: DEcatur 2-5800
Nevada Air Prods., Co., Nev., 10
New England Oven & Furnace Co., Conn., 20
New Rochelle Tool Corp., N.Y., 10, 15
New York Air Brake Co., Kinney Mfg. Div., 3650 Washington St., Boston 30, Mass., vacuum furnaces
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Nichols Ltd., R. H., Canada, 10
Ohio Crankshaft Co., Tocco Div., Ohio, 5, 15
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Radio Receptor Co., Inc., N.Y., 10
Reeve Electronics, Inc., Ill., 10, 15
Resdel Engineering Corp., Calif., 10
Robotron Corp., Mich., 10, 15
S & B Machine & Tool Co., Inc., N.J., Graphite Furnace
Scientific-Atlanta, Inc., Ga., 10, 15
Scientific Electronic Labs., Inc., 866 Bergen St., Newark 8, N.J., 15, 20
See ad on page 591
Tel: BIgelow 3-8675
Scientific Engineering Laboratory, 1510 6th St., Berkeley 10, Calif., vacuum furnaces
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Tel: LAndscape 6-2772
Sherman Industrial Electronics Co., N.J., 5, 10, 12, 15, 20
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Standard Metals Corp., Mass., 5
Sta-Warm Electric Co., Ohio, 5, 12
Steiner-Ives Co., N.J., 20
Stewart Engineering Co., Calif., Precision Welders
Stokes Corp., Fla., Pa., 15, 20
Sweet Mfg. Co., Mass., 5
Temperature Engineering Corp., N.J., 12, 20, Conveyerized Elec. Furnaces
Tricon Mfg. Co., Ill., 5
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Waage Electric, Inc., N.Y., 12
Wall Mfg. Co., P.O. Box 71, Erie St., Grove City, Pa., 5, 12
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Watlow Electric Mfg Co., Mo., 12
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Weltronic Co., Mich., Welding Controls
Westinghouse Electric Corp., Pa., 5, 10, 12, 15, 20
Wiegand Co., Edwin L., Pa., 10, 12, 20
Woodwelding, Inc., Calif., 10
Zephyr Mfg Co., Inc., 5

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Hermetic sealing services: See class 86

Import & Export: See class 100

Instruction, technical: See class 98

Insulators, ceramic: See class 84

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Directory IV. Materials & Services

89. Insulating & Shielding Materials.

5. Cambric sheeting
10. Cambric tubing
15. Ceramic
20. Cotton tapes
25. Fiberglas tapes
30. Fiberglas tubing
35. Glass bonded mica
36. Microwave shielding
38. Paper
40. Plastic
45. RF shielding materials
50. Rubber
55. Synthetics

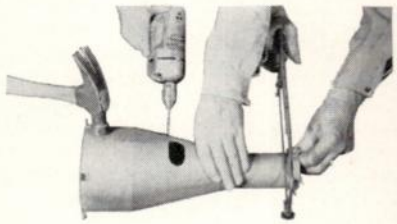
Accurate Mfg. Co., N.J., Electrical Insulating Tapes
Ace Engineering Machine Co., Inc., Pa., 45
Ace Fabricators, Ill., 38, 40, 55
Acme Wire Co., Conn., 5, 25, 38
Actioncraft Prods., N.Y., 10, 30, 40
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Alpha Wire Corp., 200 Varick St., New York 14, N.Y., 30, 40, 50, 55
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American Printed Circuits Co., N.J., 38, 40
Anchor Plastics Co., Inc., N.Y., 40
Anti-Corrosive Metal Prod. Co., N.Y., 40, 55
Arlin Mfg. Co., Mass., 38, 40, 55
Armstrong Cork Co., Pa., Glass Insulators
Asheville-Schoonmaker Mica Co., Va., Pure & Plate Mica
Auburn Mfg. Co., Conn., 5, 10, 25, 30, 35, 36, 38, 40, 50, 55
B & C Insulation Prods., Inc., N. J., 10, 30
Bacon Industries, Inc., Mass., 50, Silicone
Bentley-Harris Mfg. Co., Pa., 30
Birnbach Radio Co., Inc., 145 Hudson St., New York 13, N.Y., 30, 40, 45, 55
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Tel WAlker 5-6980
Bishop Mfg. Corp., N.J., 40, 50, 55
Bogart Mfg. Co., N.Y., 36
Borden Chemical Co., Resinite Dept., Calif, 40
Brand & Co., Inc., W., Conn., 5, 10, 20, 25, 30, 35, 38, 55
Braun Tool & Instrument Co., Inc., H., N.J., 36, 45
Calcon Mfg. Co., Pa., 40, 55
Carborundum Co., N.J., 15
Celanese Corp., N.J., 40
Ceramic Specialties Co., Inc., Ohio, 15
Chemfab Corp., N.Y., 30
Chemical Products Corp., R.I., 40
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Cico Corp., Calif., 40, 45
Cleveland Container Co., 6201 Barberton Ave., Cleveland 2, Ohio, 38, 40
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Clowes Ceramic Corp., Tenn., 15
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Connecticut Hard Rubber Co., The, Conn., Silicone Rubber Tapes
Consolidated Electrodynamics Corp., Calif., 15
Continental-Diamond Fibre Corp., Del., 25, 30, 35, 40, 55
Controlled Atmosphere Enclosures Corp., N.Y., 40
Coors Porcelain Co., Colo., 15
Copeland & Jenkins Ltd., Eng., mica
Cortland Industries, Inc., Ill., 5, 35, 38, 40, 50, 55
Cottrell Paper Co., Inc., N.Y., 5, 38
Crane Packing Co., Ill., 40
Crowley Div., Aerovox Corp., N.J., 36, 45
Crystal-X Corp., Pa., 40
Daniels, Inc., C. R., Md., 20, 55
Davidoff, C., N.Y., 45
De Laval Separator Co., N.Y., 50
Dell Optics Co., Ltd., 327 55th St., West New York, N.J., fused quartz insulators
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Tel: UNion 7-1599
Dennison Mfg. Co., Mass., 38
Diamonite Prods. Mfg. Co., Ohio, 15
Dielectric Materials Co., Ill., 10, 30
Dilectrix Corp., N.Y., 40, Teflon Films
Dixon Corp., R.I., 40
Dow Chemical Co., Mich., 40
Dow Corning Corp., Mich., 40, 50, 55
Du-Co Ceramics Co., Pa., 15
DuPont de Nemours & Co., Inc., E. I., Del., 40 Mylar Polyester Film
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Factory Enterprises, Inc., Pa., 45
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Flexrock Co., Pa., 40
Fluorocarbon Products, Inc. Div., U.S. Gasket Co., N.J., 40
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Formica Corp., 4532 Spring Grove Ave., Cincinnati 32, Ohio, 40
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Hexcel Products, Inc., Md., 45, Honeycomb Core Materials
Honeycomb Co. of America, Conn., 30
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Illumitronic Eng. Co., Calif., 40
Industrial Accessories, Inc., N.J., Silicon Rubber Tapes & Tubing
Industrial Mica Corp., N. J., Mica
Insl-X Co. Inc., N.Y., 40, 50, 55
Instrument Specialties Co., Inc., 232-A Bergen Blvd., Little Falls, N.J., 36, 45
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Insulation Prods. Co., Pa., 40
Integrated Mica Corp., N.Y., 15, & Mica
Interstate Cable-Connector Co., N.Y., 30, 45
Isolantite Mfg. Corp., N.J., 15
Jablo Plastics Industries, Ltd., England, 40
Jan Hardware Mfg. Co., N.Y., 36
Jodee Plastics Co., N.Y., 40
Johns-Manville, N.Y., 20, 38, 50, 55
Johns-Manville, Dutch Brand Div., Ill., 20, 25, 50, 55
Kendall Co., Polyken Sales Div., Ill., 20, 25
Kinney Co., Inc., J., Pa., 45
Kirchberger & Co., Inc., M., N.J., 10, 15
Laminated Sheet Prods. Corp., Mass., 40
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Maigne Co., O. J., N.Y., 40, 50, 55, Teflon Tape & Gaskets
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Mansol Ceramics Co., N.J., 15
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McMillan Industrial Corp., Mass., 36, 40, 45
Mesa Plastics Co., Calif., 40
Metal Textile Corp., N.J., 45

Code numbers shown after each firm refer to product or service sub-classes listed at the beginning of each major classification. Complete addresses will be found in the Alphabetical Directory.

Mica Fabricating Co., N.J., 5, 10, 15, 20, 25, 30, 35, 40, 45, Mica
Mica Insulator Co., N.Y., 40
Micanite & Insulators Co., Ltd., Eng., mica insulators
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Millen Mfg. Co., Inc., James, 150 Exchange St., Malden 48, Mass., 15
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Mitchell Rand Mfg. Corp., Insulation Div., N.Y., 5, 10, 20, 25, 30, 38, 50
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Mycalex Corp. of America, 125 Clifton Blvd., Clifton, N.J., 35, ceramoplastics
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Owens-Corning Fiberglas Corp., N.Y., 25, 30, 35, 38, Fiberglas
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Pee-Wee Molding Corp., N.Y., 40
Penn Fibre & Specialty Co., Inc., Pa., 38, 40, Washers, Insulating
Pennsylvania Fluorocarbon Co., Inc., Pa., 40, 55
Perfection Mica Co., Magnetic Shield Div., 1322 N. Elston Ave., Chicago 22, Ill., 35, 36, 45, magnetic shielding
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Tel: EVerglade 4-2122
Permacel-Lepage's, N.J., 25, 40, 50, 55
Pfannkuch & Co., O. E., Conn., 15
Polymer Corp. of Pa., Pa., 40
Precision Metal Products Co., of Malden, Mass., 40
Precision Paper Tube Co., Resinite Corp., 35, 36, Phenolic
Pres Industrial Equipment, Ltd., N.Y., Plastic Zipper Tubing
Prince Rubber Co., Inc., N.Y., 40, 50, 55
Raybestos-Manhattan, Inc., Pa., 25, 40, 50, 55
Resin Industries, Inc., Calif., 40
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Rex Corp., 240 Hayward Rd., West Acton, Mass., 40, UHF
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Rubatex Div., Great American Industries, Va., 50
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St. Regis Paper Co., N.Y., 40
Saxonburg Ceramics, Pa., 15
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Seamless Rubber Co., The Conn., 25
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Steward Mfg Co., D. M., Tenn., 15
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Tel: CLinton 2180
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Technicraft Co., Mass., 40, 55
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Warren Wire Co., Vt., 25, 55, Teflon Coated Glass Fabric
Western Gold & Platinum Co., Calif., 15
Westinghouse Electric Corp., Pa., 25, 30, 38, 40
Westlake Plastics Co., Pa., 40
Wilmington Fibre Specialty Co., Del., 38, 40
York Co., Inc., Otto H., N.J., 45
Zippertubing Co., The, Calif., 30, 40, 45, Zipper Tubing

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Non-Shock Sensitive, Non-Retentive, No Periodic Annealing, Shaped to Your Application



Permanently unaffected by shock or vibration from usage, drilling, cutting, punching, bending, etc. For maximum effectiveness, all possible joints are heli-arc welded. Sheds magnetic forces like a duck's back sheds water. Will not become magnetized. Permanently non-retentive — negligible residual magnetism. No periodic annealing required.

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NOW! Wrappable Foil 15" wide (Co-Netic) and 19 3/8" wide (Netic) simply, quickly shaped to enclose any component, insuring immunity from any interfering magnetic fields. Also aids miniaturization, increases your market.

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1322 No. Elston Avenue • Chicago 22, Illinois

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Directory IV. Materials & Services

Labels, adhesive: See class 87

Laboratory equipment & supplies: See class 71

90. Laboratories & Custom Builders.

5. Individual item builders
10. Pilot run plants
15. Research & development labs
17. Subminiaturization service
20. Testing & certifying organizations

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A R F Products, Inc., Ill., 10, 15, 17
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American Machine & Foundry Co., N.C., 15
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90. Laboratories & Custom Builders.

Arrow Machinists & Fabricators, 154 E. 3rd St., Mount Vernon, N.Y., 5
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Tel: OWens 9-4000

Associated Missile Prods. Corp., Calif., Missile Engineering

Associated Testing Labs., Inc., 115 Clinton Rd., Caldwell, N.J., 5, 20
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Chicago Condenser Corp., Dept. A, 3255 W. Armitage Ave., Chicago 47, Ill., 5, 10, 15, 17
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Tel: CApitol 7-7070

Chicago Telephone Supply Corp., 1142 W. Beardsley Ave., Elkhart, Ind., 10, 15
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Tel: 3-0310

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DeMornay-Bonardi, 780 S. Arroyo Parkway, Pasadena, Calif., 20
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Tel: SYcamore 2-4142

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Dewey & Co., Inc. G. C., 202 E. 44th St., New York 17, N.Y., 15, operation research analysis
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Tel: MUrray Hill 2-7369

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Tel: WIndsor 4-2221
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Topping Electronics Ltd., F. V., Canada, 5, 15
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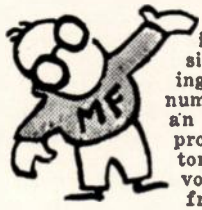
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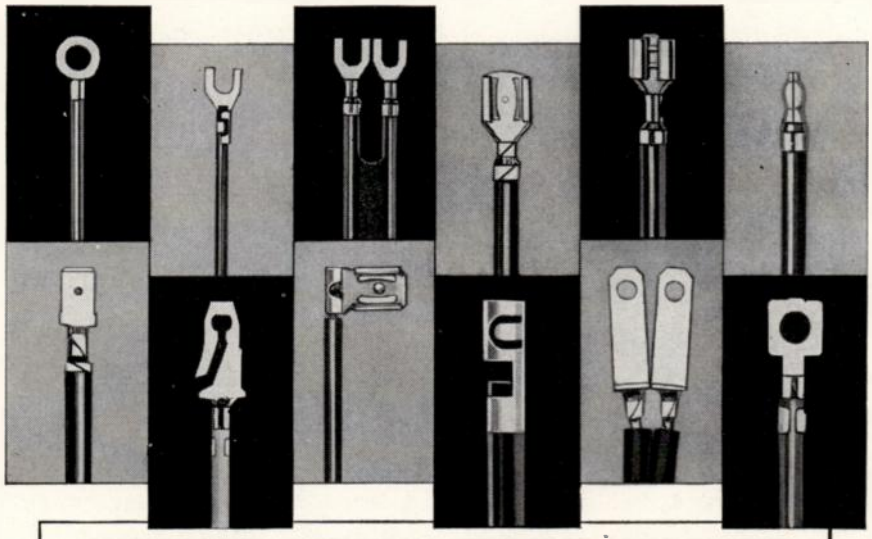
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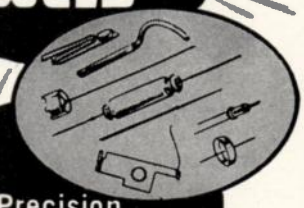
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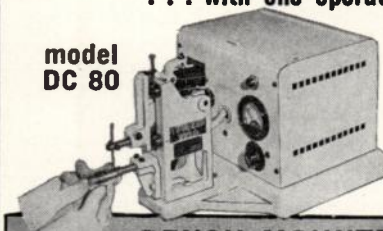
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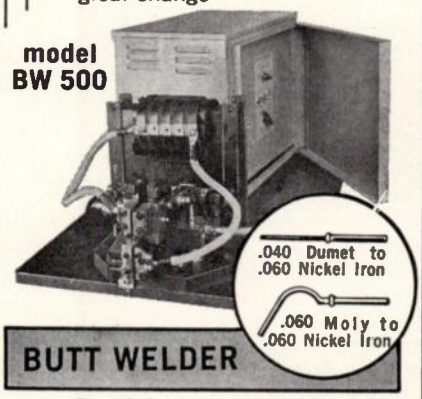
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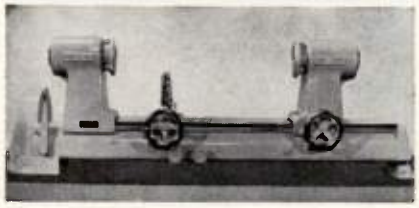
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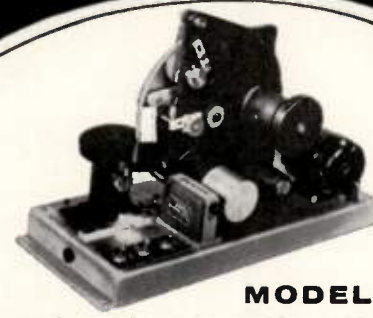
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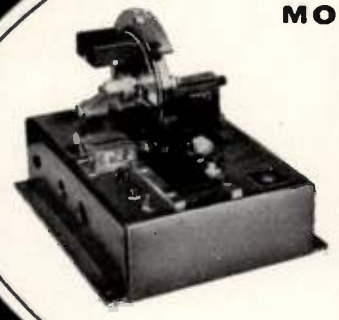
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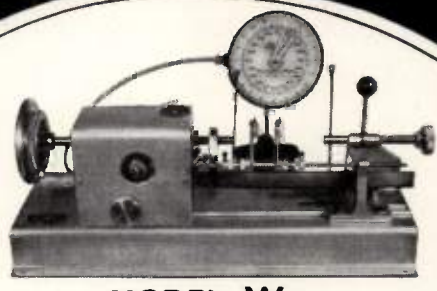
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Ellis & Watts Prods. Inc., Ohio, Air Conditioning for Elec. Systems, Klystron Coolers, Waveguide Dehumidifier
Emerson Apparatus Co., Mass., Rubber Buffing & Flexing Machines
Enthoven Solders, Ltd., England, 30
Eraser Co., Inc., N.Y., 55, Wire Twisters
Erikson Specialized Tool Co., Calif., 30
Eubanks Engineering Co., Calif., 55, Wire Cutter
Ewald Instrument, Conn., 50
Eyelet Tool Co., Inc., Mass., 20, 28
Fabra-Print, Inc., Minn., Silk Screen Printers
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Tel: Clifford 6-5300
Felker Mfg. Co., Calif., Cutting Machine Diamond Abrasives
Forney Industries Colo., 7, 30, 50
Gardner-Denver Co., Ill., 20, Solderless Connection Tool
Gee-Lar Mfg. Co., 418 S. Wyman St., Rockford, Ill., 55
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Tel: Rockford 5-9548
General American Transp., Parker-Kalon Div., N.J., Portable Screw Feeder
General Analine & Film Corp., Ozalid Div., N.Y., Diazo Type Repro. Equip.
General Cement Mfg. Co., 400 S. Wyman St., Rockford, Ill., 55
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General Research & Supply Co., Mich., 25, 28
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Gotham Audio Dev. Corp., N.Y., Disc Cutting Systems & Lathes
Graphic Systems, N.Y., Visual Control Boards
Green Instrument Co., Mass., 25
Gregg Electric Mfg. Co., Inc., Mass., 30
Griffin Co., John, Minn., Transparent Symbol Stamps

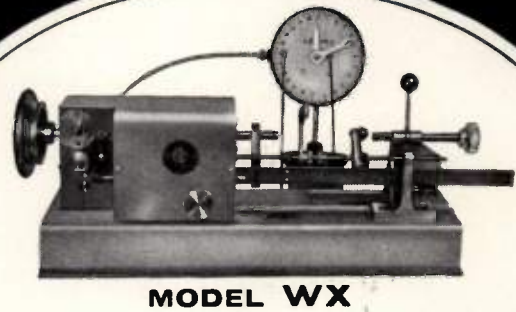
All-purpose, versatile... ideal for laboratory and experimental use

From a wide variety of fine coil winding equipment for every need: Model W, available with adjustable cam traverse, winds every coil pattern except toroids. WX has a continuously variable feed or gain control; allows rapid set-up without changing gears.



MODEL W

The Models W and WX are the only commercial machines capable of winding Lattice-Bobbin-Interleaved-Single Layer-Bank-Interwoven coils.



MODEL WX

The perfect machine to cut costs and still provide exact set-up gear ratios for standard production machines. The Model WX and W are equally suitable for high production.

We'll be pleased to send you complete information. Write or phone:

Coil Winding Equipment Co.

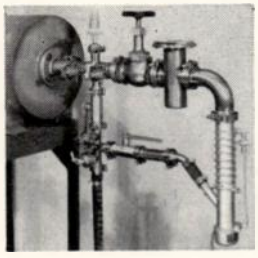
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ONE CONVENIENT SOURCE
for ALL Your High and Ultra-High Vacuum Needs

Now that you've decided that you can make a better product cheaper by using high or ultra-high vacuum processing, why not do it the easy way? Save time, money, and frustration by taking advantage of the "one stop" service offered by NRC. This is your one convenient source of a complete line of high and ultra-high vacuum components, equipment, and systems, PLUS a wealth of practical information on how to use them profitably.

VACUUM PUMPS, GAUGES, VALVES



VACUUM PUMPS

Typical arrangement of versatile two inch "building block" pump kit for laboratory or production. Pressures to 10^{-7} mm Hg.

MECHANICAL

Single and two-stage from 1.25 to 400 CFM. Gas Ballast keeps pump oil uncontaminated by condensables.

BOOSTER AND DIFFUSION

Oil and mercury. Capacities 10 to 40,000 CFM. Pressures below 10^{-7} mm Hg. Special low backstreaming models available.

MECHANICAL BOOSTER

Provides "clean" vacuum to below 10^{-3} mm Hg. Capacities 1000 to 12,000 CFM.

ULTRA-HIGH VACUUM PUMPS

Molecular drag, titanium adsorber, and ion pumps for very clean vacua to 10^{-12} mm Hg.

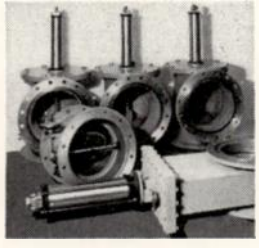
VACUUM GAUGES



Model 520 Alphatron® Ionization Gauge. Range 1000 — 0.0001 mm Hg.

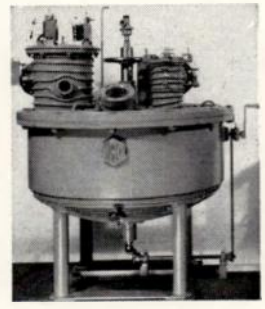
Wide line of direct reading, total pressure gauges for accurate measurement from atmosphere to less than 10^{-12} mm Hg. Thermocouple, Pirani, and ionization gauges, including Alphatron®, burn-out proof, ultra-high vacuum, and conventional types.

VACUUM VALVES AND HARDWARE



Air release, ball, throttling, high conductance, angle, wye, globe, and slide valves. Manual and air operation. Bronze, mild and stainless steel, aluminum. Bellows and O-ring sealed. Sizes from ⅛" to 36". ALSO seals, flexible connectors, cold traps, and accessories.

TANTALUM SINTERING AND OTHER VACUUM FURNACES



Three-zone indexing furnace Model 2915R for production tantalum sintering.

NRC has built and operated more high vacuum furnaces than any other organization in the world. Among these are batch and semi-continuous, resistance and induction, tantalum sintering furnaces. Other induction and resistance furnaces with capacities from 2 to 5000 lbs. Cold mold and skull arc furnaces with capacities from 2 to 10,000 lbs.

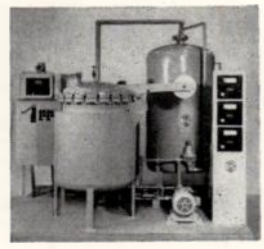
LEAK DETECTORS AND SYSTEMS



Inexpensive Model 4902 finds leaks as small as 10^{-6} cc/sec. Rugged, convenient, simple, fast recovering, it guarantees repetitive results.

Bench, rotary, in-line, etc., systems for production line quality control of relay cases, transistor housings, hermetic and glass to metal seals, wave guides, etc. Halogen and helium sensitive detectors for leak locating in manufactured products and in vacuum and other process equipment.

VACUUM IMPREGNATING AND DRYING



Pilot plant or production line drying, degassing, and impregnating systems for improving the dependability and electrical characteristics of capacitors, transformers, cables, and other components.

HIGH ALTITUDE TEST CHAMBERS

Standard chambers with diameters, 12" to 66" for simulating altitudes to 100 miles. Special chambers for altitudes to 400 miles.

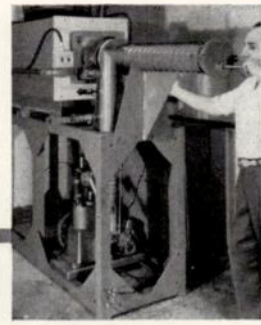
SEMI-CONDUCTOR PRODUCTION EQUIPMENT



Low-cost standard furnace for growing single crystals of silicon, germanium, and intermetallic compounds.



Belljar and tank vacuum metallizers, diameters 12" to 66", for depositing thin films to precisely controlled thicknesses of from one molecule to several mils.



Two-zone 5" diameter muffle vacuum heat treating furnace.

ULTRA-HIGH VACUUM SYSTEMS

Standard and special systems for pressures to 10^{-12} mm Hg. incorporating improved ultra-high vacuum components.

NRC
EQUIPMENT CORPORATION

DEPT. 129, CHARLEMONT ST., NEWTON 61, MASS.
A Subsidiary of National Research Corporation

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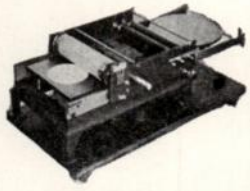
Directory IV. Materials & Services

92. Machinery & Tools.

Guaranteed Welding Eng. Co., N.J., 50
Gulton Industries, Inc., N.J., 30, 32, Ultra-Sonic
Gulton Industries, Inc., Vibro-Ceramics Div., N.J., 30, 32
H & H Machine Co., Inc., Pa., 20, Tubing Cut off Mach.
Halm Instrument Co., Inc., N.Y., 10, 20 Special Automatic Mach.
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High Vacuum Equip. Corp., Mass., 35, 40
Hillyer Instrument Co., Inc., N.J., 28
Hoffman Co., P. R., 321 Cherry St., Carlisle, Pa., 20
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Holub Indusries, Inc., Ill., 55
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Huck Mfg. Co., Mich., Driving Tools
Hull Corp., Pa., 5, 27, 40, Vacuum Impregnators
Hunter Tool Co., Calif., 55 & Hand Tools
Hydraulic Press Mfg. Co., Div. Koehring Co., Ohio, 27
Hyge Machines Div. Convair, Calif., Shock Exciters
Ideal Industries, Inc., Ill., 25, 30, 55
Imtra Corp., Mass., Tension Gauges
Illinois Tool Works, Shakeproof Div., Ill., Power Screwdrivers
Industrial Electrical Works, Neb., Extension Cord Reels
Industrial Systems Co., N.J., Metal & Plastic Parts Cleaning Equip.
Industrial Winding Machinery Corp., 120 Wall St., New York 5, N.Y., 10, armature & condenser winders
See ad on page 569
Tel: WHitehall 3-1754
International Eastern, 801 Sixth Ave., New York 1, N.Y., 25, 28, machinery for printing dials, scales, & sub-panels
See ad on this page
Tel: ALgonquin 5-3296
International Pump & Mach. Works, N.J., 35, 40
Jennings Machine Corp., Pa., Rod, Tubing Insulating Extruders-Teflon
Jones & Lamson Machine Co., Vt., 20
Joy Mfg. Co., Pa., Cable Vulcanizing presses
Joyro Associates, N.Y., Special Slide Rules
Kahle Engineering Co., 1358 Seventh St., North Bergen, N.J., 10, 35, crystal furnace
See ad on pages 46-47
Tel: UNion 7-6500
Kemode Mfg. Co., Inc., N.Y., 30, Non-Electric, Cartridge-Heated
Kingsley Stamping Machine Co., Calif., 25, Wire Working Machines
Kinney Mfg. Div., New York Air Brake Co., 3650 Washington St., Boston 30, Mass., 40, vacuum valves
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Tel: JAmaica 4-3220
Klein Electronics, Calif., Magnetizers & Demagnetizers
Koh-I-Noor Pencil Co., Inc., N.J., Drafting Pencils & Pens
Kuss Industries, Inc., Pa., 20
Kwikheat Mfg. Co., Calif., 30, Thermostatic
L A B Corp., N.Y., 45, Drafting Boards
L & R Mfg. Co., N.J., 31
Lear, Inc., Calif., 40
Lear Inc., Lear-Romec Div., Ohio, 40, Cooling Equipment

Print on plastics metals, glass, etc.

MODEL R 1



FOR PRINTING DIALS, CIRCUITS, SUB-PANELS, ETC.

