

PACIFIC COAST EDITION

Vol. VI

February 8 to 14, 1925

No. 6

RADIO DOINGS

THE BROADCAST PROGRAM OF THE LEADING
BROADCAST STATIONS — LATEST RADIO NEWS



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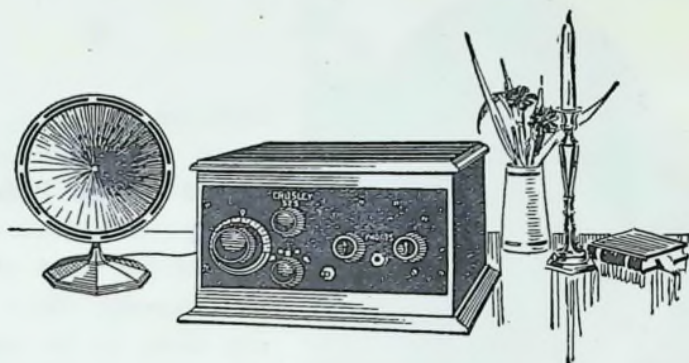
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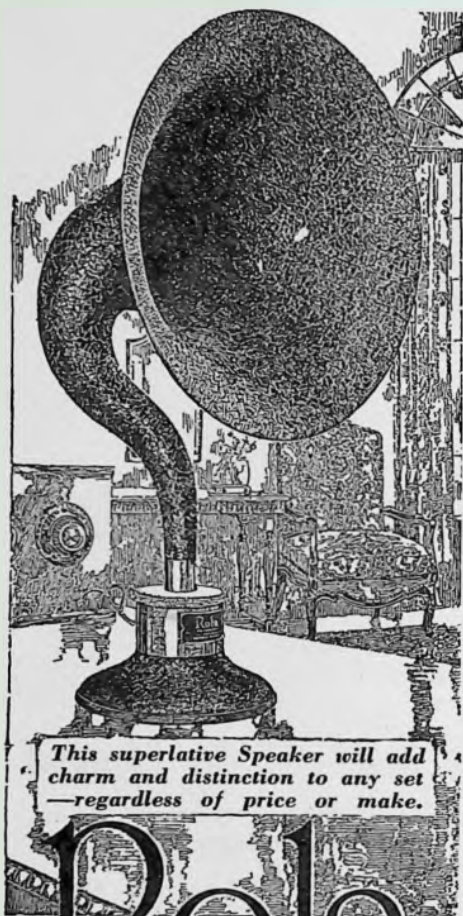
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Los Angeles, California

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LEE FELTSKOG

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Two Dollars a Year

Vol. VI

Los Angeles, February 7, 1925

No. 6

Jaywalkers in Radioland

MANY of us can remember when the automobile made its first appearance. At that time the public seemed to think that this new contrivance should be denied our streets. Today it is generally conceded that it will be but a short time till all horse-drawn vehicles will be barred from the downtown districts of our larger cities. As it was with the auto, so it is coming to pass with radio. Broadcasting and radio reception have been with us but a short time, yet the troubles have been many: two years ago the allocation of wave lengths presented no great problem. If you are desirous of building a broadcast station today you will probably find on making application to the Radio Inspector for a license that he will give you the answer, "Yes, I have no wave lengths," and so we find ourselves in practically the same position as the police departments of our great cities, who are trying to solve the traffic problems that will allow a speeding up of vehicles and pedestrian travel. Something will have to be done in the very near future to keep the traffic of the air clear from the interferences that the listener-in experiences today. The man or woman who is annoying his neighbors with tube "squeals" and howls will find that he or she will be dealt with as the "jaywalker" on our streets. Either new bands will have to be authorized by the Department of Commerce for broadcast stations who desire licenses of the small power stations will have to make way for the more powerful ones. The world is advancing all the time, and what is considered a hardship for some today is acknowledged a necessity tomorrow. Radio has advanced faster than any other known invention, and our lawmakers will have to "step on it" to keep up with its needs.

All the Year for Two Dollars

Do not miss a copy of RADIO DOINGS. Have it mailed every week to your home. Simply sign the blank below. Mail it to us or pay your dealer and let him forward it to us.

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*Exclusive distributors of fine Radio
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Douglas 2940

A New Means of Multiple Broadcasting

Following the announcement by the Radio Corporation that 50-KW broadcast transmitter was contemplated, Secretary Hoover was the recipient of many protests from fans who feared that all other broadcasters would be blanketed and their sets injured by transmissions with this great power.

This RCA station is not built but there is a station in the midst of radioland which is authorized to use as high as 50,000 watts experimentally, and which has used as high as 8,000 watts on short wave lengths. Not a soul has complained of interference, and few have known that this great power was unleashed. The wave lengths used are too low to be received on ordinary sets. This station is our old and trusted friend KDKA, which has been authorized to employ varying power on short-wave or high-frequency transmission in connection with developing rebroadcasting.

Fans need not fear the usurpation of the ether by this pioneer broadcaster; rather, they may look forward with assurance toward a new means of relaying radiophone programs. The plan is to transmit simultaneously important and exceptional broadcast features clear across the country, just as the Bell System delivers its big feature programs to several client broadcasters by wire and the Radio Corporation connects its several stations.

Engineers of the Westinghouse Electric and Manufacturing Co. believe that this short-wave repeating system will eventually be used to cover this country and probably the entire earth with broadcast programs, which stations properly equipped can pick up and retransmit locally. If the system now in operation between KDKA, at East Pittsburgh, and KFKX, at Hastings, Neb., was extended, with stations at Paris and London, international broadcasting could be established much more readily and probably more efficiently than by means of a proposed super-powered transmitter, they believe. The short-wave system would prevent interference in the broadcasting band, and would make the programs available for rebroadcasting by authorized stations.

In other words, although KDKA, one of the two broadcasting development stations, is permitted to go as high as 50 KW in power it is believed that such high power will never be needed due to the surprising ease with which short waves travel even in daylight. The experiments going forward may be a means of aiding the smaller broadcasters.

Last October the experiments of the Westinghouse engineers reached the point where perfection of the short-wave transmission was realized. A dinner concert by a well-known orchestra was successfully picked up by a special short-wave receiver at the Hotel Savoy in London where the guests danced to Pittsburgh music. During the international broadcasts, KDKA's short wave was reported as heard consistently in Europe throughout the tests. A year ago a special New Year's program from the Pittsburgh station was received at 2 LO, London, on a short-wave set and repeated for the fans in Great Britain from eight stations of the British Broadcasting Co. Last spring a Spanish program was transmitted from KDKA and KFKX to several points in South America and South Africa. Programs on short waves have also gone to the far north successfully.



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Jan. 27, 1925.

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I want to express my appreciation for the wonderful results that I have been getting from my new Model #20 Atwater Kent Radio Set.

I have previously tried several other makes of sets without a great deal of success, but I can heartily recommend your #20 Model for both selectivity and distance, together with clearness and volume of tone.

Wishing you continued success, I am,

Sincerely yours

Barney Oldfield

*There is an Atwater Kent dealer near you who will gladly demonstrate
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The Development of the Short-Wave Transmitter

In the interest of developing broadcasting transmission for long distances, without greatly increased power, Westinghouse engineers began experimenting in 1920, actually before KDKA was licensed as a regular broadcaster. Assistant Chief Engineer Frank Conrad had a hobby; it was to communicate by radio with J. C. Ramsey of Boston. He used a 100-watt set and sent his messages on a wave length of 250 meters, but reception in Boston was never excellent and often impossible, especially in the summer. These two men continued their experiments, however, employing shorter wave lengths rather than higher power. Further experiments between station XK, Mr. Conrad's Wilkenburg station and Mr. Ramsey's station in Boston with the co-operation of R. D. Decker and the Massachusetts Inst. of Tech. station, in 1921, covering several of the shorter wave lengths showed a gain in received signal strength with the shortening of the wave length. A decrease in interference was also noted. Improvements in transmitters and antennae followed, and in 1921 with a 60-meter wave length, much greater reliability was secured than on 250 meters. Finally Vice-President H. P. Davis of the Westinghouse Co., known as the "Father of Radio Broadcasting," authorized Mr. Conrad to construct a new high-powered short-wave transmitter. This became an auxiliary set at station KDKA and carried simultaneously the regular KDKA program on 90 meters. Various transmission difficulties were found but were finally overcome. A test with a broadcasting station at Cleveland showed that short-wave signals on 91 and 80 meters were received much louder than the regular KDKA broadcasts, and that daylight reception was better.

Technical difficulties, especially in distortion, were encountered but eventually reports from several places in the United States indicated that it might be possible to cover the country on short waves. The erection of KFKX at Hastings, Neb., with a view to trans-continental relaying was the immediate result and two new 10-KW transmitters were authorized. The first real test was in November, 1923, when a talk given in Pittsburgh was transmitted from KDKA, on 100 meters, picked up by KFKX and retransmitted on 286 meters, on which wave length it was received satisfactorily at Salt Lake City. This was the first short-wave long distance relay, the engineers point out.

It is believed that ultimately this means of broadcast relaying will be employed by the Westinghouse Company to distribute a single high-class program from a central station. That is, KFKX will put on a program just as WEAJ does, sending it out on non-interfering short waves instead of on wires, to all its stations including KFKX, Hastings; KYW, Chicago; KDPM, Cleveland; WBZ, Springfield; KGO, San Francisco, and probably many other broadcasters.

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Los Angeles

The Making of a Radiotron

There are four types of Radiotrons made for the reception of broadcasting used in radio receiving outfits. One type is supplied with two different bases, making five tubes in all. The characteristics and appearance of these tubes are as follows:

UV-199	UV-201A	UV-200	WD-12	WD-11
3.0 Volts (Filament) .06 Ampere (Filament)	5 Volts (Filament) 0.25 Ampere (Filament)	5 Volts (Filament) 1 Ampere (Filament)	1.01 Volts (Filament) 0.25 Ampere (Filament)	
0-80 (Plate) Volts Detector and Amplifier	20-100 (Plate) Volts Detector and Amplifier	12-25 (Plate) Volts Detector only	20-30 (Plate) Volts Detector and Amplifier	

The elements in a Radiotron consist of a "filament" as in an incandescent lamp, surrounded by a "grid" which in turn is surrounded by a "plate." In the UV-201A and UV-200, the filament is the shape of a hairpin; in the others the filament is a straight wire. The grid of the UV-201A and UV-200 is oval shape, in plain view, the others are cylindrical in form.

The three elements are mounted in a glass bulb, from which the air is later exhausted to a high degree. The degree of vacuum in the UV-200, however, is not as high as the others, and it is called a "soft" tube, the others being called "hard" tubes. The elements are rigidly supported, so that they will not make contact with each other. "Leading-in" wires, connecting the elements with the terminals of the base are sealed into glass, making an airtight joint. Two wires are required for the filament, one connected to each end, hence, four wires pass through the seal. These wires, where they pass through the seal, are of a special composition, which expands and contracts at about the same rate as glass.

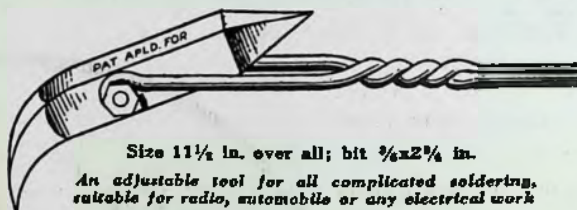
The elements are mounted on a glass "stem," this "mount" being inserted into a bulb. The "flare" on the stem is fused to the neck of the glass bulb, the air is exhausted through a glass tube, which is then melted off. The base is cemented to the neck of the bulb, the four leading-in wires being soldered to the terminals of the base.

A short piece of glass tubing is heated at one end, and when soft, is flared out. This flared tube is then heated at the other end, the necessary leading-in wires and extra supports for the elements having been inserted in the tube. When the glass is soft, the tube is pinched together forming the seal, the wires becoming imbedded in the glass. The various wires are then bent the proper shape and cut to the proper length. The stems are then tested for open circuits, crosses and short circuits.

The tipless tube has its "tip," the closed end of the exhaust tube, covered by the base, whereas formerly it was exposed on the end of the bulb. The exhaust tube, in the tipless construction, is inserted in the stem tube at the same time the wires are inserted. When the end of the stem tube is pinched together, the exhaust tube is welded to it at the same time. This end of the exhaust tube then becomes closed, and is opened up at the pinched seal by a

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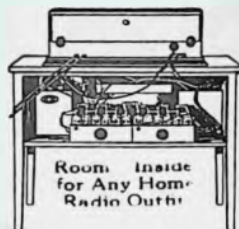
*Windsor Loudspeaker
Console*

Patented Nov. 18, 1924

Ample Space for
All the Rest of
Your Outfit!

A piece of real living room furniture of pleasing lines and finish—and it accommodates all the miscellany of equipment which hitherto had no place except on table tops, shelves or floor. Ample space on top for any set, with plenty of elbow room in front. Nothing in sight but the dials. Everything else goes inside—from behind—in spaces cleverly designed to hold the largest batteries and outfit—besides the self-contained loudspeaker—all unseen and protected from dust or disturbance.

It does a better job of reproducing, for it has the best unit of all that have been tried and its sound-box is of resonant wood instead of metal, fibre, or composition.



Room Inside
for Any Home
Radio Outfit



Top Accom-
modates Any
Radio Set
Knee Room
Below

Clip This Coupon and Get the Facts

THE WINDSOR FURNITURE COMPANY

Inc. Chicago, 1885

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I am a } Dealer { and would like your descriptive pamphlet giving full
 } Fan { details of the Windsor Loud Speaker Console.

Name _____

Address _____

24 (R.D.)

slight air pressure being put on the open end of the exhaust tube while the seal is still hot. The tipless tube is a great advance over the previous tube as it eliminates the cause of failure by damage to the exposed tip. For forty years lamp manufacturers have endeavored to produce a tipless lamp, but heretofore the expense has prohibited its general commercial adoption.

The filament is then put inside the grid, both of which elements go inside the plate. The three elements are electrically welded to the proper supports and leading-in wires. In the UV-201A and UV-200, in addition to the leading-in wires supporting each element, there is an additional support for the filament, another for the grid and still another for the plate. Thus, in these Radiotrons, there are seven wires imbedded in the seal, only four of which go through it to connect with the base.

In the UV-199 there are no other supports imbedded in the seal, the upper end of the grid and plate being fastened to wires imbedded in a piece of glass, which is fastened to the leading-in wire connected to the upper end of the filament. In the WD-12 (and WD-11) there is an extra support for the plate.

The mount is inserted in the bulb and gas flames heat its neck. When the glass is soft, the neck of the bulb welds to the flare on the stem of the mount which has also become heated. This makes an airtight joint, the glass having been fused. The only opening to the inside of the bulb is now through the exhaust tube, which is welded to the bulb. This is done by blowing a hole through the "bowl" of the bulb while the bowl is heated by a fine pointed flame. A piece of tubing is then welded to the edge of the hole.

The air is next exhausted from the bulb. The exhaust tube is connected to a vacuum pump, the bulb being held in an oven. The heat assists the pump in drawing out the air and moisture, the final traces of air being removed by chemicals put inside the bulb. In the UV-200, after the bulb has been exhausted, a slight trace of an inert gas is purposely put in the bulb. These chemicals are vaporized and the elements in the bulb are heated by a coil of wire surrounding the bulb. A very high frequency alternating current is passed through this coil inducing currents in the metallic parts inside the bulb. These currents are of such size that they heat the metallic parts red hot. This is similar to a short circuited secondary coil of a transformer, the coil outside the bulb being the primary coil of the transformer.

The heat produced vaporizes the chemicals which condense on the cooler surface of the bulb, coating the inside of the bulb in the case of the UV-201A and UV-199 with a mirror-like deposit. The chemicals used in the UV-200, WD-12 (and WD11) do not discolor the bulb.

The exhaust tube is then melted off and bared. Some basing cement is smeared on the outside edge of the base, the four leading-in wires being threaded through the holes in the base contacts as the base is put on the neck of the bulb. The tubes are then passed through a heater, which hardens the cement. This done, the excess length of leading-in wires is cut off and the ends soldered to the base contacts.

The manufacture of the radiotron is now completed, and appears as in Fig. 1.

WE FIX 'EM OR NO CHARGE

**We really do make Super-Heterodynes, Ultradynes and Neutrodyne
play real distance**

If we can not repair your radio so it will play Middle West Stations, there will be no charge. We do not add any extra equipment. We calibrate and match supertransformers.

SET OF 4 GUARANTEED SUPERTRANSFORMERS \$16.00

PALMER RADIO CO.

Successors to

YOUNGQUIST & PALMER

FOR REAL RADIO RESULTS

You'll never know what your set can do until you hook up to it Willard A and B Rechargeable Batteries.

Willard B Batteries put an end to noises caused by electrical leakage or internal action in ordinary B batteries. They last for years, instead of for weeks or months. They can always be kept working at the peak of their power with an occasional recharging. And they save you money.

Within the past year more than 100 broadcasting stations have replaced ordinary batteries with Willard B Batteries.

Willard A Batteries, equipped with Threaded Rubber Insulation, maintain their voltage for long periods without recharging.

All These Dealers Sell Willard Batteries

Burbank—John Null
Ontario and Upland—
R. J. Tobey

Long Beach—A. C.
Walker

Santa Ana, Orange,
Fullerton — Orange
County Ignition
Works

Monrovia—Emil Lind-
strand

San Bernardino—C. H.
Stickel

Whittier — Whittier
Auto Electric Co.

Pasadena—F. W. Bir-
nie,

Riverside — Mission
Auto Electric Co.

Anaheim—A. Bevilard
Glendale—E. W. Cizek
Co.

Santa Monica — Guy
Hammond

Gardena — Gardena
Battery & Ignition

San Pedro—AutoElec-
tric Service

Santa Barbara—Lamb
Auto Electric Co.

Alhambra—Alhambra
Auto Electric Co.

Torrance—Torrance
Auto Electric

Los Angeles—Western Auto Electric Co., any Radio Jobber or Dealer or
any Willard Service Station.

San Francisco—Julius Brunton & Sons Co.



Each radiotron, however, has to pass through several tests before it is packed for shipment to insure that the product is up to standard.

Each Radiotron is first tested to see if the filament lights up and that there is no short circuits, open circuit or cross between any of the elements.

Each tube is then tested for its degree of vacuum, this being a complicated electrical test. Unless the tube has the proper degree of vacuum, it is rejected and destroyed. Each tube then is measured for electron emission, another intricate electrical test. Again, unless the tube has a certain minimum electron emission it is rejected and destroyed.