Print on round, flat, irregular surfaces

LET US SHOW YOU HOW TO DO IT BETTER AT A LOWER COST

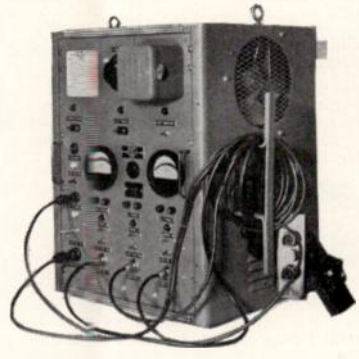
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EASTERN
Special Printing Equipment

801 SIXTH AVENUE
NEW YORK 1, N Y

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MACARR Inc.

MODEL 999 BATTERY CHARGER



Model 999 Charger is a fully automatic, constant current type unit, capable of charging three batteries independently and simultaneously. Includes a discharge circuit designed specifically for the maintenance of silver-zinc batteries.

Constant current is maintained throughout the entire charging cycle except at the initial start when battery is practically a short circuit. At this point the charger surge is limited to less than ten amperes for the short duration required to bring battery terminal voltage up.

Charger terminal voltage automatically regulates to maintain current constant from a theoretical starting voltage of zero to a critical range of 28-28.5V.

At this level the battery is considered charged and charger automatically shuts off.

Charger is equipped with input line cord, three sets of charging leads with Cannon 11751 plug and one set of discharge leads.

Input: 115 volts, 1 phase, 50/60 cycles
Output: 3- independent outputs, each 5-6 A @28.5 Volts
Discharge Circuits: 1-75 Amps, 1-20 Amps

MAGNETIC AMPLIFIER REGULATED RECTIFIER—MODEL MAR 120-10

Input:	115 volts, 1 phase, 60 cycles
Output:	10 A @ 120 volts nominal ± 10%
Regulation:	Less than 1% from zero to full load with ± 10% line change
Ripple:	1% RMS
Response:	.2 seconds
Cooling:	Convection
Meters:	3½" Voltmeter and Ammeter
Cabinet Size:	28" H x 22" W x 15" D Wall or bench mounted



Model MAR 120-10 is a ruggedly constructed magnetic amplifier regulated power supply using high efficiency silicon diodes for reference circuits and germanium or silicon for the power rectifiers.

SEND TO DEPT. R FOR COMPLETE INFORMATION

MACARR, Inc.

2843 BOSTON ROAD • BRONX 67, NEW YORK
Telephone: OLinville 8-3306—7

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Narda SonBlasters offer the most complete line of lowest-cost mass-produced ultrasonic cleaners!

Narda's mass-production techniques assure you the most complete line of ultrasonic cleaners at the lowest prices in the industry! From the smallest 35-watt to the amazing 2500-watt unit with a tank capacity of 75 gallons, Narda's SonBlasters are available **now**—off-the-shelf—for immediate delivery. And with a full 2-year warranty besides!

What do **you** want to clean? Transistors, semi-conductors, other electronic, automotive, missile and avionic components, instruments, timing mechanisms—Narda's SonBlasters clean most any mechanical, electrical or horological part or assembly you can think of—and clean faster, better and cheaper.

No matter what you need in ultrasonic cleaning equipment, you'll find Narda's complete line of production-size units have the quality, power, performance, capacity and appearance of cleaners selling up to three times their price! Write for more details **now** and we'll include a free questionnaire to help determine the precise model you need. Address: Dept. IRED-19.



Generator G-202 **Transducerized Tank NT-202**
35 watts **Capacity: ⅜ gallon**

An amazingly efficient, yet inexpensive, ultrasonic cleaner. Duty cycle timer permits operator to turn the unit on, set it, and leave; the SonBlaster will turn off automatically at the end of the cycle. Four choices of timers—from 0-15 min. to 0-120 min. Also available without timer at slightly lower cost (G-201).

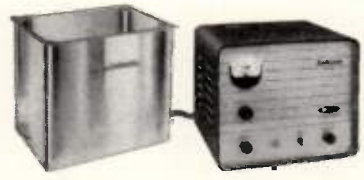
$220



Generator G-601 **Transducerized Tank NT-602**
60 watts **Capacity: 1 gallon**

A more powerful production-type unit, with a special circuit and selector switch permitting operator to alternate between two tanks, when items being cleaned require different solutions or a two-step process.

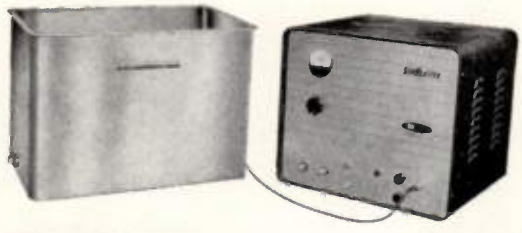
$350



Transducerized Tank NT-1505 **Generator G-1501**
Capacity: 5 gallons **200 watts**

The lowest price in the industry for a tank of this capacity and activity. Generator also will operate 2, 3 or 4 submersible transducers at one time, with just a turn of the load selector switch on the front panel.

$695



Transducerized Tank NT-5001 **Generator G-5001**
Capacity: 10 gallons **500 watts**

Generator features standby switch for longer life and load selector switch on the front panel to operate up to 8 submersible transducers or 8 NT-602 or 2 NT-1505 transducerized tanks at one time. Larger tanks available on special order.

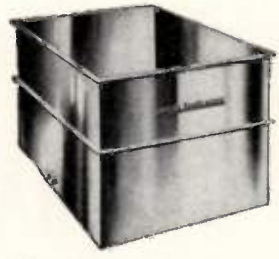
$1325



Submersible Transducer NT-605

Heli arc welded stainless case, hermetically sealed for safe, leak-proof immersion. Radiating face: 27 sq. in. Effective plane of radiation: 40-50 sq. in. (approximately 10" x 5"). Effective cavitation of volumes up to 1200 cu. in. at 24 in. tank height (5 gal.) and 2400 cu. in. at 48 in. tank height (10 gal.). Bulkhead electrical fitting on back allows all wiring connections to be made on outside of tank. For use in any arrangement or location in any shape tank you desire to use. Also available—model NT-604, identical with NT-605, except for pipe thread instead of bulkhead fitting, permitting electrical connections inside of tank.

$130



Transducerized Tank
NT-25001
Capacity: 75 gallons

Powerful unit drives the largest mass-produced industrial-size transducerized ultrasonic cleaning tank made! Also energizes up to 40 Narda 60-watt submersible transducers (NT-604 or -605). Capable of energizing tanks measuring up to 150 square feet of area by 2' or 3' high.

$4360

Generator G-25001
2500 watts



Consult with Narda for all your ultrasonic requirements. The SonBlaster catalog line of ultrasonic cleaning equipment ranges from 35 watts to 2.5 KW, and includes transducerized tanks as well as immersible transducers which can be adapted to any size or shape tank you may now be using. If ultrasonics can be applied to help improve your process, Narda will recommend the finest, most dependable equipment available—and at the lowest price in the industry!

For custom-designed installation and unique electro-acoustic applications, including cleaning, soldering, welding, drilling and non-destructive testing, consult our subsidiary, Alcar Instruments Inc., at the address below.

the narda ultrasonics corporation

625 MAIN STREET, WESTBURY, L. I., N. Y.

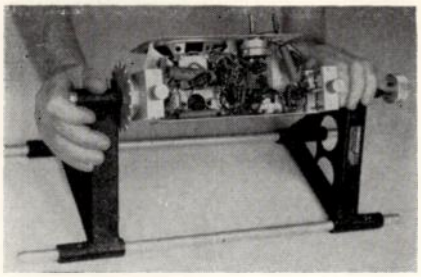
Subsidiary of The Narda Microwave Corporation

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Directory IV. Materials & Services

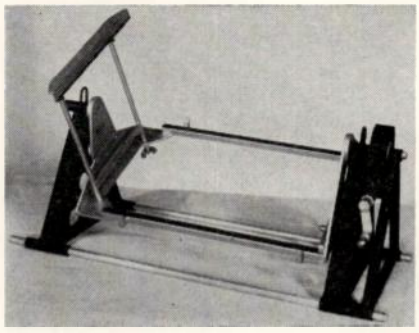
92. Machinery & Tools.

PRODUCTION FIXTURES

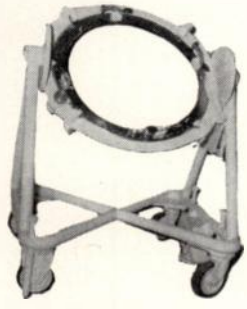


Attention Methods Engineers

Production Tool and Fixture assemblies save you time and money in your wiring and assembly departments. "Tiny-Fix," your third hand, positions miniature chassis, terminal boards and connectors in proper alignment which results in quicker and more efficient work.



The S-12-W above differs from our standard friction and index models in that it offers worm drive that gives positive positioning even under heavy stress. The PF-20-C floor model precision fixture is designed to level and rigidly support the bulky but delicate chassis assemblies required by recent developments in the missile and related industries. 36 inch height at pivotal centers permits the rotation of assemblies as wide as 50 inches through 360 degrees in two planes.



Adapters similar to those shown in the assembly fixtures above are designed by our engineering staff to meet your specific requirements.

Write us for our catalog and current list of firms now using our equipment in the electronic industry.

PRODUCTION TOOL AND FIXTURE CO.

37 WEST MAIN STREET
OYSTER BAY, N.Y.
Telephone: OYster Bay 6-0009
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Lemert Engrg. Co., Inc., Ind., Piercing-Dimpling & Riveting Machines
Levin & Son, Inc., L., Calif, Microdrilling Equip. Lathes
Linde Co., Div. of U.C.C., N.Y., 30, 50
Litton Engineering Labs., Shaws Hill, P.O. Box 949, Grass Valley, Calif., 20, 35, 40
See ad on page 570
Tel: GRass Valley 1730
London Chemical Co., Inc., Ill., 31, 55, Chemical
Luxo Lamp Corp., N.Y., Worklamps
MB Mfg. Co., Inc., Conn., 45
Macarr, Inc., Dept. R, 2543 Boston Rd., New York 67, N.Y., 7
See ad on page 573
Tel: OLinville 3-3306
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Maico Electronics, Inc., Minn., Speed & Feedrate Meter for Machine Tools
Markem Machine Co., N.H., 25
Markwik Mfg. Co., Inc., N.Y., 25
Martindale Electronic Co., Ohio, 25
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Metal & Thermit Corp., N.J., 50
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Meter-Mix Corp., Mass., 20
Mico Instrument Co., Mass., 10, 25, Toroid
Micro Balancing, Inc., N.Y., Balancing Mach.
Micromech Mfg. Corp., N.J., 20, Micromatic Wafering Machines
Miller Co., Sanford, N.Y., 7
Miller Electric Mfg., Co., Inc., Wis., 50
Mitchell Industries, Inc., Tex., 30
Moody Machine Products Co., Inc., R.I., 20
Morris Co., J. I., 394 Elm St., Southbridge, Mass., Miniature taps and dies
See ad on page 552
Tel: POrter 4-4394
Multi-Tron Lab, Inc., Ill., 5, 20, 35
NRC Equipment Corp., Dept. 129, 160 Charlemont St., Newton 61, Mass., 5, 15, 35, 40
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Tel: DEcatur 2-5800
Namco Machinery, Inc., N.Y., 20
Narda Ultrasonics Corp., Dept. IRED-19, 625 Main St., Westbury, L.I., N.Y., 31
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Tel: PIoneer 6-4650
Naz-Dar Co., Ill., 28
Nelson Vacuum Pump Co., Calif., 40
New Hermes Engraving Machine Corp., N.Y., 25, 28
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Tel: JAmaica 4-3220
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Numberall Stamp & Tool Co., N.Y., 25
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Opad Electric Co., 69-8 Murray St., New York 7, N.Y., 7
See ad on page 383
Tel: BEekman 3-7548
Oryx Co., Calif., 30, Solder Pencils
Paragon-Revolute Corp., N.Y., 20, Automatic White & Blue Printing Mach.
Peer, Inc., Mich, 7, 50
Perkins Machine & Gear Co., Mass., Precision Spring Coilers
Philips Electronics, Inc., N.Y., Gas Liquefiers
Pioneer Machine Works, Inc., N.J., CR Tube Sealers
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Podgor Co., Inc., Joseph E., Pa., Small Screen Material
Pomona Electronics Co., Inc., Calif., Tube Socket Adapters
Popper & Sons, Inc., N.Y., 25
Precise Measurements Co., Millbrook Lane, R.D. #1, Flemington, N.J., 10, meter scale printing machine
See ad on page 382
Tel: FLemington 900
Preis Engraving Machine Co., H.P., 25
Pres Industrial Equipment, Ltd., N.Y., Component Taping Mach., Lead Straightener
Production Tool & Fixture Co., 37 W. Main St., Oyster Bay, L.I., N.Y., 20
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Tel: OYster Bay 6-0009
Progressive Tool & Die Co., Mass., 20, 27, 55
Radial Cutter Mfg. Corp., N.J., Carbide Tipper Saws
Radio Frequency Labs., Inc., Powerville Road, Boonton, N.J., magnetizers & demagnetizers
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Tel: DEerfield 4-3100
Rapid Electroplating Process, Inc., Ill., Portable Electro-Platers
Red Point Corp., Calif., 20, 27, 40, Impregnating & Encapsulating Mach.
Rex Rheostat Co., N.Y., 10
Richmont, Inc., Calif., Torque Tools
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PERFECT ALIGNMENT

of Electronic Tubes and Sockets—
in Seconds!
...Speeds Production and Servicing.

★Star Tube Pin Straighteners
featuring inserts of #303 stainless steel. Precision drilled and counterbored to exacting specifications.



MINIATURE TYPES



JE-13 with 8 holes for 7-pin tubes, and JE-15 with 10 holes for 9-pin tubes.

JE-13B with 8 holes for 7-pin tubes, and JE-15B with 10 holes for 9-pin tubes.



SUB-MINIATURE TYPES



JE-5 with 9 holes for 8-pin tubes.

JE Mark IV with 7 inline holes for pinch-base tubes.



Miniature Dual Type

JE-22A1

2 inserts mounted in black anodized aluminum base. Smaller insert has 8 holes for 7-pin tubes. Larger insert, 10 holes for 9-pin tubes.

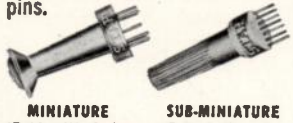
Sub-Miniature Dual Type



JE-20

Combination pin straightener and cut-off tool. Speeds up alignment and trimming of leads on flat press and round base tubes, also transistors.

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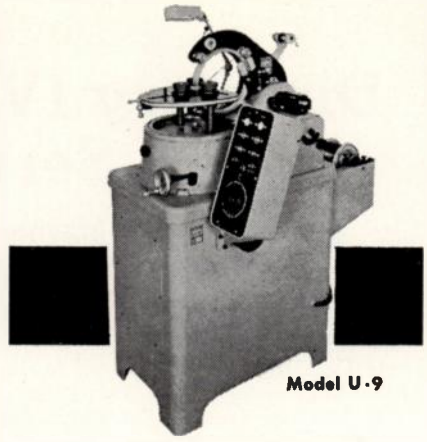


MINIATURE
JE-10 with 7 pins and JE-9 with 9 pins.

SUB-MINIATURE
JE-7 inline for pinch-base tube sockets.

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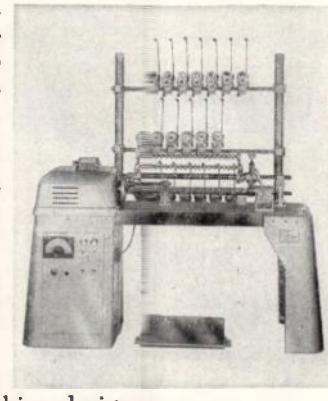
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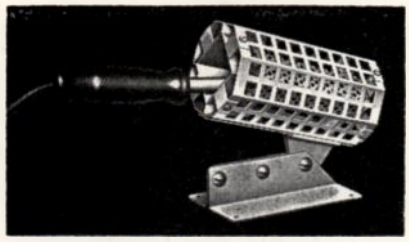
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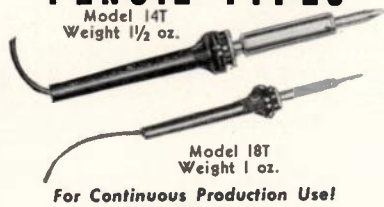
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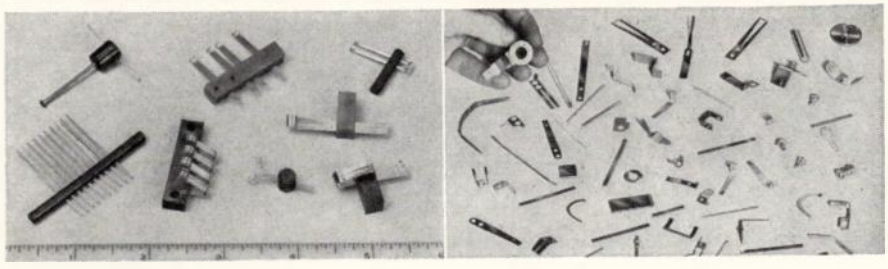
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Titan Metal Mfg. Co., Pa., 20, Bronze Welding Alloys
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See ad on page 166
Tel: MUrdock 6-6600

Moisture-proofing: See class 86

Motors: See class 44

94. Moulded Products.

5. Insulators
10. Knobs & parts
15. Proprietary mouldings

Accurate Electronics Corp., Ohio, 5, 10
Acton Labs., Inc., Mass., 10
Airflyte Electronics Co., 535 Ave. A, Bayonne, N.J., 15
See ad on page 318
Tel: HEmlock 6-2230
Alden Products Co., 9140 N. Main St., Brockton 64, Mass., 5, 10, 15
See ad on page 319
Tel: BRockton 160
Amatom Elec. Hardware Co., Inc., N.Y., 10
American Insulator Corp., Pa., 10, 15
American Lava Corp., Subs. of Minnesota Mining & Mfg. Co., Cherokee & Mfrs. Rd., Chattanooga 5, Tenn., 5
See ad on page 2
Tel: AM 5-3411
Anti-Corrosive Metal Prod. Co., N.Y., 5, 15
A-One Precision Products, Calif., 10, 15
Armel Electronics, Inc., N.Y., 15
Armstrong Whitworth Aircraft, England, 10
Associated Engrg. Corp., Mass., 15
Birnbach Radio Co., Inc., 145 Hudson St., New York 13, N.Y., 5
See ad on page 520
Tel: WAlker 5-6980
Biwax Corp., 3441 Howard St., Skokie, Ill., 5, 15
See ad on page 566
Tel: ORchard 3-1050
Boonton Molding Co., N.J., 15
Brilhart Plastics Corp., N.Y., 5, 10
Cambridge Thermionic Corp., 440 Concord Ave., Cambridge 38, Mass., 10
See ad on page 545
Tel: TRowbridge 6-2800

94. Moulded Products.

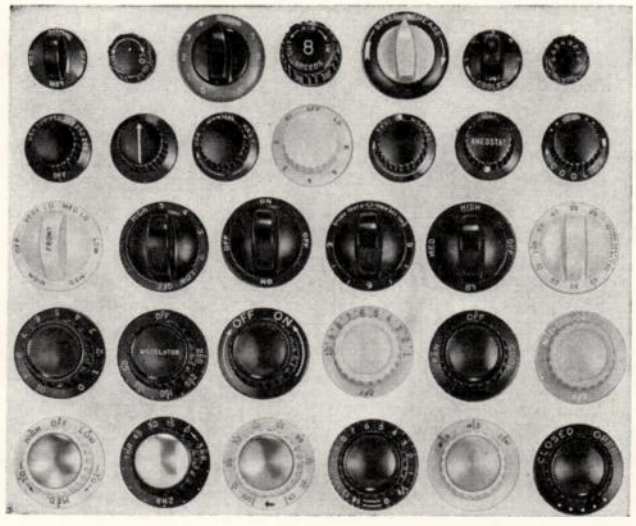
Canadian CE Co., Ltd., Canada, 5, 10, 15
Colman Tool & Mach. Co., Tex., 10
Collectron Corp., N.Y., 15
Component Mfg. Serv. Inc., Mass., 10
Continental Diamond Fibre Corp., Del., 5, 10
Co-operative Industries, Inc., N.J., 15
Crane Packing Co., Ill., 5
Crystal-X Corp., Pa., 5, 10, 15
Dale Products, Inc., 1318 28th Ave., Columbus Neb., 10
See ad on pages 136-137
Tel: LOcust 4-3131
Davies Molding Co., H., Ill., 10, 15
Davis Plastics Co., J., N.J., 15
Decatur Electronic Industries Corp., N.Y., 15
Diamonite Products Mfg. Co., Ohio, 5
Dimco-Gray Co., Ohio, 10, 15
Dixon Corp., R.I., 5
Eby, Inc., H. H., Pa., 5, 10
Elco Corp., Pa., 15
Eldema Corp., 1805 Belcroft Ave., El Monte, Calif., 5, 10
See ad on page 372
Tels: GIlbert 4-7077 & CUmberland 3-3498
Electrical Mfrs. Service, Conn., 10, 15
Electro Miniatures Corp., N.J., 15
Electronic Mechanics, Inc., N.J., 5, 15
Electronic Plastic Corp., N.Y., 10
Electronic Techniques, Inc., Calif., 15
Emeloid Co., Inc., N.J., 10
Emerson & Cuming, Inc., Mass., 5
Enflo Corp., N.J., 5, 15
Erie Coil Co., Pa., Coils
Erie Resistor Corp., 644 W. 12th St., Erie 6, Pa., 5, 10, 15
See ad on pages 62-63
Tel: ERie 2-1481
Erwood, Inc., Ill., 10
Excellex Electronics, Inc., N.Y., 5, Barrier Type Terminal Boards
Fawn Plastics Co., Inc., Md., 5, 10, 15
First Electronics Corp., Mass., 15
Fluorocarbon Products, Inc., Div. U.S. Gasket Co., N.J., 5, 10, 15
Fluorulon Labs., Inc., N.J., 5, 15
Formica Corp., 4532 Spring Grove Ave., Cincinnati 32, Ohio, 5, 10
See ad on page 176
Tel: KIrby 1-3670
Garde Mfg. Co., R.I., 5, 15
Gee-Lar Mfg. Co., 418 S. Wyman St., Rockford, Ill., 5, 10
See ad on page 252
Tel: ROckford 5-9548
General Components, Inc., 225 E. 144th St., New York 51, N.Y., 5, 10
See ad on page 547
Tel: MOtthaven 5-0740
General Electric Co. Insulator Dept., Md., 5
General Radio Co., 275 Massachusetts Ave., Cambridge 39, Mass., 5, 10
See ad on Cover 4
Tel: TRowbridge 6-4400
Glastic Corp., Ohio, 5

Code numbers shown after each firm refer to product or service sub-classes listed at the beginning of each major classification. Complete addresses will be found in the Alphabetical Directory.

Grayhill, Inc., 505 Hillgrove Ave., La Grange, Ill., 10
See ad on page 426
Tel: FLeetwood 4-1040
Gries Reproducer Corp., 168 Beechwood Ave., New Rochelle, N.Y., 5, 15
See ad on page 547
Tel: NEw Rochelle 3-8600
Harman Assoc., F. Ward, N.Y., 10
Haveg Industries, Inc., 900 Greenbank Rd., Wilmington 8, Del., 5, 15
See ad on page 525
Tel: WYman 8-2274
Hays Mfg. Co., Pa., 5, 15
Hydro Molding Co., Inc., 100 Sharron Ave., Plattsburgh, N.Y., 5, 10
See ad on page 548
Tel: PLattsburgh 2598
Illinois Tool Works, Fastex Div., Ill., 15
Industrial Accessories, Inc., N.J., 15, Silicon Rubber
Industrial Development Labs., Inc., N.J., 15
Insulation Mfg. Corp., Ill., 5
Insulation Prods. Co., Pa., 5, 10
Isolantite Mfg. Corp., N.J., 5
Jamison Plastics Corp., N.Y., 5, 10
Jan Hardware Mfg. Co., Inc., N.Y., 5, 10
Javex, Calif., 15
Johnson Co., E. F., Minn., 5, 10
Kerrco Products, Neb., 10
Kurz-Kasch, Inc., Ohio, 10
Lamtex Industries, Inc., N.Y., 5
Lerco Electronics, Inc., Calif., 5, 10, 15
Litton Industries, Components Div., Calif., 5, 10
Mandex Mfg. Co., Ill., 15
Mansol Ceramics Co., N.J., 5
McMillan Industrial Corp., Mass., 15
Mesa Plastics Co., Calif., 15
Metaplast Corp., Pa., 15
Methode Mfg. Corp., 7447 W. Wilson Ave., Chicago 31, Ill., 15
See ad on page 388
Tel: UNderhill 7-9600
Metz Refining Co., N.J., 10
Mica Fabricating Co., N.J., 5
Millen Mfg. Co., Inc., James, 150 Exchange St., Malden 48, Mass., 5, 10, 15
See ad on page 314
Tel: DA 4-4108
Minnesota Rubber Co., Minn., 15
Molded Insulation Co., Pa., 10, 15
Molding Corp. of America, R.I., 5, 10, 15, Custom
Molex Products Co., Ill., 5, 15
Montek Associates, Inc., Utah, 15
Morton Electronics Corp., Chester, Pa., 15
Moxness Products, Inc., Wis., 15
Mutual Electronic Industries Corp., N.Y., 10
Mycalex Corp. of America, 125 Clifton Blvd., Clifton, N.J., 5, 15
See ad on page 190
Tel: PRescott 9-8866
National Co., Inc., Mass., 5, 10
Ney Co., J. M., Dept. N, P.O. Box 990, Hartford 1, Conn., 15
See ad on page 580
Tel: CHapel 2-2281
Northwest Plastics, Inc., Minn., 15
Norton Laboratories, Inc., N.Y., 5, 10, 15
Ny-Glass, Inc., Calif., 15
Painton & Co., Ltd., England, 10
Pfannkuch & Co., O. E., Conn., 10
Pickett & Eckel, Inc., Calif., 15
Pioneer Electroponents Corp., N.Y., 5, 10
Plasteck, Inc., Okla., 10
Plastic Mold & Engineering Co., R.I., 10, 15
Plisco, William B., N.Y., 10, 15
Pomona Electronics Co., Inc., Calif., 15
Porcelain Products, Inc., Ohio, 5
Radar Design Corp., N.Y., 15
Remler Co., Calif., 10, 15
Richardson Co., The, 2749 Lake St., Melrose Park, Ill., 15
See ad on page 390
Tel: (Chicago) MAnsfield 6-8900
Rogan Brothers, 8009 N. Monticello Ave., Skokie, Ill., 5, 10, 15
See ad on this page
Tel: ORchard 5-1233
Rosan, Inc., Calif., 5
Saxton Products, Inc., Wire & Cable Div., 1661 Boone Ave., New York 60, N.Y., 15
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Tel: WYandotte 1-0120
Seamless Rubber Co., The, Conn., 10, 15
Sillcocks-Miller Co., The, N.J., 5, 10, 15
Slater Electric & Mfg. Co., N.Y., 15
Slip Ring Co. of America, Calif., 5, 10, 15
Smith, Inc., Herman H., N.Y., 5, 10
Sparta Mfg. Co., Ohio, 15
Stevens Products, Inc., N.J., 5
Sylvania Electric Products Inc., 1740 Broadway, New York 19, N.Y., 10, 15
See ad on pages 25-30
Tel: JUdson 6-2424
Sylvania Electric Products Inc., Parts Div., 12 2nd Ave., Warren, Pa., 10, 15
See ad on page 29
Tel: WArren 3220
Thal, Bernard, Mass., 5, 10
Titan Metal Mfg. Co., Pa., Pressure Die Castings, Forgings, Brass Rods, Special Shapes
Tri-State Plastic Molding Co., Ky., 15
United Insulator Div., Telegraph Condenser Co., Ltd., Eng., 5
United States Electronics Corp., N.J., 15
United States Gasket Co., N.J., 5, 10
Vemaline Products Co., N.J., 10
Viking Industries, Inc., Calif., 5, 10
Waldom Electronics Inc., Ill., 10
Waterbury Companies, Inc., Conn., 5, 10, 15
Weightman & Associates, Calif., 15
Westlake Plastics Co., Pa., 5, 10, 15
White Industrial Div., S. S., N.Y., 15, Protective Caps & Plugs
Whitso, Inc., Ill., 5, 10, 15

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ROGAN BROTHERS **8009 N. Monticello Ave., Skokie, Illinois**

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Nameplates: See class 87

Neon lights: See class 46

Nuts: See class 87

Directory IV. Materials & Services

Packaging: See class 86

Packaging materials: See class 87

Paints: See class 91

Permanent magnets: See class 41

Phosphors: See class 97

Pins & prongs: See class 97

Plastic fabrication & molding: See class 86

95. Plastics.

5. Extrusions
7. Laminations
10. Raw powders
15. Rods
20. Sheets
25. Tubes

Ace Fabricators, Ill., 20
Ace Plastic Co., N.Y., 5, 15, 25
Allied Chemical Corp., N.Y., 10
American Insulator Corp., Pa., 20
American Printed Circuits Co., N.J., 7, 20
American Prods. Mfg. Co., La., Adhesive, Rubber Base, Resin Base, Cellulosic Base, Impregnating Compounds
Anchor Plastics Co., Inc., N.Y., 5, 15, 25
Angus-Campbell Inc., Calif., 15, 20, 25
Arlin Mfg. Co., Mass., 20
Auburn Mfg. Co., The, Conn., 5, 7, 10, 15, 20, 25
Baer Co., N. S., N.J., 7, 15, 20, 25
Beck Mfg. Co., D., N.J., 5, Moldings
Birnbach Radio Co., Inc., 145 Hudson St., New York 13, N.Y., 5
See ad on page 520
Tel: WAlker 5-6980
Borden Chemical Co., Resinite Dept., Calif., 5, 15, 20, 25
Brand & Co., Inc., W., Conn., 25
Brilhart Plastics Corp., N.Y., 15, 20
Celanese Corp., N.J., 20
Chart-Pak, Inc., Mass., 20, Sheets-Layout
Chemfab Corp., N.Y., 7, 15, 25
Cleveland Container Co., 6201 Barberton Ave., Cleveland 2, Ohio, 25
See ad on page 152
Tel: OL 1-4500
Comco Plastics, Inc., N.Y., 7, 15, 20, 25
Commercial Plastics Co., 933 George St., Chicago 14, Ill., 5, 15, 20, 25
See ad on page 544
Tel: GRaceland 7-8200
Commercial Plastics & Supply Corp., N.Y., 5, 7, 15, 20, 25

95. Plastics.

Components for Research, Inc., Calif., 7, 15, 20, 25
Continental-Diamond Fibre Corp., Del., 5, 7, 15, 20, 25
Cortland Industries Inc., Ill., 15, 20, 25
Crane Packing Co., 5, 15, 20, 25
Crystal-X Corp., Pa., 5, 15, 20, 25
Dale Products, Inc., 1318 28th Ave., Columbus, Neb., 7
See ad on pages 136-137
Tel: LOcust 4-3131
Davis Plastics Co., J., N.J., 5, 7, 15, 20, 25
Dielectric Materials Co., Ill., 5, 15, 25
Dilectrix Corp., N.Y., 20
Dixon Corp., R.I., 5, 15, 20, 25
Dow Chemical Co., Mich., 5, 7, 10, 15, 20, 25
Dow Corning Corp., Mich., 10
Dupont de Nemours & Co., Inc., E. I., Polychemical Dept., Del., 10
Dura Plastics of N.Y., Inc., N.Y., 15, 20, 25
Duralith Corp., Pa., 7
Durez Plastics Div., Hooker Elec. Co., N.Y., 10 Resins
Electric Auto-Lite Co., Ohio, 5, 7
Electric Insulation Co., Inc., N.Y., 7, 15, 20, 25
Electronic Plastic Corp., N.Y., 15
Electronic Plastics Corp., Mass., 20
Emerson & Cuming, Inc., Mass., 7, 15
Emerson Plastics Corp., N.Y., 5, 15, 20, 25
Enflo Corp., N.J., 5, 7, 15, 20, 25
Engelhard, Inc., C., N.J., 7
Executone, Inc., N.Y., 5, 10
Farley & Loetscher Mfg. Co., Iowa, 7, 20
Fawn Plastics Co., Inc., Md., 15, 20, 25
Fiber Glas Industries, Inc., N.Y., 5, 7, 15, 20, 25
Fibre Fabricators Co., Inc., Ill., 15, 20, 25
Flexrock Co., Pa., 5, 15, 20, 25
Fluorocarbon Products, Inc., Div. U.S. Gasket Co., N.J., 5, 15, 20, 25
Fluorulon Labs., Inc., N.J., 5, 15, 20, 25
Formica Corp., 4532 Spring Grove Ave., Cincinnati 32, Ohio, 15, 20, 25
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Tel: KIrby 1-3670
Furane Plastics, Inc., Calif., 10, 20
General Electric Co., Laminated Prods. Dept., Ohio, 7, 15, 20, 25
Gering Products, Inc., N.J., 5, 10, 15, 20, 25
Glasply Corp., N.Y., 20, 25
Glastic Corp., Ohio, 5, 15, 25



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Code numbers shown after each firm refer to product or service sub-classes listed at the beginning of each major classification. Complete addresses will be found in the Alphabetical Directory.

95. Plastics.

Great American Industries, Rubatex Div., Va., 20
Hampden Mfg. Co., Inc., Mass., 7, 15, 20, 25
Haveg Industries, Inc., 900 Greenbank Rd., Wilmington 8, Del., 5, 7, 15, 20, 25
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Tel: WYman 8-2274
Hays Mfg. Co., Pa., 7, 20
Hermes Plastics, Inc., N.Y., 20
Hitemp Wires, Inc., N.Y., Teflon Tubing
Houghton Labs., Inc., N.Y., 15, 20, 25
Illumitronic Eng. Co., Calif., 5, 15, 20, 25
Insulating Fabricators of N.E., Inc., Mass., 15, 20, 25
Insulation Mfg. Corp., Ill., 7, 15, 20, 25
Jablo Plastics Industries, Ltd., England, 20
Jodee Plastics Co., N.Y., 5, 15, 20, 25
Keller Products, Inc., N.H., 7
Kennedy & Co., D. S., Route 3A, Cohasset, Mass., 7
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Tel: EVergreen 3-1200
Koppers Co., Inc., Pa., 10, 15, 20, 25
Laminated Sheet Products Corp., Mass., 5, 7, 15, 20, 25
Lamtex Industries, Inc., N.Y., 7, 15, 25
Lee Chemical Corp., W., N.Y., 5, 15, 20, 25
Long, Inc., T. J., N.Y., 15, 20, 25
Mansfield Fabricators, Inc., Ohio, 7, 15, 20, 25
Marblette Corp., N.Y., 7, 15, 20, 25
Markel & Sons, L. Frank, School Lane, Norristown, Pa., 25
See ad on page 583
Tel: BRoadway 2-8960
Mesa Plastics Co., Calif., 10, 15, 20
Metox, France, 15, 20, 25
Meter-Mix Corp., Mass., 5
Mica Fabricating Co., N.J., 7, 15, 20, 25
Mica Insulator Co., N.Y., 7, 15, 20, 25
Micarta Fabricators, Inc., Ill., 7
Midwest Plastic Products Co., Ill., 20
Minnesota Mining & Mfg. Co., Irvington Div., N.J., 5, 15, 25
Mona Industries, Inc., N.J., Epoxy & Polyester Stripping, Silicone Rubber Stripper
Murray Plastics Co., N.Y., 25
National Moldite Co., N.J., 25
National Vulcanized Fibre Co., P.O. Box 311, Wilmington 99, Del., 5, 7, 15, 20, 25
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Tel: OLympia 5-6371
Natvar Corp., N.J., 5, 25
New England Laminates Co., Inc., Conn., 7, 20
Northern Plastics Corp., Wis., 7, 20
Ny-Glass, Inc., Calif., 7, 25
Owens-Corning Fiberglas Corp., N.Y., Reinforcements
Penn Fibre & Specialty Co., Inc., Pa., 7, 15, 20, 25
Pennsylvania Fluorocarbon Co., Inc., Pa., 5, 15, 25
Permacel-LePage's, Inc., N.J., 20, 25
Pickett & Eckel, Inc., Calif., 10
Plasteck, Inc., Okla., 7
Polymer Corp. of Pa., Pa., 5, 10, 15, 20, 25
Precision Metal Products Co. of Malden, Mass., 15, 20, 25
Precision Paper Tube Co., 2062 W. Charleston St., Chicago 47, Ill., 25
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Tel: ARmitage 6-5200
Precision Paper Tube Co., Resinite Div., 25, Phenolic Impregnated
Prince Rubber Co., Inc., N.Y., 15, 20, 25
Radar Design Corp., N.Y., 15
Raybestos-Manhattan, Inc., Pa., 15, 20, 25
Resin Industries, Inc., Calif., 5, 15, 20, 25
Resistoflex Corp., N.J., 5, 15, 20, 25
Rex Corp., 240 Hayward Rd., West Acton, Mass., 5, 15, 20, 25
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Tel: COlonial 3-7721
Richardson Co., The, 2749 Lake St., Melrose Park, Ill., 7, 15, 20, 25
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Tel: (Chicago) MAnsfield 6-8900
St. Regis Paper Co., N.Y., 7, 15, 20, 25
Saxton Products, Inc., Wire & Cable Div., 1661 Boone Ave., New York 60, N.Y., 5, 15, 25
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Shamban & Co., W. S., Calif., 5, 7, 10, 15, 20, 25, Teflon & Kel-F
Shell Chemical Corp., N.Y., Epoxy Resins
Sillcocks-Miller Co., The, N.J., 5, 20, 25
Sparta Mfg. Co., Ohio, 5, 15, 20, 25
Spaulding Fibre Co., Inc., N.Y., 7, 15, 20, 25
Stanpat Co., N.Y., 7
Stevens Products, Inc., N.J., 7
Synthane Corp., Pa., 7, 15, 20, 25
Taylor Fibre Co., Pa., 15, 20, 25
Technical Tape Corp., N.Y., 5, 25
Technicraft Co., Mass., 10
Tevco Insulated Wire, Calif., 5
Thal, Bernard, Mass., 7, 20
Thompson Fiber Glass Co., H. I., Calif., 7
Thor Ceramics, Inc., 225 Belleville Ave., Bloomfield, N.J., 15, 20, 25
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Tel: PIlgram 3-7797
Tingstol Co., Ill., 15, 20, 25
Trimount Plastic Co., Inc., Mass., 7, 20
Tri-Point Plastic, Inc., N.Y., Teflon Rods
United States Gasket Co., N.J., 5, 15, 20, 25
Varflex Corp., N.Y., 25
Virginia Electronics Co., Inc., D.C., 7
Welcraft Products Co., Inc., Ind., 5
Westinghouse Electric Corp., Pa., 15, 20, 25
Westlake Plastics Co., Pa., 5, 15, 20, 25
Willson Camera Co., Inc., Pa., 7
Wilmington Fibre Specialty Co., Del., 7, 15, 20, 25
Zenith Plastics Co., Sub. Minn. Mining & Mfg. Co., Calif., 7
Zippertubing Co., The, Calif., 5, 25

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Proprietary forms, ceramic: See class 84

Proprietary molding, plastic: See class 94

Publishing: See class 99

Pumps, vacuum: See class 92

Racks: See class 28

Representatives, manufacturers: See class 100

Research laboratories: See class 90

Retaining rings: See class 87

Rivets: See class 87

Sales & service: See class 100

Screws: See class 87

Shaft locks: See class 97

Shafts, flexible: See class 87

Shielded enclosures: See class 71

Shielding materials, RF: See classes 71 & 89

Shields, tube: See class 97

Sockets: See class 55

Soldering Irons & Guns: See class 92

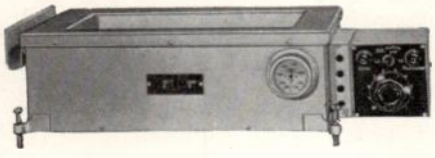
Directory IV. Materials & Services

96. Solder.

5. Acid core
10. Fluxes
15. Plain
20. Precious metal
25. Pre-forms
30. Rosin core

Accurate Specialties Co., Inc., N.Y., 5, 10, 15, 20, 25, 30
All-State Welding Alloys Co., Inc., N.Y., 10, 20, Aluminum
Allen Co., Inc., I. B., Ill., 5, 10, 15, 25, 30, PC Flux
Alpha Metals, Inc., N.J., 5, 10, 15, 20, 25 30
Alpha-Loy Corp., Ill., 5, 10, 15, 20, 25, 30
Ambroid Co., Mass., 10
American Metal Climax, Inc., N.Y., 15, 20
American Platinum & Silver Div., Engelhard Industries, Inc., 231 New Jersey R.R. Ave., Newark 5, N.J., 20, 25
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Tel: MArket 2-8035
American Silver Co., Inc., 36-06 Prince St., Flushing 54, N.Y., 20, 25
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Tel: FLushing 3-8012
Anchor Metal Co., Inc., N.Y., 5, 10, 15, 20, 25, 30
Anderson Associates, H. V., N.J., 10, Precious Metal Films
Anthony & Co., J. L., R.I., 20

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WITH MECHANICAL TYPE DIAL THERMOMETERS



25 SIZES MEET ALL REQUIREMENTS

New proven design with all controls on end of pot. Mechanical type dial thermometers to indicate solder temperature. Hydraulic thermostats. Walls and bottom of the solder cavities are smooth and free of all obstructions.

Temperature range 300° to 600° F. Temperature swing ± 2°. Wide variety of sizes up to eight feet long. All Voltages.

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1648 W. Haddon St.
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Art Wire & Stamping Co., 21 Boyden Place, Newark 2, N.J., 15, 20, 25
See ad on page 587
Tel: HUmboldt 4-2100
Bow Solder Products Co., Inc., N.Y., 5, 10, 15, 25, 30
Chase Brass & Copper Co., Conn., 15, 20
Chemalloy Electronics Corp., Calif., 15 & Fluxless Aluminum
Cooper & Sons, Inc., J. B., N.Y., 20, 25
Decimeter Products Co., Colo., 10
Dee Electric Co., 1648 West Haddon St., Chicago 22, Ill., solder pots
See ad on this page
Tel: HUmbolt 6-7959
Division Lead Co., Ill., 5, 10, 15, 25, 30
Electrovert, Inc., N.Y., 10, 15, 30
Engelhard Industries, Inc., 113 Astor St., Newark 2, N.J., 10, 20, 25
See ad on page 166
Tel: BIgelow 3-0030
Enthoven Solders, Ltd., England, 5, 10, 15, 25, 30, Aluminum Solder & Fluxes
Federated Metals Div., N.Y., 5, 15, 25, 30
Forney Industries, Colo., 10
Fusion Engineering, Ohio, 5, 10, 20, 25, 30
Glaser Lead Co., Inc., N.Y., 5, 10, 15, 20, 25, 30
Handy & Harman, N.Y., 10, 20, 25
Highland Engineering Co., 90 Magnolia Ave., Westbury, L.I., N.Y., 10, 15, 20
See ad on page 441
Tel: EDgewood 3-2933
Johnson Mfg. Co., Inc., Iowa, 5, 10, 15, 25, 30
Kester Solder Co., Ill., 5, 10, 15, 25, 30
Leach & Garner Co., Mass., 20
London Chemical Co., Inc., Ill., 10, 15, 30
Malco Tool & Mfg., Co., Ill., Lugs
Metals & Controls Corp., Mass., 20
Metz Refining Co., N.J., 20
Mico Instrument Co., Mass., 10, Non-Corrosive Paste Solder
Multicore Sales Corp., Dept. MY908, 80 Shore Rd., Port Washington, N.Y., 10, 30
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Tel: POrt Washington 7-7700
National Lead Co., N.Y., 5, 10, 15, 20, 25, 30
National Wire & Cable Corp., Calif., 30
New York Solder Co., Inc., N.Y., 5, 15, 30
Ruby Chemical Co., The, Ohio, 5, 10, 30
Sargeant & Wilbur Heat Treating Corp., R.I., 10, 20
Shanda Labs., Inc., N.J., 10
Somers Brass Co., Inc., Conn., Solder Coated Strip
Spinform Inc., Mass., 25
Standard Metals Corp., Mass., 20
Staver Co., Inc., The, N.Y., 25
Superior Flux & Mfg. Co., Ohio, 10
Transval Engineering Corp., Calif., 10
Tricon Mfg. Co., Ill., 5, 10, 15, 20, 25, 30, Silver
Union Electronics Corp., Mass., 10
United Mineral & Chemical Corp., 16 Hudson St., New York 13, N.Y., 20, 25
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Tel: BEekman 3-8870
Wildberg Bros. Smelting & Refining Co., Calif., 20
Wilkinson Co., The, Calif., 20
Wilson Div., H. A., Engelhard Industries, Inc., U. S. Highway 22, Union, N.J., 20
See ad on page 166
Tel: MUrdock 6-6600

Spacers & insulators, vacuum tube: See class 97

Spinning, metal: See class 86

Springs: See class 87

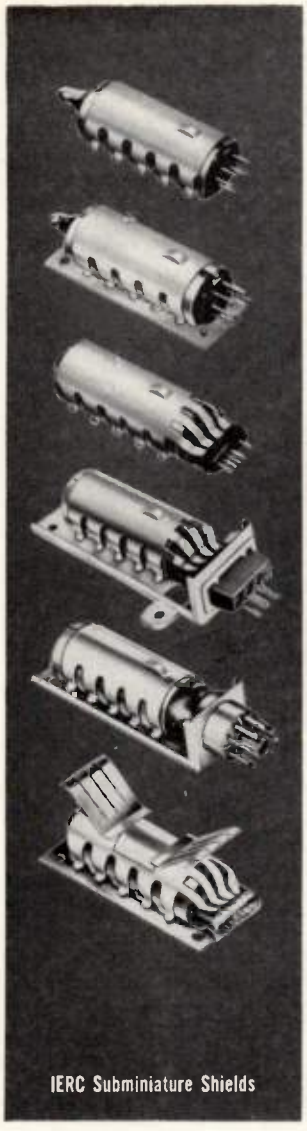
Stamping, metal: See class 86

Strain reliefs: See class 87

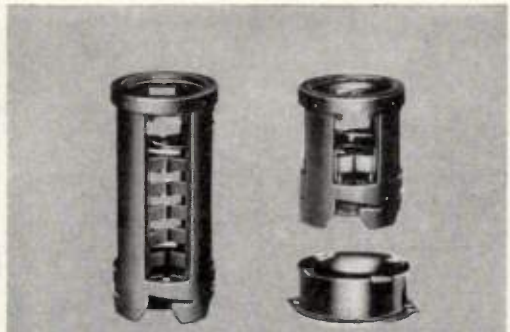


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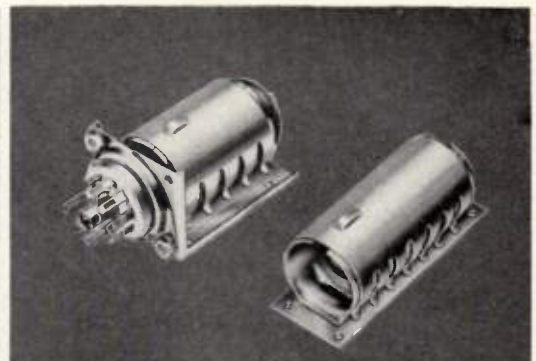


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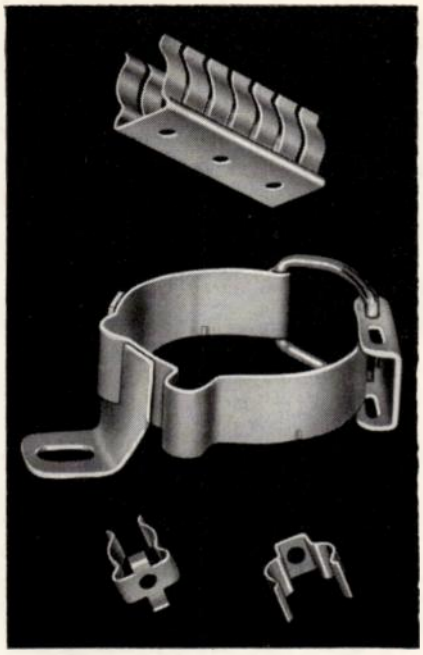
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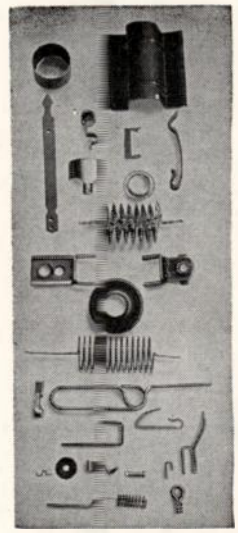
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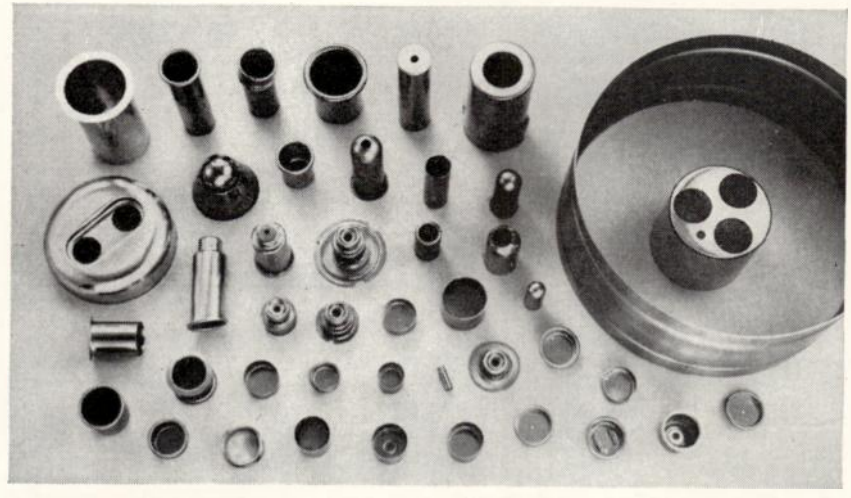
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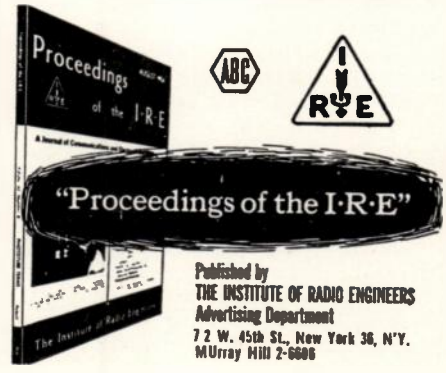
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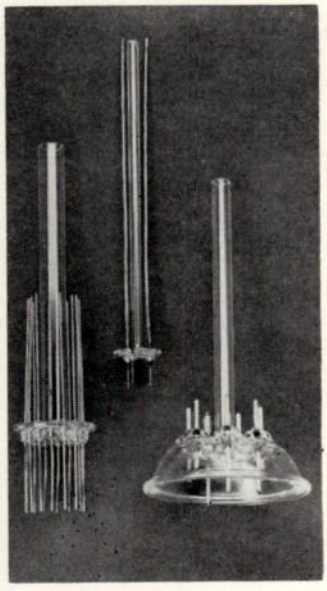
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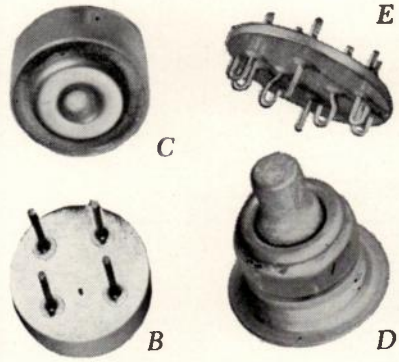


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Ross Co., David H., 534 El Camino Real, San Carlos, Calif., 15 (REP)
Tel: LYtell 1-4411

Rudat Sales Co., 1477 Dana, Palo Alto, Calif., 15 (REP)
Tel: DAvenport 2-5232

Rupp, Vera T., 307 Parkman Ave., Los Angeles 26, Calif., 15 (REP)
Tel: DUnkirk 3-4197

Rush, Earl, 4216 W. Jefferson Blvd., Los Angeles 16, Calif., 15 (REP)

San Francisco Radio & Supply Co., 1282-84 Market St., San Francisco 2, Calif., 10 (NEDA)

Saul and Associates, Howard M., 5015 San Vicente Blvd., Los Angeles 19, Calif., 15 (REP)
Tel: WEbster 8-3591-2

Schad Electronic Supply, Inc., 1180 Denise Way, San Jose, Calif., 10 (NEDA

Scope Distributors, Inc., Box 37205, Los Angeles Calif., 10 (NEDA)

Scott Radio Supply, Inc., 266 Alamitos Ave., Long Beach 2, Calif., 10 (NEDA

Shallenberger, John B., 1450 University Ave., Palo Alto, Calif., 5, 10, 15
Tel DAvenport 5-9456

Shephard-Winters Co., 7407½ Melrose Ave., Los Angeles 46, Calif., 15 (REP)
Tel WEbster 8-2996

Sinai-Johnson Co., 65 9th St., San Francisco 3, Calif., 15 (REP)
Tel UNderhill 1-6259

"Distribution" listings are arranged alphabetically by states. For names and addresses of manufacturing firms, see Alphabetical Directory, pages 141-280.

Snitzer Co., T. Louis, 5354 W. Pico Blvd., Los Angeles 19, Calif., 15 (REP)
Tel: WEbster 8-2074

Snyder Co., Lee Grant, 1418 N. Highland Ave., Hollywood 28, Calif., 15 (REP)
Tel: HOllywood 9-6278

Sodaro Co., 9400 Culver Blvd., Culver City, Calif., 15
Tel: TExas 0-6001

Spraggins Co., S. L., 914 S. Robertson, Beverly Hills, Calif., 15 (REP)
Tel: CRestview 5-1544

Stern & Co., I. R., 4109 Burbank Blvd., Burbank, Calif., 15 (REP)
Tel: VIctoria 9-1195

Stevens Co., Inc., Thomas L., 5333 S. Sepulveda Blvd., Culver City, Calif., 15 (REP)
Tel: TExas 0-1383

Stolaroff Co., M. A., 4622 W. Slauson Ave., Los Angeles 43, Calif., 15 (REP)
Tel: AXminster 3-6226

Stone Associates, Inc., Carl A., 1102 S. Western Ave., Los Angeles 6, Calif., 15 (REP)
Tel: TExas 0-7771

Stone Sales Co., R. L., 8971 National Blvd., Los Angeles 34, Calif., 15 (REP)
Tel: TExas 0-5973

Strassner Co., Conrad R., 1865 N. Western Ave., Los Angeles 27, Calif., 15 (REP)
Tel: HOllywood 2-0916

Television Radio Supply Co., 1321 Mission St., San Francisco, Calif., 10 (NEDA)

Tompkins & Co., Win W., 2363 Birch St., Palo Alto, Calif., 15 (REP)
Tel: DAvenport 6-7940

Valley Radio Supply Co., 716 Baker St., Bakersfield, Calif., 10 (NEDA)

Vaughan Co., G. H., 2366 E. Foothill Blvd., Pasadena, Calif., 15 (REP)
Tel: SYcamore 5-4420

Vermilya, Robert H., 1258 Fitzgerald Ave., San Francisco 24, Calif., 15 (REP)
Tel: VAlencia 4-6714

Wallace, Don C., 1206 Maple Ave., Los Angeles 15, Calif., 15 (REP)
Tel: RIchmond 7-0401

Weatherford Co., R. V., 6921 San Fernando Rd., Glendale 1, Calif., 10 (NEDA)

Weber Co., Wedge, 1217 Venice Blvd., Los Angeles, Calif., 15 (REP)
Tel: DUnkirk 7-2111

Weightman & Associates, 4101 Burbank Blvd., Burbank, Calif., 15 (REP)
Tel: VIctoria 9-2435

Wenger Co., E. C., 1450 Harrison St., Oakland, Calif., 10 (NEDA)

Wesrep Corp., 2022 S. Sepulveda Blvd., Los Angeles 25, Calif., 15
See ad on this page
Tel: BRadshaw 2-3537

Westron Sales & Engineering, 7407 Melrose Ave., Los Angeles 46, Calif., 15 (REP)
Tel: WEbster 3-7276

White & Co., 788 Mayview Ave., Palo Alto, Calif., 15 (REP)
Tel: DAvenport 3-4455

Whitehead Radio Co., 4686 Long Beach Blvd., Long Beach 5, Calif., 10 (NEDA)

Wiley Co., Paul F., 1632 Silverlake Blvd., Los Angeles, Calif., 15 (REP)
Tel: NOrmandy 3-8028

Wood Co., Ash, M., 11938 E. Garvey Blvd., El Monte, Calif., 15 (REP)
Tel: CUmberland 3-1201

Wresco, 140 9th St., San Francisco, Calif., 10 (NEDA)

Zack Radio Supply Co., 1424 Market St., San Francisco, Calif., 10 (NEDA)

COLORADO

Bowen Co., R. G., 721 S. Broadway, Denver 9, Colo., 15 (REP)
Tel: RAce 2-4641

Cluphf and Associates, Stan, 75 S. Cody Ct., Denver 15, Colo., 15 (REP)
Tel: BElmont 3-6025

Connors Co., W. H., 375 Birch St., Denver 20, Colo., 15 (REP)
Tel: DExter 3-7628

Cox, Robert W., 110 W. 13th Ave., Denver 4, Colo., 15 (REP)
Tel: MAin 3-3544

Electronic Parts Co., 20 N. 13th Ave., Denver 4, Colo., 10 (NEDA)

Golliher, W. B., 1003 Grandview Ave., Boulder, Colo., 15 (REP)
Tel: HIllcrest 2-7899

Hyde Sales Co., 1341 Cherokee St., Denver 4, Colo., 15 (REP)
Tel: CHerry 4-7471

Koether, Herbert F., 110 W. 13th Ave., Denver 4, Colo., 15 (REP)
Tel: MAin 3-3544

McLoud & Raymond Co., 5403 E. Evans, Denver, Colo., 15 (REP)
Tel: SKyline 6-1589

Moss Sales Co., Gordon G., P.O. Box 428, Greeley, Colo., 15 (REP)
Tel: ELgin 3-1452

Nelson Co., A. J., P.O. Box 5502, Denver 17, Colo., 15 (REP)
Tel: KEystone 4-6751

Pearson & Co., Mel, 1011 S. Josephine St., Denver 9, Colo., 15 (REP)
Tel: SPruce 7-7878

Peyser & Co., 1501 N. Weber, Colorado Springs, Colo., 15 (REP)
Tel: MElrose 4-3401

Walker Radio Co., L. B., 620 Broadway, Denver, Colo., 10 (NEDA)

Walker Radio Co., L. B., 100 N. Victoria Ave., Pueblo, Colo., 10 (NEDA)

WESREP CORPORATION

Manufacturers' Representatives
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Magnetic Cores — Printed Circuits —Gears—Gear Testers—Limit Switches —Magnetic and Mechanical Clutches— Instrument Development—Trimmer Potentiometers—High Temperature Potting Compound—Cans—Flexible Couplings— Tape Punching Machines—Bakelite Rod — Lubrication Equipment — Industrial Chemicals.