The final test is another intricate electrical one. The amplification and impedance of each tube is measured to see that they come within certain proscribed limits. In this test the tube is put into actual operation as in a radio receiving set.

Thus each Radiotron is thoroughly tested before it is shipped to the consumer to insure it giving proper service.

New B. C. Stations and Changes

Six new Class A stations licensed week ending January 24, 1925.

Call	Six Class A Stations—	Frequency Keys	Wave Lgths. Meters	Power Watts
WBRE—	Baltimore Radio Ex., Wilkes-Barre, Pa....	1300	231	10
KFUV—	G. Pearson Ward, Springfield, Mo.....	1190	252	10
KFUW—	Earl William Lewis, Moberly, Mo.....	1290	233	10
WGBK—	Lawrence W. Campbell, Johnston, Pa.....	1210	248	5
WGBL—	Albert H. Ernst, Elyria, Ohio.....	1320	227	10
WSRF—	Harden Sales & Service, Broadlands, Ill...	1290	233	10

TRANSFERRED CLASS C TO CLASS A

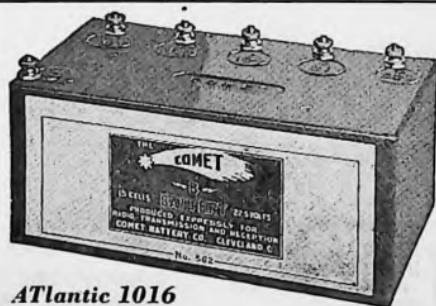
WKY—	WKY Radio Shop, Oklahoma City, Okla...	190	275	100
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TRANSFERRED CLASS A TO CLASS B

WEMC—	Emmanuel Missionary College, Berrion Springs, Mich.....	1050	285.5	500
WJJD—	Supreme Lodge, Loyal Order of Moose, Moosehart, Ill.	990	302.8	500

TRANSFERRED CLASS C TO CLASS B

WCAL—	St. Olaf College, Northfield, Minn.....	890	336.9	500
WSAC—	Clemson Agri. College of South Carolina, Clemson College, S. C.....	890	336.9	500



Atlantic 1016

Guaranteed Satisfaction "COMET" BATTERIES

Constant voltage—a steady, unwavering flow—insuring volume and clearness of tone!

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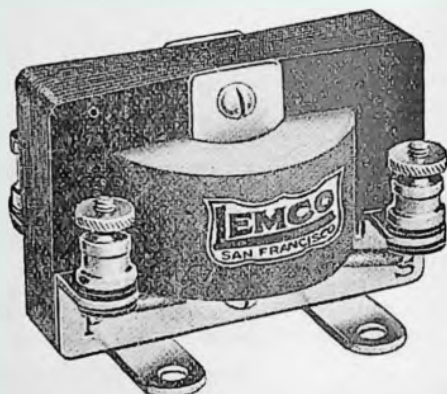


No. 300 FIXED CRYSTAL 60c

The No. 300 Fixed Crystal Detector is especially designed for reflex and crystal receiving sets. Built of the best material obtainable on automatic machinery, carefully tested and guaranteed. Finished in nickel or black enamel.

No. 401 AUDIO TRANSFORMER \$3.50

The No. 401 Audio Frequency Transformers are designed with low core densities at normal operating frequencies and for operations with all standard tubes. The coils are machine wound to insure accuracy and uniformity. The finest rolled Silicon steel is used for the magnetic circuit, which is so designed and assembled as to insure even distribution for flux through the entire circuit.



This transformer is substantially and neatly assembled, with heavily nickel plated mounting brackets and terminals conveniently located for connections. Designed for all Audio Frequency amplifying circuits, insuring extreme sensitivity, quietness and freedom from distortion.

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J. D. COLFORD CO.

400 San Fernando Bldg., Los Angeles

Manufactured by

LEE ELECTRIC & MANUFACTURING CO.

220 Eighth St., San Francisco

Human Antenna Idea Startles Radio Fans

And a Cat "Aerial" Brings in Music at 1200-Mile Range

From one end of the United States to the other and in many parts of Canada radio fans are experimenting with the human antenna mystery.

To most of them the idea was absolutely novel, although known for a long time by radio engineers, with different explanations for its efficiency.

The experiments are the result of the reading of a telegram by Station WOS, Jefferson City, Mo., to the effect that its concert was being received in Brooklyn by the simple reason of having a member of the party listening in place his hand on the antenna post of a Freed-Eisemann receiver. This happened at 9 o'clock, eastern time, when WOR, WJZ, and other powerful local stations were on.

The same night thousands of listeners tried the stunt, either disconnecting all wires or leaving just a short ground wire on their sets. The Freed-Eisemann Radio Corporation heard from many who were enthused over the results.

F. P. Davidson, in Seneca, Ill., tuned in KFI, Los Angeles, at midnight, central time, using loud speaker, with a member of the listening group as "aerial." Dr. John K. Griffith of Slidell, La.; G. N. Robinson, Peru, Ind.; L. R. Tallman, Shelbyville, Ill.; Harry Rosenbush, Lansing, Mich., and others reported wonderful reception of WOS. Many got DX without either antenna or ground, but best results were made with the capacity effect of the human body.

Eric Palmer of Brooklyn then tried the idea with a cat. In the short time that the family pet could be induced to keep a paw on the antenna post, the music came through from WOS.

THE LAST WORD IN RADIO THE MOHAWK

"Just One Dial to Tune"

SIMPLICITY — SELECTIVITY — TONE PURITY

Model VA.....\$150.00

Console Type.....\$300.00

So. Calif. Radio Co.

(The Albin Organization)

2135 West Pico St.—Phone BEacon 7439

Los Angeles

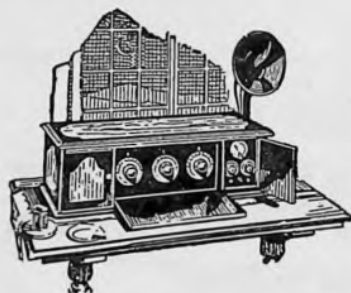
OPEN EVENINGS



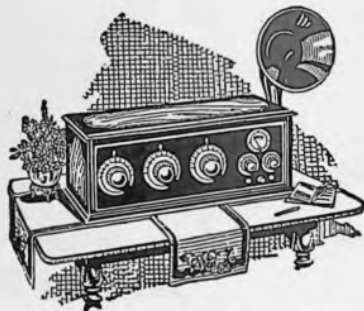
GILFILLAN NEUTRODYNE

BUY NOW!—One of these fine sets that leads all others in Selectivity and Power to get Distance.

Don't delay the enjoyment of radio in your home, but arrange at once to purchase a Gilfillan Neutrodyne. You'll have a set good for 10 years to come!



Style GN1—in a handsome cabinet of American Walnut with doors. Price, without accessories, **\$175**



Style GN2—in smaller cabinet of American Walnut. Price, without accessories, **\$140**

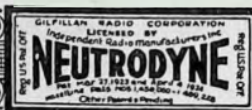
See and Hear Them at Your Dealer's

GILFILLAN BROS. INC.

1815 West 16th St., Los Angeles, Calif.

NEW YORK
KANSAS CITY

OAKLAND, CAL.
LOS ANGELES, CAL.



Radio Bible Class—Bible Institute of Los Angeles KJS

Lectures by MISS M. W. ROUZEE

Feb. 12, 8 p. m. The Bible—an Historic Book, the witness of archaeology and contemporaneous history.

Feb. 19, 8 p. m. The Bible—a Prophetic Book—its identification with current events.

Feb. 26, 8 p. m. The Bible—Christo-centric—its entire message presents Christ.

The above series will consist of four compact thirty-minute talks delivered in popular style, with technical phraseology omitted. The opportunity will be presented to the great family of radio fans to pursue a consecutive series of studies in the Bible, which will be of great interest. It is especially urged that you have a note book and pencil ready each Thursday evening in order to conserve the work. Also, it would be greatly appreciated if those listening in would kindly send a postal card bearing their name and address. Our friends have reported a number of long distance receptions, and we are anxious to announce in later issues of Radio Doings, over how many thousands of miles this great radio class extends.

In 1924, as in all other preceding years, the Bible was the world's best seller according to the statistics of book concerns. There is small cause for wonder in this when we stop to consider this Book—the Bible—the Book of richest romance, and most thrilling history,—the Book of startling anticipations of science, and sober recital of pre-historic aeons,—the Book that often pre-writes the morning headlines of our newspapers,—the Book from whose pages a living Personality speaks to us,—the Book that will take us safely through unknown portals ahead,—this Book—the Bible—God's revelation to man!

The Turkish government has admitted on principle the installing of private radio receivers all over Turkey, but radio transmitters for private use are strictly forbidden.

**The GREBE Synchrophase**

MU2.6 Tube Dry Cell Type, Complete, Ready to Tune In— **\$235**
Only at PLATT'S—for.....

Famous for Clarity, Volume, Selectivity and Distance

**Advance
Model 4
Radio**

PLATT
MUSIC CO.

231 S. Western Ave. ~
901 Temple Street
2100 Brooklyn Ave.
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OPEN EVENINGS

620-622 S. BROADWAY

SEVEN STORES

6614 Hollywood Blvd.

134 So. Pacific Blvd.

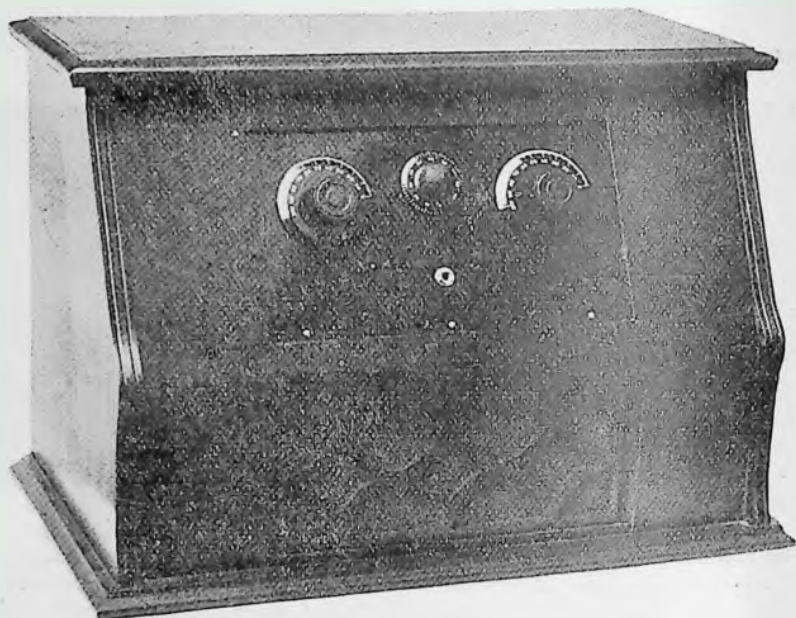
Huntington Park

**Genuine
Radiolas
\$35 Up**

A
♦

THE ACE

OF RADIO



**NATIONAL TWO-TUBE SET
INSTALLED COMPLETE**

\$65⁰⁰—

With Loud Speaker and Unit "A" Tubes, "B" Batteries, "A" Battery Eliminator in place of Storage Battery, "C" Battery. Beautiful mahogany finish Cabinet, with all accessories enclosed.

Dealers, Write or Phone VERmont 4554

NATIONAL RADIO CO.

4325 So. Vermont Ave.

LOS ANGELES

♦
V

Radio in the Painted Canyon

A party consisting of six people traveling in two operadio automobiles took a tour from Los Angeles, through the Colorado Desert to San Diego, and back by the coast route. They took with them a portable Operadio set. One of the interesting side trips that they took, on this tour, was a trip up Painted Canyon, one of the most interesting spots in Southern California. Nature has torn the mountains into high peaks, valleys, gullies, dunes, etc., it has at the same time added many beautiful streaks of red, dark blue, purple and dull yellow. This is why it gets its name of Painted Canyon.

The party camped six miles up this canyon and were totally surrounded by mountains, from a thousand to twenty-five hundred feet high.

During the evening, between the hours of 8 and 12, they brought in the following stations on the loud speaker, using the top of the set as a loop aerial: KGO, Oakland; KPO, San Francisco; KFO, Long Beach; KGW, Portland, Ore.; KFPT, Salt Lake City; KOA, Denver, Colo.; KAKX, Hastings, Neb.; KOB, New Mexico State College, New Mexico; KNX, Los Angeles; KFI, Los Angeles; KHJ, Los Angeles. We believe that this is a very good record for a loop set, working under the conditions as existed in this canyon on the edge of the Colorado Desert.

Magazines on the Air

First we had radio newspapers and now the magazines are going on the air with many features calculated to appease the insatiable thirst of the fans. Of course, contents of the magazines are not actually read over the air, but the editors and star writers appear and give talks on current topics or subjects covered by their publications.

WGBS in New York features humor, the editors of Judge and Film Fun being scheduled regularly. KYW, Chicago; WBZ, Springfield, and KDKA, Pittsburgh, broadcast talks from the staff of "Our World." WRC at Washington puts on a weekly feature by members of the National Geographic Magazine, and the Outlook.

The program of New York's station WJZ probably includes more magazine editors and men than any other broadcaster; a writer of Vogue talks on etiquette, a representative of Harpers furnishes a weekly talk on books, and twice a week a financial review is given by someone from the Wall Street Journal. Other magazines on the air from WJZ, so to speak, are Field and Stream, Time, Review of Reviews, Needle Art, Collier's, Scottish American, and Good Housekeeping.

WTAY, Oak Park, Ill., broadcasts weekly technical radio talks by officials of Radio Age. WGI has the Youth's Companion service.

In agricultural districts some stations carry talks from editors of farm and agricultural publications, and several well known correspondents and writers are scheduled regularly by others.

"THE RADIO DOCTORS"

Service That Satisfies

WE can definitely determine the reasons for inferior results with any type set, and can repair or rebuild and guarantee complete satisfaction.

OUR SPECIALTY—Custom-built sets to fit your Console, Phonograph, Book Case, Automobile and bank account. Our sets are doing distance now. Is yours?
If not, Phone DElware 3978. Consultation Free.

R. O. GORDON

N. P. JACK

Laboratory 510 East Saturn St., Huntington Park, Calif.

"The Stradivarius of Radio"



\$15.00

FROST-RADIO

Ask Your Neighbor

Awarded first prize at the
New York Radio Show

Black Bakelite bell, black crackle
finish tone arm, aluminum
lined.

Pacific Coast Distributors

LOS ANGELES

The Electric Corporation
Leo J. Meyberg Company
Graham Reynolds Electric Company

SEATTLE

The Electric Corporation
The L. C. Warner Company

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Leo J. Meyberg Company
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Pacific Telegraph Institute
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HERBERT H. FROST, INC.

Pacific Coast Office: 443 S. San Pedro St.

Los Angeles

Radio

By JOSIAH BOND

I

The Little Folks

As twilight, warning brings of night obscure,
And pulses quicken to the slow advice,
The stars appear in pendent Cynosure,
And falls like sparkling dew, a program nice!
Exciting fairy legends parallel
A travelogue or tale of asphodel;
Uncles and aunts and cousins of the air,
Relate their bedtime stories ere the prayer,
The "Now I Lay Me," serves as antidote
To all sore thoughts, entailed by daylight's glare,
As rhythmic voices from the ether float!

II

The World of Music

Now, masters, choirs and choruses inure!
Orchestral overtures now add their spice!
Now, organ melodies ring clear and pure!
The air seems one harmonious paradise!
The violin but aids the tinkling bell;
Piano, harp, and trombone volume swell;
Lyric sopranos, minstrel altos pair;
The tenors carol, and the basses share;
The trios and quartettes enchant by note;
The opera becomes a siren snare!
As rhythmic voices from the ether float!!

III

Amusements

How voices from the air, please and allure!
Impersonations of all kinds entice;
Festivities and revels less demure;
Interpretations various and precise:
The minstrel shows that for great fun excel;
The comic dialogues that frolics spell;
Quaint strains for old-time waltzers debonair,
While cornets quaver and the tubas blare.
Both joyful jazz, and classic airs by rote,
For newer steps to grace our modern fare;
As rhythmic voices from the ether float!!!

IV

Educational

And other uses that must soon mature!
The lectures on the choice of words give rise
To better writ debate; a brief brochure

SERVICE

Let Us Help You on Your Radio Troubles

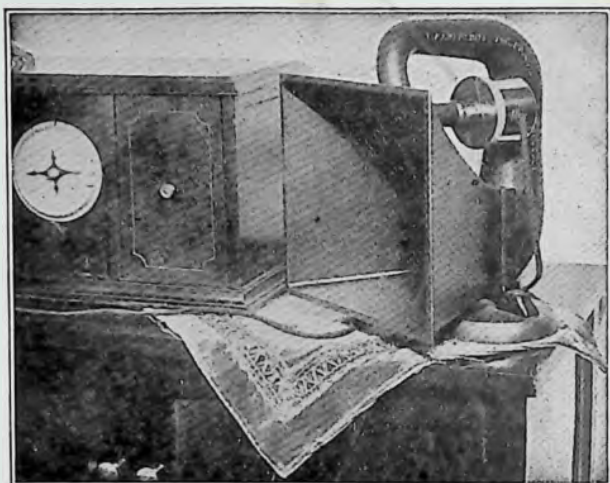
Plenty of Radiolas for Your Inspection

Golden State Electric Company

TRinity 4671

826 South Flower St.

ONE DEMONSTRATION OF THE



Ovenshire Symphony Speaker

"The Stradivarius of Radio"

Will convince you that it is the truest and best. It is not just another "Loud Speaker." It is a scientifically constructed instrument. Step in to your dealer's store and ask him for a demonstration. Then notice how faithfully the Ovenshire Symphony Speaker reproduces all the notes of the scale.

PRICE WITHOUT UNIT, \$22.50—CABINET MODEL, \$30.00

ASK YOUR DEALER

If he cannot supply you, we will be glad to do so.

HOWLAND & DEWEY CO.

EASTMAN KODAK CO.

510 So. Broadway
Los Angeles

545 Market St.
San Francisco

On farming, orcharding, or cutting slice
Of bread by housewife; the classic well
Is sounded; and the dramas fidgets quell!
All poetry is subject to the reader's care,
And literature is stripped completely bare,
To furnish courses over which to gloat,
And which will warrant our discerning flair!
As rhythmic voices from the ether float!!!!