2022 S. Sepulveda Blvd., Los Angeles 25, California
Phone BRadshaw 2-3757
Teletype W.L.A. 6708

For details, circle #592 on Reader Service Card

Williams Co., Allen I., 126 W. 12th Ave., Denver 4, Colo., 15 (REP)
Tel: MAin 3-0343

CONNECTICUT

Aikins Electronics Supplies, Inc., 531 Broad St., New London, Conn., 10 (NEDA)

Aikins Electronic Supplies, Inc., 98 Water St., Norwich, Conn., 10 (NEDA)

Ammrad Co., 843 Grand Ave., New Haven 11, Conn., 10
Tel: UN 5-4508

Bond Radio Supply, 439 W. Main St., Waterbury, Conn., 10 (NEDA)

Eastern Electronic Sales Corp., 288 Grand Ave., New Haven, Conn., 15
Tel: MAin 4-9829

Electrical Supplies, Inc., 225 Walnut St., Hartford, Conn., 10
Tel: JA 7-7111

Equipment Sales Co., Inc., P.O. Box 6098, New Haven 17, Conn., 15
Tel: CHestnut 8-5581

Hammond, Inc., John S., 34 Lincoln Ave., Greenwich, Conn., 15
Tel: NOrmandy 1-9410

Kahn and Company, Inc., 541 Windsor St., Hartford 1, Conn., 10
Tel: CHapel 6-7431

Lavin Associates, Henry, P.O. Box 196, Meriden, Conn., 15 (REP)
Tel: BEverly 7-5527

Modern Radio Supply Co., 1224 Farmington, Kensington, Conn., 10 (NEDA)

Murphy & Co., J. M., 808 Main St., Manchester, Conn., 15
Tel: MItchell 9-2129

Nief Associates, Paul W., 15 Oak St., Westport, Conn., 15 (REP)
Tel: CApital 7-3834

Roskin Distributors, Inc., 275 Park Ave., East Hartford, Conn., 10 (NEDA)

Sales Engineering Co., Sugar Lane, Newtown, Conn., 15
Tel: GA 6-2664

Seyd, Ernest K., Long Hill Rd., Andover, Conn., 15 (REP)
Tel: COventry-Pilgrim 2-6604

Snyder Co., Inc., V. A., 2165 Morris Ave., P.O. Box 184, Union, N.J., 15
See ad on page 605
Tel: MUrdock 8-6100

Sprague Electrical Supplies, Inc., Park & Railroad Aves., Bridgeport 4, Conn., 10
Tel: EDison 6-2535

United Electronics Supply Corp., 49 E. Main St., New Britain, Conn., 10 (NEDA)

Westconn Electronics, Inc., 195 Colorado Ave., Bridgeport, Conn., 10 (NEDA)

Whitehead Co., John F., The, 85 Whitfield St., Guilford, Conn., 15 (REP)
Tel: GLendale 3-3855

Yale Radio-Electronics Co., 1215 Main St., Hartford 3, Conn., 10 (NEDA)

DELAWARE

Carmine, Ferrell S., 14 Knickerbocker Dr., Newark, Del., 15 (REP)
Tel: ENdicott 8-7603

Delaware Electronics Supply Co., 220 W. 4th St., Wilmington 1, Del., 10
Tel: OLympia 4-7932

Directory IV. Materials & Services

Radio Electric Service Co. of Delaware, Inc., 3rd & Tatnall Sts., Wilmington, Del., 10 (NEDA)

Snyder Co., Inc., V. A., 2165 Morris Ave., P.O. Box 184, Union, N.J., 15
See ad on page 605
Tel: MUrdock 8-6100

DISTRICT OF COLUMBIA

Electronic Wholesalers, Inc., 2345 Sherman Ave., Washington, D.C., 10 (NEDA)

Gallant, Inc., 261 Constitution Ave., Washington 1, D.C., 20
Tel: EXecutive 3-2552

Harbison & Masi, Inc., 734-15th St., N.W., Washington 5, D.C., 15

Jodon, Inc., F. R., 8510 Beech Tree Rd., Washington 14, D.C., 15
Tel: EM 5-1515

Shamp Scientific Supply Co., 1500 Massachusetts Ave., Washington 5, D.C., 15

Shilt, Noble C., 3308 14th St., N.W., Washington 10, D.C., 15 (REP)
Tel: COlumbia 5-3938

Silberne Radio & Elec. Co., 3400 Georgia Ave., Washington, D.C., 10 (NEDA)

FLORIDA

Certified, Inc., P.O. Box 5088, Fort Lauderdale, Fla., 10 (NEDA)

Cooper Radio Co., P.O. Box 10010, St. Petersburg, Fla., 10 (NEDA)

East Coast Radio & Television Co., Inc., 1900 N.W., Miami Ct., Miami 36, Fla., 10 (NEDA)

Electronic Supply, 61 N.E. 9th St., Miami, Fla., 10 (NEDA)

Electronic Supply, 316 Luverne Ave., Panama City, Fla., 10 (NEDA)

Gamble Electronic Distributors, 1605 S.W. 8th St., Miami, Fla., 10 (NEDA)

Geartner Co., Jack, 823 86th St., Miami Beach, Fla., 15
Tel: UNion 6-6664

Goddard Distributors, Inc., 1309 North Dr., West Palm Beach, Fla., 10 (NEDA)

Grice Radio & Electronic Supplies, Inc., 300 E. Wright St., Pensacola, Fla., 10 (NEDA)

Herman Radio Supply Co., P.O. Box 358, Allapattah Sta., Miami 42, Fla., 10 (NEDA)

Leader Electronic Dist., Inc., Box 13247, Tampa, Fla., 10 (NEDA)

Lee Associates, R. F., 711 Magnolia Ave., Orlando, Fla., 15
Tel: GArden 4-2161

Miami Electronic Dist., Inc., 419 N.W. 79th St., Miami, Fla., 10 (NEDA)

Pearce Simpson, Inc., 3023 Coral Way, Miami 45, Fla., 5, 10
Tel: HIghland 8-1708

Radio Accessories Co., P.O. Box 372, Tampa, Fla., 10 (NEDA)

Radio TV Parts, Inc., 2611 N.W. 21st St., Miami, Fla., 10 (NEDA)

Sanders Electronics Co., 1002 E. 24th St., Hialeah, Fla., 10 (NEDA)

100. Distribution.

5. Export & import
10. Jobbers & wholesalers
15. Manufacturers representatives
20. Sales & service
25. Surplus dealers

Smith Co., Maitland K., 322 Riverside Dr., Ormond Beach, Fla., 15 (REP)
Tel: ORange 7-2298

Southeast Audio Co., 1125 Rosselle St., Jacksonville, Fla., 10 (NEDA)

Taylor Co., Inc., Morris F., 4304 Corona St., Tampa 9, Fla., 15 (REP)
Tel: 62-4071

Thurow Dist., Inc., P.O. Box 1529, Tampa, Fla., 10 (NEDA)

Vance Baldwin, Inc., 494-6 N.W. 54th St., Miami, Fla., 10 (NEDA)

Van Dusen, R. H., 940 Lake Elbert Dr., Winter Haven, Fla., 15 (REP)
Tel: FLorida 2-2684

Walder Radio & Appliance Co., 1809 N.E. 2nd Ave., Miami 36, Fla., 10 (NEDA)

Wallace Associates, Inc., Stanley K., P.O. Box 67, Lutz, Fla., 15 (REP)
Tel: WEbster 9-3241

Wallace Associates, Inc., Stanley K., 5525 Embassy Dr., Pine Castle Branch, Orlando, Fla., 15 (REP)
Tel: GArden 4-0294

Wallace Associates, Inc., Stanley K., 207 W. Alfred St., Tampa, Fla., 15 (REP)
Tel: 24-4221

GEORGIA

Adair Co., Clark, The, 1426 High Point Pl., N.E., Atlanta 6, Ga., 15 (REP)
Tel: TRinity 5-3979

Burwell Co., Henry W., 422 Ponce de Leon Ave., N.E., Atlanta 1, Ga., 15 (REP)
Tel: TRinity 4-2127

Cartwright & Bean, 3223 Cain's Hill Pl., N.W., Atlanta 5, Ga., 15 (REP)
Tel: CEdar 7-2273

Chapman & Co., Cary, 672 Whitehall, S.W., Atlanta, Ga., 15 (REP)
Tel: JAckson 4-7388

Duckett Sales Co., Grady, 26 E. Andrews Dr., N.E., Atlanta 5, Ga., 15 (REP)
Tel: CEdar 3-5308

Electronic Distributors, Inc., 995 Riverside Dr., Macon, Ga., 10 (NEDA)

Fausett, Floyd, 777 Pinechurst Ter., S.W., Atlanta 10, Ga., 15 (REP)
Tel: PLaza 3-3104

Hayden, Paul, 118 W. Nabell Ave., P.O. Box 331, East Point, Ga., 15 (REP)
Tel: POplar 6-0261

Hollingsworth & Still, 508 Whitehead Bldg., Atlanta 3, Ga., 15 (REP)
Tel: MUrray 8-5878

Jackson Electronic Supply Co., 840 Marietta St., N.W., Atlanta, Ga., 10 (NEDA)

Joyner & Associates, J. E., P.O. Box 10821, Sta. "A," Atlanta 10, Ga., 15 (REP)
Tel: PLaza 5-4336

Kennon, W. J., 7 Camden Rd., N.E., Atlanta 9, Ga., 15 (REP)
Tel: TRinity 4-5566

McCorvey, W. Avis, 215 Church St., Decatur, Ga., 15 (REP)
Tel: DRake 7-6167

Millar Associates, James, 1036 Peachtree St., N.E., Atlanta 9, Ga., 15 (REP)
Tel: TRinity 6-0919

Murphy & Cota, 2110 Peachtree Rd., N.W., Atlanta 9, Ga., 15 (REP)
Tel: TRinity 6-3020

Nickerson Co., Frank C., 1202 Zonolite Rd., N.E., Atlanta 6, Ga., 15 (REP)
Tel: TRinity 5-8908

Prestwood Electronics Co., 1445 Greene St., Augusta, Ga., 10 (NEDA)

Radio Sales & Service Co., 1326 1st Ave., Columbus, Ga., 10 (NEDA)

Smith Co., Maitland K., 208 14th St., N.W., Atlanta, Ga., 15 (REP)
Tel: TRinity 5-8031

Southeastern Radio Parts Co., 442 W. Peachtree St., N.W., Atlanta, Ga., 10 (NEDA)

Specialty Distributing Co., 763 Juniper St., N.W., P.O. Box 6326, Atlanta, Ga., 10 (NEDA)

Taylor Co., Inc., Morris F., 2396 Connally Dr., P.O. Box 308, East Point, Ga., 15 (REP)
Tel: POplar 1-5353

Wallace Associates, Inc., Stanley K., 2151 Beecher Rd., S.W., Atlanta 11, Ga., 15 (REP)
Tel: PLaza 3-8463

IDAHO

A & J Distributing Co., 0119 9th St., Lewiston, Idaho, 10 (NEDA)

Kopke Electronics Co., P.O. Box 4236, Boise, Idaho, 10 (NEDA)

Schwendiman Distributing Co., 380 E St., Idaho Falls, Idaho, 10 (NEDA)

United Electronics Wholesale, 328 3rd St., E., Twin Falls, Idaho, 10 (NEDA)

ILLINOIS

Allied Radio Corp., Dept. 35-59, 100 N. Western Ave., Chicago 80, Ill., 10 (NEDA)
See ad on page 142
Tel: HAymarket 1-6800

Alverson Sales Co., 217 E. Front St., Bloomington, Ill., 10 (NEDA)

Anderson & Associates, Inc., Burt, 6835 W. Higgins, Chicago 31, Ill., 15 (REP)
Tel: SPring 4-4174

Angel & Co., Jay C., 2743 W. Peterson Ave., Chicago 45, Ill., 15 (REP)
Tel: UPtown 8-0653

Aprio Sales, Inc., 4305 N. Lincoln Ave., Chicago, Ill., 10 (NEDA)

Bauman & Bluzat, 2753 W. North Ave., Chicago 47, Ill., 15
Tel: HUmbolt 6-6809

Bauman Sales Co., Robert H., 210 S. Lodge Lane, Lombard, Ill., 15 (REP)
Tel: LOmbard 18

Beier, Leroy W., 6518 W. North Ave., Chicago 35, Ill., 15 (REP)
Tel: BErkshire 7-2420

Bierhaus-Balhorn Sales, Inc., 5967 W. Madison St., Chicago 44, Ill., 15 (REP)
Tel: AUstin 7-2089

Bluzat, Rene, 3035 N. Laramie, Chicago 41, Ill., 15 (REP)
Tel: PEnsacola 6-2238

Booth & Associates, Claude, 4000 W. North Ave., Chicago 39, Ill., 15 (REP)
Tel: CApitol 7-2810

Bowman & Co., J. G., 513 E. 75th St., Chicago 19, Ill., 10 (NEDA)

Brouillette and Associates, W. G., 1558 Newcastle Ave., Westchester, Ill., 15 (REP)
Tel: FIlmore 5-6500

Bruce, Harold, 1120 E. Capitol, Springfield, Ill., 10 (NEDA)

Bruning, A. H., 1758 Lawrence Ave., Chicago 40, Ill., 15 (REP)
Tel: EDgewater 4-0989

Bud Electronics Supply Co., 114 E. N Ave., Danville, Ill., 10 (NEDA)

Burgoyne, William E., 7001 N. Clark St., Chicago 26, Ill., 15 (REP)
Tel: HOllycourt 2-2112

Caine Electronic Sales Co., 3020 N. Cicero Ave., Chicago 41, Ill., 15 (REP)
Tel: SPring 7-4022

Clears Co., Gene T., 435 Indianwood Blvd., Park Forest, Ill., 15 (REP)
Tel: PIlgrim 8-2359

Chauncey's, Inc., 4740 W. Chicago Ave., Chicago, Ill., 10 (NEDA)

Cole Co., G. McL., 6514 W. Higgins Rd., Chicago 31, Ill., 15 (REP)
Tel: SPring 4-3535

Cumming & Associates, Inc., Bruce, 6029 W. Belmont Ave., Chicago 34, Ill., 15 (REP)
Tel: MErrimac 7-3770-71

Delta Distributing, 2357 York St., Blue Island, Ill., 10 (NEDA)

Devonshire Electronics, Inc., 514 A Barry Ave., Chicago 14, Ill., 10 (NEDA)

Diethert Co., Inc., Russ. 2030 W. Montrose Ave., Chicago 18, Ill., 15 (REP)
Tel: LOngbeach 1-7627

Dolin Sales, Dave, 3553 W. Peterson, Chicago 45, Ill., 15 (REP)
Tel: JUniper 8-3738

Doyle Co., Wm. J., 7002 N. Western Ave., Chicago, Ill., 15 (REP)
Tel: ROgers Park 1-3130

Electron Enterprises, Inc., 6917-19-21 Stanley Ave., Berwyn, Ill., 5, 10, 15
Tel: BIshop 2-2636

Ellinger Sales Co., W. G., 6571 N. Olmsted, Chicago 31, Ill., 15 (REP)
Tel: ROdney 3-4154

Ellinger Sales Corp., 6540 Northwest Hwy., Chicago 31, Ill., 15 (REP)
Tel: ROdney 3-1570-71-72

Engineered Sales Co., Inc., 3592 Milwaukee Ave., Chicago 41, Ill., 15 (REP)
Tel: PEnsacola 6-0555

Engle Co., Karl D., 4724 N. Sheridan Rd., Chicago 40, Ill., 15 (REP)
Tel: UPtown 8-6363

Felleisen, Theodore E., 5841 W. Montrose Ave., Chicago 34, Ill., 15 (REP)
Tel: SPring 7-1060

Fitzsimmons Associates, Inc., 6124 Milwaukee Ave., Chicago 30, Ill., 15 (REP)
Tel: NEwcastle 1-7660

Friedman Co., Morton L., 2814 W. Balmoral Ave., Chicago 25, Ill., 15 (REP)
Tel: LOngbeach 1-4257

Gassner & Clark Co., 6644 N. Western Ave., Chicago 45, Ill., 15 (REP)
Tel: ROgers Park 4-6121

Gebhard Co., Harry W., 5129 W. Devon Ave., Chicago 30, Ill., 15 (REP)
Tel: ROdney 3-3636

Gianaras Sales Co., 5435 Northwest Hwy., Chicago 30, Ill., 15 (REP)
Tel: SPring 4-4600

Golfen Co., Jerry, 2750 W. North Ave., Chicago 47, Ill., 15
Tel: EV 4-5959-60

Gray, Inc., Ralph M. Hill-Gordon E., 41½ Harrison St., Oak Park, Ill., 15 (REP)
Tel: EStabrook 8-7050

Green & Associates, Loren F., 5218 W. Diversey Ave., Chicago 39, Ill., 15 (REP)
Tel: PAlisade 5-6824

Grove Electronics Supply Co., 4103 W. Belmont Ave., Chicago 41, Ill., 10 (NEDA)

Halinton, Harry, 6400 N. Leoti Ave., Chicago 46, Ill., 15 (REP)
Tel: ROdney 3-2132

Haskell Associates, 202 N. Marion, Oak Park, Ill., 15 (REP)
Tel: EUclid 6-5741

Hausten Co., Dave, 607 E. Willow Ave., Wheaton, Ill., 15 (REP)
Tel: WHeaton 8-7312

Herberger Radio Supply, 136 1st Ave., Peoria, Ill., 10 (NEDA)

Higgins Co., Royal J., 10105 S. Western Ave., Chicago 43, Ill., 15 (REP)
Tel: CEdarcrest 3-7388

Howard Electronic Sales, 4140 Archer Ave., Chicago 32, Ill., 10 (NEDA)

Hunter Associates, Thomas B., 4441 W. Irving Park Rd., Chicago 41, Ill., 15 (REP)
Tel: SPring 7-2157

Hutmacher Associates, Ray R., 6647 N. Oliphant Ave., Chicago 31, Ill., 15 (REP)
Tel: NEwcastle 1-3248

Joseph, Inc., Irving, 5959 W. Fullerton, Chicago, Ill., 10 (NEDA)

KaDell Sales Associates, Inc., 5875 N. Lincoln Ave., Chicago 45, Ill., 15 (REP)
Tel: LOngbeach 1-3042

Karet-Margolin, Inc., 13 W. Hubbard St., Chicago 10, Ill., 15 (REP)
Tel: WHitehall 4-6345

Kleker Co., Jerome H., 177 Sunset Ave., Glen Ellyn, Ill., 15 (REP)
Tel: GLen Ellyn 2297

Knaggs, H. W., 7503 Melba Lane, Belleville, Ill., 15 (REP)
Tel: EXpress 7-2398

Kopetzky & Associates, Karl A., 4908 N. Lincoln Ave., Chicago, Ill., 15 (REP)
Tel: WHitehall 4-6136

Krueger Co., Ringland M., 5306 W. Lawrence Ave., Chicago 30, Ill., 15 (REP)
Tel: PEnsacola 6-3107

Lampley Radio Co., 810 N. McLeansboro St., Benton, Ill., 10 (NEDA)

Langhaus-Levy Associates, 5317 S. Cottage Grove Ave., Chicago, Ill., 15 (REP)
Tel: DOrchester 3-5344

Levin-Sacks & Assoc., 2949 Touhy Ave., Chicago 45, Ill., 15 (REP)
Tel: ROgers Park 4-7082

Linz, William M., 6322 N. Cicero Ave., Chicago 30, Ill., 15 (REP)
Tel: MUlberry 5-2022

Lukko Sales Corp., 4900 N. Elston Ave., Chicago, Ill., 10 (NEDA)

Lurtz Electric Co., 219-221 N. Illinois St., Belleville, Ill., 10 (NEDA)

Magnuson Associates, 3347 W. Irving Park Rd., Chicago 18, Ill., 15 (REP)
Tel: KEystone 9-7555

Magnuson Co., Edward, 3349 W. Irving Park Rd., Chicago 18, Ill., 15 (REP)
Tel: JUniper 8-2613

Marsland & Co., Hugh, 6699 Lincoln Ave., Chicago 45, Ill., 15
Tel: ORchard 6-1100-01-02

McBride Sales Co., J. J., 328 E. Burlington St., Riverside, Ill., 15 (REP)
Tel: RIverside 7-8131

McCarthy, L. C., 7117 Addison St., Chicago 34, Ill., 15 (REP)
Tel: KIldare 5-7976

Melvin Electronics, Inc., 541 Madison St., Oak Park, Ill., 10 (NEDA)

Merquip, C., 5904 W. Roosevelt, Chicago, Ill., 10 (NEDA)

Midwest Electronics, 6907 N. Western Ave., Chicago 45, Ill., 10 (NEDA)

Mulay, Sam J., 1717 W. 74th St., Chicago 36, Ill., 15 (REP)
Tel: GRovehill 6-4000

Nation Wide Radio, 7421 N. Western Ave., Chicago 6, Ill., 10 (NEDA)

National Elec. Dist. Association, Inc., 343 S. Dearborn St., Chicago 4, Ill., 10
Tel: HA 7-5526

Necker, Ernest J., 6514 W. Higgins Rd., Chicago 31, Ill., 15 (REP)
Tel: SPring 4-3535

Negel, Inc., Arthur, 918-925 E. 55th St., Chicago, Ill., 10 (NEDA)

Newark Electric Co., 223 W. Madison St., Chicago 6, Ill., 10 (NEDA)
Tel: STate 2-2944

Olsen Radio Warehouse, 4101-05 Milwaukee Ave., Chicago, Ill., 10 (NEDA)

Petitt Co., Inc., George, 349 N. Ashland Ave., River Forest, Ill., 15 (REP)
Tel: FOrest 9-8940

Pilgrim Distributing Co., 1230 E. 53rd St., Chicago, Ill., 10 (NEDA)

Pivan Engineering Co., 2820 Peterson Ave., Chicago 45, Ill., 15 (REP)
Tel: BRiargate 4-9135

Radio Doctors Supply House, 892 W. Station St., Kankakee, Ill., 10 (NEDA)

Directory IV. Materials & Services

Radio Parts Co., 4645 W. Madison, Chicago 44, Ill., 10 (NEDA)
Radio Television Supply Corp., 4343 W. Armitage Ave., Chicago 39, Ill., 10 (NEDA)
Relay Sales, Inc., Box 186-IR, West Chicago, Ill., 10
See ad on page 407
Tel: WEst Chicago 1100
Ridley Associates, 1551 N. Austin Blvd., Chicago 51, Ill., 15 (REP)
Tel: TUxedo 9-2940
Ritter Sales Co., 5839 W. Montrose Ave., Chicago 34, Ill., 15 (REP)
Tel: MUlberry 5-7440
Rose & Co., J. K., 1116 Linden Ave., Highland Park, Ill., 15 (REP)
Tel: AMbassador 2-5584
Roussey & Associates, Inc., Ralph F., 426 Edgewood Pl., River Forest, Ill., 15 (REP)
Tel: FOrest 9-6523
Saffro & Gettelman Co., 5209 N. Kimball Ave., Chicago 25, Ill., 15 (REP)
Tel: JUniper 8-0905
Sarkis & Co., Henry, 5608 N. Western Ave., Chicago 45, Ill., 15 (REP)
Tel: ARdmore 1-3774
Schubert, Arthur J., 8044 Kildare Ave., Skokie, Ill., 15 (REP)
Tel: ORchard 3-7823
Sittler Corp., 18 N. Ada St., Chicago 7, Ill., 10, 15
Tel: SEeley 3-4616
Smith Co., 221 W. Huron St., Chicago 10, Ill., 15 (REP)
Tel: SUperior 7-7919
Star Electronic Dist., Inc., 7734 S. Halsted St., Chicago, Ill., 10 (NEDA)
Stemm, R. Edward, 5681 W. Lake St., Chicago 44, Ill., 15 (REP)
Tel: EStebrook 9-2700
Stemm, Royal A., 21 E. Van Buren St., Chicago 5, Ill., 15 (REP)
Tel: WEbster 9-4840
Stolz-Wicks, Inc., 8110 S. Western Ave., Chicago, Ill., 10 (NEDA)
Sturtevant Co., P. A., Addison, Ill., 15
Tel: TErrace 4-2000
Suter TV Supply, Inc., 1009 N. Park St., Bloomington, Ill., 10 (NEDA)
Suter TV Supply, Inc., P.O. Box 1148, Springfield, Ill., 10 (NEDA)
Swinkle & Co., W. F., 541 Diversey Pkwy., Chicago 14, Ill., 15 (REP)
Tel: BIttersweet 8-4343
Tatro & Associates, Frank B., 6022 N. Rogers Ave., Chicago 30, Ill., 15 (REP)
Tel: KEystone 9-4535
Taylor, Robert F., 308 W. Washington St., Chicago 6, Ill., 15 (REP)
Tel: ANdover 3-1808
Tri-City Radio Supply Co., 1919 Fourth Ave., Rock Island, Ill., 10 (NEDA)
Twist Co., John G., 5232 W. Diversey, Chicago 39, Ill., 15 (REP)
Tel: SPring 7-2250
U. S. Radio & Television Supply, 6346 S. Ashland Ave., Chicago, Ill., 10 (NEDA)

100. Distribution.

5. Export & import
10. Jobbers & wholesalers
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25. Surplus dealers

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Warner Co., Dayton L., 815 MacArthur St., Chicago Heights, Ill., 15 (REP)
Tel: SKyline 4-0028
Whitmore & Associates, R. C., 605 N. Michigan Ave., Suite 430, Chicago 11, Ill., 15 (REP)
Tel: MOhawk 4-1904
Withers & Ropek, 5439 W. Division St., Chicago 51, Ill., 15 (REP)
Tel: AUstin 7-7292
York Radio & Television Corp., 518 E. Prairie, Decatur, Ill., 10 (NEDA)

INDIANA

Bieberich, Walter W., 2817 Plaza Dr., Ft. Wayne 5, Ind., 15 (REP)
Tel: KEnmore 2928
Bowman & Assoc., Jess, 257 Lincolnway, Valparaiso, Ind., 10 (NEDA)
Brown Distributing Co., Inc., 3746 College Ave., Indianapolis 5, Ind., 10 (NEDA)
Clancy & Co., Joe, Box 269, Angola, Ind., 15 (REP)
Tel: ANgola 793
Components Engineering Corp., 508 Old Nat'l Bank Bldg., Evansville 8, Ind., 15
Components Engineering Corp., 255A Wood Bldg., Oakland City, Ind., 20
Tel: 181
DeVoe, Leslie M., 4010 Washington Blvd., Indianapolis 5, Ind., 15 (REP)
Tel: ATwater 3-1395
Esse Radio Co., 42 W. South St., Indianapolis 25, Ind., 25
Tel: ME 4-8328
Fishman Associates, Paul B., 4440 N. Campbell Ave., Indianapolis 26, Ind., 15 (REP)
Tel: LIberty 6-5477