V

Religious Helps

And as for sacred things that will endure!
We have them all for ours without a price;
Embracing which will make our hopes secure,
And worthy of a Savior's sacrifice!
Religion that can guide us and compel,
Is ours for listening in where'er we dwell!
The hymns and chants, with gospel quite four-square,
The priest, intoning from cathedral chair,
The pastors, who their services devote;
All these are ours, with very much to spare,
As rhythmic voices from the ether float!!!!

Envoy

Ho! Friends of radioland! No one can tell,
When slowly tolls for you the final knell:
Therefore give thanks, while yet you dare,
Before you're called to tread the golden stair,
That you have chances such as these we quote;
And use full well the treats the waves declare:
AS RHYTHMIC VOICES FROM THE ETHER FLOAT!!!!!!

Dealers and Set Makers

YOUR
OPPORTUNITYLet Blax AC. Polarizer Sell
Your Sets

Others Are Doing It—Why Not You?

ELIMINATES STORAGE
BATTERY

On Reflex Sets

Satisfaction Guaranteed

Price \$1.25 C. O. D.

Just Send Your Address

BLACK BROS., Inc.

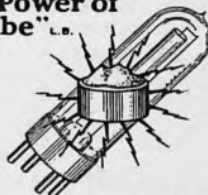
502 Black Bldg., Los Angeles

RADIO JOBBERS

We Want You to Distribute

A-1 THE WONDER
CRYSTAL

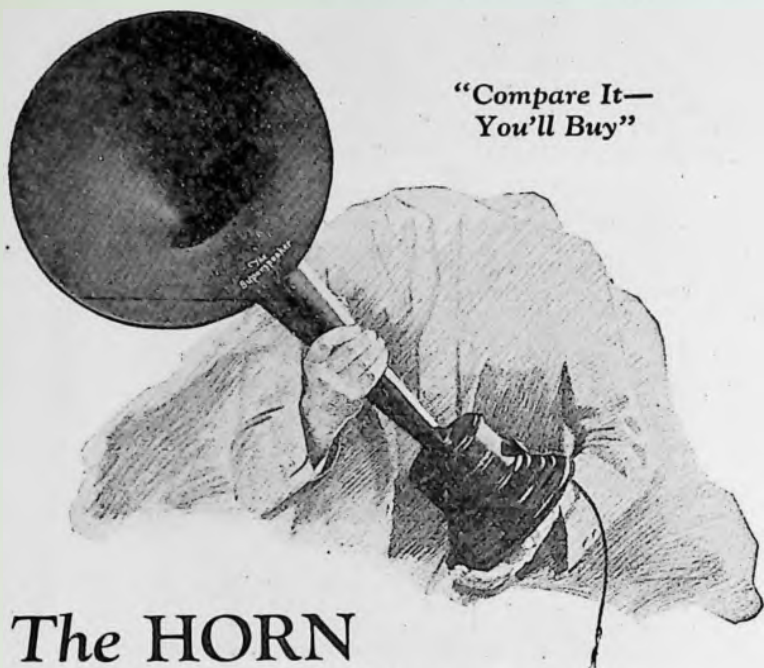
To Dealers.

Our Jobbers' Discounts Sent
on Request."The Crystal With
the Power of
a tube" L.S.A-1 THE WONDER
CRYSTAL

Manufactured by

California Radio Minerals
Harry Grant, Jr.904 Oak Grove Ave.
Burlingame, Calif.

COPYRIGHT 1924 BY H. GRANT



"Compare It—
You'll Buy"

The HORN with the "WHY"

When you first hear Radio through the Jewett Superspeaker, you marvel at the amazing accuracy and volume of the reproduction.

Yet there is no mystery in Superspeaker performance; it is based on laws you yourself can easily understand.

One could never jam the massed harmony of a full brass band through the eye of a needle. So the Superspeaker horn is ample in size for the work it must do.

Also sound, as you know, moves in a direct line. The Superspeaker throat is therefore straight as an organ pipe, avoiding the bugling effect due to the crooks or curves. And its inner surface is smooth and glossy, never tripping or confusing the waves of music or voice.

Just listen to The Superspeaker! Compare its performance with that of any other loud speaker in the world. The difference will amaze you.

No extra batteries—Exclusive air-gap adjustment to modify results from nearby stations, and increase strength of those from far away—A true musical instrument, built and guaranteed by the million-dollar company whose name it bears. Sweep the ether with a Superspeaker!

JEWETT RADIO & PHONOGRAPH COMPANY
5692 Twelfth St., Detroit, Mich.

The Superspeaker

Trademark
Registered

Born Deaf, Hears California Music

Mrs. Henry C. Small, living near Holt, Mich., has been unable to hear a sound since birth. She cannot converse and she cannot hear a person talking next to her. And yet on Thursday night she listened in and heard music broadcast all the way from Texas and California.

Thus another wonder of radio was demonstrated when Mrs. Small affixed the head phones to her ears, and was able to listen to music and talking for the first time in her life of about 26 years. The sounds were strange. She could not understand them, but she wrote out her impressions, and others listening in at the same time confirmed them.

She had previously listened in on a radio once and distinguished sounds slightly, but this was the first time that they came clearly. The seeming miracle was accomplished over a home-assembled 5-tube set. Her father-in-law has promised to buy her a set, so while she will be unable to hear her own friends in the same room, she can enjoy the radio programs of the nation.

An Evening at KNX—Hollywood

Station KNX, known as the "Voice of Hollywood," has been on the air since October, but as it has only operated on 500 watts, distant radio fans have not come to know it as well as may be possible now that the power is to be increased to 1000 watts. It is situated literally in the heart of Movie Land and the denizens of the radio world are becoming more and more interested. Even at home in Hollywood, the local screen fans seldom see their favorites on the street and almost never hear their voices. Now, however, some star of the movies drops into the studio almost every night and usually is persuaded to go on the air. Generally these luminaries seem to enjoy broadcasting, and as most of them have been on the speaking stage, they put their stuff over well. So the citizens of Hollywood, Los Angeles, and for considerable distances up the coast and inland, are getting acquainted with the voices of the screen. Programs of various features are broadcast every night, but it is the Movie nights which attract the most attention.

Among those who have spoken through the "Mike" of KNX are Lois Wilson, Lew Cody, William Desmond, Walter Hiers, William Hart, Richard Headrick and Robert Eastman. Usually they prepare their "stuff" in advance, but Cody spoke extemporaneously, relying on his memory for his jokes. The Los Angeles Evening Express studio is now located in a small room partitioned off from a large automobile sales room and will accommodate only about fifteen visitors at a time. Others, however, may peer through the windows in the partitions as they stand on the cars stored in the adjoining room.

The Charger With 10 Points of Superiority

For all
Radio
Batteries



1. No bulbs.
2. No liquids.
3. Quiet.
4. Cannot harm battery.
5. Efficient. Current cost for full charge about 10 cents.
6. Has indicating ammeter.
7. Correct 6-ampere charging rate.
8. Listed as standard by Underwriters' Laboratories.
9. Only two wearing parts.
10. Built in handsome black case with Bakelite panel.

At Radio Dealers

VALLEY ELECTRIC CO., Rialto Bldg., San Francisco, Cal.

Valley Battery Chargers

6-8 A. M.
PACIFIC TIME

RADIO TIME TABLE

7-9 Mountain Time
8-10 Central Time
9-11 Eastern Time

STATION	WATTS	CITY	METERS	CALL	SUN		MON		TUES		WED		THUR		FRI		SAT	
					6:00-6:30	6:30-7:00	6:00-6:30	6:30-7:00	6:00-6:30	6:30-7:00	6:00-6:30	6:30-7:00	6:00-6:30	6:30-7:00	6:00-6:30	6:30-7:00	6:00-6:30	6:30-7:00
Reynolds Radio	250	Denver	283	KLZ														
Free Press	500	Detroit	517	WGX														
Detroit News	500	Detroit	517	WWJ														
Woodmen of W.	500	Omaha	522	WAOW	X	X												

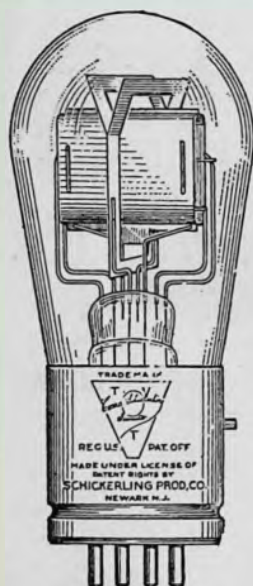
8-10 A. M. PACIFIC TIME

9-11 Mountain Time

10-12 Central Time

11-1 Eastern Time

STATION	WATTS	CITY	METERS	CALL	SUN		MON		TUES		WED		THUR		FRI		SAT	
					8:00-8:30	8:30-9:00	8:00-8:30	8:30-9:00	8:00-8:30	8:30-9:00	8:00-8:30	8:30-9:00	8:00-8:30	8:30-9:00	8:00-8:30	8:30-9:00	8:00-8:30	8:30-9:00
Echophone Radio	100	Long Beach	234	KFON														
Reynolds Radio	250	Denver	360	KLZ														
Star-Telegram	1000	Fort Worth	476	WBAP														
News and Journal	500	Dallas	476	WFAA														
Palmer School	500	Davenport	484	WOC														
John Wensmaker	500	Philadelphia	509	WOO														
Federal Tel.	500	Buffalo	319	WGR														
Calumet B. Pdr	500	Chicago	448	WQJ														
Express	500	Los Angeles	337	KNX														
So. Equip. Co.	500	San Antonio, Tx.	385	WOAI														



MODEL S-4000
A 5 volt, Standard
Base, 1/4 amp. De-
tector-amplifier with
full, noise-free dis-
tortionless volume.

BRING IN YOUR FAVORITE STATION With Bell-like Clearness

On the Tube that's *GUARANTEED*

Perfect reception from distant stations.
Bring in stations never before logged, free
from all distortion due to the **Schicklerling**
Triangular Stabilizing Plates.

\$3
Order
This
Tube
Today

OTHER MODELS

5 Volt—1/4 Amp.—Standard Base	
S-200 Detector	\$3.00
S-4000 Det.-Ampl.	3.00
S-700 Power Tube	7.00
S-2500 Det.-Ampl.	5.00
3 Volt—1/10 Am.—Min.-Base	
S-600 Det.-Ampl.	3.00
S-900 Amp. Stan.	3.00

Get the most out of your set with
Schicklerling Tubes

YALE CORPORATION

Pacific Coast Distributors

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SAN FRANCISCO

MAIL ORDERS FILLED

10-12 A. M.
PACIFIC TIME

RADIO TIME TABLE

11-1 Mountain Time
12-3 Central Time
1-3 Eastern Time

STATION	WATTS	CITY	METERS	CALL	SUN		MON		TUES		WED		THUR		FRI		SAT	
					10-10:30	10:30-11:00	10-10:30	10:30-11:00	10-10:30	10:30-11:00	10-10:30	10:30-11:00	10-10:30	10:30-11:00	10-10:30	10:30-11:00	10-10:30	10:30-11:00
L. A. Times	500	Los Angeles	404	K H J	X	X	X	X									X	X
Earl C. Anthony	1500	Los Angeles	467	K F I	X	X	X	X									X	X
Bible Institute	750	Los Angeles	293	K J S	X	X	X	X									X	X
Angelus Temple	600	Los Angeles	277	K F S G	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Express	600	Los Angeles	336	K N X			X	X	X	X	X	X	X	X	X	X	X	X
Pasadena Pros. Ch.	50	Pasadena	229	K P P C		X	X	X										
Echophone Radio	100	Long Beach	232	K F O N	X	X	X	X										
So. Electric Co.	50	San Diego	244	K D P T	X	X	X	X										
Hale Brothers	500	San Francisco	429	K P O		X	X	X										
General Elec.	1000	Oakland	399	K G O					X				X					X
Tribune	500	Oakland	509	K L X						X								
Warner Bros	250	Oakland	360	K L S	X	X				X			X					X
Holy City	100	Holy City, Calif	234	K F Q U		X	X	X										
Gen. Elec. Co.	1500	Denver	323	K O A	X	X												
Rhodes Co.	100	Seattle	455	K D Z E			X			X			X				X	
First Pres. Church	750	Seattle	272	K T W		X	X	X										
Melior & Frank	50	Portland	247	K F E C														X
Oregonian	500	Portland	485	K G W							X	X	X					
Reynolds Radio	250	Denver	283	K L Z				X		X			X			X		X
News and Journal	500	Dallas	172	W F A A				X		X			X			X		X
Star-Telegram	1000	Fort Worth	472	W B A P			X	X		X			X			X		X
Palmer School	500	Davenport	484	W O C			X	X		X			X			X		X
Oregonian	500	Portland	482	K G W						X			X			X		X
Federal Tel. Co.	500	Buffalo	319	W G R			X	X		X			X			X		X
Sears-Roebuck	500	Chicago	345	W L S			X	X		X			X			X		X
Arlington Hotel	500	Hot Springs, Ark	375	K T H S	X	X	X	X										

RADIOLA III A

A four tube regenerative receiver complete with tubes, batteries and loud speaker.

\$99.60



Germain's Radio Department is under the management of Mr. V. M. Bitz, considered to be one of the best versed radio engineers in the state.

OUR POLICY IS SERVICE

GERMAIN'S

SIXTH AND MAIN + LOS ANGELES

12-2 P. M.
PACIFIC TIME

RADIO TIME TABLE

1-3 Mountain Time
2-4 Central Time
3-5 Eastern Time

					SUN		MON.		TUES		WED		THUR		FRI		SAT			
STATION	WATT	CITY	METERS	CALL	12 00-12 30	12 30-1 00	1 00-1 30	1 30-2 00	12 00-12 30	12 30-1 00	1 00-1 30	1 30-2 00	12 00-12 30	12 30-1 00	1 00-1 30	1 30-2 00	12 00-12 30	12 30-1 00	1 00-1 30	1 30-2 00
L. A. Times	500	Los Angeles.	404	K H J	X	X			X	X			X	X			X	X		
Bible Institute	750	Los Angeles.	293	K J S	X	X			X	X			X	X			X	X		
Angelus Temple	500	Los Angeles.	277	K F S G	X	X			X	X			X	X			X	X		
Express	500	Los Angeles.	336	K N X					X	X			X	X			X	X		
Pasadena Pres. Ch.	50	Pasadena.	229	K P C G	X	X			X	X			X	X			X	X		
Warner Bros.	250	San Francisco	360	K L S				X	X	X			X	X			X	X		
Hale Bros.	500	San Francisco	429	K P O				X	X	X			X	X			X	X		
General Elec.	1000	Oakland.	300	K G O				X	X	X			X	X			X	X		
Episcopal Church	10	Redlands	211	K F R P	X															
Oregonian	500	Portland	465	K G W					X	X			X				X			
Rhodes Co.	100	Seattle	270	K D Z E					X	X			X	X			X			
Honolulu Adver.	500	Honolulu	360	K G U					X	X					X	X				X
Reynolds Radio	250	Denver	283	K L Z					X		X				X		X			X
Gen. Elec. Co.	1500	Denver	323	K O A					X	X			X	X			X			X
News and Journal	600	Dallas.	472	W F A A		X	X				X		X		X		X			
Star-Telegram	1000	Fort Worth	472	W B A P			X	X		X			X		X		X			
Palmer School	500	Davenport	484	W O C					X	X			X		X		X			
Star	500	Kansas City	411	W D A F					X	X			X		X		X			
News	500	Detroit.	617	W W J			X	X	X	X			X		X		X			
Radio Corp. of Am.	500	New York.	455	W J Z			X	X	X	X			X		X		X			
Herald	1000	Calgary	420	C F A C			X	X	X	X			X		X		X			
Federal Tel. Co.	500	Buffalo	319	W G R	X	X	X	X	X	X			X		X		X			
Woodmen of W.	500	Omaha	522	W O A W	X	X	X	X	X	X			X		X		X			
Sears-Roebuck	500	Chicago	345	W L S					X	X			X		X		X			
Calumet B. Pdr.	500	Chicago	448	W O J					X	X			X		X		X			
Arlington Hotel	500	Hot Springs, Ark.	375	K T H S	X	X	X													X

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Five Tube Tuned Radio Frequency Receiver

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Nothing like it has ever been offered the Radio Public
LONG DISTANCE STATIONS EASILY TUNED THRU
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Manufacturers and Distributors

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Hollywood, Cal.

2-4 P. M.
PACIFIC TIME

RADIO TIME TABLE

3-5 Mountain Time
4-6 Central Time
5-7 Eastern Time

STATION	WATTS	CITY	METERS	CALL	SUN		MON		TUES		WED		THURS		FRI		SAT	
					2 00-2 30	2 30-3 00	3 00-3 30	3 30-4 00	2 00-2 30	2 30-3 00	3 00-3 30	3 30-4 00	2 00-2 30	2 30-3 00	3 00-3 30	3 30-4 00	2 00-2 30	2 30-3 00
L. A. Times	600	Los Angeles	404	K H J														
Angelus Temple	600	Los Angeles	277	K F S G	X	X	X		X	X	X	X	X	X	X	X	X	X
Express	600	Los Angeles	336	K N X														
Echophone Radio	100	Long Beach	232	K F O N	X	X	X		X	X	X		X	X	X	X	X	X
Hale Bros.	500	San Francisco	429	K P O									X	X	X			
Tribune	500	Oakland	509	K L X														
General Elec. Co.	1000	Oakland	299	K G O				X										
R. H. Horn	50	San Luis Obispo	212	K F B E		X	X											
Portable Wireless	100	Stockton	360	K W Q	X	X												
First Pres. Church	750	Seattle	360	K T W			X	X										
Rhodes Co.	100	Seattle	270	K D Z E				X	X	X		X	X	X		X	X	X
Leese Bros.	20	Everett, Wash.	224	K F B L	X	X												
Oregonian	500	Portland	485	K G W														
Boise High School	750	Boise, Ida.	275	K F A U						X				X				
Telegram	600	Salt Lake City	360	K D Y L				X	X		X	X		X	X		X	X
Reynolds Radio	250	Denver	283	K L Z						X			X			X		
Honolulu Adver.	500	Honolulu	360	K G U				X	X				X	X			X	X
Star-Telegram	1000	Furt Worth	472	W B A P	X	X	X	X										
Palmer School	500	Oavengort	484	W O C														
Daily News	500	Chicago	448	W M A Q							X							
Star	500	Kansas City	411	W D A F	X	X			X	X			X	X		X		
Free Press	500	Detroit	617	W C X	X	X												
News	500	Detroit	617	W W J					X	X			X	X		X	X	X
Drake Hotel	1000	Chicago	360	W D A P									X	X		X	X	X
Radio Cor. of Am.	500	New York	455	W J Z			X	X		X	X		X	X		X	X	X
Herald	1000	Calgary	420	C F A C					X	X			X	X		X	X	X
Federal Tel. Co.	500	Buffalo	319	W G R					X	X			X	X		X	X	X
Westinghouse	1000	Pittsburgh	309	K D K A														
Westinghouse	1000	Springfield	337	W B Z														
Seare-Rosebuck	500	Chicago	345	W L S					X	X			X	X		X	X	X
Rhodes Dept. St.	600	Seattle	450	K F O A														

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All Models.

Gillilan Neutrodyne\$140—\$175

All Models.

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5-Tube Set Complete—Speaker, G. E., A Tubes, Wet A Battery, Aerial
Installed—SPECIAL \$110.00

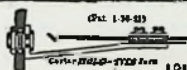
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Judging from the attractive appearance of PHILCO rechargeable radio batteries, and their wonderful performance in giving stronger and clearer reception to your set, it is sometimes hard to believe that so much value and service can be combined in a battery at the prices they sell for. These prices are facts, however. Take advantage of them.

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The PHILCO UD44 for low voltage peanut tubes will work wonders in your set. It is guaranteed 2 years, can't possibly cost over 10 cents monthly to maintain, and sells for only..... **\$8.00**

6-Volt "A" Batteries

20 cents is the maximum monthly expense that could be involved in PHILCO UD86 for 6-volt standard storage battery circuits. Yet the price, with all PHILCO advantages, is but..... **\$16.00**

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PHILCO DXO for the 48-volt "B" circuit comes in an attractive mahogany finish case (without cover). Like other PHILCOS, it is positively guaranteed against acid leakage, another "low cost" feature. Price..... **\$16.50**

The PHILCO DX type battery for the same circuit is the aristocrat of the PHILCO family. It is equipped with a deluxe finish mahogany case and cover. This attractive, efficient battery is only..... **\$20.00**

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tage of this.*

GET YOUR AUTO BATTERY ON CREDIT TOO

4-6 P. M.
PACIFIC TIME

RADIO TIME TABLE

5-7 Mountain Time
5-8 Central Time
7-9 Eastern Time

				SUN		MON		TUES		WED		THUR		FRI		SAT				
STATION	WATTS	CITY	METERS	CALL	4:00-4:30	4:30-5:00	5:00-5:30	5:30-6:00	4:00-4:30	4:30-5:00	5:00-5:30	5:30-6:00	4:00-4:30	4:30-5:00	5:00-5:30	5:30-6:00	4:00-4:30	4:30-5:00	5:00-5:30	5:30-6:00
E. C. Anthony	1500	Los Angeles	467	KFI	X	X														
L. A. Herald	1500	Los Angeles	467	KFI						X									X	X
L. A. Examiner	1500	Los Angeles	467	KFI							X								X	X
Angelus Temple	500	Los Angeles	277	KFSG	X							X								
Express	500	Los Angeles	336	KNX	X	X			X	X	X								X	X
Echophone Radio	100	Long Beach	232	KFON						X	X	X							X	X
General Electric	1000	Oakland	299	KGO	X				X	X	X	X							X	X
Hale Bros.	500	San Francisco	429	KPO					X	X	X	X							X	X
Oakland Tribune	500	Oakland	509	KLX				X			X								X	X
Berkeley Gazette	500	Berkeley	278	KRE										X					X	X
Portable Wireless	100	Stockton	360	KWVG					X	X							X	X		
Radio Dan	10	San Jose	268	KFAW						X				X	X				X	X
Nelson Radio Co	10	Phoenix	238	KFCB									X	X					X	X
Telegram	50	Salt Lake	360	KDYL						X	X					X			X	X
Rhoades Dept. St.	500	Seattle	450	KFOA						X	X			X	X				X	X
Star Electric	50	Seattle	283	KFHR						X	X			X	X				X	X
First Pres. Church	750	Seattle	360	KTW	X	X														
Northwest Radio	100	Seattle	263	KJR					X	X					X	X				
Melzer & Frank	50	Portland	248	KFEC					X	X					X	X			X	X
Hollock & Watson	50	Portland	360	KGG					X	X					X	X			X	X
Oregonian	500	Portland	485	KGW						X					X	X			X	X
Star-Telegram	1000	Fort Worth	472	WBAP							X			X						
News and Journal	500	Dallas	472	WFAA						X	X			X	X				X	X
Southern Egr. Exp	500	San Antonio	385	WOAI												X			X	X
Palmer School	500	Davenport	484	WOC				X												X
Post Dispatch	500	St. Louis	535	KSD					X	X	X									
Gen. Elec. Co	1500	Denver	323	KOA					X	X				X	X				X	X
Daily News	500	Chicago	448	WMAQ					X	X				X	X				X	X
Free Press	500	Detroit	517	WCX		X	X							X	X				X	X
News	500	Detroit	517	WWJ					X	X	X			X	X				X	X
Star	500	Kansas City	411	WOAF	X	X			X	X			X	X	X				X	X
Crosley Mfg. Co	500	Cincinnati	423	WLW						X	X			X	X				X	X
Radio Cor. of Am	500	New York	455	WJZ	X	X	X		X	X	X		X	X	X				X	X
John Wanamaker	500	Philadelphia	509	WOO					X	X	X		X	X	X				X	X
Federal Tel. Co	500	Buffalo	319	WGR					X	X	X		X	X	X				X	X
Westinghouse	1000	Pittsburgh	309	KDKA	X	X			X	X	X		X	X	X				X	X
Westinghouse	1000	Springfield	337	WBZ					X	X	X		X	X	X				X	X
Westinghouse	1000	Chicago	535	KYW					X	X			X	X	X				X	X
Woodmen of W.	500	Omaha	622	WOAW					X	X	X					X			X	X
Willard Battery	1000	Cleveland	390	WTAM									X						X	X
Canadian Nat. Ry.	1000	Ottawa	435	CKCH									X	X	X				X	X
Sears-Roebuck	500	Chicago	345	WLS		X	X	X					X	X	X				X	X
Calumet B. Pdr.	500	Chicago	448	WOJ						X	X	X		X	X				X	X
Tribune	1000	Chicago	370	WGN						X	X		X	X	X				X	X
Edg. B. Hotel	1000	Chicago	370	WBBH	X	X	X	X					X	X	X				X	X

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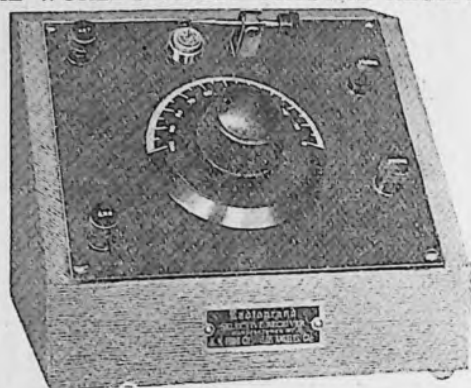
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6-8 P. M.
PACIFIC TIME

RADIO TIME TABLE

7- 9 Mountain Time
8-10 Central Time
9-11 Eastern Time

				SUN		MON		TUES		WED		THUR		FRI		SAT	
STATION	WATTS	CITY	METERS CALL	6:00-7:30 8:30-7:00 7:30-8:00	6:00-7:30 8:30-7:00 7:30-8:00	6:00-7:30 8:30-7:00 7:30-8:00	6:00-7:30 8:30-7:00 7:30-8:00	6:00-7:30 8:30-7:00 7:30-8:00	6:00-7:30 8:30-7:00 7:30-8:00	6:00-7:30 8:30-7:00 7:30-8:00	6:00-7:30 8:30-7:00 7:30-8:00	6:00-7:30 8:30-7:00 7:30-8:00	6:00-7:30 8:30-7:00 7:30-8:00	6:00-7:30 8:30-7:00 7:30-8:00	6:00-7:30 8:30-7:00 7:30-8:00	6:00-7:30 8:30-7:00 7:30-8:00	
Bible Institute.....	750	Los Angeles....	288 K J S	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	
L. A. Times.....	600	Los Angeles....	404 K H J	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	
E. C. Anthony.....	1500	Los Angeles....	467 K F I	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	
Metrop'n Th're.....	1500	Los Angeles....	467 K F L	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	
Angelus Temple.....	500	Los Angeles....	277 K F S G	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	
Exnress.....	500	Los Angeles....	336 K N X	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	
Radio Assn So.Cal.100		Los Angeles....	226 K F Q G	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	
Echephone Radio...100		Long Beach....	232 K F O N	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	
Pasadena Pres. Ch..50		Pasadena....	229 K P P C	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	
Hale Brothers.....	500	San Francisco..	429 K P O	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	
Radioart Studio....50		San Francisco..	276 K F R C	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	
Berkeley Gazette....50		Berkeley.....	278 K R E	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	
Tribune.....	600	Oakland.....	509 K L X	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	
General Electric...100		Oakland.....	300 K G O	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	
Western Radio Inst.50		Oakland, Cal....	360 K Z M	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	
Radio Den.....	16	Santa Ana.....	268 K F A W	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	
Episcopal Church..10		Redlands.....	211 K F R P	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	
Nellson Radio Sup..10		Phoenix.....	238 K F C B	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	
McArthur Bros.....	100	Phoenix.....	360 K F A D	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	
Wash State Col.....	500	Pullman.....	250 K F A E	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	
Luyo Elect Co.....	10	Tacoma.....	250 K M O	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	
Mullens Elect Co...50		Tacoma.....	252 K G B	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	
Radio Broad Str..1000		Seattle.....	236 K F Q X	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	
Excel Motor Cy.....	100	Seattle.....	360 K H O	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	
Rhoades Dept. St..500		Seattle.....	450 K F O A	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	
Star Electric.....	60	Seattle.....	283 K F H R	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	
Leese Bros.....	20	Everett, Wash.	224 K F B L	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	
Oregonian.....	500	Portland.....	485 K G W	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	
Halloek & Watson..50		Portland.....	360 K G G	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	
Meler & Frank.....	50	Portland.....	248 K F E C	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	
Boise High School..150		Boise, Ida.....	275 K F A U	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	
Bunkerhill-Sul Co.10		Kellogg, Ida...	360 K F E Y	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	
Telegram.....	100	Salt Lake.....	250 K D Y L	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	
N M Coll Agricul..500		Sta Col N M...	360 K O B	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	
Reynold's Radio....250		Denver.....	283 K L Z	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	
Gen. Elect. Co.....	1500	Denver, Colo...	323 K O A	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	
Westinghouse El..1000		Hastings, Neb	288 K F K X	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	
News and Journal..500		Dallas.....	472 W F A A	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	
Star-Telegram.....	1000	Fort Worth....	472 W B A P	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	
Palmer School.....	500	Davenport....	484 W O C	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	
W. O. W.....	500	Omaha.....	522 W O A W	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	
Daily News.....	500	Chicago.....	448 W M A Q	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	
Post Dispatch.....	500	St. Louis.....	549 K S D	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	
Westinghouse.....	1000	Chicago.....	535 K Y W	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	
Sweeney School....500		Kansas City...	411 W H B	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	
Star.....	500	Kansas City...	411 W O A F	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	
Tribune.....	1000	Chicago.....	370 W G N	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	
Crosley Mfg. Co....500		Cincinnati...	423 W L W	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	
Albertan Pub. Co..250		Calgary, Can..	410 C H B C	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	
Detroit Free Press..500		Detroit.....	517 W C X	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	
Radio Cor. of Am..500		New York.....	455 W J Z	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	
John Wanamaker....500		Philadelphia...	509 W O O	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	
Federal Tel. Co....500		Buffalo.....	319 W G R	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	
El Buen Tono.....500		Mexico City...	330 C Y B	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	
El Universal.....500		Mexico City...	510 C Y L	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	
Willard Battery....1000		Cleveland....	395 W T A M	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	
Westinghouse.....1000		Pittsburgh....	309 K D K A	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	
Canadian Nat. Ry..50		Ottawa.....	465 C K C H	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	
Chamber of Com...50		El Paso.....	268 W D A H	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	
Calumet B. Pdr....500		Chicago.....	440 W Q J	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	
General Elec.....1500		Schenectady...	380 W G Y	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	
Mexican Gov't....250		Chihuahua....	400 X I C E	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	
Arlington Hotel....500		Hot Springs, Ark	375 K T H S	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	
So. Equip. Co.....500		San Antonio, Tex	385 W O A I	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	x x	

Day-Fan

RADIO

DAY-FAN—DAYOLA—DAYTONIA



The correct solution of the "Day-Fan" National Cross-Word Puzzle will appear on this page next week.



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WHOLESALE ELECTRIC & RADIO SUPPLIES

300 EAST THIRD STREET

LOS ANGELES

8-10 P. M.
PACIFIC TIME

RADIO TIME TABLE

9-11 Mountain Time
10-12 Central Time
11-1 Eastern Time

				SUN			MON			TUES			WED			THUR			FRI			SAT		
STATION	WATTS	CITY	METERS	CALL	8:00-9:30	9:30-10:00	10:00-11:00	8:00-9:30	9:30-10:00	10:00-11:00	8:00-9:30	9:30-10:00	10:00-11:00	8:00-9:30	9:30-10:00	10:00-11:00	8:00-9:30	9:30-10:00	10:00-11:00	8:00-9:30	9:30-10:00	10:00-11:00		
L A Herald	1500	Los Angeles	457	Herald	X	X							X	X										
Bible Institute	750	Los Angeles	293	K J S	X	X							X	X										
L A Times	500	Los Angeles	404	K H J	X	X							X	X										
L A Examiner	1500	Los Angeles	467	Examiner	X	X							X	X										
E C Anthony	1500	Los Angeles	467	K F I	X	X							X	X										
Angelus Temple	600	Los Angeles	277	K F S G	X	X							X	X										
Express	600	Los Angeles	336	K N X	X	X							X	X										
Echophone Radio	100	Long Beach	232	K F O N	X	X							X	X										
Pasadena Pres. Ch.	50	Pasadena	229	K P P C	X	X							X	X										
Hale Bros	500	San Francisco	429	K P O	X	X							X	X										
Radioart Studio	50	San Francisco	270	K F R C	X	X							X	X										
Warner Bros	250	San Francisco	360	K L S									X	X										
Oakland Tribune	500	Oakland	509	K L R									X	X										
Berkley Gazette	50	Berkley	275	K R E									X	X										
General Elec Co	1000	Oakland	300	K G O									X	X										
Holy City	100	Holy City, Calif	234	K F Q U									X	X										
T Seifert	100	Bakersfield	300	K D Z B									X	X										
Portable Wireless	100	Stockton	350	K W G									X	X										
Gould	500	Stockton	360	K J Q									X	X										
R H Horn	50	San Luis Obispo	242	K F B E									X	X										
Drake Radio	5	Santa Rosa	234	K F N V									X	X										
Episcopal Church	10	Redlands	211	K F R P	X								X	X										
Cape & Johnson	600	Salt Lake	268	K F T P									X	X										
Univ of Ariz	150	Tucson	360	K F D H									X	X										
Nelson Rad Sup	10	Phoenix	238	K F C B									X	X										
Wash State Col	500	Pullman	329	K F A E									X	X										
Radio Broad Stn	1000	Seattle	238	K F Q X									X	X										
N W Radio Ser	100	Seattle	272	K J R									X	X										
Excelsior Motor	100	Seattle	239	K H Q									X	X										
Rhodes Co.	500	Seattle	450	K F O A									X	X										
Star Electric	50	Seattle	272	K F H R									X	X										
Mullens Elec	50	Tacoma	252	K G B									X	X										
Oregonian	500	Portland	465	K G W									X	X										
Hallock & Watson	50	Portland	263	K G G									X	X										
Melior & Frank	50	Portland	248	K F E C									X	X										
Boise High School	500	Boise, Ida	275	K F A U									X	X										
Bunkerhill-Sul Co.	10	Kellogg, Ida	232	K F E Y									X	X										
Gen. Elect. Co	1500	Denver, Colo	323	K O A	X	X							X	X										
Reynolds Radio	250	Denver	283	K L Z	X	X							X	X										
Westinghouse E	1000	Hastings, Neb.	288	K F K X	X	X							X	X										
Dallas News	500	Dallas, Tex	472	W F A A	X	X							X	X										
Star-Telegram	1000	Fort Worth	472	W B A P									X	X										
Arlington Hotel	500	Hot Springs, Ark	375	K T H S									X	X										
Palmer School	600	Davenport	484	W O C	X	X							X	X										
Post Dispatch	600	St. Louis	549	K S D									X	X										
Star	500	Kansas City	411	W D A F									X	X										
Woodmen of W	500	Omaha	822	W O A W									X	X										
Westinghouse	1000	Chicago	635	K Y W									X	X										
Crosley Mfg. Co	500	Cincinnati	423	W L W									X	X										
Detroit News	500	Detroit	617	W W J									X	X										
Radio Cor. of Am	500	New York	455	W J Z									X	X										
Herald	1000	Calgary	420	C F A C	X	X							X	X										
W. W. Grant	500	Calgary	440	C K C									X	X										
Federal Tel. Co.	500	Buffalo	319	W G R									X	X										
El Universal	500	Mexico City	610	C Y L									X	X										
El Buen Tono	500	Mexico City	380	C Y B									X	X										
Sweeney School	500	Kansas City	411	W H B									X	X										
Edgewater Beach	1000	Chicago	370	W E B H									X	X										
Westinghouse	1000	Springfield	337	W B Z									X	X										
Westinghouse	1000	Pittsburg	309	K D K A									X	X										
Sears-Robuck	500	Chicago	346	W L S									X	X										
Calomet B. Pdr	500	Chicago	448	W Q J									X	X										
Mexican Gov't	250	Chihuahua	400	X I C E									X	X										

See
Builder's
60 Page
Manual

50
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PACIFIC TIME

RADIO TIME TABLE

11-1 Mountain Time
12-2 Central Time
1-3 Eastern Time

STATION	WATTS	CITY	METERS	CALL	SUN		MON		TUES		WED		THUR		FRI		SAT	
					10:00-10:30	10:30-11:00	10:00-10:30	10:30-11:00	10:00-10:30	10:30-11:00	10:00-10:30	10:30-11:00	10:00-10:30	10:30-11:00	10:00-10:30	10:30-11:00	10:00-10:30	10:30-11:00
L. A. Times	500	Los Angeles	404	KHJ	X	X	X	X	X	X	X	X	X	X	X	X	X	X
E. C. Anthony	1500	Los Angeles	467	KFI	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Angelus Temple	500	Los Angeles	277	KFS G	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Express	500	Los Angeles	337	KNX	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Echophone Radio	100	Long Beach	232	KFON	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Hale Bros.	500	San Francisco	429	KFO	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Radioart Studio	50	San Francisco	280	KFBC	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Holy City	100	Holy City, Calif	234	KFOU	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Herald	1000	Calgary	420	CFA C	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Oregonian	500	Portland	465	KGW	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Radio Broad. Stn	1000	Seattle	238	KFQ X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
W. W. Grant	500	Calgary	440	CFC N	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Westinghouse	1000	Chicago	535	KYW	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sweeney School	500	Kansas City	411	WHB	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Drake Hotel	1000	Chicago	980	WGN	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Edgewater Beach	1000	Chicago	378	WEB H	X	X	X	X	X	X	X	X	X	X	X	X	X	X
General Elec. Co.	1000	Oakland	299	KGO	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Honolulu Advtr.	500	Honolulu	360	KGU	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Calumet B. Pdr.	500	Chicago	448	WOJ	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Winner Radio	50	Denver	254	KFEL	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Tribune	1000	Chicago	370	WGN	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sears-Roebuck	500	Chicago	245	WLS	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Star	500	Kansas City	411	WDA F	X	X	X	X	X	X	X	X	X	X	X	X	X	X
U.S. Playing Card	500	Cincinnati	309	W S A I	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Kaufman & Bear	500	Pittsburgh	462	WCA E	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Outlet Co.	500	Providence	360	W J A R	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Rhodes Dept. St.	500	Seattle	450	KFOA	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Arlington Hotel	500	Hot Springs	375	KTH S	X	X	X	X	X	X	X	X	X	X	X	X	X	X

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Downer Electric Co.