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Homsher, Burton F., 2018 Jessie Ave., Ft. Wayne 7, Ind., 15 (REP)
Tel: EAstbrook 4920
Kirsch Sales Co., 107 Wabash, LaFontaine, Ind., 15 (REP)
Tel: YUkon 1-2801
MacNabb, Schroeder & Loomis, 820 E. 64th St., Indianapolis 20, Ind., 15 (REP)
Tel: CLifford 5-6770
Midwest Electronics Supply Co., 2016 Webster St., Ft. Wayne 8, Ind., 10 (NEDA)
Moakler Electronic Supplies, 500 E. Chestnut, Jeffersonville, Ind., 10 (NEDA)
Morris-Cunningham & Associates, 6101 College Ave., Indianapolis 20, Ind., 15 (REP)
Tel: CLifford 1-3222
Paul Sales Company, The, 2609 Broadway, Ft. Wayne, Ind., 15
Tel: HArrison 0589
Reinhardt Co., Kenneth G., 1719 E. 52nd St., Indianapolis 5, Ind., 15 (REP)
Tel: CLifford 1-3564
Scheffler Co., Charles, 3929 Barnor Dr., Indianapolis 26, Ind., 15 (REP)
Tel: LIberty 7-7010
Schulz Co., Edwin A., 721 Sherwood Dr., Indianapolis 20, Ind., 15 (REP)
Tel: CLifford 5-1993
Selsor & Blind Associates, Inc., 4920 W. 16th St., Indianapolis 24, Ind., 15 (REP)
Tel: CHapel 4-0191
Southern Sales Co., P.O. Box 105, Lakeshore Dr., Angola, Ind., 15 (REP)
Tel: 77
Thomas & Sukup, Inc., 5226 N. Keystone Ave., Indianapolis 20, Ind., 15 (REP)
Tel: CLifford 1-6915
Valentine, Inc., Forrest C., 511 Ft. Wayne Bank Bldg.. Ft. Wayne, Ind., 15 (REP)
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Tel: ANthony 9122
Whitesell & Associates, Robert O., 6620 E. Washington St., Indianapolis 19, Ind., 15 (REP)
Tel: FLeetwood 9-5374

IOWA

Boe Dist. Co., 1605 Rockdale Rd., Dubuque, Iowa, 10 (NEDA)
Burghardt Radio & Supply Co., of Sioux City, 611 Fifth St., Sioux City 1, Iowa, 10 (NEDA)
Dukes Radio Co., P.O. Box 1227, Sioux City 2, Iowa, 10 (NEDA)
Friday-Lynch Radio Co., 429 W. Second St., Ottumwa, Iowa, 10 (NEDA)
Gifford-Brown, Inc., 618 First St., N.W., Cedar Rapids, Iowa, 10
Tel: EM 4-2491
Gifford-Brown, Inc., 726 Fifth Ave., S.E., Cedar Rapids, Iowa, 10 (NEDA)
Gifford-Brown, Inc., 1326 Walnut, Des Moines, Iowa, 10 (NEDA)

Iowa Radio Corp., 1212 Grand Ave., Des Moines 9, Iowa, 10 (NEDA)
Mid-State Dist. Co., 1201 Grand Ave., Des Moines, Iowa, 10 (NEDA)
Radio Trade Supply Co., 1224 Grand Ave., Des Moines 9, Iowa, 10 (NEDA)
Vrbik, Jerry, 615 Guaranty Bldg., Cedar Rapids, Iowa, 15 (REP)
Tel: EM 4-0833
World Radio Labs., 3415 W. Broadway, Council Bluffs, Iowa, 10 (NEDA)

KANSAS

Acme Radio & TV, Inc., 327 W. Fourth St., Hutchinson, Kansas, 10 (NEDA)
Acme Radio Supply, Box 437, 412 E. Tenth St., Topeka, Kansas, 10 (NEDA)
Carroll Radio & TV Supply, 1123 W. Sixth St., Topeka, Kansas, 10 (NEDA)
Excel Distributors, 118 W. Second St., Wichita 2, Kansas, 10 (NEDA)
Inland Associates, 6047 Howe Dr., Mission, Kansas, 15
Tel: ENdicott 2-2366
Interstate Electronic Supply Corp., 230 Ida, Box 2018, Wichita 1, Kansas, 10 (NEDA)
Tel: HO 4-8185
Koenig Sales, 6359 Antioch Ave., Merriam, Kans., 15 (REP)
Tel: HEdrick 2-3166
R. & A. Dist. Co., 805 State Ave., Kansas City, Kans., 10 (NEDA)
Radio Supply Co., Inc., 115 Laura Ave., Wichita, Kans., 10 (NEDA)
Radio Supply Co. of Salina, 736 N. Sante Fe, Salina, Kans., 10 (NEDA)
Standard Products, Inc., 650 E. Gilbert, Wichita 11, Kansas, 15, 20
Tel: AM 2-1431
Sutten & Co., Fred E., 928 Mass. Ave., Lawrence, Kans., 10 (NEDA)
Terwilliger Sales Co., 7133 W. 80th St., Overland Pk., Kans., 15 (REP)
Tel: NIagara 2-2421
Video Supply, 731 Central Ave., Kansas City 1, Kans., 10 (NEDA)
Zimmer Sales, 5602 Woodward, Merriam, Kans., 15 (REP)
Tel: HEdrick 2-1121

KENTUCKY

Arcby Electronics, 540 E. Gray St., Louisville 2, Ky., 10 (NEDA)
Ashland Radio Supply Co., 2125 Winchester Ave., Ashland, Ky., 10 (NEDA)
Cobb Sales Co., 1629 Portland Ave., Louisville 3, Ky., 15 (REP)
Tel: JUniper 3-9406
Crescent Radio Supply, 1809 Normal Blvd., Bowling Green, Ky., 10 (NEDA)
Peerless Electronic Equip. Co., 2210 S. 7th St., Louisville 8, Ky., 10 (NEDA)
Radio Equip. Co., Inc., 480 Skain Ave., Lexington 34, Ky., 10 (NEDA)
Randolph & Hale, Inc., 729 East Fourteenth St., Hopkinsville, Kentucky, 10 (NEDA)
Saville Ra Tele Nics Labs., 1125 Russell St., Covington, Ky., 5
Southern Distributors, 3802 Lexington Rd., St. Matthews, Ky., 10 (NEDA)
Warren Radio Co., 455 S. 31st St., Paducah, Kentucky, 10 (NEDA)

LOUISIANA

Bell Radio Supply Co., 2627 Tulane Ave., New Orleans, La., 10 (NEDA)
Central Radio Supply, P.O. Box 1688, 601 N. 3rd St., Alexandria, La., 10 (NEDA)
Columbia Radio & Supply Co., Box 13127, New Orleans 13, La., 10 (NEDA)
Crescent Radio & Supply, Inc., 1600 Baronne St., New Orleans 13, La., 10 (NEDA)
Electronics Parts Corp., 223-225 N. Broad St., New Orleans 19, La., 10 (NEDA)
Hale & McNeil, P.O. Box 23, 421 Walnut St., Monroe, La., 10 (NEDA)
Koelemay Sales Co., Inc., 2530 Linwood Ave., Shreveport, La., 10 (NEDA)
Lafayette Radio Equip., Inc., 1023 Simcoe St., Lafayette, La., 10 (NEDA)
Opelousas Radio Equip. Co., 240 N. Ct. St., Opelousas, La., 10 (NEDA)
Ports Electronics Parts Co., 309 Airport Drive, Shreveport, La., 10 (NEDA)
Ralph's Radio Electronic Supply, 3004 Cameron St., Lafayette, La., 10 (NEDA)
Southern Radio Supply Co., 1900 Tulane Ave., New Orleans 16, La., 10 (NEDA)
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Maine Electronic Supply Corp., 494 Broadway, Bangor, Maine, 10 (NEDA)
Maine Electronic Supply Corp., 148 Anderson St., Portland, Maine, 10 (NEDA)
Powell Radio Supply, 115 Water St., Hallowell, Maine, 10 (NEDA)
Radio Supply Co., Inc., 26 Cross St., Auburn, Maine, 10 (NEDA)

MARYLAND

American Dist. Co., 1200 N. Fulton Ave., Baltimore 17, Md., 10 (NEDA)
Barnhill & Associates, R. B., 19 W. Pennsylvania Ave., P.O. Box 6892, Towson 4, Md., 15 (REP)
Tel: VAlley 5-3431
Berman Co., Inc., Henry O., 10-12 E. Lombard St., Baltimore 2, Md., 10 (NEDA)
Daniels, Inc., P.O. Box 6864, Balto 4, Md., 15
Tel: PLaza 2-7694
Edgerly Instrument Labs., Inc., 2022 St. Paul St., Baltimore 18, Md., 20
Tel: BElmont 5-5198
Hoffman & Co., Inc., H. L., 310 E. 25th St., Baltimore 18, Maryland, 15, 20
Tel: BE 5-8073
Horman Associates, Inc., 941 Rollins Ave., Rockville, Md., 15, 20
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J-H Electronic Sales Co., 7101 Copeleigh Rd., Baltimore 12, Md., 15 (REP)
Tel: VAlley 5-4441
Kann-Ellert Electronics, Inc., 9 S. Howard St., Baltimore 1, Md., 10 (NEDA)
Lee Associates, Inc., S. S., 2419 Old Frederick Rd., Baltimore 28, Md., 15
Tel: RIdgeway 7-6677
Lienau & Co., Chas. W., 9427 Georgia Ave., Silver Spring, Md., 15 (REP)
Tel: JUniper 7-5888
Olin Electronics Supply, 6009 Eastern Ave., Baltimore 24, Md., 10 (NEDA)
Radio Electric Service Co., 5 N. Howard St., Baltimore 1, Md., 10 (NEDA)
Rosen & Associates, Inc., Gene, 4402 Bayne St., Rockville, Md., 15 (REP)
Tel: WHitehall 6-6769
Spartona Co., Inc., A. R., 239 N. Gay St., Baltimore, Md., 10 (NEDA)
Stoddard Supply Co., 354 S. Cannon Ave., Hagerstown, Md., 10 (NEDA)
Taylor Co., Morris F., 9431 Georgia Ave., (P.O. Box 111), Silver Spring, Md., 15 (REP)
Tel: JUniper 9-4002
Wholesale Radio Parts Co., Inc., 308 W. Redwood St., Baltimore 1, Md., 10 (NEDA)
Wilkinson, Inc., Rob't. L., 9707 Stevenson Lane, Towson 4, Md., 15 (REP)
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Zimmerman Wholesalers, 162 Bedford St., Cumberland, Md., 10 (NEDA)

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Tel: CApitol 7-2980
Automation & Electronics, 25 A Grant St., Waltham 54, Mass., 10, 25
Tel: TWinbrook 3-7000
Boeing, John E., P.O. Box 235, Lexington 73, Mass., 15 (REP)
Tel: VOlunteer 2-2500
Bridge, Ray, 100 Memorial Dr., Cambridge 42, Mass., 15 (REP)
Tel: UNiversity 4-3696
Brown, Cyril H., 48 Pearl St., Brookline 46, Mass., 15 (REP)
Tel: BEacon 2-4804
Brown, Kenneth L., 54 Atherton Rd., Brookline 54, Mass., 15 (REP)
Tel: BEacon 2-3969
C & I Distributors, Inc., 228 Pleasant St., Northampton, Mass., 10 (NEDA)
Chamberlin, Harold A., Civilian Air Terminal, Bedford Airport, Bedford, Mass., 15 (REP)
Tel: CRestview 4-0044
Coakley, Inc., Tim, 148 Needham St., Newton Highlands 61, Mass., 15 (REP)
Tel: DEcatur 2-4800
Cramer Electronics, Inc., 811 Boylston St., Boston 16, Mass., 10 (NEDA)
Cushing, Inc., T. F., 349 Worthington St., Springfield, Mass., 10 (NEDA)
DeMambro Radio Supply Co., 1095 Commonwealth Ave., Boston 15, Mass., 10 (NEDA)
DeVeer, Robert L., 1492 Highland Ave., Needham 92, Mass., 15 (REP)
Tel: TR 6-5101
Drew, Donald B., P.O. Box 467, Bedford, Mass., 15 (REP)
Tel: CRestview 4-7232
Durrell Distributors, 222 Mystic Ave., Medford, Mass., 10 (NEDA)
Eastern Electronic Sales Co., 145 University Rd., Brookline, Mass., 15 (REP)
Tel: ASpinwall 7-5675
Electrical Supply Corp., 205 Alewife Brook Pkwy., Cambridge 38, Mass., 10 (NEDA)
Tel: UNiversity 4-6300
Friedman Assoc., M. W., 98 Osborne Path, Newton Ctre 59, Mass, 15
Tel: BIgelow 4-9794
Gerber Radio Supply Co., 1900 Columbus Ave., Boston 19, Mass., 10 (NEDA)
Gerber Sales Co., Inc., 48 Pearl St., Brookline 47, Mass., 15 (REP)
Tel: BEacon 2-2425
Goss Co., Jack, 99 Highland Ave., Somerville 43, Mass., 15 (REP)
Tel: PRospect 6-2262
Gray, Robert W., 572 Washington St., Wellesley 81, Mass., 15 (REP)
Tel: CEdar 5-5296
Greene Organization, Inc., Dan, P. O. Box 124, Cambridge 38, Mass., 15 (REP)
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Tel: UNiversity 4-2220
Hankins Co., Donald T., 161 Massachusets Ave., Boston 15, Mass., 15
Harvey Radio Labs., Inc., 447 Concord Ave., Cambridge 38, Mass., 10, 20
Hathaway Electronics, Inc., Glenn M., 238 Main St., Cambridge 42, Mass., 15 (REP)
Tel: KIrkland 7-0380
Hooker, Samuel C., 397 Highland Ave., Winchester, Mass., 15 (REP)
Tel: WInchester 6-2745
Hubert, Alexander, P.O. Box 143, Brookline 46, Mass., 15
Tel: ASpinwall 7-2467

Iowa
Kansas
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Lake Service Corp., 89 Brighton Ave., Boston 34, Mass., 20
Tel: STadium 2-5868
Marean, Browning E., Jr., 10 High St., Boston, Mass., 15 (REP)
Tel: HA 6-0541
Mayer Co., A. W., 895 Boylston St., Boston 15, Mass., 10 (NEDA)
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Tel: FAirview 3-1008

Peyser, Joseph J., 945 Great Plain Ave., Needham 92, Mass., 15 (REP)
Tel: HIllcrest 4-1400

Pilgrim Electronics Supply Co., 26-30 School St., Quincy, Mass., 10 (NEDA)

Pray Sales, W. B., 44 Washington St., Wellesley Hills 81, Mass., 15 (REP)
Tel: CE 5-3199

Purinton, Inc., Richard, 11 Muzzey St., Lexington 73, Mass., 15 (REP)
Tel: VOlunteer 2-8300

Radio Maintenance Supply Co., 80 Thomas St., Worcester 8, Mass., 10 (NEDA)

Reynolds, Harrison, 97 Locksley Rd., Lynnfield, Mass., 15 (REP)
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Rodgers Associates, Chapin Rd., Hampden, Mass., 15 (REP)
Tel: REpublic 3-8428

Saunders & Co., 66 Westland Rd., Weston 93, Mass., 15 (REP)
Tel: TWinbrook 4-6071

Scott Co., Michael, 90 Edmunds Rd., Wellesley Hills 81, Mass., 15 (REP)
Tel: CEdar 5-0102

Segel Co., Charles, 1262 Commonwealth Ave., Boston 34, Mass., 15 (REP)
Tel: BEacon 2-4334

Segel Co., Inc., Henry P., 386 Washington St., Brookline 46, Mass., 15 (REP)
Tel: BEacon 2-7525

Smith & Purdy Assocs., 21 Kearney Rd., Needham Hts., 94, Mass.
Tel: HIllcrest 4-7405

Soundco Electronic Supply Co., 147 Dwight St., Springfield 3, Mass., 10 (NEDA)

Stevens & Co., K. C., 235 Bedford St., Lexington 73, Mass., 15 (REP)
Tel: VOlunteer 2-1812

Sturgeon, Inc., Paul R., 25 Huntington Ave., Boston 16, Mass., 15 (REP)
Tel: COmmonwealth 6-7705

Sydlee Electronic Supply Co., 453 Worthington St., Springfield, Mass., 10 (NEDA)

Ware Radio Supply Co., 913 Centre St., Brockton 11, Mass., 10 (NEDA)

Waters & Drew, Inc., P.O. Box 467, Bedford, Mass., 15
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White Sales Co., Inc., 945 Great Plain Ave., Needham 92, Mass., 15 (REP)
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Willson Sales Co., 60 Beach St., Marblehead, Mass., 15 (REP)
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Young & Young of Springfield, Inc., 169 Spring St., Springfield 5, Mass., 10
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Angel, Emil, 5770 Artesian, Detroit, Mich., 15 (REP)
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Beitel Co., Wayne, 13209 Fenkell, Detroit 27, Mich., 15 (REP)
Tel: VErmont 8-9100

Burcaw & Co., K. C., Suite 207, 22128 Grand River Ave., Detroit 19, Mich., 15 (REP)
Tel: KEnwood 3-7700-1

Butchart Co., Rod, 11327 Stockwell, Detroit 24, Mich., 15 (REP)
Tel: LAkeview 6-6551

Eldredge, Elton M., 18230 Grand River Ave., Detroit 23, Mich., 15
Tel: VErmont 6-4191

Electric Products Sales Co., 427 E. Mich. Ave., Lansing 29, Mich., 10 (NEDA)

Electro-Mec Associates, 4012 E. 9 Mile Rd., Hazel Pk., Michigan, 15, 20
Tel: JE 6-4040

Electronic Supply Co., of Pontiac, 248 E. Pike St., Pontiac, Mich., 10 (NEDA)

Electronic Supply Corp., P.O. Box 430, Battle Creek, Mich., 10 (NEDA)

Erickson's Electronic Wholesale, Inc., 1201 Woodward Heights, Ferndale 20, Mich., 10 (NEDA)

F. G. S. Electronics Supply Co., Inc., 1142 S. Gratiot, Mt. Clemens, Mich., 10 (NEDA)

Ferguson Electronic Supply Co., 2306 Puritan Ave., Detroit 38, Mich., 10 (NEDA)

Fulton Radio Supply Co., 1208 Greenwood Ave., Jackson, Mich., 10 (NEDA)

Glendale Electronic Supply Co., 12866 Woodward Ave., Detroit 3, Mich., 10 (NEDA)

Henschen, Jensen and Co., 2842 W. Grand Blvd., Detroit 2, Mich., 15 (REP)
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K. L. A. Labs., Inc., 7422 Woodward Ave., Detroit 2, Mich., 10 (NEDA)

Koehler Pasmore Co., 11833 Hamilton Ave., Detroit 3, Mich., 15 (REP)
Tel: TOwnsend 8-3322

Kurtz Co., Paul, 17181 Appoline Ave., Detroit 35, Mich., 15 (REP)
Tel: UN 4-8957

Lee Co., William S., 13215 Fenkell Ave., Detroit 27, Mich., 15 (REP)
Tel. BRoadway 2-0606

Liddle, Edwin F., 18925 Grand River Ave., Detroit 23, Mich., 15 (REP)
Tel: VErmont 7-5310

Lifsey Dist. Co., 1409 N. Saginaw, Flint 3, Mich., 10 (NEDA)

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Tel: UNiversity 2-9465

Matteson Electronics, Inc., 1617 E. Mich. Ave., Jackson, Mich., 10 NEDA)

Merchant & Co., Inc., R. C., 18411 W. McNichols, Detroit 19, Mich., 15 (REP)
Tel: KEnwood 5-6000

Milsk Co., Robert, 19371 James Couzens Highway, Detroit 35, Mich., 15 (REP)
Tel: BRoadway 3-3652-3

Morrow Sales, Jim, 85 Louise Ave., Highland Park, Mich., 15
Tel: TOwnsend 8-0649

Nordstrom & Co., R. C., 580 N. Woodward Ave., Birmingham, Mich., 15 (REP)
Tel: MIdwest 4-1110

Nor-West TV & Radio Supply Co., 20926 Schoolcraft, Detroit, Mich., 10 (NEDA)

Offenhauer Co., 227 W. Westenaw, Lansing 25, Mich., 10 (NEDA)

Orem Dist. Co., 401 S. Franklin St., Saginaw, Mich., 10 (NEDA)

Radio Electronics Supply, 505 Jefferson, S.E., Grand Rapids, Mich., 10 (NEDA)

Radio Parts Co., 803 S. Wash., St., Saginaw, Mich., 10 (NEDA)

Radio Specialties Co., Inc., 456 Charlotte Ave., Detroit 1, Mich., 10 (NEDA)

Radio Supply & Eng. Co., Inc., 90 Selden, Detroit 1, Mich., 10 (NEDA)
Tel: TE 1-3175

Rathsburg Associates, Jack, 4140 Van Dyke Ave., Detroit 14, Mich., 15 (REP)
Tel: WAlnut 1-3932

Reno Radio Co., 1314 Broadway, Detroit 26, Mich., 10, 20
Tel: WO 2-6851

Rubin, Ben Z., 16222 Cheyenne Ave., Detroit 35, Mich., 15
Tel: UNiversity 4-4958

Shaffer Co., Grant, 14241 Fenkell Ave., Detroit, Mich., 15 (REP)
Tel: BRoadway 3-5390

Shalco., 23525 Woodward Ave., Ferndale 20, Mich., 15 (REP)
Tel: LI 7-4771-2

Shand Radio Specialties, 2608 Leith St., Flint 6, Mich., 10 (NEDA)

Spenser Co., Willard, 20158 Santa Rose Dr., Detroit 21, Mich., 15
Tel: UN 3-5189

Straits Dist., Inc., 412 N. Main St., Cheboygan, Mich., 10 (NEDA)

Thorpe, Jack M., 640 Hidden Lane, Detroit 36, Mich., 15 (REP)
Tel: TUxedo 4-4360

Warren Radio Co., 93 W. Bidwell St., Battle Creek, Mich., 10 (NEDA)

Warren Radio Co., 713 Portage St., Kalamazoo, Mich., 10 (NEDA)

Wedemeyer Electronic Supply Co., 213-217 N. 4th Ave., Ann Arbor, Mich., 10 (NEDA)

Zaffina Co., Lawrence F., 7351 Gratiot Ave., Detroit 13, Mich., 15 (REP)
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MINNESOTA

Bartleson Co., Bill, 330 Oak Grove, Suite 502 Minneapolis 3, Minn., 15 (REP)
Tel: FEderal 3-6709

Bauman Co., 3033-35 Lyndale Ave., So., Minneapolis 8, Minn., 10 (NEDA)

Crossley Associates, Inc., 842 Raymond Ave., St. Paul 14, Minn., 15, 20
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Foster, Melville E., 2402 Hennepin Ave., Minneapolis 5, Minn., 15 (REP)
Tel: FRanklin 4-2612
Franklin Co., Merrill, 338 E. Franklin Ave., Minneapolis 4, Minn., 15 (REP)
Tel: FEderal 6-2315
Gibb Co., Clark R., 2400 Hennepin Ave., Minneapolis 5, Minn., 15 (REP)
Tel. FRanklin 7-1200
Hagestad & Associates, E. O., 1717 The Mall, Minneapolis 8, Minn., 15 (REP)
Tel: TAylor 4-4835
Hamilton & Co., Inc., Don V., 3359 Republic Ave., Minneapolis 26, Minn., 15 (REP)
Tel: WEst 9-7891
Heyda Co., Bonament, 6101 Auto Club Road, Minneapolis 20, Minn., 15 (REP)
Tel: TUxedo 1-9166
Hoffman, Edward, 216 Liberty Bank Bldg., St. Paul 4, Minn., 15 (REP)
Tel: MIdway 4-1244
Kirkeby, Marvin H., 1300 France Ave. S., Minneapolis 16, Minn., 15 (REP)
Tel: FRanklin 7-3239
Laub Co., Nick J., 3749 W. Broadway, Minneapolis 22, Minn., 15 (REP)
Tel: JUniper 8-4663
Marshall Co., Robert W., 6106 Excelsior Blvd., Minneapolis 16, Minn., 15
Tel: WEst 9-6444
Northern States Sales Co., 1400 Park Ave., Minneapolis 4, Minn., 15 (REP)
Tel: FEderal 6-4808
Northwest Radio, 123 E. 1st St., Duluth 2, Minn., 10 (NEDA)
Northwest Radio & Electronics Supply Co., 52 S. 12th St., Minneapolis, Minn., 10 (NEDA)
Richardson & Co., Inc., H. M., 9 East 22nd St., Minneapolis 4, Minn., 15 (REP)
Tel: FEderal 6-4078
Ripley, Ray, 6937 Penn Ave. S., Minneapolis 23, Minn., 15 (REP)
Tel: UNion 6-8682
Stark Radio Supply Co., 71 S. 12th St., Minneapolis 3, Minn., 10 (NEDA)
Warner Co., A. J., 5022 29th Ave. S., Minneapolis 17, Minn., 15 (REP)
Tel: PArkway 9-7371

MISSISSIPPI

Ellington Radio, Inc., 824 S. Gallatin, Jackson, Miss., 10 (NEDA)
May & Jackson Dist., 628 S. State, Jackson, Miss., 10 (NEDA)
Parham Electronics Co., 511 Lamar St., Greenwood, Miss., 10 (NEDA)
Parham & Pate Co., Hi-Way 45, S., Tupelo, Miss., 10 (NEDA)
Swan Dist. Co., Inc., 342 N. Gallatin St., Jackson, Miss., 10 (NEDA)