SAN BERNARDINO
Thew Radio Co.

GLENDAL
Broadway Electric Co.
H. O. Stanton.

POMONA
W. L. Williams.

SHERMAN
Boulevard Radio Co.

SANTA MONICA
Santa Monica Radio Co.
Warren Radio Co.

OCEAN PARK
Tune 'Em In Radio Co.

EL SEGUNDO
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Always state whether you intend using UV-199 or UV-201-A Tubes.

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| 1 7x21 Drilled and Engraved Panel. | 1 Single Circuit Jack. |
| 2 23 Plate Straight Line Low Loss Condensers. | 1 Two Circuit Jack. |
| 1 60 Ohm Rheostat. | 2 Branston Cam-Vernier Dials. |
| 1 25 Ohm Rheostat. | 2 Sub Panels and Ten Binding Posts, assembled. |
| 1 Battery Switch. | |

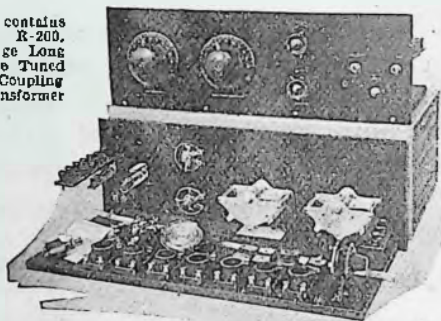
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| 1 Baseboard, 20"x10 1/2". | 1 .0001 Tested Fixed Condensers. |
| 7 UV-199 Sockets. | 1 .00025 Tested Fixed Condensers. |
| 1 3 Plate Vernier Condenser and Mountings. | 2 Grid Leak Mountings. |
| 2 .001 Tested Fixed Condensers. | 1 Variable Grid Leak. |
| 2 .005 Tested Fixed Condensers. | 1 Fixed Grid Leak. |

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 Daily, except Sunday and Monday, from 10 to 11 p. m., we will broadcast Art Hickman's
 Orchestra from the Biltmore Hotel. Sunday, from 6:30 to 7:30 p. m. and daily except Monday,
 from 6 to 6:30, we will broadcast Art Hickman's Concert Orchestra from the Biltmore Hotel.
 2:30 to 3:30 p. m. daily, except Sunday and Monday, Matinee Musicale.

PROGRAM FOR WEEK COMMENCING FEBRUARY 8, 1925**SUNDAY, FEBRUARY 8—**

- 10:00 a. m.—Sermon from KHJ studio by J. C. Watt, elder of the International Bible Students' Association.
- 10:30 to 12:30 p. m.—Organ recital and entire religious service from the First Methodist Episcopal Church; Arthur Blakeley, organist, and Rev. Elmer E. Helms, pastor.
- 6:30 to 7:00 p. m.—Art Hickman's Concert Orchestra from the Biltmore Hotel; Edward Fitzpatrick, director.
- 7:00 to 7:30 p. m.—Organ recital from the First Methodist Episcopal Church; Arthur Blakeley, organist.
- 8:00 to 10:00 p. m.—Program through the courtesy of the Martin Music Co., arranged by J. Howard Johnson, presenting an all-Russian program, featuring Russian artists and works of Russian composers. The Russian string quartet; Eugene Petrovsky, tenor; Ruth Pitts, soprano, and John Martin, accompanying at the Gulbrandsen registering piano; Georgi Shkultetsky, basso; Claire Forbes Crane, pianist.

MONDAY, FEBRUARY 9—

- 12:30 to 1:30 p. m.—Program presenting the Piggly Wiggly Girls, and Mary Lingenfelter, soprano.

TUESDAY, FEBRUARY 10—

- 12:30 to 1:30 p. m.—Program presenting Major and his Forum Roof Ballroom Orchestra and Merle Tuttle, popular songs.
- 2:30 to 3:30 p. m.—Program through the courtesy of the Pacific States Electric Co., presenting the Immanuel Male Quartet and Grace Currey, harpist.
- 6:30 to 7:30 p. m.—Children's program presenting Prof. Walter Sylvester Hertzog, telling stories of American history. The weekly visit of the Radio Fairies, Queen Titania and her Sandman, Louis F. Klein, harmonica.
- 7:45 p. m.—Capt. John T. Riley will talk on "Income Tax."
- 8:00 to 10:00 p. m.—Program through the courtesy of the Birch-Smith Furniture Company, arranged by J. Howard Johnson.

WEDNESDAY, FEBRUARY 11—

- 12:30 to 1:30 p. m.—Program presenting Coy Barkley and his Palace Ballroom Orchestra from Ocean Park. Fred C. McNabb of Aggeler & Musser Seed Co., "Garden Talk."
- 2:30 to 3:30 p. m.—Program presented through the courtesy of the Pacific States Electric Co.
- 6:30 to 7:30 p. m.—Children's program presenting Prof. Walter Sylvester Hertzog telling stories of American history. Dick Winslow, screen juvenile and reporter. Baby Muriel McCormac, screen juvenile. Bedtime story by Uncle John.
- 8:00 to 9:30 p. m.—Program presented through the courtesy of the Pacific Mutual Life Insurance Co.
- 9:30 to 10:00 p. m.—Program presenting the Piggly Wiggly girls.

THURSDAY, FEBRUARY 12—

- 12:30 to 1:30 p. m.—Program presented through the courtesy of Loew's State Theater.
- 2:30 to 3:30 p. m.—Program presented through the courtesy of the Pacific States Electric Co., presenting the Pacific States Check Seal Trio.
- 6:30 to 7:30 p. m.—Children's program presenting Prof. Walter Sylvester Hertzog, telling stories of American history. Dickie Brandon, screen juvenile. Jane Hughes, screen juvenile. Bedtime story by Uncle John.
- 8:00 to 10:00 p. m.—Program through the courtesy of Harold L. Arnold, Inc., Lincoln Motor Car dealers, arranged by J. Howard Johnson, presenting an all-patriotic program.

FRIDAY, FEBRUARY 13—

- 12:30 to 1:30 p. m.—Program of news items and music.
- 2:30 to 3:30 p. m.—Program through the courtesy of the Pacific States Electric Co., presenting the Immanuel Male Quartet and Grace Currey, harpist.
- 6:30 to 7:30 p. m.—Children's program presenting Prof. Walter Sylvester Hertzog telling stories of American history. Richard Headrick, screen juvenile. Vyola Von, screen juvenile. Bedtime story by Uncle John.
- 7:30 p. m.—Harry S. Carroll, past president of the Los Angeles Advertising Club and West Coast Advertising Club, speaker.
- 7:45 p. m.—Capt. John T. Riley will talk on the "Income Tax."
- 8:00 to 10:00 p. m.—Program presented through the courtesy of John Wright, the Right Tailor, arranged by Charlie Wellman.

SATURDAY, FEBRUARY 14—

- 10:00 to 12:00 a. m.—K H J's Saturday morning broadcasting class.
- 12:30 to 1:30 p. m.—Program presenting Hi Moulton and his orchestra.
- 2:30 p. m.—Program through the courtesy of the Pacific States Electric Co., presenting Charlie Wellman and his Saturday Afternoon Frolic.
- 6:30 to 7:30 p. m.—Children's program presenting Prof. Walter Sylvester Hertzog telling stories of American history. Henrietta Poland, 5-year-old reader. Helene Pirie, screen juvenile. David Durand, screen juvenile.
- 7:45 p. m.—Capt. John T. Riley will talk on "Income Tax."
- 8:00 to 10:00 p. m.—Program through the courtesy of the El Encanto Apartments, arranged by Maude Fenlon Bollman, presenting a Valentine party.
- 11:30 p. m.—"Pep" program presenting the Lost Angels of Los Angeles, arranged by Charlie Wellman.

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PAUL REESE, Program Announcer

Remote Control Stations:

Los Angeles Evening Herald:	5:00 to 5:30 p. m.—Daily except Sunday
	7:00 to 8:00 p. m.—Monday
	8:00 to 9:00 p. m.—Wednesday
	9:00 to 10:00 p. m.—Friday
Los Angeles Examiner:	5:30 to 6:00 p. m.—Daily except Sunday
	7:00 to 8:00 p. m.—Friday
	8:00 to 9:00 p. m.—Tuesday and Saturday
	9:00 to 10:00 p. m.—Sunday and Wednesday
	10:00 to 11:00 p. m.—Monday and Thursday

Programs Marked * Are the "Best Bet" of the Day

SUNDAY, FEBRUARY 8—

- 10:00 to 10:45 a. m.—L. A. Church Federation service.
4:00 to 5:00 p. m.—Vesper services by the Cecilian vocal quartet, a harpist, and Instrumental Trio.
6:45 to 7:00 p. m.—Music Appreciation talk.
7:00 to 8:00 p. m.—Metropolitan Theater program.
*8:00 to 9:00 p. m.—The Little Trio—Corrine Little, 'cello; Martha Little, piano; Loretta Little, violin.
9:00 to 10:00 p. m.—Los Angeles Examiner program.
10:00 to 11:00 p. m.—Packard Eight Orchestra, under direction of Bill Hennessy; Starr Russel, soloist, accompanied by Jean Shock.

MONDAY, FEBRUARY 9—

- *8:00 to 9:00 p. m.—Walter M. Murphy, Motors Co., presenting a classic program.

TUESDAY, FEBRUARY 10—

- 6:45 to 8:00 p. m.—Aeolian Organ Recital, Dan McFarland at the console.
8:00 to 9:00 p. m.—Los Angeles Examiner program.
10:00 to 11:00 p. m.—Dan Meany Night, Monte Blue, master of ceremonies.

WEDNESDAY, FEBRUARY 11—

- 6:45 to 7:00 p. m.—Nick Harris Detective Stories.
*7:30 to 8:00 p. m.—Goodwin, Klinger and MacKay Co., automobile insurance agents, presenting a popular program.
8:00 to 9:00 p. m.—Evening Herald program.
9:00 to 10:00 p. m.—Los Angeles Examiner program.
10:00 to 11:00 p. m.—Patrick-Marsh Dance Orchestra; Betty Patrick, soloist.

THURSDAY, FEBRUARY 12—

- 6:45 to 7:00 p. m.—Y. M. C. A. speaker.
7:00 to 8:00 p. m.—Dance orchestra.
*8:00 to 9:00 p. m.—Standard Oil Co. of California, presenting a play with music.
9:00 to 10:00 p. m.—John Smallman Night (all vocal program).
10:00 to 11:00 p. m.—Los Angeles Examiner program.

FRIDAY, FEBRUARY 13—

- 6:00 to 7:00 p. m.—Aeolian Organ Recital.
7:00 to 8:00 p. m.—Los Angeles Examiner program.
9:00 to 10:00 p. m.—Evening Herald program.
10:00 to 11:00 p. m.—Oriental song recital.

SATURDAY, FEBRUARY 14—

- 6:45 to 7:00 p. m.—Speaker, Dr. Clyde Sheldon Shepherd.
7:00 to 7:45 p. m.—A dance orchestra, Dye's Syncopaters, with vocal soloist.
7:45 to 8:00 p. m.—The Book Shelf.
8:00 to 9:00 p. m.—Los Angeles Examiner program.
9:00 to 10:00 p. m.—Vocal and instrumental trio numbers.
*10:00 to 11:00 p. m.—Packard Radio Club; Ruth and Lilah Carlson, Barney Weber.

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SUNDAY, FEBRUARY 8—

- 10:30 to 12:30 noon—Morning service of the Temple, radiocast from the pulpit. Music by the Revival Chorus, male quartet and soloists. Sermon by Aimee Semple McPherson. Esther Fricke Green at the organ.
- 2:30 to 4:30 p. m.—Complete afternoon service with sermon by the pastor. Music by the Silver Band and Temple Choir under the direction of G. N. Nichols.
- 7:00 to 9:45 p. m.—Complete evening service, opening with special musical hour program, featuring the Silver Band and Temple Choir, with many special features. Esther Fricke Green, organist. Musical program followed by the evangelistic sermon of Aimee Semple McPherson, with Altar Call and After Service.
- 10:00 to 11:00 p. m.—Organ recital program of Esther Fricke Green, assisted by Ruth Patterson Miller, soprano and Harriet Keese Lanphair, violinist. Organ numbers will include (1) Adoration, by Borowski; (2) Evening Bells, and Cradle Song, by McFarlane; (3) Solace, by Sibley Pease.

TUESDAY, FEBRUARY 10—

- 10:30 to 11:30 a. m.—Sunshine morning hour program personally presented by Mrs. McPherson, with prayer for the sick and afflicted of Radioland.
- 3:30 to 4:30 p. m.—Afternoon organ recital program of Esther Fricke Green, assisted by Sarah Karcher, violinist, and Orina Brenner Smith, soprano. Organ numbers will include (1) The Curfew, by Hersman; (2) Cantabile, from 7th Sonata, by Guilman; (3) Southern Melodies.
- 6:30 to 7:30 p. m.—Special children's program conducted and arranged by Harry James Beardsley (Cousin Jim), presenting Ruth McCalla Edwards, soprano, and Eugene Lamb, pianist and accompanist. Bedtime story by Charles W. Fricke, deputy district attorney.

WEDNESDAY, FEBRUARY 11—

- 10:30 to 11:30 a. m.—Sunshine hour program. Aimee Semple McPherson's personal hour with the Church of the Air, and prayer for the sick.
- 2:30 to 4:30 p. m.—Divine Healing auditorium service. Testimonies of healing in answer to prayer. Sermon by Aimee Semple McPherson with Altar Call. Music by the Ladies Revival Chorus and soloists.
- 6:30 to 7:30 p. m.—Gray Studio children's program arranged and presented by Mrs. Edward Hughes, featuring her two little daughters, Mary Elizabeth and Helen Edwina. Mrs. Rose, pianiste.

THURSDAY, FEBRUARY 12—

- 10:30 to 11:30 a. m.—Radio Bible School, Sunshine Hour musical program and prayer service.
- 3:30 to 4:30 p. m.—Afternoon organ recital program.
- 7:30 to 9:15 p. m.—Auditorium broadcast. Water baptismal service and sermon of Aimee Semple McPherson. Music by the Silver Band and Temple Choir, and organ.
- 9:15 to 10:00 p. m.—Gray Studio program arranged and presented by Carl Edward Hatch, violinist and baritone and Mora Leonard Hatch, pianist and soprano, with assisting artists. Program through the courtesy of the Butts Music Company.
- 10:00 to 11:00 p. m.—Organ recital program of Esther Fricke Green, assisted by Gladys Imlah, soprano, and Wilhelmina Carson, contralto. Organ numbers will include (1) (Nocturne, by Ferrata; (2) Menuett, by Mach; (3) Samson and Delilah, by Saint-Saens.

FRIDAY, FEBRUARY 13—

- 10:30 to 11:30 a. m.—Radio Bible School, Sunshine musical program and prayer for the sick and afflicted of Radioland, conducted by Aimee Semple McPherson.
- 3:30 to 4:30 p. m.—Afternoon organ recital program, with assisting soloists.
- 7:30 to 9:15 p. m.—Auditorium Service, radiocast from the pulpit. "Crusader's Rally." Evangelistic sermon by Aimee Semple McPherson. Music by the Silver Band and Temple Choir, visiting soloists.
- 9:15 to 10:00 p. m.—Gray Studio program sponsored and arranged by Judge Carlos S. Hardy of the Superior Court. Frank Geiger, noted basso. Address by Judge Hardy.
- 10:00 to 11:00 p. m.—Organ recital program with assisting soloists.

SATURDAY, FEBRUARY 14—

- 10:30 to 11:30 a. m.—Sunshine Hour program personally presented by Aimee Semple McPherson.
- 3:30 to 4:30 p. m.—Impromptu Gray Studio program.
- 7:30 to 9:30 p. m.—Auditorium service radio cast from the pulpit. Sermon on Divine Healing by Aimee Semple McPherson. Testimonies of healing in answer to believing prayer. Special music. Altar call.

Evening Herald, Los Angeles

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MONDAY, FEBRUARY 9—

7:00 to 8:00 p. m.—Evening Herald Radiolans. Charles Melson, tenor; Mrs. C. N. Bell, contralto.

WEDNESDAY, FEBRUARY 11—

8:00 to 9:00 p. m.—Program presented by Native Daughters of the Golden West.