100. Distribution.

5. Export & import
10. Jobbers & wholesalers
15. Manufacturers representatives
20. Sales & service
25. Surplus dealers

MISSOURI

Acme Radio Supply, 829 S. 10th St., St. Joseph 7, Mo., 10 (NEDA)
Ashe Radio Co., Walter, 1125 Pine St., St. Louis, Mo., 10 (NEDA)
Associated Electronics Supply Co., 5423 Troost Ave., Kansas City, Mo., 10
Bettis Co., Maury E., 406 W. 34th St., Kansas City 11, Mo., 15 (REP)
Tel: JAckson 3-3005
Brotherson Co., M., 515 N. Byers Ave., Joplin, Mo., 10 (NEDA)
Brown Radio Co., Tom, 3924 Washington Ave., St. Louis, Mo., 10 (NEDA)
Burstein-Applebee, 10 McGee St., Kansas City 6, Mo., 10 (NEDA)
Central Missouri Dist. Co., 324 E. Capitol St., Jefferson City, Mo., 10 (NEDA)
Clemenson-Larrabee Co., 436 E. 79th St., Kansas City 10, Mo., 15 (REP)
Tel: JAckson 3-3005
Collins-Havercamp Associates, 6857 N. Main St., Kansas City 16, Mo., 15 (REP)
Tel: GLadstone 3-4497
Crown Electronic Distributors, Inc., 2300 No. Union Blvd., St. Louis, Mo., 10 (NEDA)
Ebinger Electronics, Inc., 2501-03 S. Jefferson, St. Louis, Mo., 10 (NEDA)
Elliott Co., Arthur K., Kansas City 11, Mo., 15 (REP)
Tel: LOgan 1-9594
Farris Co., Inc., R. W., 406 W. 34th St., Kansas City 11, Mo., 15 (REP)
Tel: LOgan 1-7495
Fixman Engineering Co., Gordon, 3160 Stanford Ave., St. Louis 24, Mo., 15
Tel: PArkview 5-5219
Florence Co., L. F., 406 W. 34th St., Kansas City 11, Mo., 15 (REP)
Tel: LOgan 1-7282
Forristal-Young Sales Co., 4053 Broadway, Kansas City 11, Mo., 15 (REP)
Tel: VAlentine 1-5330
Forristal-Young Sales Co., 8147 Delmar St., St. Louis 24, Mo., 15 (REP)
Tel: PArkview 5-7701
Four-State Radio & Supply Co., 402 Wall St., Joplin, Mo., 10 (NEDA)
Fry & Co., Inc., W. E., 406 W. 34th St., Kansas City 11, Mo., 15 (REP)
Tel: JEfferson 1-5236
Gordon Co., J. C., 453 De Baliviere Ave., St. Louis 9, Mo., 10 (NEDA)
Harris-Hanson Co., 2814 S. Brentwood Blvd., St. Louis 17, Mo., 15, 20
Henshaw Radio Supply, 3617-19 Troost, Kansas City, Mo., 10 (NEDA)
Interstate Supply Co., 4445 Gustine Ave., St. Louis 16, Mo., 10 (NEDA)
Kathrinus & Co., Norman W., 4356 Duncan Ave., St. Louis 10, Mo., 15 (REP)
Tel: OLiver 2-7005
Kay Sales Co., 2600 Grand Ave., Kansas City 8, Mo., 15 (REP)
Tel: BAltimore 1-3800-01-02-03
Kelly Co., William G., 5934 Prospect, Kansas City 30, Mo., 15 (REP)
Tel: HIland 4-2013
Kelly Sales Co., Jack, 972 N. Geyer Rd., Kirkwood 22, Mo., 15 (REP)
Tel: TAylor 2-1791
Leemark Associates, P.O. Box 8467, Kansas City 15, Mo., 15
Lowell, Theodore B., P.O. Box 21, Normandy Branch, St. Louis 22, Mo., 15 (REP)
Tel: EVergreen 5-7803
Manhatten Radio & Equip., Inc., 2538 Grand Ave., Kansas City, Mo., 10 (NEDA)
Maynard, Lee, 139 N. Central Ave., Clayton 5, Mo., 15 (REP)
Tel. PArkview 5-3723
McDowell-Redingschafer Sales Co., 1103 E. Armour, Kansas City, Mo., 15 (REP)
Tel: VE 1-5622
McGrade Co., E. W., P.O. Box 8876, Prairie Village Sta., Kansas City 15, Mo., 15 (REP)
Tel: RAndolph 2-0758
Myers, Zell S., 4538 Main St., Kansas City 11, Mo., 15 (REP)
Tel: JEfferson 1-7221
Radio & Television Supply, Inc., 810 W. 16th St., Sedalia, Mo., 10 (NEDA)
Radio Supply Co., of Kansas City, 3627 S. Main, Kansas City, Mo., 10 (NEDA)
Radiolab, 1612 Grand Ave., Kansas City, Mo., 10 (NEDA)
Radonics, 5440 Easton Ave., St. Louis 13, Mo., 10 (NEDA)
Reed Radio & Supply Co., Harry, Main Post Office, Box 149, Springfield, Mo., 10 (NEDA)
Robertson Dist. Co., 614 Mulberry St., Jefferson City, Mo., 10 (NEDA)
Roes, Herbert A., 2601 Cherry, Kansas City 8, Mo., 15 (REP)
Tel: BAltimore 1-0866
Roes, H. Courtney H., 2601 Cherry, Kansas City 8, Mo., 15 (REP)
Tel: BAltimore 1-0866
St. Joseph Radio & Supply Co., 720 S. 9th St., St. Louis 54, Mo., 10 (NEDA)
Sebright & Co., Russ D., 7120 W. Florissant, St. Louis 20, Mo., 15 (REP)
Tel: COlfax 1-0055
Schmitz Co J. O., 406 S. 34th St., Kansas City, Mo., 15 (REP)
Tel: LOgan 1-9824
Scholz Co., Paul G., 8402 Longview Rd., Hickman Mills 34, Mo., 15 (REP)
Tel: SOuth 1-6757
Schryver Sales Co., Clyde H., 8702 Norwood Dr., Kansas City 15, Mo., 15 (REP)
Tel: MItchell 9-8075

Somers & Co., F. C., Grand Ave., Bank Bldg., Kansas City 8, Mo., 15 (REP)
Tel: GRand 1-1355
Suedekum Electronic Supply Co., 2215 Broadway, P.O. Box 221, Cape Girardeau, Mo., 10 (NEDA)
Thibau Co., A. R., 210 W. 8th St., Kansas City, Mo., 15 (REP)
Tel: VIctor 2-7057
Tri-State Electronics, Inc., P.O. Box 218, Poplar Bluff, Mo., 10 (NEDA)
Van Sickle Radio Co., 1113 Pine St., St. Louis 1, Mo., 10 (NEDA)
Vignaola, Carmine A., P.O. Box 569, Jefferson City, Mo., 15 (REP)
Tel: 5-1023
Walters Radio Supply, 3645 Main, Kansas City, Mo., 10 (NEDA)
Winkeler & Associates, H. F., 3938 Lindell Blvd., St. Louis, Mo., 15 (REP)
Tel: OLiver 2-6455

NEBRASKA

Central Radio Supply, 518 W. 1st St., Hastings, Neb., 10 (NEDA)
General Radio & TV Co., 322 S. 12th Ave., Lincoln, Neb., 10 (NEDA)
Hicks Radio Co., 1422 O St., Lincoln 8, Neb., 10 (NEDA)
J-B Dist. Co., 1616 Cass St., Omaha 2, Neb., 10 (NEDA)
Leuck Radio Supply, 243 S. 11th St., Lincoln, Neb., 10 (NEDA)
Omaha Appliance Co., 2222 Leavenworth, Omaha, Neb., 10 (NEDA)
Radio Equip. Co., 2852 Douglas St., Omaha 2, Neb., 10 (NEDA)
Scott Electronic Supply Corp., 2201 O St., Lincoln, Neb., 10 (NEDA)
Sidles Co., 7302 Pacific, Omaha, Neb., 10 (NEDA)

NEVADA

Radio & Sound Supply, 25 E. California St., Las Vegas, Nevada, 10 (NEDA)

NEW HAMPSHIRE

Evans Radio, P.O. Box 312, Concord, N.H., 10 (NEDA)

NEW JERSEY

Allen & Hurley, 23 So. Warren St., Trenton 10, N.J., 5, 10
Tel: EX 3-0386
Bancroft & Co., H. S., 209 Cooper St., Westmont, Collingswood 7, N.J., 15
Tel: COllingswood 5-5215
Banfield Associates, Carroll S., P.O. Box 292, Rutherford, N.J., 15
Tel: WEbster 9-6784
Barker Sales Co., 339 So. Broad Ave., Ridgefield, N.J., 5
Tel: WHitney 3-2477-8
Bay Electronics Dist. Co., Inc., 226 Talmadge St., New Brunswick, N.J., 10 (NEDA)
Boenecke Associates, 638 Penn St., Camden 2, N.J., 15 (REP)
Tel: WOodlawn 4-8650
Border & Co., Barrett, 121 Oak St., Tenafly, N.J., 15 (REP)
Tel: LOwell 8-2354
Braddock, Edward, P.O. Box 305, Haddonfield, N.J., 15
Tel: HAzel 9-0087
Brennan, F. X., 180 Glenridge Ave., Montclair, N.J., 15 (REP)
Tel: PIlgrim 6-4640
Bressler, Jules J., 4808 Bergenline Ave., Union City, N.J., 15 (REP)
Tel: UNion 4-9577
Cerf & Co., Art, 744 Broad St., Newark 2, N.J., 15 (REP)
Tel: MItchell 2-6735
Columbia Dist., Inc., Columbia Heights, Columbia, N.J., 10 (NEDA)
Dealers Electronics Co., Inc., 817-13th St., Union City, N.J., 10 (NEDA)
Dixon, Samuel A., 208 Russell Ave., Barrington, N.J., 15 (REP)
Tel: LIncoln 7-7388
Eastern Radio Corp., 1074 Main Ave., Clifton, N.J., 10 (NEDA)
Electronic Enterprises, Inc., 65-67 7th Ave., Newark 4, N.J., 10
Tel: HUmboldt 2-0630
Electronic Marketers, Inc., 25-27 Hoyt St., Newark 4, N.J., 10 (NEDA)
Federated Purchaser Corp., 114 Hudson St., Newark 3, N.J., 10
Tel: MArket 4-3915
Federated Purchaser, Inc., 1021 U. S. Rte. 22, Mountainside, N.J., 5, 10
Tel: WEstfield 2-7200
Fields Sales Co., Jack, 303 Claremont Ave., Montclair, N.J., 15 (REP)
Tel: PIlgrim 6-6717
Fineburg's Wholesale Dist., 750 Dowd Ave., Elizabeth, N.J., 10 (NEDA)
Finlay, Robert, 307 Lincoln Bldg., Ridgewood, N.J., 15 (REP)
Tel: OLiver 2-0088
Foley Associates, Andrew A., P.O. Box 155, Moorestown, N.J., 15 (REP)
Tel: NOrmandy 3-4545
Galasso, David P., 921 Bergen Ave., Jersey City, N.J., 15 (REP)
Tel: OLdfield 9-7277
Garten & Assoc., Louis A., 645 Eagle Roch Ave., W. Orange, N.J., 15
Tel: REdwood 1-1800
Gawler-Knoop Co., 178 Eagle Rock Ave., Roseland, N.J., 15
Tel: CApital 6-4545
Gentry, Richard L., 15 Park Ave., Rutherford, N.J., 15 (REP)
Tel: GEneva 8-4200
Hallmark Electronic Corp., 85 Monticello Ave., Jersey City, N.J., 10 (NEDA)
Hinck Sales Co., Edwin B., 270 N. Mountain Ave., Upper Montclair, N.J., 15 (REP)
Tel: PIlgrim 4-3134
Holliday-Hathaway Co., Inc., 9 Lincoln Ave., Rutherford, N.J.
Tel: WE 9-7217
Houser Associates, 188 Water St., Perth Amboy, N.J., 15
Tel: Hillcrest 2-3159
Hughes Co., Kenneth E., 4808 Bergenline Ave., Union City, N.J., 15 (REP)
See ad on this page
Tel: UNion 7-3204
In New York, OXford 5-0082
Instrument Masters, Inc., Hamburg Turnpike, Riverdale, N.J., 10, 20
Tel: TErhune 5-3739
International Dist. Co., 185 Central Ave., East Orange, N.J., 10 (NEDA)
Jersey Electronic Dist. Co., 524-528 21st Ave., Paterson 3, N.J., 10 (NEDA)

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Directory IV. Materials & Services

Kearns Electronic Products Co., Harrisburg & Atlantic Aves., Atlantic City, N.J., 10 (NEDA)
Keefe Electronic Sales Co., 228 E. Kings Highway, Haddonfield, N.J., 15 (REP)
Tel: HAzel 9-4650
Krich-New Jersey, Inc., 428 Elizabeth Ave., Newark 8, N.J., 10 (NEDA)
L&M Associates, 22-02 Raphael St., Fairlawn, N.J., 15, 20
Tel: FAirlawn 4-7050
Leader Electronics Supply Corp., 72 Prince St., Elizabeth, N.J., 10 (NEDA)
Lippman & Co., Aaron, 99-107 Newark St., Newark 4, N.J., 10 (NEDA)
MacCorkle, Inc., D. S., 1 Newark St., Hoboken, N.J., 15
Tel: OL 6-3802-3
Maguire & Co., J. A., 116 N. 7th St., Camden 2, N.J., 15 (REP)
Tel: WOodlawn 6-3118
Marcy Associates, F. D., 1922 Raymond Commerce, Newark, N.J., 15
Tel: MArket 2-1315
Masters TV Supply Co., 96 N. Caston Ave., Somerville, N.J., 10 (NEDA)
McKeown Co., Inc., Robert, 6 Atlantic St., Newark 2, N.J., 10, 15
Tel: MItchell 2-7600
Miller Co., Harry, The, Red Bank, N.J., 15 (REP)
Tel: SHadyside 1-9300
Moyer Co., Harold A., P.O. Box 14, Haddonfield, N.J., 15 (REP)
Tel: HAzel 9-7792
Muckenfuss, Thomas F., 10 Tanner St., Haddonfield, N.J., 15 (REP)
Tel: HAzel 9-8533
Munsell & Co., Eugene, 34 Exchange Pl., Jersey City 2, N.J., 5
Tel: HE 4-0403
Murray American Corp., 15 Commerce St., Chatham, N.J., 5, 20
Nidisco-Jersey City, Inc., 713 Newark Ave., Jersey City 6, N.J., 10
Tel: OLdfield 3-2360
North, George R., 403 Broadway-Stevens Bldg., Camden, N.J., 15 (REP)
Tel: WOodlawn 4-1181
Production Engineering Corp., 173 Sargeant Ave., Clifton, N.J., 15
Tel: GRegory 3-5161
Pyramid Supply Co., 345 W. Market St., Newark 7, N.J., 10 (NEDA)
Radio Electric Service Co., of N.J., Inc., 513 Cooper St., Camden, N.J., 10 (NEDA)
Ringer Co., R. L., P.O. Box 114, 14 Clen Ave., Glen Rock, N.J., 15
Tel: GIlbert 4-1434
Schwartz, Adolph, 15 Exchange Pl., Jersey City 2, N.J., 15 (REP)
Tel: DElaware 4-2424
Schwartz Co., Mel, 39-16 Tierney Pl., Fair Lawn, N.J., 15
Tel: SWarthmore 7-3435
Sherwood Dist., Inc., 1255 Liberty Ave., Hillside, N.J., 10 (NEDA)

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Shulan & Co., Wally, 880 Bergen Ave., Jersey City 6, N.J., 15 (REP)
Tel: WOrth 2-3560
Snyder Co., Inc., V. A., 2165 Morris Ave., P.O. Box 184, Union, N.J., 15
See ad on this page
Tel: MUrdock 8-6100
Trinkle Sales, 545 Cooper St., Camden 2, N.J., 15 (REP)
Tel: WOodlawn 6-1776
Union Television Parts Co., 403 Watchung Ave., Plainfield, N.J., 10 (NEDA)
Unisco, Inc., 1061 Linden Ave., Ridgefield, N.J., 10, 15
Tel: WHitney 3-3220
Variety Electronics Corp., 1 State St., Bloomfield, N.J., 10
Tel: PI 8-1700
William Radio Supply Co., 265 Woodbridge Ave., New Brunswick, N.J., 10 (NEDA)
Williams and Associates, Victor W., 1100 White Horse Pike, Oaklyn 6, N.J., 15 (REP)
Tel: COllingswood 5-6332
Williams Co., Carl B., 154 S. Main St., Phillipsburg, N.J., 10 (NEDA)

NEW MEXICO

Electronic Parts Co., Inc., 222 Truman St., N.E., Albuquerque, N.M., 10 (NEDA)
Kittleson Co., 210 Cagua Dr. N.E., Box 8306, Albuquerque, N.M., 15
Tel: ALpine 6-6987
Valley Engineering Co., 601 Cedar St., Los Alamos, N.M., 10 (NEDA)

NEW YORK

AAT Service Corp., 68 Winham Ave., Staten Island 6, N.Y., 20
Tel: ELgin 1-1333
Aaron, Paul D., Professional Bldg., Port Washington, N.Y., 15 (REP)
Tel: PORt Washington 7-5670
Adelman Co., Leon L., 25 Chittenden Ave., New York 33, N.Y., 15
See ad on this page
Tel: TOmpkins 7-1145
Adelphi Electronics, Inc., 142 Mineola Blvd., Mineola, N.Y., 10 (NEDA)
Adirondack Radio Supply, 32 Guy Park Ave., Amsterdam, N.Y., 10 (NEDA)



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"Distribution" listings are arranged alphabetically by states. For names and addresses of manufacturing firms, see Alphabetical Directory, pages 141-260.

Adson Radio & Electric Co., 189 Greenwich St., New York 7, N.Y., 10 (NEDA)
Aeroconomy Agency, P.O. Box 1001, Schenectady 1, N.Y., 15, 20
Tel: FRanklin 2-8426
Allen, Inc., Leonard D., 2401 S. State St., Syracuse 5, N.Y., 15 (REP)
Tel: GRanite 8-4195
Allied Plastics Supply Corp., 75 Cliff St., New York 38, N.Y., 5, 10, 15, 20, 25
Tel: BEekman 3-7377
Ama Electronics Corp., 1635 Bedford Ave., Brooklyn 25, N.Y., 10 (NEDA)
American Advancement Corp., 50 Broadway, New York 4, N.Y., 5, 15
Tel: WHitehall 3-1680
American Communications Corp., 280 Broadway, New York City, N.Y., 20
Tel: REctor 2-0319
American Electronics, Inc., 482 St. Paul St., Rochester 10, N.Y., 10 (NEDA)
American Elite, Inc., 48-50 34th St., Long Island City 1, N.Y., 5
Tel: STilwell 6-8913
Arrow Electronics, Inc., 525 Jericho Turnpike, Mineola, L.I., N.Y., 5, 10, 20 (NEDA)
Tel: PIoneer 6-8686
Associated Television Svce. Corp., 86-06 37th Ave., Jackson Hts. 72, N.Y., 20
Tel: IL 8-8800
Atlas Electronics Corp., 1317 1st Ave., New York, N.Y., 10 (NEDA)
B & B Distributors, 222 Fulton St., New York 7, N.Y., 5, 25
Tel: REctor 2-0432
Barry Electronics Corp., 512 Broadway, New York 12, N.Y., 5, 10, 15, 25
See ad on this page
Tel: WAlker 5-7000
Baume-Miller Associates, Inc., 20 Jerusalem Ave., Hicksville, N.Y., 15 (REP)
Tel: OVerbrook 1-2490
Baum, Sydney H., 70-15 Fleet St., Forest Hills 75, N.Y., 15 (REP)
Tel: BOulevard 3-8101
Bay Electronic Corp., 3480 Nostrand Ave., Brooklyn, N.Y., 10 (NEDA)
Bay Electronics Dist., Inc., 1736 Jerome Ave., Bronx 53, N.Y., 10 (NEDA)
Benray Electronics Corp., 485 Coney Island Ave., Brooklyn 18, N.Y., 10 (NEDA)
Berger Electronics Supply, 241 Bloomfield Ave., Bloomfield, N.Y., 10 (NEDA)
Berndt Radio Co., W. E., 655 S. Warren St., Syracuse, N.Y., 10 (NEDA)
Bettan Sales, Marty, 167-16 73rd Ave., Flushing 66, N.Y., 15
Tel: OLympia 7-6659
Bittan Co., D. R., 104 So. Central Ave., Valley Stream, L.I., N.Y., 5, 15 (REP)
See ad on this page
Tel: LOcust 1-2444
Blair Sales Co., 45 So. Broadway, Yonkers, N.Y., 15
See ad on page 607
Tel: YOnkers 3-0150
Boro Electronics, Inc., 69-18 Roosevelt Ave., Woodside 77, N.Y., 10 (NEDA)
Breuer, R. E., 10 Columbus Circle, New York, N.Y., 15 (REP)
Tel: COlumbus 5-0440
British Electronic Sales Co., Inc., Oakland Gardens, Flushing 64, N.Y., 5, 15
Tel: MU 2-5844
British Industries Corp., 80 Shore Rd., Port Washington, N.Y., 5, 15
Tel: PO 7-7700
Bronx Wholesale Radio, 472 E. Fordham Rd., Bronx 58, N.Y., 10 (NEDA)
Brown Associates, Jack, 207 Rosedale Rd., Yonkers, N.Y., 15 (REP)
Tel: SPencer 9-7330
Brown Co., Irv, 1500 Carroll St., Brooklyn 13, N.Y., 15 (REP)
Tel: HYacinth 3-1379
Buchman Radio Co., 492 Atlantic Ave., Brooklyn 17, N.Y., 10 (NEDA)
Burlingame Associates, Ltd., 510 So. Fulton Ave., Mt. Vernon, N.Y., 15
Tel: MOunt Vernon 4-7530
CBS International, 485 Madison Ave., New York 22, N.Y., 5
Tel: PLaza 1-2345
Calvert Electronics, Inc., 536 Broadway, New York 12, N.Y., 5, 10, 25
Tel: CAnal 6-7400
Camber, Marty, 1700 York Ave., New York 28, N.Y., 15 (REP)
Tel: ENdicott 9-4222
Carduner Sales Corp., 80 Shore Rd., Port Washington, N.Y., 15 (REP)
Tel: POrt Washington 7-7700
Case Electronic Supply Co., Inc., 82 St. Paul St., Rochester 4, N.Y., 10
Chanrose Electronics, Inc., 170-16 Jamaica Ave., Jamaica 32, N.Y., 10
Tel: OLympia 8-2900
Chanrose Radio Electronics, Inc., 160-16 Famica Ave., Jamaica 3, N.Y., 10 (NEDA)
Chester Cable Corp., Oakland Ave., Chester, N.Y., 15
Tel: HO 9-2141
Colvern Limited c/o British Radio, 80 Shore Rd., Port Washington, L.I., N.Y., 15
Tel: PO 7-7700
Components Sales Corp., 218 E. Hartsdale Ave., Hartsdale, N.Y., 15
See ad on page 607
Tel: SCarsdale 5-1050
Cooper-Di Blasi, 90 Main St., Port Washington, N.Y., 15 (REP)
Tel: POrt Washington 7-0470
Cooper-Simon & Co., 400 E. 79th St., New York, N.Y., 15 (REP)
Tel: LE 5-2900
Cosmic Instruments, Inc., 50 Broadway, New York 4, N.Y., 5, 15
Tel: BOwling Green 9-4048
Coronet Electronic, Inc., 120 Liberty St., New York 6, N.Y., 10
Tel: COrtlandt 7-3760
Dalis, Inc., H. L., 35-35 24th St., Long Island City 6, N.Y., 10
Tel: EMpire 1-1100
Dana-Beach Co., 101 Park Ave., New York 17, N.Y., 15, 20
Tel: MUrray Hill 5-1776-7-8
Davis Electronics Corp., 204 Main St., Hempstead, N.Y., 10 (NEDA)
Delsam Radio-TV, 2665 Grand Concourse, New York 68, N.Y., 20
Tel: CYpress 8-3657
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Tel: WAlker 5-2366
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Ericsson Corp., 100 Park Ave., New York 17, N.Y., 5, 15
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Graybar Electric Co., Inc., 420 Lexington Ave., New York 17, N.Y., 10
Tel: LExington 2-4000 Ext. 281

Green Tele-Radio Dist., Inc., 472 Sutter Ave., Brooklyn 7, N.Y., 10
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Greenberg Associates, Jerry, 1193 E. Broadway, Hewlett, L.I., N.Y., 15 (REP)
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Greenwich Sales Co., 59 Cortlandt St., New York 7, N.Y., 10, 25
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Hi-C Radio Electronics, Inc., 109 State St., Rochester 4, N.Y., 10 (NEDA)

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Hub Electronics Corp., 249 Tarrytown Rd., White Plains, N.Y., 10
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Hughes Co., Kenneth E., P.O. Box 54, Fayetteville, N.Y., 15 (REP)
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Tel: NEptune 7-9531, In N.Y.C., OXford 5-0082

Hunter & Salsbury, Inc., P.O. Box 403, 87 Broadway, Hicksville, L.I., N.Y., 15 (REP)
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Intelex Systems, Inc., 22 Thames St., New York 6, N.Y., 5, 15
Tel: BOwling Green 9-3800

Interstate Electronics, 227 Fulton St., New York 7, N.Y., 10
See ad on page 303
Tel: BEekman 3-8780

Island Radio Dist., 412 Fulton St., Hempstead, N.Y., 10 (NEDA)

Jackson Co., Robert W., 833 Ellicott Sq. Bldg., Buffalo 3, N.Y., 15 (REP)
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Johnson Agencies, Inc., H. C., 111 Mt. Hope Ave., Rochester 20, N.Y., 15
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Joseph Associates, Ben, 43 So. Middle Neck Rd., Great Neck, N.Y., 15 (REP)
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Kaelber & Mack, 1 Park Ave., Manhasset, L.I., N.Y., 15 (REP)
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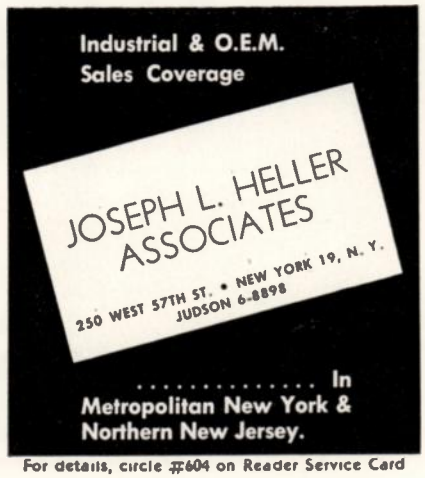
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Lafayette Radio, 100 Sixth Ave., New York, N.Y., 10
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Tel: PL 7-3638

Lanzendorf, Oren G., 513 Cumberland Ave., Syracuse 10, N.Y., 15
Tel: GRanite 2-4195

Leeds Co., Inc., Gerard G., 12 Crampton Lane, Great Neck, L.I., N.Y., 20
Tel: HUnter 2-7784

Leonard Radio, Inc., 69 Cortland St., New York, N.Y., 10 (NEDA)

Le Roy, Gordon C., RD 1, Phelps, N.Y., 15 (REP)
Tel: KIngswood 8-4891

Levison Sales Co., Inc., 545 Fifth Ave., New York City 17, N.Y., 15 (REP)
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Lohkemper, Otto A., 46 Stanwood Rd., New Hyde Park, N.Y., 15
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Marine Electronics Co., 40-17 205th St., Bayside, L.I., N.Y., 10, 20
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Markowitz, Jesse, E. R. A., Inc., 340 Great Neck Road, Great Neck, N.Y., 15 (REP)
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Masline Electronics, Inc., 192-196 Clinton Ave., Rochester 4, N.Y., 10 (NEDA)

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Tel: 880
Permag Corp., 210 Taaffe Place, Brooklyn 5, N.Y., 10
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Tel: MAin 2-0114
Pickett, James M., 205 E. 66th St., New York 21, N.Y., 15 (REP)
Tel: TRafalgar 9-9520-21
Progress Electronics Co., 296 Broadway, New York 7, N.Y., 10
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Quad Electronics, Inc., 555 Union Ave., Brooklyn 11, N.Y., 10 (NEDA)
RMC Associates, Inc., 236 E. 75th St., New York 21, N.Y., 15, 20
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Sunset Electronics, Inc., 1459 Niagara Falls Blvd., Tonawanda, N.Y., 10 (NEDA)
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Tel: HOllis 4-8927

United Audio Prods., Div. of United Optical Mfg. Corp., 202-4 E. 19th St., New York 3, N.Y., 5, 15
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See ad on this page
Tel: BEekman 3-8870

Universal Relay Corp., 42 White St., New York 13, N.Y., 10
See ad on page 407
Tel: WAlker 5-9257

Valley Electronic Labs., Inc., 1415 Oriskany St., W., Utica 4, N.Y., 10 (NEDA)

Wadsworth Mfg. Associates, 509 Balsam St., Liverpool, N.Y., 15 (REP)
Tel: OLdfield 2-7043

Wappler, Inc., 27-10 Astoria Blvd., Long Island City 2, N.Y.
Tel: RAvenswood 8-8831

Weiland, George H., 76-49-168th St., Flushing, N.Y., 15 (REP)
Tel: OLympia 8-4061

Weiss & Associates, William W., 1780 Broadway, New York 19, N.Y., 15 (REP)
Tel: CIrcle 6-5777

Westchester Electronic Supply Co., Inc., 602-610 Mamaroneck Ave., White Plains, N.Y., 10 (NEDA)

Western International Co., 45 Vesey St., New York 7, N.Y., 5, 10
Tel: DIgby 9-2275

Westrex Corp., 111-8 Ave., New York 11, N.Y., 5
Tel: CHelsea 3-2300

Wilco Radio Distributors, 383 E. 138th St., Bronx 54, N.Y., 10 (NEDA)

Wilgreen Industries, 99 Murray St., New York 7, N.Y., 10
Tel: WOrth 4-2490

Willgold Electronic Sales Corp., 100 N. Village Ave., Rockville Centre, N.Y., 15 (REP)
Tel: ROckville Centre 4-4022

Wolf, O. C., Box 32, Onondaga, N.Y., 15 (REP)
Tel: HOward 9-0649

Wolfe-Marsey Sales Co., The, 74 Park Ave., Rochester 7, N.Y., 15 (REP)
Tel: GReenfield 3-9088

Woolf Associates, Irving W., 1860 Broadway, New York 23, N.Y., 15 (REP)
Tel: CIrcle 6-0120

Yonkers Electronic Supply, Inc., 541 Nepperhan Ave., Yonkers, N.Y., 10 (NEDA)

Zauderer Associates, Inc., 21 Bertel Ave., Mt. Vernon, N.Y., 15, 20
Tel: MO 4-7385

Zimmerman, Inc., Wilson H., 112 Dewitt St., Syracuse 3, N.Y., 15 (REP)
Tel: GRanite 4-4889

NORTH CAROLINA

Atcheson & Adams, 601 N. Elm St., Greensboro, N.C., 15 (REP)
Tel: BRoadway 2-6838

Buthan Inc., 4924 Oleander Dr., Wilmington, N.C., 15 (REP)
Tel: ROger 2-5749

Dalton-Hege Radio Supply Co., Inc., 924 W. 4th St., P.O. Box 1008, Winston Salem, N.C., 10 (NEDA)

Directory IV. Materials & Services

Freck Radio & Supply Co., Inc., 38 Biltmore Ave., Asheville, N.C., 10 (NEDA)

Highsmith & Co., James L., 737 Providence Rd., Charlotte 7, N.C., 15
Tel: FRanklin 7-2546

Johannesen Electric Co., Inc., Box C 1, Greensboro, N.C., 10 (NEDA)

Lee Associates, Inc., S. S., P.O. Box 906, Winston-Salem, N.C., 15
Tel: PArk 2-3223

Long's Distributing Co., Inc., 260 Biltmore Ave., Asheville, N.C., 10 (NEDA)

Manufacturers Sales Agency, 4924 Oleander Dr., Wilmington, N.C., 15
Tel: 5749

Murphy & Cota, 2036 Norton Rd., Charlotte, N.C., 15 (REP)
Tel: EDison 2-7356

Radiotronic Distributors, Inc., 208 N. College St., Charlotte, N.C., 10 (NEDA)

Southeastern Radio Supply, 411-15 Hillsboro St., Raleigh, N.C., 10 (NEDA)

Steen-Taylor Electronics, Inc., 217 E. Council St., Salisbury, N.C., 10 (NEDA)

Victor Radio-TV Supply Co., 1058 3rd Ave. Drive, N.W., Hickory, N.C., 10 (NEDA)

Wallace Assoc., Stanley K., 5621 Murray Hill Rd., Charlotte 3, N.C., 15 (REP)
Tel: JAckson 3-6109

NORTH DAKOTA

Bristol Distributing Co., 419 N. Pacific Ave., Fargo, N.D., 10 (NEDA)

Radio Equipment Co., 624-2nd Ave., No., Fargo, N.D., 10 (NEDA)

OHIO

Allied Supply Co., Inc., 359 W. Monument Ave., Dayton 2, Ohio, 10 (NEDA)

Armie's Electronics, 320 W. Federal St., Youngstown, Ohio, 10 (NEDA)

Atkind, Irving, 821 Burman Ave., Dayton, Trotwood, Ohio, 15
Tel: TE-4750

Baier Co., Arthur H., 12429 Cedar Rd., Rm. 29, Cleveland 6, Ohio, 15 (REP)
Tel: FAirmont 1-5690

Bear Corp., Neal, 2801 Far Hills Ave., Dayton 19, Ohio, 15 (REP)
Tel: AXminister 9-3566

Bear Corp., Neal, 3435 Streetsboro Rd., West Richfield, Ohio, 15
Tel: OLiver 9-3331

Blocki Associates, Bill, 2280 Liberty Rd., Stow, Ohio, 15 (REP)
Tel: OVerdale 8-4277

Boehme Associates, B-4 Talbott Bldg., Dayton 2, Ohio, 15
Tel: FUlton 8188

100. Distribution.

5. Export & import
10. Jobbers & wholesalers
15. Manufacturers representatives
20. Sales & service
25. Surplus dealers

Brauer & Associates, Walter J., 15631 Lakewood Heights Blvd., Cleveland 7, Ohio, 15 (REP)
Tel: LAkewood 1-7268

Buckeye Electronics Dist., Inc., 242-246 E. Long St., Columbus 15, Ohio, 10 (NEDA)

Burroughs Radio, Inc., 2705 Fulton Rd., N.W., Canton 9, Ohio, 10 (NEDA)

Burroughs Radio, Inc., 218 E. 2nd St., Mansfield, Ohio, 10 (NEDA)

Chilcote Sales Co., Jim, 636 Nesslewood, Toledo 10, Ohio, 15 (REP)
Tel: CHerry 1-3826

Daugherty Co., F. A., 1120 Croydon Rd., Cleveland 24, Ohio, 15 (REP)
Tel: HIllcrest 2-3311

Dolfuss, Jr. & Co., Chas. H., 2108 Payne Ave., Cleveland 14, Ohio, 15 (REP)
Tel: PRospect 1-1270

Edwards-Lohse & Co., 2123 E. 9th St., Cleveland 15, Ohio, 15 (REP)
Tel: TOwer 1-5753

Electronic Supply Corp., 134 E. Long St., Columbus 15, Ohio, 10 (NEDA)

Fair Radio Sales, 132 S. Main St., Lima, Ohio, 25
Tel: CAtheline 6-6716

Goory Sales Co., The, 19555 Henry Rd., Cleveland 28, Ohio, 15 (REP)
Tel: EDison 1-1500

Greenleaf, Clinton T., Jr., 14702 Detroit Ave., Cleveland 7, Ohio, 15 (REP)
Tel: LAkewood 1-8468

Groshan Camera Center, Inc., 331 Cleveland Ave., N., Canton 2, Ohio, 10, 20
Tel: GLendale 4-7651

Hausfeld Radio Supply, 116 N. 3rd St., Steubenville, Ohio, 10 (NEDA)

Herrick Co., George L., 14326 Lorain Ave., Cleveland 11, Ohio, 15
Tel: WInton 1-4406

Howard's Electronic Supply Inc., 135-17th St., Toledo 2, Ohio, 10 (NEDA)

Hughes-Peters, Inc., 111-117 E. Long St., Columbus 15, Ohio, 10 (NEDA)

Kohler Associates, Ernie, 2600 Far Hills Ave., Dayton 19, Ohio, 15
Tel: AXminister 9-2813

Landfear Co., J. M., 12429 Cedar Rd., Cleveland 6, Ohio, 15 (REP)
Tel: FAirmont 1-4533

Lehner Co., J. W., 367 Brynhild Rd., Columbus 2, Ohio, 15 (REP)
Tel: AMherst 8-5260

Levin & Associates, Sid, 6252 Mayfield Rd., Cleveland 24, Ohio, 15 (REP)
Tel: HIllcrest 2-8340

Lifetime Electronics, 1501 Adams St., Toledo 2, Ohio, 10 (NEDA)

Lima Radio Parts Co., 600 N. Main St., Lima, Ohio, 10 (NEDA)

Main Line Dist., Inc., 380 E. Erie St., Toledo, Ohio, 10 (NEDA)

Marietta Radio & TV Supply Co., 221 Second St., Marietta, Ohio, 10 (NEDA)

McFadden Sales Co., 150 E. Broad St., Columbus 15, Ohio, 15 (REP)
Tel: CApitol 1-3363

Midwest Sales Co., 3219 W. 117th St., Cleveland 11, Ohio, 15 (REP)
Tel: WInton 1-2700

Morrow Co., Les A., 3123 W. 117th St., Cleveland 11, Ohio, 15 (REP)
Tel: CLearwater 1-5700

Morrison's Radio Supply, 331 Center St., Ashtabula, Ohio, 10 (NEDA)

Nace Co., Allen, Box 146, Brecksville, Ohio, 15 (REP)
Tel: JAckson 6-4323

Olsen Co., John O., 16201 Shaker Blvd., Cleveland 20, Ohio, 15 (REP)
Tel: WYoming 1-2624

Olson Radio Warehouse, Inc., 260 S. Forge St., Akron 8, Ohio, 10 (NEDA)

Oros, Edward C., 1194 Croyden Rd., Cleveland 24, Ohio (REP)
Tel: HIllcrest 2-5024

Peters Co., Robert W., 350 E. 215th St., Cleveland 23, Ohio, 15 (REP)
Tel: ANdrews 1-2330

Pioneer Electronic Supply Co., 2115 Prospect Ave., Cleveland 15, Ohio, 10 (NEDA)

Pugh, C. L., 2144 Riverside Dr., Columbus 21, Ohio, 15 (REP)
Tel: HUdson 8-4855

Radio Specialties, 136 Pine Ave., S.E., Warren, Ohio, 10 (NEDA)

Rauer, Frank W., 4144 Marvin Ave., Cleveland 9, Ohio, 15 (REP)
Tel: MElrose 1-8350

SREPCO, Inc., Box 7, N. Dayton Sta., Dayton 4, Ohio, 10 (NEDA)

Schroeder Sales Co., 2309 Prospect Ave., Cleveland 15, Ohio, 15 (REP)
Tel: MAin 1-5075

Scott and Steffen, Inc., 1836 Euclid Ave., Cleveland 15, Ohio, 15 (REP)
Tel: TOwer 1-2626

Steinberg's, Inc., 633 Walnut St., Cincinnati 2, Ohio, 10 (NEDA)

Sun Radio Co., The, 110 E. Market St., Akron 8, Ohio, 10 (NEDA)

Television Parts Co., 509 5th Ave., New Brighton, Pa., 10 (NEDA)

Thompson Radio Supplies, 110 S. 6th St., Zanesville, Ohio, 10 (NEDA)

Warren Radio Co., 71 S. Broadway, Akron 8, Ohio, 10 (NEDA)

Warren Radio Co., 1002 Adams St., Toledo, Ohio, 10 (NEDA)

Weller-Rahe Co., P.O. Box 212, Worthington, Ohio, 15 (REP)
Tel: TUxedo 5-7819

Whitehead Radio Co., 124 E. Long St., Columbus 5, Ohio, 10 (NEDA)



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Electronic Supply Co., 212 N.W. Tenth St., Oklahoma City 3, Okla., 10 (NEDA)

Electronics Design Co., P.O. Box 401/ 400 E. Cornell St., Enid, Okla., 15, 20
Tel: ADams 4-1584

Johnson Wholesale Electronics, 927 West 1st St., Oklahoma City, Okla., 10 (NEDA)

Midwest Electronic Supplies, 3948 E. 11th St., Tulsa, Okla., 10 (NEDA)

Muskogee Electronic Supply Co., 211 Callahan, Muskogee, Okla., 10 (NEDA)

Oil Capitol Electronics Corp., P.O. Box 2646, Tulsa 1, Okla., 10 (NEDA)

R & R Supply Co., Inc., P.O. Box 329, Lubbock, Texas, 10 (NEDA)

Radio, Inc., 1000 South Main St., Tulsa 3, Okla., 10 (NEDA)

Radio Supply Inc., 724 N. Hudson, Oklahoma City, Okla., 10 (NEDA)

Trice Wholesale Electronics, 800 No. Hudson St., Oklahoma City, Okla., 10 (NEDA)

OREGON

Burcham Co., Don H., P.O. Box 4098, Portland, Ore., 15 (REP)
Tel: CApital 7-3830

Central Distributors, 1331 N.W. Couch St., Portland, Ore., 10 (NEDA)

Harold's Radio Supply, 320 S.W. Court Ave., Pendleton, Ore., 10 (NEDA)

Lee Co., Inc., Dave M., 3527 N.E. Union Ave., Portland, Ore., 15 (REP)
Tel: ATlantic 8-5796

Minthorne Co., Roger M., 7521 N.E. Glisan St., Portland 16, Ore., 15 (REP)
Tel: ALpine 3-0010

Portland Radio Supply Co., 1234 S.W. Stark, Portland 5, Ore., 10 (NEDA)

Saelens Radio Co., Inc., 1605 N.W. Everett, Portland 9, Ore., 10 (NEDA)

Television & Radio Supply Co., 1327 So. E. Grand Ave., Portland 14, Ore., 10 (NEDA)

United Radio Supply, Inc., 22 N.W. Ninth Ave., Portland, Ore., 10 (NEDA)

Walker Co., Verl G., P.O. Box 1586, Medford, Ore., 10 (NEDA)

Weber, Dale G., 8 S.E. Clay St., Portland, Ore., 15 (REP)
Tel: BElmont 4-7671

Willamette Radio Supply, 2460 State St., Salem, Ore., 10 (NEDA)

PENNSYLVANIA

Allied Electric Appliance Parts, Inc., 1320 W. Erie Ave., Philadelphia 40, Pa., 10 (NEDA)

Almo Radio Co., 913 Arch St., Philadelphia, Pa., 10 (NEDA)

Andco Sales-Engineering, 5823 Greene St., Philadelphia 44, Pa., 15 (REP)
Tel: VIctor 4-9100

Directory IV. Materials & Services

Atlantic Distributing Co., 256 Ohio River Blvd., Pittsburgh 2, Pa., 10 (NEDA)

B. & R. Electric Co., 26 Railroad St., St. Marys, Pa., 10 (NEDA)

Barbey Co., Inc., George D., 2nd & Penn. Sts., Reading, Pa., 10 (NEDA)

Barnett Bros. Radio Co., 622 Arch St., Philadelphia 6, Pa., 10 (NEDA)

Barno Radio Co., 927 Walnut St., McKeesport, Pa., 10 (NEDA)

Baron Associates, Presidential, A710, Philadelphia 31, Pa., 15
Tel: TRinity 7-4605

Beil, Thomas H., 3623 Jacksonwald Ave., Reading, Pa., 15 (REP)
Tel: FRanklin 5-6837

Biggs & Co., Inc., J. Alan, P.O. Box 450, Doyleston, Pa., 15 (REP)
Tel: EIllmore 8-9457

Blumenstein, Hal, 14 Trent Rd., Philadelphia 31, Pa., 15 (REP)
Tel: MIdway 9-9523

Brookfield & Co., 55 Cricket Ave., Ardmore, Pa., 15 (REP)
Tel: MIdway 2-6911

Buss Radio Electric Supply, 431 W. Broad St., Bethlehem, Pa., 10 (NEDA)

CBC Electronics Co., Inc., 2601 N. Howard St., Philadelphia 33, Pa., 5, 10, 15
Tel: GA 3-2797

CRT Dist. Co. of Pa., 13 S. 21st St., Philadelphia 3, Pa., 10 (NEDA)

Cameradio, 1121 Penn Ave., Pittsburgh 22, Pa., 10
See ad on page 612
Tel: EXpress 1-4000

Cooper, Richard J., 3507 Wellington, Philadelphia 49, Pa., 15 (REP)
Tel: MAyfair 4-5486

Cordray Sales Co., W. Henry, 18 W. Chelton Ave., Philadelphia 44, Pa., 15 (REP)
Tel: VIctor 8-0447

Danby Radio Corp., 19 So. 21st St., Philadelphia 3, Pa., 20
Tel: RItten House 6-5686

Duncan & Associates, William I., 5452 Charles St., Philadelphia 24, Pa., 15
Tel: CUmberland 9-7525

Edmunds, Edmund J., 101 N. Lexington Ave., Philadelphia (Havertown), Pa., 15 (REP)
Tel: HIlltop 6-6472

Electronic Parts Co., 5744 Baum Blvd., Pittsburgh 6, Pa., 10 (NEDA)

Erdman, Kenneth B., 7908 High School Rd., Elkins Park, Philadelphia 17, Pa., 15 (REP)
Tel: MAjestic 5-5099

Estersohn, Harry, 311 W. Mt. Pleasant Ave., Philadelphia 19, Pa., 15 (REP)
Tel: CHestnut Hill 7-9494

Fairbanks, Howard J., 1615 Darby Rd., Waybar Bldg., Havertown, Pa., 15 (REP)
Tel: GRanite 2-2467

100. Distribution.

5. Export & import
10. Jobbers & wholesalers
15. Manufacturers representatives
20. Sales & service
25. Surplus dealers

Feagley, Charles W., P.O. Box 111, Easton, Pa., 10, 15
Tel: 3-0641

Frederick, C. William, Jr., 4044 N. Warner Rd., Lafayetter Hills, Pa., 15 (REP)
Tel: TAylor 8-8840

Friedman and Associates, Martin, 1006 Western Savings Fund Bldg., Philadelphia 7, Pa., 15 (REP)
Tel: PEnnypacker 5-4778

Garrigues, S. Wayne, Box 74, Bala-Cynwyd, Pa., 15 (REP)
Tel: MOhawk 4-5646

Hautenschild, George, 949 East Godrey St., Philadelphia, Pa., 15 (REP)
Tel: JE 5-1768

Herbach & Rademan, Inc., 1204 Arch St., Philadelphia 7, Pa., 10 (NEDA)

Hevner, Donald S., 1528 Spring Mill Rd., Gladwyne, Pa., 15 (REP)
Tel: LAwrence 5-9727

Hile Co., Charles R., Hillview Rd. Box 144, Paoli, Pa., 15

Hughes Co., Kenneth E., 101 N. 33rd St., Philadelphia 4, Pa., 15 (REP)
See ad on page 604
Tel: EVergreen 6-3130

Humes Sales, David, 124 Lee Circle, Bryn Mawr, Pa., 15 (REP)
Tel: LAwrence 5-6469

Jeffries, Inc., Samuel A., 105 Forrest Ave., Narberth, Pa., 15 (REP)
Tel: MOhawk 4-8500

Jordon Electronics Co., 1130 German St., Erie, Pa., 10 (NEDA)

Keps Electric Co., Electronics Div., 5000 Baum Blvd., Pittsburgh 13, Pa., 10
Tel: MUseum 3-3300

Keps Electronic Co., Electronics Div., 5000 Baum Blvd., Pittsburgh 13, Pa., 10 (NEDA)

Laird Equipment Co., Box 108, Jenkintown, Pa., 15
Tel: TUrner 4-8198

Lazar Radio Co., Nathan, 4231 Lancaster Ave., Philadelphia 4, Pa., 10 (NEDA)

Leban and Graham, 1414 Manoa Rd., Philadelphia 31, Pa., 15 (REP)
Tel: MIdway 2-0668-9

Lectronic Dist., Inc., 727 Arch St., Philadelphia, Pa., 10 (NEDA)

Lectronic Research Labs., 715 Arch St., Philadelphia 6, Pa., 5, 10, 25
Tel: MArket 7-6771

Leff Radio Parts Co., M., 247 W. 8th Ave., W. Homestead, Pa., 10 (NEDA)

Lewis Co., Herman, 1622-68th Ave., Philadelphia 26, Pa., 15 (REP)
Tel: LIvingston 8-1281

Lowery, Inc., L. D., 50 E. Wynnewood St., Wynnewood, Pa., 15 (REP)
Tel: MIdway 29100

Macdonald, Inc., Samuel K., 1531 Spruce St., Philadelphia 2, Pa., 15 (REP)
Tel: KIngsley 5-1205

Malta Co., Victor S., 1135 Slocum St., Philadelphia 50, Pa., 15
Tel: WAverly 4-8688

Marks Parts Co., 317 Braddock Ave., Braddock Pa., 10 (NEDA)

Miller, Clifford P., 121 N. Broad St., Philadelphia 7, Pa., 15 (REP)
Tel: LOcust 4-2151

Mustico, John, 312 Bewley Rd., Havertown, Pa. 15 (REP)
Tel: HIlltop 6-1961

Naudain, L. Parker, 846 Suburban Station Bldg., Philadelphia 3, Pa., 15 (REP)
Tel: RIttenhouse 6-3185

Newson & Associates, C. H., 150 Terminal Ave., Philadelphia 18, Pa., 15 (REP)
Tel: CHestnut Hill 8-0282

Nixon Co., 4850 Lancaster Ave., Philadelphia 31, Pa., 15
Tel: GR 7-2040

Nolan & Associates, John J., 314 W. Sparks St., Philadelphia 20, Pa., 15 (REP)
Tel: WAverly 4-1595

Paragon Sales Co., 111 S. 22nd St., Philadelphia 3, Pa., 15 (REP)
Tel: RIttenhouse 6-7060

Park, E. ..., 651 Paddock Rd., Southampton, Pa., 15 (REP)
Tel: ELmwood 7-7805

Pearson Sales Co., R. T., 1125 York Rd., Abington, Pa., 15 (REP)
Tel: TUrner 7-0186-7

Peters, Inc., A. A., 231 N. 7th St., Allentown, Pa., 10 (NEDA)

Penn Industrial Electronics Co., Box 661, State College, Pa., 10, 50
Tel AD 7-2202

Podolny, James H., 4716 Coleridge St., Pittsburgh 1, Pa., 15 (REP)
Tel HIland 1-0800

Powell Co., Harold H., 2102 Market St., Philadelphia 3, Pa., 10
See ad on page 324
Tel LOcust 7-5285

Quinlan Co., D. G., National Bank Bldg., Ambler, Pa., 15 (REP)
Tel MItchell 6-7250

Radio Dist. Co., 915 S. 13th St., Harrisburg, Pa., 10 (NEDA)

Radio Electric Service Co., N. W. Corner 7th & Arch Sts., Philadelphia 6, Pa., 10 (NEDA)

Radio Electric Shop, 631 S. 60th St., Philadelphia 43, Pa., 20
Tel: GR 6-8125

Radio Parts Co., 6401 Penn Ave., Pittsburgh ..., Pa., 10 (NEDA)

Radio Parts Co., A. C., 1539 W. Passyunk Ave., Philadelphia 45, Pa., 10 (NEDA)

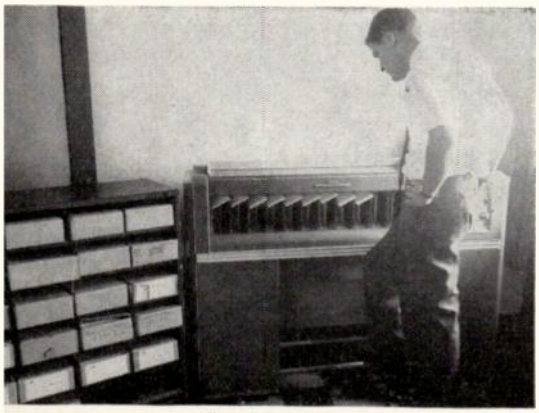
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Key Punch



Sorting



Make-up



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A few industries in this country are fortunate in having a pace-setting publication to provide a constant standard by which to gauge the relative performance of their advertising dollar. The radio and electronics industry is one of those fortunate few. Its pace-setter for the past 12 years has been and continues to be the *IRE DIRECTORY*.

Service: There are thousands of things — big and small — that combine to make the *IRE DIRECTORY* the important name it is in radio and electronics. But they can all be summed up on one word: *Service*. Not in all the history of the industry has there been assembled between covers one guide that so completely fulfills this function.

The *IRE DIRECTORY and the PURCHASING DIRECTORY* today offers a complete listing of more than 50,000 engineers, 3,500 manufacturers and 1,500 companies in the field of radio and electronics. It offers a roster of more than 500 individual products in 100 product groups, a state-by-state list of some 1,500 distributors and manufacturers' representatives and the telephone numbers of 3,200 firms in the field.

More than just a buying index or a mere classification of manufacturers, distributors and engineers, *the IRE DIRECTORY is the complete, facts-and-figures story of an entire industry.*

Growth: And here's another sure sign of a pace-setter: *Growth.* Numbered among the more than 1,000 pages in the record breaking 1957-58 *IRE DIRECTORY* are 415 pages of advertising representing 555 blue chip firms serving the radio and electronics industry. *This is a gain of* 63 *advertisers in a single year* — a remarkable record of support from an industry that has never been careless with its advertising dollar.

The value that the radio and electronics industry — IRE members, manufacturers, distributors, advertisers — have placed on the *IRE DIRECTORY* can best be measured by the enthusiasm with which the 1957-58 issue has been received. Despite a mailing of 47,500 copies of the full directory to IRE members, the clamor for additional copies has resulted *in a sell-out of every available issue in stock.* The IRE *PURCHASING DIRECTORY*, which lists firms and products, met with such demand that firms were eagerly gobbling up battered salesmen's copies at $5 a piece — this, despite a printing of 5,000 issues.

Value: Results like these are no accidents. They are the legacy of 45 years of dedicated service to the needs of the radio and electronics industry.

But the *IRE DIRECTORY* is not content to rest on its laurels. A pace-setter never is. Already hard at work on the coming issue, the editors of the *DIRECTORY* have installed a permanent punch card system in order to handle the growing load of product and firm classifications. Heavy mailings of product questionnaires are underway. Firms are busily reporting new product lines as fast as they develop.

Paralleling this stepped-up activity is the continued surge of interest in the IRE Directory on the part of its advertisers. The old advertisers remain constant and the list of new advertisers grows larger. But old or new, large or small, they all have one thing in common: *They know how hard their advertising dollar can work.*

1959 IRE DIRECTORY

Published by THE INSTITUTE OF RADIO ENGINEERS

for its Members and Industry

72 West 45th Street, N. Y. MU 2-6606

R E ®

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Radio Parts Co., A. G., 939 Township Lane, Elkins Park 17, Pa., 10 (NEDA)
Randall Co., Ken, 121 N. Broad St., Philadelphia 24, Pa., 15 (REP)
Tel: LOcust 4-2151
Raymond Rosen & Co., Inc., Parkside Ave. at 51st St., Philadelphia 31, Pa., (NEDA)
Robinson Co., I. E., 7404 W. Chester Pike, Upper Darby, Pa., 15
Tel: SHerwood 8-1294
Rogers Corp., C. R., 5210 Liberty Ave., Pittsburgh 24, Pa., 10 (NEDA)
Rothenheber & Co., 53 Cricket Ave., Ardmore, Pa., 15 (REP)
Tel: MIdway 2-6911
Satterthwaite, W. F., 103 E. Township Line Rd., Box 664, Havertown, Pa., 15 (REP)
Tel: SUnset 9-9600
Sharon Electronics Supply, 1336 E. State St., Sharon, Pa., 10 (NEDA)
Shelps, George A., 1625 Spruce St., Philadelphia 3, Pa., 15 (REP)
Snyder Co.. Inc., V.A., 2165 Morris Ave., P.O. Box 184, Union, N.J., 15
See ad on page 605
Tel: MUrdock 8-6100
Steinberg & Co., Albert, 2520 N. Broad St., Philadelphia 32, Pa., 10 (NEDA)
Stinson Co., John T., 219 Sagamore Rd., Havertown, Pa., 15 (REP)
Tel: HIlltop 7-0922
Stobbart, Arthur J., 56-14 Revere Rd., Drexel Hill, Pa., 15 (REP)
Tel: CLearbrook 9-3881
Stratton Co., C. H., 514 E. Wadsworth St., Philadelphia 19, Pa., 15 (REP)
Tel: CHestnut Hill 7-7869
Stuchell, H. E., Jr., 50 E. Wynnewood Rd., Wynnewood, Pa., 15 (REP)
Tel: MIdway 2-9100
Sylvester, R. A., Box 513, 50 E. Wynnewood Rd., Wynnewood, Pa., 15 (REP)
Tel: MIdway 2-9100
Technical Representation, 25 E. Easton Rd., Suite 200, Glenside, Pa., 15 (REP)
Tel: TUrner 7-1325
Technical Representation, 220 S. Easton Rd., Glenside, Pa., 15 (REP)
Tel: TUrner 7-1325
Tydings Co., 933 Liberty Ave., Pittsburgh, Pa., 10 (NEDA)
Wagner Electronic Supply, Sidney, 4632 N. 5th St., Philadelphia 40, Pa., 10 (NEDA)
Warren Radio, Inc., 1315 Peach St., Erie, Pa., 10 (NEDA)
White Co., Harry J., 1839 W. Albanus St., Philadelphia 41, Pa., 15 (REP)
Tel: DA 9-1880
Wholesale Electronics, Inc., 503 N. Chester Rd., Swarthmore, Pa., 10 (NEDA)
Zimmerman Wholesalers, 104 W. Peter St., Uniontown, Pa., 10 (NEDA)

SOUTH CAROLINA

Dixie Radio Supply Co., 1700 Laurel St., Columbia, S.C., 10 (NEDA)

100. Distribution.

5. Export & import
10. Jobbers & wholesalers
15. Manufacturers representatives
20. Sales & service
25. Surplus dealers

Hemcor, Inc., 481 Union St., Spartanburg, S.C., 10 (NEDA)
Horlacher & Barrett, 1905 Main St., Columbia, S.C., 10 (NEDA)
Southern Electronics, Inc., 355-65 N. Irby St., Florence, S.C., 10 (NEDA)

SOUTH DAKOTA

Burghardt Radio Supply, 12 N. Broadway, Watertown, S.D., 10 (NEDA)
McKenzie Distributors, Inc., 209 S. 1st. Ave., Sioux Falls, S.D., 10 (NEDA)
Warren Radio Supply, 115 So. Indiana Ave., P.O. Box 958, Sioux Falls, S.D., 10 (NEDA)

TENNESSEE

Bluff City Dist Co., Box 418, Memphis, Tenn., 10 (NEDA)
Cartwright, James B., 1336 Madison Ave., P.O. Box 5801, Memphis 4, Tenn., 15 (REP)
Tel: BRoadway 5-1914
Chemcity Radio & Electric Co., 2211 Dutch Valley Rd., Knoxville 17, Tenn., 10 (NEDA)
Clark Radio Supply Co., 620 Broad St., Bristol, Tenn., 10 (NEDA)
Curle Radio Supply Co., 439 Broad St., Chattanooga 2, Tenn., 10 (NEDA)
Electra Distributing Co., 1914 West End Ave., Nashville 4, Tenn., 10 (NEDA)
Electronic Supply, Inc., 1100 Union, Memphis, Tenn., 10 (NEDA)
Engelman Co., A. S., 3205 Crump Ave., Memphis 12, Tenn., 15 (REP)
Tel: GLendale 8-6263
Randolph & Holt, 212 East Coffee St., Tullahoma, Tenn., 10 (NEDA)
Randolph & Parks, Inc., 36 West 2nd St., Cookeville, Tenn., 10, (NEDA)
Randolph & Rice, 1213 McGovock St., Nashville 3, Tenn., 10, (NEDA)
Randolph & Williams, 204 Carter St., Columbia, Tenn., 10 (NEDA)
Roden Electrical Supply Co., 808 N. Central Ave., Knoxville, Tenn., 10 (NEDA)
L. K. Rush Co., P. O. Box 1418, Jackson, Tenn., 10 (NEDA)
Uffer & Co., Frank G., 1318 Madison Ave., Memphis 4, Tenn., 10 (NEDA)