FRIDAY, FEBRUARY 13—

9:00 to 10:00 p. m.—Kennedy's Broadcasters of Long Beach. Clarabelle Beck, vocalist; C. C. Bergstrom, baritone.

K J S—Bible Institute Radiophone—293 Meters

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SUNDAY, FEBRUARY 8—

10:45 to 12:30 noon—Regular services of the Church of the Open Door, including sermon by Dr. Hubert Booth Smith, pastor of Immanuel Presbyterian Church, Los Angeles. Musical program in charge of Mr. J. B. Trowbridge, assisted by Mrs. Irvin Fallis, soprano; Mr. Alfred A. Butler, organist, and chorus choir of 100 voices.

6:00 to 6:45 p. m.—Radio vesper service with sermon by Rev. William H. Pike; Mrs. Fern Barton, organist, and Miss Hope Hepburne, soprano soloist.

7:15 to 9:30 p. m.—Sermon by Dr. Hubert Booth Smith. Musical program in charge of Mr. J. B. Trowbridge, assisted by Mr. C. M. Books, baritone; 100 voice choir, and Mr. Alfred A. Butler, organist.

TUESDAY, FEBRUARY 10—

8:00 to 9:00 p. m.—Musical program of chorus and quartet numbers, duets and solos given by choir of Broadway Christian Church under the direction of Mrs. Alma K. Moss.

THURSDAY, FEBRUARY 12—

8:00 to 9:00 p. m.—Musical program of vocal and instrumental numbers, including saxophone solos and duets by Richard Hollinger and Hulen Mason; Bible Institute Ladies' Quartet; Mr. Ernest Nichols, baritone, and organ numbers. Miss Winifred Rouzee will give the second lecture of her series on "A Bird's-eye View of the Bible."

KPPC, Pasadena Presbyterian Church, 229 Meters

50 WATT—PASADENA, CALIF.

PROGRAM FOR WEEK FEBRUARY 8-15

SUNDAY, FEBRUARY 8—

10:45 a. m.—Detail of program of morning service.

11:00 a. m.—Sermon by Rev. Robert Freeman, D.D., pastor. Soloist, Blanche McTavish. Smith, contralto.

6:45 p. m.—Detail of program of evening service.

7:00 p. m.—Organ recital.

7:30 p. m.—Sermon by Dr. Freeman. Soloist, A. J. Kisselburgh, baritone.

WEDNESDAY, FEBRUARY 11—

7:00 p. m.—Professor Carl S. Knopf of U. S. C., lectures, "Zephaniah on Bigotry," "Jeremiah on Corrupt Politics."

7:45 p. m.—Midweek services led by Rev. James Leishman, assistant pastor.

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DAILY EXCEPT SUNDAY—

- 8:00 a. m.—Inspirational talk and morning prayer.
- 9:00 a. m.—"Hired Hand" Birthday notices and news.
- 10:00 a. m.—"Hired Hand's" morning message.
- 10:30 a. m.—Kate Brew Vaughn of the Los Angeles Express Editorial Staff.
- 11:00 a. m.—News of 25 and 50 years ago and K-N-X temporary program.
- 12:00 to 1:00 p. m.—Time signals from Washington, D. C., followed by Wurlitzer organ concert from Wurlitzer Studio.
- 2:00 to 4:00 p. m.—K-N-X temporary program.
- 5:00 p. m.—Market reports.
- 5:45 p. m.—Organ recital from Wurlitzer Studio and Sid Ziff "Sport Talk."

SUNDAY, FEBRUARY 8—

- 5:00 p. m.—Radio Sunset Service conducted by Rev. Charles F. Asked, D.D., LL.D.
- 7:00 to 7:45 p. m.—International Association of Bible Students' hour of music.
- 8:00 to 9:00 p. m.—Hotel Ambassador Concert Orchestra, Joseph Rosenfeld, leader.
- 9:00 to 11:00 p. m.—Program sponsored by the El Encanto Apts.

MONDAY, FEBRUARY 9—

- 6:30 to 7:30 p. m.—Silent.
- 9:00 to 10:00 p. m.—Sponsored by Globe Ice Cream Co.
- 10:00 to 11:00 p. m.—Silvertown Orchestra and Lillian May Challenger.
- 11:00 to 12:00 p. m.—Ambassador Hotel Abe Lyman's Coconut Grove Orchestra.

TUESDAY, FEBRUARY 10—

- 1:00 p. m.—Germain's Garden Talk.
- 1:15 p. m.—Dr. Wayne Burr—care of children.
- 6:30 to 7:30 p. m.—Dinner Hour program sponsored by R. C. Durant.
- 8:00 to 9:00 p. m.—Feature program by Elite Catering Co.
- 9:00 to 10:00 p. m.—Feature program by Barrows Motor Car Co.
- 10:00 to 12:00 p. m.—Hotel Ambassador-Abe Lyman's Coconut Grove Orchestra

WEDNESDAY, FEBRUARY 11—

- 11:00 a. m.—Dr. Floyd T. Brown's Plastic and Cosmetic Surgery.
- 6:15 to 7:00 p. m.—Hi Moulton and orchestra.
- 7:00 to 8:00 p. m.—Ambassador Hotel Concert Orchestra.
- 8:00 to 10:00 p. m.—Program sponsored by Security Trust and Savings Bank.
- 10:00 to 12:00 p. m.—Hollywoodland Dance Orchestra.

THURSDAY, FEBRUARY 12—

- 4:00 p. m.—Estelle Lawton Lindsay's Travel Talk.
- 6:15 to 7:30 p. m.—Los Angeles County Association of Optometrists presenting Ziegler's Orchestra.
- 7:30 p. m.—J. B. Douglass' Security Business Talk.
- 8:00 to 9:00 p. m.—Feature program sponsored by Globe Ice Cream Co.
- 9:00 to 10:00 p. m.—Program sponsored by B. H. Dyas Co.
- 10:00 to 11:00 p. m.—Hotel Ambassador-Abe Lyman's Coconut Grove Orchestra.

FRIDAY, FEBRUARY 13—

- 11:30 a. m.—Estelle Lawton Lindsay's Talk to Women.
- 5:15 p. m.—Children's program.
- 7:30 p. m.—Richfield Oil Company's Motorlog.
- 6:15 to 7:30 p. m.—Dinner hour.
- 8:00 to 10:00 p. m.—Program sponsored by Broadway Department Store.
- 11:00 to 12:00 p. m.—Ambassador Hotel-Abe Lyman's Coconut Grove Orchestra.

SATURDAY, FEBRUARY 14—

- 1:00 p. m.—Radio Talk by Forbes Van Why.
- 6:15 to 7:00 p. m.—Dinner hour program.
- 7:00 to 7:30 p. m.—D. B. Carpenter's half hour.
- 7:30 to 8:00 p. m.—Organ recital by Wurlitzer Studios.
- 8:00 to 10:00 p. m.—Salisbury & Alexander Voyage to the South Seas.
- 10:00 to 11:00 p. m.—Ambassador Hotel-Abe Lyman's Orchestra.
- 11:00 to 12:00 p. m.—June Pursell, the K-N-X Girl.

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PROGRAM FOR WEEK COMMENCING SUNDAY, FEBRUARY 8, 1925

SUNDAY, FEBRUARY 8—

- 10:45 to 12:00 noon—The Press-Telegram radiocasting the sermon, service and music of the First Congregational Church, Rev. Henry Kendall Booth, pastor.
 6:30 to 7:30 p.m.—Virginia Hotel Ladies Trio.
 8:00 to 9:00 p.m.—Sermon, service and music from the First Church of Christ, Scientist.
 9:00 to 11:00 p.m.—Special program by the Echophone Entertainers, featuring the Jack Rabbit Racer Versatile Players Orchestra.

MONDAY, FEBRUARY 9—

- 6:30 to 7:15 p.m.—The Virginia Hotel Ladies Trio.
 7:15 to 8:00 p.m.—The Cinderella Ballroom Orchestra under the direction of Jack Levine.
 8:00 p.m.—The Polytechnic High School Orchestra, under the direction of George C. Moore, radiocast from the stage of the Municipal Auditorium.
 10:00 to 11:00 p.m.—The Virginia Hotel Ballroom Orchestra.

TUESDAY, FEBRUARY 10—

- 2:30 to 4:00 p.m.—The Long Beach Municipal Band under the direction of Herbert L. Clarke.
 6:30 to 7:15 p.m.—The Virginia Hotel Ladies Trio.
 7:30 to 9:00 p.m.—The Press-Telegram news dispatches and program, including soloists with the Long Beach Municipal Band. Charles E. Seeley, xylophone, "Liebesfreud" (Kreisler); Herbert L. Clarke, world's premier cornetist, "Macushla" (Macmurrough).
 Concert by Phyllis Raudall, violinist.
 9:00 to 10:30 p.m.—Virginia Hotel Ballroom Orchestra.

WEDNESDAY, FEBRUARY 11—

- 2:30 to 4:00 p.m.—The Long Beach Municipal Band, under the direction of Herbert L. Clarke.
 6:30 to 7:15 p.m.—The Virginia Hotel Ladies Trio.
 7:30 to 9:00 p.m.—The Press-Telegram news dispatches and special program, including soloists with the Long Beach Municipal Band. Vocal solo, Charles O. Beynon, "In the Garden of My Heart" (Ball); Harold B. Stephens, saxophone solo, "Erica" (Wiedoeft).
 Program by L. D. Frey, director of music at the First Christian Church.
 9:00 to 10:30 p.m.—Virginia Hotel Ballroom Orchestra.

THURSDAY, FEBRUARY 12—

KFON silent afternoon and evening.

FRIDAY, FEBRUARY 13—

- 2:30 to 4:00 p.m.—The Long Beach Municipal Band, under the direction of Herbert L. Clarke.
 6:30 to 7:15 p.m.—The Virginia Hotel Ladies Trio.
 7:30 to 9:00 p.m.—The Press-Telegram news dispatches and program, including solos by the Long Beach Municipal Band. Frank H. Gillum, trombone, "Song of the Soul" (Briel); Saxophone quartet: Harold B. Stephens, Eddie Klein, Leon E. Weir, James E. Son, "Hinky Dink" (Mills). Concert by Grace M. E. Church, under the direction of Harry Thompson.
 9:00 to 10:30 p.m.—Virginia Hotel Ballroom Orchestra.

SATURDAY, FEBRUARY 14—

- 2:30 to 4:00 p.m.—The Long Beach Municipal Band, under the direction of Herbert L. Clarke.
 6:30 to 7:15 p.m.—The Virginia Hotel Ladies Trio.
 7:30 to 9:00 p.m.—The Press-Telegram news dispatches and concert including soloists with the Long Beach Municipal Band. Baritone solo, Vito Pinto, "The Pearl Fishers" (Bizet); cornet duet, George H. Tyler, assistant director of the Long Beach Municipal Band; and Floyd B. Hoose, "I Would That My Love" (Mendelssohn). Concert program by the Nick Harris Detectives under direction of Charles W. Pipkin, local manager.

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K F R C—Radioart Studio—280 Meters**BULLETIN RADIO HEADQUARTERS, HOTEL WHITCOMB, SAN FRANCISCO, CAL.****SUNDAY, FEBRUARY 8—**

6:30 to 7:30 p.m.—Popular concert by Bem's Little Symphony Orchestra, Eugenia Bem conducting, playing in Drury Lane, Hotel Whitcomb.

7:30 to 8:00 p.m.—Station KFRC silent.

8:00 to 10:00 p.m.—Concert by Bem's Little Symphony Orchestra: Overture—Raymond (Thomas); Walts—Dorfkinder (Kalman); Selection—Bohemian Girl (Balfé); Ballet of the Flowers (Hadley); Mignonette, Bachelor Buttons, Hollyhocks, Poppies. Russian Folk-songs, arranged by Stanislaus Bem. Late news bulletins at 9 p.m. Serenade (Toselli); Grand Opera selection, "Faust" (Gounod).

10:00 to 12:00 p.m.—Dance music by Paul Kelli's Orchestra, playing in Il Trovatore Roof Garden Cafe, Broadway and Kearny Street, broadcast by remote control wire to KFRC. During intermissions Baron Keyes, composer, and other artists will present a studio program.

MONDAY, FEBRUARY 9—

6:30 to 6:37 p.m.—Stock and bond news from the S. F. Stock Exchange.

6:37 to 6:50 p.m.—Late news bulletins by direct wire from the editorial rooms of the San Francisco Bulletin.

Silent night.

TUESDAY, FEBRUARY 10—

6:30 to 6:37 p.m.—Stock and bond news from the S. F. Stock Exchange.

6:37 to 6:50 p.m.—Late news bulletins by direct wire from the editorial rooms of the San Francisco Bulletin.

6:50 to 8:00 p.m.—Station KFRC silent.

8:00 to 10:00 p.m.—Dance program by Paul Kelli's Orchestra, playing in Il Trovatore Roof Garden Cafe, broadcast by remote control wire to KFRC. During intermission George Olmo, 19-year-old tenor, accompanied by Vernon Hahn, will sing popular numbers from the studio.

WEDNESDAY, FEBRUARY 11—

6:30 to 6:37 p.m.—Stock and bond news from the S. F. Stock Exchange.

6:30 to 7:30 p.m.—Popular concert by Bem's Little Symphony Orchestra, Eugenia Bem conducting. During intermission late news bulletins will be broadcast by direct wire from the editorial rooms of the San Francisco Bulletin.

7:30 to 8:00 p.m.—Station KFRC silent.

8:00 to 9:00 p.m.—Concert by Bem's Little Symphony Orchestra: Waltz—Wine, Woman and Song (Strauss); Ballet Music from Faust (Gounod); All Souls Day (Strauss); Song of India (Rimsky-Korsakoff); Meditation (Blon).

9:00 to 9:30 p.m. (and during intermissions of 8 to 9 program)—Studio program under the direction of Mary Jane Johnston: Baritone solos—The Floral Dance (Manx); Sea Song (Fauer), Theodore Fawer. Soprano solos—Pirate Dreams; Mighty Lak a Rose (Nevin), Olivia Wright. Tenor solos—That Old Irish Mother of Mine; Sally, John Joseph Bogue (the "Irish tenor"). Duet selections—West of the Great Divide (Ball); Absent (Metcalf), Olivia Wright and Mary Jane Johnston. Baritone solos—Selected, A. L. Rosa. Duet selections—Where the River Shannon Flows; Believe Me of All Those Endearing Young Charms, John Joseph Bogue and A. L. Rosa. KFRC health address: Pathe News Radio broadcast.

9:30 to 11:00 p.m.—Weekly meeting of the KFRC Cuckoo Club, Keep Forever Radiating Cheer order, in the Home Coop in the studio of KFRC.

11:00 p.m. to 1:00 a.m.—Paul Kelli's orchestra, playing in Il Trovatore Roof Garden Cafe, Broadway and Kearny street, broadcast by remote control wire to KFRC.

THURSDAY, FEBRUARY 12—

6:30 to 6:37 p.m.—Stock and bond news from the S. F. Stock Exchange.

6:37 to 6:50 p.m.—Late news bulletins by direct wire from the editorial rooms of the San Francisco Bulletin.

6:50 to 8:00 p.m.—Station KFRC silent.

8:00 to 10:00 p.m.—Dance program by Paul Kelli's orchestra, playing in Il Trovatore Roof Garden Cafe, Broadway and Kearny street, broadcast by remote control wire to KFRC. During intermissions Jack Raikes, tenor, accompanied by "Phee" Breidenbach will render popular numbers from the studio.

FRIDAY, FEBRUARY 13—

6:30 to 6:37 p.m.—Stock and bond news from the S. F. Stock Exchange.

7:00 to 7:30 p.m.—Popular concert by Bem's Little Symphony Orchestra, Eugenia Bem conducting, playing in Drury Lane, Hotel Whitcomb. During intermissions Steve McNeil will play popular piano numbers in the studio.

7:30 to 8:00 p.m.—Station KFRC silent.

8:00 to 9:00 p.m.—Concert by Bem's Little Symphony Orchestra: Waltz—Summer Evening (Waldteufel); Ballet Music from "Aida" (Verdi); Romance (Grumfeld); Badinage (Herbert). During intermissions, late news bulletins will be broadcast by direct wire from the editorial rooms of the San Francisco Bulletin.

9:00 to 10:00 p.m.—Studio program given under the direction of the speakers' bureau, San Francisco Community Chest. Pathe News Radio Broadcast.

10:00 to 11:00 p.m.—Dance program by Paul Kelli's Orchestra, playing in Il Trovatore Roof Garden Cafe, Broadway and Kearny street, broadcast by remote control wire to KFRC. During intermissions Paul Nelson will play popular piano numbers in the studio.

SATURDAY, FEBRUARY 14—

6:30 to 6:37 p.m.—Stock and bond news from the S. F. Stock Exchange.

6:37 to 7:30 p.m.—Dance program by Elmer Ohlsen's Hotel Whitcomb Orchestra, playing in the main dining room of the Hotel Whitcomb. During intermissions late news bulletins will be broadcast by direct wire from the editorial rooms of the San Francisco Bulletin. (Silent night.)

K G O—Pacific Broadcasting Station—299.8 Meters

GENERAL ELECTRIC COMPANY, OAKLAND, CALIFORNIA

(Pacific Time)

- 1:30 p. m.—Daily except Sunday—Stock reports.
 1:45 p. m.—Daily except Sunday—Weather reports.
 3:00 p. m.—Daily except Saturday and Sunday—Studio program.
 4:00 to 5:30 p. m.—Daily except Sunday—St. Francis Hotel, San Francisco, Orchestra.
 6:45 to 7:15 p. m.—Daily except Sat. and Sun.—Stock reports, weather reports, news items

SUNDAY, FEBRUARY 8—

- 11:00 a. m.—Service of the First Baptist Church, Oakland. Organ prelude—Am Meer (Schubert), Martha Dukes Parker. Doxology and Invocation. Gloria. Hymn No. 350. Scripture. Anthem—We Praise Thee, O God (Kotzschmar). Prayer. Response—May the Words (Noyes). Announcements and Offertory. Duet for soprano and tenor—Love Divine (Stainer). Sermon—"How a Church Can Bruise Satan Under Its Feet," Rev. John Snape, D.D., pastor. Hymn No. 180. Benediction. Organ Postlude—Luis Deo (Dubois).
 3:30 p. m.—Concert by the KGO Little Symphony Orchestra, Carl Rhodehamel conducting; assisted by guest artists. Orchestra: Waltz—Adoration (Legrand). Overture—Jolly Robbers (Suppe). Caucasian Sketches (Ippolitow-Iwanow). Guest artist period: Tenor solo—At Night (Rachmaninoff), Harry Robertson. Piano solos—(a) Perpetuum Mobile (Weber); (b) March Mignonne (Poldini), Mrs. Herbert Avery. Tenor solo—Aria from "Zaza" (Leoncavallo), Harry Robertson. Piano solos—(a) The Lark (Glinka-Dalakireff); (b) The Juggler (Moszkowski), Mrs. Herbert Avery. Orchestra: Espana Rhapsody (Chabrier), with interpretative comment by Arthur S. Garbett, Musical Editor of Radio-cast Weekly, San Francisco. Duet for flute and horn—Serenade (Titl), Arthur T. Baker, flute; Henry Spies, horn. March—Spanish Popular Airs (Clerc).
 7:30 p. m.—Service of the First Baptist Church, Oakland. Organ recital—(a) Serenade (Pierne); (b) Pilgrims' Chorus from "Tannhauser" (Wagner); (c) Vox Celeste (Batiste), Martha Dukes Parker. Song service—Nos. 326 and 459. Scripture. Anthem—Out of Heaven (Cowen). Prayer. Response—May the Words (Noyes). Announcements and Offertory. Bass solo—I Sought the Lord (Stevenson), Charles Lloyd. Violin solo—Nocturne (Chopin-Sarasate), Orlee See. Sermon—"After Thirty Years—What I Believe About Sin," Rev. John Snape, D.D., Pastor. Hymn. Benediction. Organ postlude—Polonaise (Chopin).

MONDAY, FEBRUARY 9—

- 8:00 p. m.—Educational program. Goin' Home (from New World Symphony) (Dvorak). Far Off I Hear a Lover's Flute (Cadman), Arion Trio. Agricultural Course—"Possibilities of Co-operative Marketing," Professor Erdman, Division of Rural Institutions, College of Agriculture, University of California. Rondino (Beethoven), Arion Trio. "A Lesson in English," Wilda Wilson Church. Cello solo—Andante (Goltermann), Margaret Avery. "College and University," Dr. Aurelia Henry Reinhardt, president Mills College, Oakland. Violin solo—Mazurka di Concert (Ovide Musin), Josephine Holub. "Chats About New Books," Joseph Henry Jackson, Literary Editor, Sunset Magazine. Serenade (Drigo), Arion Trio.

TUESDAY, FEBRUARY 10—

- 8:00 p. m.—Studio program: Hawaiian selections—Hawaiian Harmony Kings. Tenor solos—(a) Duna (McGill); (b) When I Go Home (Towner), Jennings Pierce; Gertrude M. Phillips, accompanist. Piano solos—Edna Linkowski. Soprano solos—(a) Villanelle (dell'Aqua); (b) Lullaby (Godard), Elsa Baulsir. Baritone solos—George N. Calfee; Mrs. George N. Calfee, accompanist. Hawaiian selections—Hawaiian Harmony Kings. Contralto solos—Pearl Derbidge; Gertrude M. Phillips, accompanist. Violin solo—G Minor Concerto (Max Bruch), Kornelis Bering; Mrs. Leidner Jansen, accompanist. Bass solos—(a) O Isis and Osiris (Mozart); (b) Within This Sacred Dwelling (Mozart), Richard Lundgren; Gertrude M. Phillips, accompanist. Address—"The Football Season Just Past," Walter Christie, track coach University of California. Tenor solos—(a) Mother Mine (Haeussler); (b) The Sunny San Joaquin (by request), Jennings Pierce. Violin solos—(a) Mazurka (Wieniawski); (b) Cavatina (Raff), Kornelis Bering. Soprano solos—(a) Winken, Blinken and Nod (Ross); (b) Phyllis Has Such Charming Graces (Wilson), Elsa Baulsir. Piano solos—Edna Linkowski. Baritone solos—George N. Calfee. Violin solo—Meditation, from "Thais" (Massenet), Kornelis Bering. Bass solos—(a) The Pirate Song (Denison); (b) Rocked in the Cradle of the Deep (Knight), Richard Lundgren. Hawaiian selections—Hawaiian Harmony Kings.
 10:00 p. m. to 1:00 a. m.—Dance music program by Henry Halstead's Orchestra and soloists, Hotel St. Francis, San Francisco.

WEDNESDAY, FEBRUARY 11—

Silent night.

THURSDAY, FEBRUARY 12—

- 8:00 p. m.—Studio program. "Seven Keys to Baldpate," a melodramatic farce, in a prologue, two acts, and an epilogue; by George M. Cohan. Presented by the KGO Players under the direction of Wilda Wilson Church. Music by the Arion Trio. Characters:

K G O—Pacific Broadcasting Station—299.8 Meters

GENERAL ELECTRIC COMPANY, OAKLAND, CALIFORNIA

Elijah Quimby, the caretaker of Baldpate Inn; Mrs. Quimby, the caretaker's wife; William Hollowell Magee, the novelist; John Bland, the millionaire's right-hand man; Mary Norton, the newspaper reporter; Mrs. Rhodes, the charming widow; Peters, the Hermit of Baldpate; Myra Thornhill, the blackmailer; Lou Max, the Mayor's man "Friday"; Jim Cargan, the crooked Mayor of Reuton; Thomas Hayden, the president of the R. & E. Suburban R. R.; Jiggs Kennedy, Chief of Police of Asquewan Falls; The owner of Baldpate, Slavonic Dance No. 16 (Dvorak); Sing Me to Sleep (Greene), Arion Trio. Act I—The office of Baldpate Inn. Forget Me Not (Macbeth), Arion Trio. Act II—Same as Act I. Sancta Lucia (Neapolitan Boat Song); Ah, Marie (di Capua), Arion Trio.

10:00 p. m. to 1:00 a. m.—Dance music program by Henry Halstead's Orchestra and soloists, Hotel St. Francis, San Francisco.

FRIDAY, FEBRUARY 13—

Silent night.

SATURDAY, FEBRUARY 14—

8:00 p. m.—Studio program. String quartet selections—(a) Andante (Strauss); (b) The Mill (Raff), California String Quartet. Tenor solo—Dreaming Alone in the Twilight (Moore), Harvey Shubert. Trumpet solo—Simple Confession (Thome), S. Duke Smith. Contralto solos—(a) Dost Thou Know That Sweet Land (Thomas); (b) Dream So Fair (Metcalfe), Mrs. S. G. Walsh. String quartet selections—(a) Carry Me Back to Ole Virginia (Bland); (b) Old Black Joe (Foster), California String Quartet. Address—"Contentment," Dr. Frederick W. Clappett. Tenor solo—"Look Down Dear Eyes (Fisher), Harvey Shubert. Trumpet solo—Song of Love, from "Blossom Time" (Schubert), S. Duke Smith. Baritone solos—(a) Sometime (Lockwood); (b) Take a Look at Molly (Lockwood), Walter Kliegel. String quartet selections—(a) Nocturne (Borodine); (b) Canzonetta (Mendelssohn), California String Quartet. Contralto solos—(a) In a Fairy Boat (Barnard); (b) Annie Laurie (Old Scotch Melody), Mrs. S. G. Walsh. Cello solos—(a) Minstrel's Chant (Glaznow); (b) Serenade (Glaznow), Winston Petty, with harp accompaniment by Cecil Hanson. Baritone solos—(a) All Thru the Night (Welsh Melody); (b) Passing By (Purcell), Walter Kliegel. Address—"Stamp Collecting," George W. Ludlow. String quartet selections—(a) Minuet (Boccherini); (b) Andante (Tschalkowsky), California String Quartet.

10:00 p. m. to 1:00 a. m.—Dance music program by Henry Halstead's Orchestra and soloists, Hotel St. Francis, San Francisco.

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OLIVER W. TUTTLE, Managing-Director, Radio KPO

DAILY EXCEPT SUNDAY—

7:00 a. m.—"Daily Dozen" (health exercises) by Bernard Drury.

10:00 a. m.—"Ye Town Crier," news bulletins of the world.

10:15 a. m.—"What is playing at local theatres."

12:00 noon—Time signals from the Naval Observatory. Reading of the Scripture.

SUNDAY, FEBRUARY 8—

11:00 to 12:00 noon—Undenominational and non-sectarian church services. Talk, Dr. T. F. Day, Presbyterian. Soloist, Faun Post Trowbridge, soprano; organist, Theodore J. Irwin.

8:30 to 10:00 p. m.—Concert by Rudy Seiger's Fairmont Hotel Orchestra, broadcast by wire telephony.

MONDAY, FEBRUARY 9—

11:00 a. m.—Chat to the housewives on "Home Making" by "Prudence Penny" of the S. F. Examiner.

1:00 to 2:00 p. m.—Rudy Seiger's Fairmont Hotel Orchestra, broadcast by wire telephony.

4:30 to 5:30 p. m.—Rudy Seiger's Fairmont Hotel Orchestra, broadcast by wire telephony.

5:30 to 6:30 p. m.—Children's hour stories by Big Brother of KPO, taken from the Book of Knowledge.

6:30 p. m.—"What is playing at the various theatres."

7:00 to 7:30 p. m.—Rudy Seiger's Fairmont Hotel Orchestra, broadcast by wire telephony.

8:00 to 9:00 p. m.—Organ recital by Theodore J. Irwin, official organist, at the Wurlitzer.

9:00 to 10:00 p. m.—Program under the management of Mynard Jones, bass.

10:00 to 11:00 p. m.—E. Max Bradfield's Versatile Band, playing in the Palace Hotel.

TUESDAY, FEBRUARY 10—

1:00 to 2:00 p. m.—Rudy Seiger's Fairmont Hotel Orchestra, broadcast by wire telephony.

4:30 to 5:30 p. m.—Rudy Seiger's Fairmont Hotel Orchestra, broadcast by wire telephony.

5:30 to 6:30 p. m.—Children's hour stories by Big Brother of KPO, taken from the Book of Knowledge.

6:30 p. m.—"What is playing at the various theatres."

7:00 to 7:30 p. m.—Rudy Seiger's Fairmont Hotel Orchestra, broadcast by wire telephony.

8:00 to 10:00 p. m.—Program under the management of Carl Nunan (Old Melodies), featuring Ivy Holt, contralto.

10:00 to 11:00 p. m.—E. Max Bradfield's Versatile Band, playing in the Palace Rose Room Bowl.

WEDNESDAY, FEBRUARY 11—

1:00 to 2:00 p. m.—Rudy Seiger's Fairmont Hotel Orchestra, broadcast by wire telephony.

2:30 to 3:30 p. m.—Matinee program by Johnnie Buick's Amphians of the Cabiria Cafe.

4:30 to 5:30 p. m.—Rudy Seiger's Fairmont Hotel Orchestra, broadcast by wire telephony.

5:30 to 6:30 p. m.—Children's hour stories by Big Brother of KPO, taken from the Book of Knowledge.

7:00 to 7:30 p. m.—Rudy Seiger's Fairmont Hotel Orchestra, broadcast by wire telephony.

8:00 to 11:00 p. m.—E. Max Bradfield's Versatile Band playing in the Palace Rose Room Bowl. "Uncle Josh" of KPO. Piano solos, Dora Badgley; bass solos, Dr. Carl Bryant; contralto solos, Marjorie Sprague Stow.

THURSDAY, FEBRUARY 12—

1:00 to 2:00 p. m.—Rudy Seiger's Fairmont Hotel Orchestra, broadcast by wire telephony.

4:30 to 5:30 p. m.—Rudy Seiger's Fairmont Hotel Orchestra, broadcast by wire telephony.

5:30 to 6:30 p. m.—Children's hour stories by Big Brother of KPO, taken from the Book of Knowledge.

6:30 p. m.—"What is playing at the various theatres."

7:00 to 7:30 p. m.—Rudy Seiger's Fairmont Hotel Orchestra, broadcast by wire telephony.

8:00 to 9:00 p. m.—Organ recital by Theodore J. Irwin, official organist, at the Wurlitzer.

9:00 to 10:00 p. m.—Program under the management of Albert W. Meyer.

10:00 to 11:00 p. m.—E. Max Bradfield's Versatile Band, playing in the Palace Rose Room Bowl.

FRIDAY, FEBRUARY 13—

11:00 a. m.—Chat to the housewives on "Home Making" by "Prudence Penny" of the S. F. Examiner.

12:45 p. m.—Talk broadcast from the Commonwealth Club Luncheon at the Palace Hotel.

1:00 to 2:00 p. m.—Rudy Seiger's Fairmont Hotel Orchestra, broadcast by wire telephony.

4:30 to 5:30 p. m.—Rudy Seiger's Fairmont Hotel Orchestra, broadcast by wire telephony.

5:00 to 9:00 p. m.—Program by the "Cleveland Six" Orchestra of the Chandler-Cleveland

Motor Co., under the direction of Wilt Gunzendorfer.

9:00 to 10:00 p. m.—One act play by the Theatre Arts Club, under the direction of Talma

Zetta Wilbur.

SATURDAY, FEBRUARY 15—

12:00 to 2:00 p. m.—Rudy Seiger's Fairmont Hotel Orchestra, by wire telephony.

3:30 to 5:30 p. m.—Tea dansant. E. Max Bradfield's Band at the Palace Hotel.

5:30 p. m.—"What is playing at the various theatres."

8:00 to 12:00 p. m.—Art Weidner's Orchestra playing at the Fairmont Hotel.

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KLX—Oakland Tribune Radiophone—509.8 Meters**DAILY EXCEPT SUNDAY—**

7:00 to 7:30 p. m.—News items, United States Weather Bureau report, market and financial news.

SUNDAY, FEBRUARY 8—

Silent.

MONDAY, FEBRUARY 9—

6:00 to 7:00 p. m.—Dinner concert by Clement Barker, American Theater organist, playing incidental music to the Paramount picture, "The Devil's Cargo," broadcast from the theater by direct wire.

8:00 to 9:30 p. m.—Educational program: 1, Violin solo, selected, Harriet French; Eva Walker, accompanist. 2, Interpretation of the national and international news of the past week, Ad Schuster, editor of The Tribune. 3, Instrumental selection, The KLX Trio. 4, A talk on music and musicians, Roy Harrison Danforth, music editor of The Tribune. 5, Instrumental selection, The KLX Trio. 6, "Trade Acceptances," a talk on banking, Arthur W. Moore, vice-president of the Oakland Bank. 7, "Principles and Practices of Fruit Tree Planting," a talk for the orchardist and farmer, H. M. Butterfield, supervisor of agricultural correspondence courses at the University of California. 8, Instrumental selection, The KLX Trio. 9, Talk on Physical Culture, Dr. Peter L. Lersh.

9:30 to 10:00 p. m.—Music by the American Theater Orchestra, John Wharry Lewis, directing, broadcast from the theater by direct wire.

10:00 p. m.—Regular meeting of The Lake Merritt Ducks.

TUESDAY, FEBRUARY 10—

6:00 to 7:00 p. m.—Aunt Elsie's Sunset Matinee.

WEDNESDAY, FEBRUARY 11—

6:00 to 7:00 p. m.—Dinner concert by Dorothy Hawley, American Theater organist, playing incidental music to the Paramount picture, "The Devil's Cargo," broadcast from the theater by direct wire.

8:00 to 9:30 p. m.—Studio program, arranged through the courtesy of the Magnavox company of Oakland. Dedicated to the memory of Abraham Lincoln. 1, Vocal solos, (a) Marching Through Georgia; (b) Tramp, Tramp, Tramp, Marie Wallman; Ann Bruce, accompanist. 2, Recitation by member of G. A. R., Lincoln's Gettysburg Address. 3, Tenor solos, to be announced, Phil Ashcraft. 4, Instrumental selection, to be announced, The 143rd Field Artillery Band. 5, Music by the American Theater Orchestra, playing the overture to the Paramount picture, "The Devil's Cargo," broadcast from the theater by direct wire. 6, Vocal quartet selections, to be announced, The Magnavox Male Quartet. 7, Vocal selections, (a) Musetta's Waltz from "La Boheme"; (b) Little Star (La Forge), Marie Wallman; Ann Bruce, accompanist. 8, Vocal quartet selections, to be announced, The Magnavox Male Quartet. 9, Vocal solos, (a) Pace, Pace, Mio Dio, from La Forza del destino; (b) Mah Lindy Lou (Strickland).

9:30 to 10:15 p. m.—Music by Wolohan's Californians, John Wolohan director, broadcast from Sweet's Ball Room by direct wire.

THURSDAY, FEBRUARY 12—

Silent after 7:30 p. m.

FRIDAY, FEBRUARY 13—

8:00 to 10:00 p. m.—"Friday the Thirteenth!" Hoodoo program. If you are superstitious tune in on KLX for this program; if you are not superstitious tune in anyway, for it will be worth your while. Promptly at 8 o'clock it is requested that all lights be extinguished, all basement doors locked and bolted. Put the cat out and see that there are no windows left unlocked. Place the family firearms where they can be procured quickly and wait to see what happens. For tonight is Friday the Thirteenth and anything is likely to happen. Be prepared.

SATURDAY, FEBRUARY 14—

Silent after 7:30 p. m.

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MONDAY, FEBRUARY 9—

7:30 to 9:00 p. m.—Varsity Quartet of Washington State College. 1, Doodle De Doo; 2, June Night; 3, All Alone; 4, A Little Close Harmony. Readings, by speech department. Preparing Bees for Spring, B. A. Slocum, extension bee specialist. Opportunities in the Field of Physics, Dr. R. O. Hutchinson.

WEDNESDAY, FEBRUARY 11—

7:30 to 9:00 p. m.—Arcadians' Pep Orchestra of the College. 1, All Alone; 2, Dreamer of Dreams; 3, China Girl; 4, Nancy. Soprano solos, Vivian King, Davenport, 1, Twilight (Glen); 2, The Last Hour (Kramer); 3, Kashmiri Song (Woodforde-Finden); 4, To the Sun (Curran). Radio Talk No. 8, "Neutrodyne Principle," Dean H. V. Carpenter. Pointers on Dairy Farming, Prof. E. V. Ellington. Seeding Sweet Clover for Pasture, Leonard Hegnauer. Book Talk, Miss Alice L. Webb.

FRIDAY, FEBRUARY 13—

7:30 to 9:00 p. m.—Soprano solos, Miss Lusinn Barakian. Piano selections, Prof. Frederick C. Butterfield. Pied Piper of Hamelin, Read by Dorothy G. Jenkins, English Department. When Silos Pay, Don G. Magruder. Essentials of Successful Farm Management, Prof. Geo. Severance. Health Talk, U. S. Bureau of Health. Preparation for Travel in Europe, Talk No. 3, Prof. Carl M. Brewster.