TEXAS

Airep Engineering Co., P.O. Box 4843, Dallas 6, Texas, 15
Tel: TAylor 4-3800
Allied Components, Inc., 2517 Converse St., Dallas 7, Tex., 15 (REP)
Tel: RIverside 2-2830
Alltronic Supply, Inc., 1401 W. 7th St., Amarillo, Texas, 10 (NEDA)
Ammon & Woods Associates, 5602 E. Mockingbird Lane, Dallas, Tex., 15 (REP)
Tel: TA 3-1191
Anderson Co., George E., 1901 Griffin, Dallas 2, Tex., 15 (REP)
Tel: RI 1-5931
Antle-Smith Sales, 2721 Brookfield Ave., Dallas 35, Tex., 15 (REP)
Tel: FLeetwood 7-7279
Aymond Co., Edward F., 4312 Maple Ave., Dallas 19, Tex., 15 (REP)
Tel: LAkeside 6-5233
B & L Radio & TV Supply, Inc., 2424 Texas Ave., Lubbock, Texas
Barnes Co., Arnold, 5512 Dyer St., Dallas 6, Tex., 15 (REP)
Tel: EMerson 3-2441
Berthold Sales Co., 4411 Maple Ave., Dallas 19, Tex., 15 (REP)
Tel: LAkeside 6-8329
Best Elecyronics, 324 N. 18th St., Waco, Tex., 10 (NEDA)
Branum Co., 1518 Slocum St., (P.O. Box 10204) Dallas 7, Tex., 15 (REP)
Tel: RIverside 1-4995
Campion Sales Co., 9002 Chancellor Row, Dallas 35, Tex., 15 (REP)
Tel: FLeetwood 7-4095
Central Electronics, 4117 Maple Ave., Dallas, Texas, 10 (NEDA)
Corry Co., Hal F., 6315 Hillcrest Ave., Dallas 5, Tex., 15 (REP)
Tel: LAkeside 8-9172
Crabtree's Wholesale Electronics, 2608 Ross Ave., Dallas 1, Tex., 10 (NEDA)
Crockett, John I., 2204 Griffin St., Dallas 2, Tex., 15 (REP)
Tel: RIverside 2-5777
Crockett-Lund & Co., 2204 Griffin St., Dallas, Tex., 15 (REP)
Tel: RIverside 2-5764
Dansby Co., Robert W., 2517 Cedar Springs Rd., Dallas 1, Tex., 15 (REP)
Tel: RIverside 7-6543
Delzell-Maynard Sales Co., 2013 Cedar Springs, Dallas 1, Tex., 15 (REP)
Tel: RI 2-2027
Denison Radio Supply, 310 W. Woodard, Denison, Texas, 10 (NEDA)
Diehl Radio & TV Supply, 2120 Seventh St., Port Arthur, Texas, 10, (NEDA)
Electronic Equip. & Engineering Co., 805 S. Staples Street, Corpus Christi, Tex., 10, (NEDA)
Electronic Headquarters, 310 Willow St., Austin, Texas, 10 (NEDA)
Engineering Associates, Inc., 2912 Stanley, Ft. Worth, Tex., 15 (REP)
Tel: WA 3-7386
Robert E. Franklin Co., 1905 Chartres St., Houston 3, Tex., 10, (NEDA)
Greater Texas Electronics, Inc., 702 So. Main St., Midland, Tex., 10 (NEDA)
Gross & Co., Fred, 14025 Denton Drive, Dallas, Tex., 15 (REP)
Tel: CHapel 7-5424
Guarantee Radio Parts Equip. Co., 423 S. 17th St., McAllen, Tex., 10 (NEDA)

Guenther Mfgr's. Rep., John B., 4533 N. Central Expressway, Dallas 5, Tex., 15 (REP)
Tel: LAkeside 8-6286

Hall Inc., R. C. & L. F., P. O. Box 2434, Houston, Tex., 10 (NEDA)

Hargis-Austin, Inc., 410 Baylor, P. O. Box 716, Austin, Tex., 10, (NEDA)

Hargis Co., Inc., 1205 Washington Ave., P. O. Box 526, Waco, Tex., 10 (NEDA)

Hays Co., W. R., 3416 Rosedale St., Dallas, Tex., 15 (REP)
Tel: EMerson 3-2021

Heidenreich, Max, 6115 Denton Dr., Dallas, Tex., 15 (REP)
Tel: FLeetwood 2-3389

Industrial Associated Electronics, 5907 E. Lancaster St., Ft. Worth 12, Tex., 15 (REP)
Tel: JEfferson 1-1132

Kantenberger Co., The, 711 Reverchon Dr., Dallas 11, Tex., 15
Tel: WA 8-9535

Klicpera, M. F., P. O. Box 3113, Houston 1, Tex., 15 (REP)
Tel: JAckson 2-8459

Lawrence Sales Co., P. O. Box 13026, Dallas 20, Tex., 15
Tel: FL 2-7484

Leader Electronic Supply, Inc., 1701 Morgan Ave., Corpus Christi, Tex., 10, (NEDA)

Lieberman & Associates, Inc., Hank, 532 Fidelity Union Life Bldg., Dallas 1, Tex., 15 (REP)
Tel: RI 7-2225

Lucas Sales Co., Chas., 2004 S. Beckley, Dallas 16, Tex., 15 (REP)
Tel: WHitehall 2-5958

McCulloch Wholesale TV Supply Co., 811 W. 13th St., P.O. Box 1291, Texarkana, Tex., 10 (NEDA)

McKinney Sales Co., Jack F., 1330 N. Industrial Blvd., Dallas, Tex., 15 (REP)
Tel: RIverside 1-1368

McNicol, C. C., 811 No. Estrella St., El Paso, Texas, 10 (NEDA)

You find facts faster with the IRE DIRECTORY

Because the product listings in the IRE DIRECTORY are logically arranged the way an engineer thinks, under four great major classifications that cover the entire radio-engineering field, you can find the product you want, and the names of the firms who make it, faster and more easily than in "terminology-index" types of listings. Advertisements are logically positioned near the product listings which describe them, to give you more information on the companies you'll want to deal with, and the easy-to-use Reader Service Card brings you quick additional data.

Modern Electronics Co., 2000 Broadway, San Antonio, Texas, 10 (NEDA)

Montague Radio Distributing Co., 760 Laurel St., P. O. Box 3045, Beaumont 1, Tex., 10 (NEDA)

Nesbitt Co., Robert E., 1925 Cedar Springs, Dallas 1, Tex., 15 (REP)
Tel: RIverside 7-5824

Packard Associates, 404 Love Field Air Terminal Bldg., Dallas 35, Tex., 15 (REP)
Tel: FLeetwood 7-5713

R & R Electronic Co., 802 No. Walnut, Abilene, Tex., 10 (NEDA)

R & R Electronic Co., Box 1718, Amarillo, Texas, 10 (NEDA)

R. & R. Supply Co., Inc., 1700 Wyoming St., P. O. Box 856, El Paso, Tex., 10 (NEDA)

Radio & Television Parts Co., 1828 N. St. Mary's St., San Antonio, 2, Tex., 10, (NEDA)

Rio Radio Supply Co., 608-10 S. Broadway, McAllen, Tex., 10 (NEDA)

Schoonmaker Co., J. Y., P. O. Box 35266, 5328 Redfield Ave., Dallas 35, Tex., 15 (REP)
Tel: LA 6-7238

Scooter's Radio Supply, South Freeway & Vickery, Fort Worth, Texas, 10 (NEDA)

Sinks Co., R. M., P. O. Box 11726, Dallas 18, Tex., 15 (REP)
Tel: DA 7-9162

Smith, Dolores, P. O. Box 35331, Airlawn Stn., Dallas 35, Tex., 15 (REP)
Tel: FLeetwood 7-1727

South Texas Radio Supply Co., Inc., 204 Martinez St., San Antonio, Tex., 10 (NEDA)

Southern Radio Supply, Inc., 3137 Ross Ave., Dallas 1, Tex., 10 (NEDA)

Southwest Electronic Industries, 4515 Prentice, Dallas, Tex., 15 (REP)
Tel: EM 8-8306

Speairs Co., Mitchell, 3801 Westcliffe Rd. So., Ft. Worth 9, Tex., 1520
Tel: WAlnut 6-4444-5

Standard Radio Supply, Inc., 309 Lavaca, Box 778, Austin, Tex., 10 (NEDA)

Sterling Radio of Beaumont, Inc., Box 4164, Station A, Beaumont, Tex., 10 (NEDA)

Sterling Radio Products, Co., 1616 McKinney Ave., P. O. Box 1746, Houston 1, Tex., 10 (NEDA)

Swieco, Inc., 1518 E. Lancaster, Fort Worth 3, Tex., 10 (NEDA)

Tele-Radio, Inc., 1721 Waugh Drive, Houston, Tex., 10 (NEDA)

Texport Co., The, 2147 Farrington Blvd., Dallas 6, Tex., 15 (REP)
Tel: RIverside 7-6886

Thomson Engineering Service, 2712 W. Mockingbird Lane, Dallas 35, Tex., 15
Tel: FLeetwood 7-7885

West Texas Electronics Co., 401 Adams St., Amarillo, Tex., 10 (NEDA)

Wicks Radio Equip. Co., 513-15 S. Staples St., Corpus Christi, Tex., 10 (NEDA)

Wilkinson Brothers Co., P. O. Box 1169, Dallas 21, Tex., 10 (NEDA)

Wilks, Ernest L., 1212 Camp St., Dallas 2, Tex., 15 (REP)
Tel: RIverside 7-2637

Willison-Hart & Co, 1210 Old Gate Lane, Dallas 18, Tex., 15 (REP)
Tel: DAvis 1-3411

Wofford Electronic Parts Co., 3808 Crawford St., Houston 4, Tex., 10 (NEDA)

Wyborny & Yount Co., 2731 Taylor St., Dallas 26, Tex., 15 (REP)
Tel: RIverside 8-2158

UTAH

Ballard Supply Co., 3109 Washington Blvd., Ogden, Utah, 10 (NEDA)

Gates Company, F. Y., 200 S. Main St., Rm. 822, Salt Lake City 1, Utah, 15 (REP)
Tel: ELgin 9-1101

O'Loughlins Radio Supply, 113 E. 3rd. So. St., Salt Lake City 1, Utah, 10 (NEDA)

VIRGINIA

Banner Electronics, Inc., 2224 Chamberlayne Ave., Richmond, Va., 10 (NEDA)

Bristol Radio Supply Corp., 31 Moore St., Bristol, Pa., 10 (NEDA)

Cain Electronics Co., 14th & Monticello Ave., Norfolk 10, Va., 10 (NEDA)

Computer Enterprises, Inc., 1728 Great Falls St., Falls Church, Va., 10
Tel: ELmwood 6-3728

General Supply Co., 4215 Huntington Ave., Newport News, Va., 10 (NEDA)

Johnston-Gasser Co., Inc., 3023 W. Marshall St., Richmond 21, Va., 10 (NEDA)

Lee Associates, Inc., S. S., 1107C W. Broad St., Falls Church, Va., 15
Tel: JE 4-3500

Leonard Electronics of Roanoke, Inc., 405 Shenandoah Ave., Roanoke, Virginia, 10 (NEDA)

Mattsons Electronics, Inc., 2224 Chamberlayne Ave., Richmond 22, Va., 10

Meridian Electronics, Inc., 1001 W. Broad St., Richmond 20, Va., 10 (NEDA)

Radio Equipment Co., 821 W. 21st St., Norfolk 10, Va., 10 (NEDA)

Radio Parts Distributing Co., 128 West Olney Rd., Norfolk 10, Va., 10 (NEDA)

Radio Supply Co., 711 Granby St., Norfolk 10, Va., 10 (NEDA)

Radio Supply Co., Inc., 3302 W. Broad St., Richmond 21, Va., 10 (NEDA)

Radio Supply Co., Inc., 2009 Williamson Rd., Roanoke, Va., 10 (NEDA)

Richmond Electronic Supply Co., 800 W. Cary St., Richmond, Va., 10 (NEDA)

Roanoke Electronic Supply, P.O. Box 5196, Roanoke, Va., 10 (NEDA)

Rucker Electronic Prods. Co., 1213 Wilson Blvd., Arlington 9, Va., 10 (NEDA)

Southern Electric Corp. of Staunton, 818 Greenville, Staunton, Va., 10 (NEDA)

Directory IV. Materials & Services

Texas
Utah
Virginia
Washington
West Virginia
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Canada
Hawaii
Japan
Mexico

Virginia Radio Supply Co., 715 Henry Ave., Charlottesville, Va., 10 (NEDA)
Womack Electrics Corp., P. O. Box 521, Danville, Va., 10 (NEDA)

WASHINGTON

Backer, James J., 221 W. Galer, Seattle 99, Wash., 15 (REP)
Tel: ATwater 3-6470
C. & G. Radio Supply Co., 2502-6 Jefferson Ave., Tacoma 2, Washington, 10 (NEDA)
Dooley Co., J. K., 3215 Western Ave., Seattle 1, Wash., 15 (REP)
Tel: ATwater 4-8313
Drake Associates, Inc., Rush S., 1806 Bush Place, Seattle 44, Wash., 15 (REP)
Tel: EAst 3-8545
Farwest Mfg. Div., 209 1st Ave., So., Seattle 4, Wash., 10, 15, 20, 25
Tel: MA 4-5656
Geiger Radio, W. A., 1101 Columbia, Ellensburg, Washington, 10 (NEDA)
General Radio, Inc., 100 Wall St., Seattle 1, Wash., 10 (NEDA)
Haight Co., Fred H., 3212 Eastlake Ave., Seattle 2, Wash., 15 (REP)
Tel: EAst 2-1818
Johnston Co., Ray, 11009 Evanston Ave., Seattle 33, Wash., 15 (REP)
Tel: EMerson 2-0956
Levinson Co., Harry, 1117 Second Ave., Seattle, Wash., 15 (REP)
Tel: MAin 2-5433
Marsh Agencies, Inc., 2601 First Avenue, Seattle 1, Wash., 15 (REP)
Tel: MAin 2-8761
Merritt Co., Ron, 120 West Thomas St., Seattle 99, Wash., 15 (REP)
Tel: ATwater 4-7337
Northwest Electronics, Inc., 730 E. First St., Spokane, Wash., 10 (NEDA)
Northwestern Agencies, 4130-1st Ave. So., Seattle 4, Wash., 15 (REP)
Tel: MAin 3-8882
Pacific Electronics Sales Co., 1209 First Ave., Seattle 1, Wash., 10 (NEDA)
Paramount Agencies, S. 121 Monroe St., Spokane 4, Wash., 15 (REP)
Tel: TEmple 8-2287
Parsons & Co., C. B., 3028 First Ave., Seattle 1, Wash., 15 (REP)
Tel: MUtual 2-6780
Porter Co., Burt C., 1209 Poplar Pl., Seattle 44, Wash., 15 (REP)
Tel: EAst 3-8330
Pringle Radio Wholesale, 2101 Colby, Everrett, Washington, 10 (NEDA)
Schultz Co., N. R., 221 Second & Cherry Bldg., Seattle 4, Wash., 15 (REP)
Tel: MAin 4-8650
Seatronics, Inc., 1806 Bush Place, Seattle 44, Wash.,
Tel: EAst 3-8545
Seattle Radio Supply, Inc., 2117 Second Ave., Seattle 1, Wash., 10 (NEDA)
Smith Sales Co., Don, 2320 N. 45th, Seattle 3, Wash., 15 (REP)
Tel: MElrose 3-3160

100. Distribution.

5. Export & import
10. Jobbers & wholesalers
15. Manufacturers representatives
20. Sales & service
25. Surplus dealers

Stroum Co., Samuel N., 1612 Broadway, Seattle 2, Wash., 15 (REP)
Tel: EAst 3-6117
Taylor Distributing Co., Inc., E. 206 Augusta, Spokane 21, Wash., 10 (NEDA)
Tel-Electric Distributors, Inc., 734 N. Div., Spokane 2, Wash., 10 (NEDA)
Western Electronic Supply Co., 7171 Dexter Ave., Seattle 9, Wash., 10 (NEDA)
Tel: AT 4-0200
Wible Radio Supply, Inc., 2360 S. Fawcett Ave., Tacoma, Wash., 10 (NEDA)
Widdekind, M. K., 222-1st Ave. No., Seattle 9, Wash., 15 (REP)
Tel: ATwater 4-4869

WEST VIRGINIA

Bluefield Supply Co., Princton Ave. at S. Mercer St., Bluefield, W.Va., 10 (NEDA)
Chemcity Radio & Electric Co., 103 Clendenin St., P. O. Box 2066, Charleston 1, W.Va., 10 (NEDA)
Dixie Appliance Co., 232 Bluefield Ave., Bluefield, W.Va., 10 (NEDA)
Electronic Supply, Inc., 422 Eleventh St., Huntington 1, W.Va., 10 (NEDA)
Meyers Electronics, Inc., P. O. Box 3006, 813 Bluefield Ave., Bluefield, W.Va., 10 (NEDA)
Mountain Electronics, Inc., 708 Bigley Ave., Charleston, W.Va., 10 (NEDA)

WISCONSIN

Ackerman Radio Sales, 3861 N. 35th, Milwaukee 16, Wisc., 10 (NEDA)
Ambassador Sales, Inc., 914 Kentucky St., Racine, Wis., 15 (REP)
Tel: MElrose 2-9644
Central Radio Parts Co., 1723 W. Fond du Lac Ave., Milwaukee 5, Wisc., 10 (NEDA)
Dickinson & Assocs., E. A., 744 N. 4th St., Milwaukee 3, Wis., 15
Tel: BRoadway 2-0517
Miller's Electronic Supply, 1329 No. Broadway, Menomonie, Wisc., 10 (NEDA)
Northern Radio & Television Supply, 1585 Main St., Green Bay, Wisc., 10 (NEDA)
Radio Parts Co., Inc., 940 N. 27th St., Milwaukee 8, Wisc., 10 (NEDA)
Standard Radio Parts Co., 1244 State St., Racine, Wisc., 10 (NEDA)
Stark Radio Supply Co., 131 So. 6th St., La Crosse, Wisc., 10 (NEDA)
Taylor Electric Co., 4080 No. Port Washington Rd., Milwaukee, Wisc., 10 (NEDA)

WYOMING

Houge Radio & Supply Co., 4012 Central Ave., Cheyenne, Wyoming, 10 (NEDA)

CANADA

Armstrong Ltd., A. T. R., 700 Weston Rd., Toronto 9, Canada, 15 (REP)
Tel: ROger 2-7535
Electro Sonic Supply Co., Ltd., 543 Yonge St., Toronto, Ontario, Canada, 10 (NEDA)
Lomas Co., E. G., 227 Laurier Ave. W., Ottawa, Ontario, Canada, 5, 15, 20
Tel: CEntral 2-8504
MacQuarrie Sales, J. J., 46 St. George St., Toronto 5, Ont., Canada, 15
Tel: WAlnut 3-2455
McLennan Ltd., D. Eldon, 1624 W. Third Ave., Vancouver 9, British Columbia, Canada, 15 (REP)
Tel: BAyview 2898
Pointon, Charles G., 6 Alcina Ave., Toronto 10, Ontario, Canada, 15 (REP)
Tel: OLiver 7984
Sales Ltd., S & T, 120 E. Cordova St., Vancouver 4, Canada, 5, 10, 20
Tel: TA 4131
Stark Electronic Sales Co., Ajax, Ont., Canada, 15
Tel: AJax 125

HAWAII

Electrical Equip. Co., Ltd., 656 So. Queen St., Honolulu, Hawaii, 10 (NEDA)
Hastin & Browne, P. O. Box 2098, 2663 Terrace Dr., Honolulu, Hawaii, 15 (REP)
Tel: HAwaii, 998910
Piety Factors, Inc., Gene, 2030 Home Rule St., Honolulu 17, Hawaii, 15 (REP)
Tel: 83-105
Precision Radio Ltd., 1160 So. King St., Honolulu 14, Hawaii, 10 (NEDA)
Radio-Television Corp., Ltd., 777 Ala Moana P. O. Box 3920, Honolulu, Hawaii, 10 (NEDA)

JAPAN

Technical Factors, Ltd., 1, Nishi-Nanachome, Ginza, Tokyo, Japan, 15
Tel: 57-3665

MEXICO

Jones, Kenneth H., Apartado 2250, Mexico 1, D.F., Mexico, 15 (REP)
Tel: 46-44-18
Oskam, W. P., Ave. Chapultepee 153-405, Mexico 6, D.F., Mexico, 15 (REP)
Tel: 46-10-50

"Distribution" listings are arranged alphabetically by states. For names and addresses of manufacturing firms, see Alphabetical Directory, pages 141-240.

WHERE SHARING PAYS OFF

SOME YEARS AGO we pointed out in "Proceedings of the IRE" that an amazing and unique characteristic of scientific men is their sense of responsibility to the past and to the future, expressed in their sharing with one another the new findings and discoveries of their science. The fact that engineers share information is a major contribution to the amazing growth of industrial progress and to our high standard of living.

Design Engineers seem to have an impelling need to publish. It is important and fortunate that they have had magazines *in which to publish*. Of Course, their articles make these magazines possible, just as the publishing organization's faith and courage gives them the vehicle for communication. A magazine is a three-way team of author, medium, and reader—mutually dependent.

Such a contribution of one to the other is the vital service of the periodical. The thundering pace of radio-electronics and its expression in communications; glorious hi-fi music; the brilliant, full-color picture; and that same radio principle bringing in a new era in industrial controls which makes automation practical; the amazing time-and-effort-saving electronic computer; and new fabulous developments already being discovered in research which will be made practical by the radio engineer—all these *could not have been possible* without the publication as a means of collating and organizing information, and distributing it to those who needed it and *knew how to work with it*.

These are generalities! But "Proceedings of the IRE" *is specific*. The Superheterodyne circuit, FM, TV, radar, the computer, color TV, the transistor, scatter propagation, solid state electronics (stereatronics) all were presented and developed *article by article* in the history-making issues of "Proceedings of the IRE." The impact on industry of this broad exchange of information among engineers has been enormous, creating new markets and even new ways of life.

FM is an excellent illustration of this "sharing." Consider particularly the "lead out time" needed in FM. In December 1935, an article by Armstrong (an IRE Member) in "Proceedings of the IRE" proved concusively to the engineering world that frequency modulation was an improvement *and practical*. (Today, FM is the audio side of every TV receiver.) This was the fourteenth article on frequency modulation *that has appeared in "Proceedings of the IRE,"* eight of them by Armstrong. It is now known that some of these articles which defined the weakness that had to be corrected, as well as some that amplified the discovery by further independent research, all helped make the final perfection possible.

At that time, in all the world, only four other articles on the subject had appeared. These were condensations of the "discussion" in "Proceedings of the IRE." Yet the final "Proceedings" article was published six years before the first FM broadcasting station went on the air. Engineers needed every bit of this "lead-out time" to do their work. The early publication in "Proceedings of the IRE" gave them just that; and thousands of engineers, who had followed this series, knew in December, 1935 that a great change had come and that they must design and tool up for it. Armstrong shared, "Proceedings" published, and an industry profited!

This is the traditional service of the "old-line" magazine. The author "shared"—the magazine "published"—the reader "studied" and industry progressed mightily through the three-way contribution. Truly, the reader contributes attention! This kind of publishing wins such attention, more than any other kind! It does the ground-work and sales-conviction building that comes years ahead of the final product news.

Advertising shares! The informative "ad" follows exactly the same pattern with exactly the same results. Again and again, display copy in "Proceedings of the IRE" has announced new developments or highlighted the engineering usage of a staple item. Year-after-year, we have seen tiny businesses start sharing their helpful information with readers in "Proceedings of the IRE" and as a result reap orders, prosper and grow. Today in aggregate, they are the giant industry identified as "Electronics."

It is said that the fundamental result of a magazine is to define a market. Since 1913, "Proceedings of the IRE" has defined an unfolding technical radio and electronic market by articles that stimulated the use of new products, and by presenting the manufacturers' stories of these new components, instruments and systems to engineers eager for as many new devices as would serve them well.

Proceedings of the IRE

Editorial Department:
1 East 79th St., New York 21, N.Y.
LEhigh 5-5100

Advertising Department:
72 West 45th St., New York 36, N.Y.
MUrray Hill 2-6606

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BUSINESS REPLY CARD
First Class Permit No. 57217, New York, N.Y.

MR. FRANK G. Mac ALOON
IRE DIRECTORY (Research Div.)
72 West 45 St.
NEW YORK 36, N.Y.

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New York 36, N.Y.

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	10	20	30	40	50	60	70	80	90	303	313	323	333	343	353	363	373	383	393
1	11	21	31	41	51	61	71	81	91	304	314	324	334	344	354	364	374	384	394
2	12	22	32	42	52	62	72	82	92	305	315	325	335	345	355	365	375	385	395
3	13	23	33	43	53	63	73	83	93	306	316	326	336	346	356	366	376	386	396
4	14	24	34	44	54	64	74	84	94	307	317	327	337	347	357	367	377	387	397
5	15	25	35	45	55	65	75	85	95	308	318	328	338	348	358	368	378	388	398
6	16	26	[illegible]	46	56	66	76	86	96	309	319	329	339	349	359	369	379	389	399
7	17	27	[illegible]	47	57	67	77	87	97										
8	18	28	[illegible]	48	58	68	78	88	98	400	410	420	430	440	450	460	470	480	490
9	19	29	[illegible]	49	59	69	79	89	99	401	411	421	431	441	451	461	471	481	491
										402	412	422	432	442	452	462	472	482	492
100	110	120	[illegible]	140	150	160	170	180	190	403	413	423	433	443	453	463	473	483	493
101	111	121	[illegible]	141	151	161	171	181	191	404	414	424	434	444	454	464	474	484	494
102	112	122	132	142	152	162	172	182	192	405	415	425	435	445	455	465	475	485	495
103	113	123	133	143	153	163	173	183	193	406	416	426	436	446	456	466	476	486	496
104	114	124	134	144	154	164	174	184	194	407	417	427	437	447	457	467	477	487	497
105	115	125	135	145	155	165	175	185	195	408	418	428	438	448	458	468	478	488	498
106	116	126	136	146	156	166	176	186	196	409	419	429	439	449	459	469	479	489	499
107	117	127	[illegible]	147	157	167	177	187	197										
108	118	128	[illegible]	148	158	168	178	188	198	500	510	520	530	540	550	560	570	580	590
109	119	129	[illegible]	149	159	169	179	189	199	501	511	521	531	541	551	561	571	581	591
										502	512	522	532	542	552	562	572	582	592
200	210	220	[illegible]	240	250	260	270	280	290	503	513	523	533	543	553	563	573	583	593
201	211	221	[illegible]	241	251	261	271	281	291	504	514	524	534	544	554	564	574	584	594
202	212	222	[illegible]	242	252	262	272	282	292	505	515	525	535	545	555	565	575	585	595
203	213	223	[illegible]	243	253	263	273	283	293	506	516	526	536	546	556	566	576	586	596
204	214	224	234	244	254	264	274	284	294	507	517	527	537	547	557	567	577	587	597
205	215	225	235	245	255	265	275	285	295	508	518	528	538	548	558	568	578	588	598
206	216	226	236	246	256	266	276	286	296	509	519	529	539	549	559	569	579	589	599
207	217	227	237	247	257	267	277	287	297										
208	218	228	238	248	258	268	278	288	298	600	606	612	618	624	630	636	642	648	654
209	219	229	239	249	259	269	279	289	299	601	607	613	619	625	631	637	643	649	655
										602	608	614	620	626	632	638	644	650	656
300	310	320	330	340	350	360	370	380	390	603	609	615	621	627	633	639	645	651	657
301	311	321	331	341	351	361	371	381	391	604	610	616	622	628	634	640	646	652	☐
302	312	322	332	342	352	362	372	382	392	605	611	617	623	629	635	641	647	653	

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Your Name _____ Title _____

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