K O B—New Mexico State Agricultural College

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11:55 to 12:00 noon—Standard Mountain Time.
12:00 to 12:02 p. m.—U. S. W. B. reports.
12:02 to 12:15 p. m.—Road reports, news briefs.
9:55 to 10:00 p. m.—Standard Mountain Time.
10:00 to 10:02 p. m.—U. S. W. B. reports.

SUNDAY, FEBRUARY 8—

6:30 to 7:30 p. m.—Special program, Boy Scouts Troop No. 1. Fred L. Glieson, scout master; G. W. Bright, executive; C. F. Bright, chairman, court of honor; Francis E. Lester, scout commissioner; Mr. Slingerland: A few brief three-minute talks. Musical program by the Glee Club and Girl Scouts. A few Scout songs, by the Boy Scouts.

MONDAY-TUESDAY, FEB. 9-10—

6:30 to 7:30 p. m.—Basketball game, New Mexico College of A. and M. A. with the University of Arizona, at State College.

WEDNESDAY, FEBRUARY 11—

6:30 to 7:30 p. m.—International Code Course, Lesson 6, by Dean R. W. Goddard.

FRIDAY, FEBRUARY 13—

6:30 to 7:30 p. m.—Popular Science Course, Lesson No. 4, by member of the Engineering Faculty.

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3:00 to 3:45 p. m.—Market reports, health talks and musical and educational features by the various departments of the high school on Monday, Tuesday, Wednesday, Thursday and Friday.

MONDAY, FEBRUARY 9—

7:00 to 8:30 p. m.—Program by the Spanish Club of Boise High School and Merrymakers, R. O. T. C. Orchestra.

FRIDAY, FEBRUARY 13—

7:00 to 8:30 p. m.—Recital by the pupils of Miss Mabel Woodcock, violinist.

K F K X—Westinghouse, Hastings, Neb.—288.3 Meters

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MONDAY, FEBRUARY 2—

Program of vocal and instrumental solos and ensemble numbers by York Amateur Musicals of York, Nebraska.

THURSDAY, FEBRUARY 5—

Program of vocal and instrumental solos and ensemble numbers by Immaculate Conception Academy, Hastings.

MONDAY, FEBRUARY 9—

Musical program under auspices of W. M. Dutton & Sons Company of Hastings.

THURSDAY, FEBRUARY 12—

Program under auspices of Kearney State Normal College, Kearney, Nebraska. Program of vocal and instrumental solos and ensemble numbers under direction of Geo. H. Aller.

K G W—The Morning Oregonian—485.1 Meters

PORTLAND, OREGON—PACIFIC TIME

PROGRAM FOR WEEK OF FEBRUARY 8 TO FEBRUARY 14, 1925

SUNDAY, FEBRUARY 8—

- 10:30 a. m.—Service from First Presbyterian Church, Dr. Harold Leonard Bowman, pastor.
 3:00 p. m.—Municipal concert by wire telephony from auditorium.
 6:00 p. m.—Church services provided by the Portland Council of Churches.
 7:00 p. m.—Dinner concert by Colburn Concert Orchestra of Hotel Portland; intermission solos.

MONDAY, FEBRUARY 9—

- 5:00 p. m.—Children's program; story by Aunt Nell.
 7:15 p. m.—Markets, weather, news bulletins and police reports.
 8:00 p. m.—Concert by the Oregonian Concert Orchestra.
 10:00 p. m.—Colburn's Melody Men of the Hotel Portland. Intermission numbers by Shepherd's String Orchestra. (2 hours.)

TUESDAY, FEBRUARY 10—

- 12:30 p. m.—Concert.
 5:00 p. m.—Children's program; story by Uncle Dave.
 7:15 p. m.—Markets, weather, news bulletins and police reports.
 8:00 p. m.—Oregon Agricultural College Extension Service lecture.
 8:30 p. m.—Concert by Civic Music Club featuring Mrs. Miles Delwin Warren, soprano, and Reatha Fowler Miller, contralto.
 10:00 p. m.—Multnomah Hotel Strollers. Solos by Phil Frank Houser. (2 hours.)

WEDNESDAY, FEBRUARY 11—

- 12:30 p. m.—Concert.
 5:00 p. m.—Children's program; story by Aunt Nell.
 7:15 p. m.—Markets, weather, news bulletins and police reports.
 8:00 p. m.—First act "The Mikado," by Franklin High School Music Department.
 10:00 p. m.—Multnomah Hotel Strollers. (2 hours.)

THURSDAY, FEBRUARY 12—

- 12:30 p. m.—Concert sponsored by Civic Music Club of Portland.
 5:00 p. m.—Children's program.
 7:15 p. m.—Markets, weather, news bulletins and police reports.

FRIDAY, FEBRUARY 13—

- 12:30 p. m.—Concert.
 5:00 p. m.—Children's program; story by Aunt Nell.
 7:15 p. m.—Markets, weather, news bulletins and police reports.
 8:00 p. m.—Lecture sponsored by University of Oregon Extension Division. Prof. Franklin E. Foltz, assistant dean, School of Business Administration.
 10:30 p. m.—Hoot Owls.

SATURDAY, FEBRUARY 14—

- 10:00 p. m.—Colburn's Melody Men of the Hotel Portland.

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CARL E. HAYMOND, PROGRAM ANNOUNCER

SUNDAY, FEBRUARY 8—

Silent.

MONDAY, FEBRUARY 9—

4:00 to 5:15 p. m.—The Times "Afternoon at Home" program.

6:45 to 8:15 p. m.—Sherman, Clay & Co. program.

8:30 to 10:00 p. m.—The Times program recital featuring Myra Vancroft Olive.

TUESDAY, FEBRUARY 10—

12:30 to 1:30 p. m.—Kiwanis Club luncheon program from the Olympic Hotel.

4:00 to 5:15 p. m.—The Times, Wm. F. Hoffman's Olympic Hotel Concert Orchestra.

6:45 to 8:15 p. m.—Rhodes Department Store program under direction of Wm. Taggart.

8:30 to 10:00 p. m.—The Times program dance music by Lamba Chi Alpha Fraternity Orchestra.

10:00 to 11:00 p. m.—Eddie Harkness and his orchestra

WEDNESDAY, FEBRUARY 11—

12:30 to 1:30 p. m.—The Rotary Club Luncheon program from the Olympic Hotel.

4:00 to 5:15 p. m.—The Times, Wm. F. Hoffman's Olympic Hotel Concert Orchestra.

6:45 to 8:15 p. m.—Hopper Kelly Co. program.

8:30 to 10:00 p. m.—The Times program 20-piece string orchestra, W. R. Hedley, director.

THURSDAY, FEBRUARY 12—

4:00 to 5:15 p. m.—The Times, Wm. F. Hoffman's Olympic Hotel Concert Orchestra.

FRIDAY, FEBRUARY 13—

12:30 to 1:30 p. m.—Seattle Chamber of Commerce program from their new C. of C. building.

4:00 to 5:15 p. m.—The Times, Wm. F. Hoffman's Olympic Hotel Concert Orchestra.

6:45 to 8:15 p. m.—Sherman, Clay & Co. program.

8:30 to 10:00 p. m.—The Times program, Women's Century Club Chorus and soloist.

10:00 to 11:00 p. m.—Eddie Harkness and his orchestra playing

SATURDAY, FEBRUARY 14—

4:00 to 5:15 p. m.—The Times, Wm. F. Hoffman's Olympic Hotel Concert Orchestra.

6:45 to 8:15 p. m.—Rhodes Department Store program. Dance music. Betty Winningham, juvenile prodigy, in 2 groups of songs.

8:30 to 10:00 p. m.—The Times program.

10:00 to 11:00 p. m.—Eddie Harkness and his orchestra playing

K J R—Northwest Radio Service—405 Meters

SEATTLE, WASH.

PROGRAM FOR WEEK OF FEB. 9TH

MONDAY, FEBRUARY 9—

12:30 a. m.—Special Northwest Products Exposition concert by Blind Boys orchestra (1 hr.).

4:30 p. m.—Musical.

5:00 p. m.—Aunt Bunny the story lady. Puzzle night.

5:30 p. m.—Doris on styles.

5:50 p. m.—Fitch's Lines.

8:30 p. m.—Jackie Souders and his orchestra from Chanticleer Cafe.

9:15 p. m.—Recital.

TUESDAY, FEBRUARY 10—

12:30 a. m.—Special Northwest Products Exposition concert by Blind Boys orchestra (1 hr.).

4:30 p. m.—Musical.

5:00 p. m.—Aunt Bunny, the story lady. Arithmetic night.

5:30 p. m.—Bernice Redington, home economics expert.

5:50 p. m.—The Toreador column.

WEDNESDAY, FEBRUARY 11—

12:30 a. m.—Special Northwest Products Exposition concert by Blind Boys orchestra (1 hr.).

4:30 p. m.—Prof. Geo. Mayer, public speaking class.

5:00 p. m.—Aunt Bunny, the story lady. Travel night.

5:30 p. m.—Musical.

5:50 p. m.—Fitch's Lines.

8:30 p. m.—Lincoln Day program, featuring C. P. Bissett.

9:30 p. m.—Spanish lesson by Prof. Geo. Mayer.

THURSDAY, FEBRUARY 12—

12:30 a. m.—Special Northwest Products Exposition concert by Blind Boys orchestra (1 hr.).

4:30 p. m.—Musical.

5:00 p. m.—Aunt Bunny, the story lady. History night.

5:30 p. m.—Raymond D. Holmes, book review.

5:50 p. m.—The Toreador column.

7:30 p. m.—Moran School educational program.

FRIDAY, FEBRUARY 13—

12:30 a. m.—Special Northwest Products Exposition concert by Blind Boys orchestra (1 hr.).

4:30 p. m.—Aunt Bunny, the story lady's musical.

5:30 p. m.—Bernice Redington, home economics expert.

5:50 p. m.—Fitch's Lines.

8:30 p. m.—Concert.

9:30 p. m.—Spanish lesson by Prof. Geo. J. Mayer.

SATURDAY, FEBRUARY 14—

12:30 a. m.—Special Northwest Products Exposition concert by Blind Boys orchestra (1 hr.).

4:30 p. m.—Musical.

5:30 p. m.—Sport review by Royal Brougham.

K O A—Rocky Mountain Broadcasting Station

323 METERS

GENERAL ELECTRIC CO., DENVER, COLORADO
Pacific Time

DAILY EXCEPT SUNDAY—

12:01 to 12:30 p.m.—Stock reports, weather reports, news items.

5:00 to 5:30 p.m.—Stock reports, weather reports, news items.

7:00 to 10:00 p.m. Tuesdays, Thursdays and Saturdays, Studio program.

SUNDAY, FEBRUARY 8—

10:00 a.m.—Morning prayer and sermon, St. John's Episcopal cathedral, Denver; the Very Rev. Benjamin Dunlap Dagwell, dean; Rev. Jonathan Watson, D.D., canon. Prelude—*Andante* (Smart). Processional Hymn—*Ancient Days* (Jeffery). Venite (Oliver). Psalm 23. 1. Lesson Genesis 37:12-35. Te Deum Laudamus (Allum). 2. Lesson St. John 6:1-21. Jubilate Deo (Tucker). Creed and Prayers. Anthem—*Hear My Prayer* (Mendelssohn). Sermon (Dean Dagwell). Offertory Hymn—*Pleasant Are Thy Courts Above* (Gilbert). Doxology (Old Hundredth). Star-Spangled Banner (one verse). Recessional Hymn—*Onward Christian Soldiers* (Sullivan). Postlude—*War March of the Priests* (Mendelssohn).

2:00 p.m.—Concert from the Denver Municipal auditorium, by the combined First and Second bands, Olinger Highlander boys, Denver (172 players), John S. Leick, conductor. Overture—*The Altar of Genius* (King). Concert Polka—*The Ambassador* (Losey), cornet solo by Major Kenneth Gorsline. Grand selection from the *Opera Faust* (Gounod); (a) *Oriental Intermezzo*, Arabian Nights (Holmes); (b) *U. S. Field Artillery March* (Souza). Ten minute intermission, during which the Olinger Highlander Boys Second Band will play—*Humorous Fantasia on Home, Sweet Home* (Lampe). The composer describes how "Home, Sweet Home" might be played in the following countries: England, Germany, Spain, Russia, Italy, Scotland, Austria-Hungary, China, Ireland, America. Soprano solo—*Selected*, Mrs. Agnes Clark Glaister. Some blues—(a) *The Trombone Blues* (Jewell); (b) *The Red, White and Blues* (Barnhouse). A bouquet of operatic beauties, entwined by Mackie, concluding with the famous Anvil Chorus from *Il Trovatore* by the combined bands.

6:30 p.m.—Evening prayer and sermon, St. John's Episcopal cathedral, Denver; the Very Rev. Benj. Dunlap Dagwell, dean; Rev. Jonathan Watson, D.D., canon. Prelude—*Adagio Espressivo* (Henley). Processional Hymn—*Glorious Things of Thee Are Spoken* (Haydn). Psalm 42. 1. Lesson Ezekiel 14:12-end. Magnificat (Whitfield). 2. Lesson St. Luke 7:19-end. Nunc Dimittis (Whitfield). Creed and prayers. Anthem—*I Am the Voice of One Crying in the Wilderness* (Houseley); *There Shall a Star from Jacob Come Forth* (Mendelssohn). Sermon (Canon Watson). Offertory hymn—*He Who Would Valiant Be* (Douglas). Doxology (Old Hundredth). Benediction hymn—*Now the Day Is Over* (Barnby). Recessional hymn—*Stand Up, Stand Up for Jesus* (Webb). Postlude—*Toccata* (Fletcher).

MONDAY, FEBRUARY 9—

7:00 p.m.—Studio program. Instrumental selection—*Martha* (Flotow), KOA Orchestra, Lewis H. Chernoff, director. Baritone solos—*Original Indian songs*; founded on native melodies, with historic explanation (Jeancon); (a) *The Moon Dance* (Utes); (b) *Navajo Magic* (Navajo); (c) *Po-se-ye-mo's Song* (Tewa), Forrest Rutherford; accompanied by Jean Allard Jeancon. Address—*Primitive Coloradoans*, Jess Allard Jeancon. Curator of Archeology and Ethnology, Museum of Colorado. Instrumental selection—*Habanera* (Ferrari), KOA Orchestra; Lewis H. Chernoff, director. Baritone solos—*Original Indian songs*; founded on native melodies, with historic explanation (Jeancon); (a) *Butterfly Dance* (Hopi); (b) *Rain in the Desert* (Navajo); (c) *Homesick* (Tewa), Forrest Rutherford, accompanied by Jean Allard Jeancon. Instrumental selection—*At Dawning* (Cadman), KOA Orchestra, Lewis H. Chernoff, director. Part II, *The Sunset Trail* (Cadman). An Indian opera in two scenes. This is the first time this operatic cantata has been given by radio. The cantata was given its premiere in Denver on Dec. 5, 1924, under the auspices of the Denver Music Week Association. The original cast will appear at this time, as follows: Wildflower, contralto, Lucile Fowler; Redfeather, tenor, Elwin Smith; Chief, baritone, Everett E. Foster; Grey Wolf, bass, Leroy R. Hinman; Old Man, tenor, Louis H. Baine; Medicine Man, tenor, Albert Kyffin; Brave, tenor, Robert D. Kenworthy; Men and women of the tribe. Scene 1—An Indian camp, evening. Scene 2—The same the following dawn. John C. Wilcox, director.

TUESDAY, FEBRUARY 10—

Silent night.

WEDNESDAY, FEBRUARY 11—

7:00 p.m.—Studio program, courtesy Treble Clef club of Denver (150 voices). Instrumental selection—*Crema de la Crema* (Tobani), KOA Orchestra; Lewis H. Chernoff, director. Choral selections—(a) *On Wings of Music* (Mendelssohn); (b) *Whirl and Twirl* (chorus of Spinning Maidens) (Wagner); (c) *To Music* (Schubert); incidental baritone solo, Leroy Race Hinman, Treble Clef Club. Soprano solo—*The Great Awakening* (Kramer), Ina Rains. Baritone solos—(a) *God's Glory* (Beethoven); (b) *The Asra* (Rubinstein); (c) *Hear Me, Ye Winds and Waves* (Handel), Leroy Race Hinman. Folk Songs of British Isles—(a) *Call of Home* (Old Irish); (b) *Comin' Thru the Rye* (Scotch); (c) *There Was a Pig* (Lancashire), Treble Clef Club. Instrumental selection—*Pinafore* (Sullivan), KOA Orchestra. Address—Lincoln and Law Enforcement, Omar E. Garwood.

K O A—Rocky Mountain Broadcasting Station

Contralto solos—(a) Friend o' Mine (Sanderson); (b) Love's Solace (Willis); (c) O' Don Fatale from Don Carlos (Verdi); Florence Lamont Hinman. Piano solos—(a) Juba Dance (Dett); (b) Cujus Animam (Rossini); Margaret Henderson. Readings—Group of Irish Dialect Numbers, Ruth Gilbert Gillis. Choral selections—(a) Psyche (Paladilhe); (b) On Wings of Dreams (Arensky); (c) There Is No Death (O'Hara), Treble Clef Club. Baritone solos—(a) Calm As the Night (Bohm); (b) Lungi del Caro Bene (Secchi); (c) Homing (Del Riego), Leroy Race Hinman. Instrumental selection—Slavonic Dance (Dvorak), KOA Orchestra.

THURSDAY, FEBRUARY 12—

Silent night.

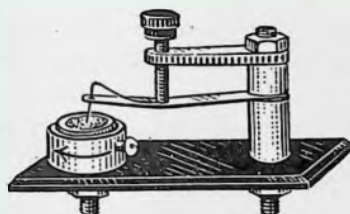
FRIDAY, FEBRUARY 13—

7:00 p. m.—Studio Program, courtesy Darrow Music Company, Denver. Orchestra selection—Rising Star (Bendrix), KOA Orchestra. Tenor solo—O Carlo Accolata (Verdi), Lewis E. Shrewsbury. Duet—The Rosary (Nevin), George Kerwin, bass; Frank Dinhaupt, tenor. Cornet solos—(a) Columbia Polka (Anon); (b) The Palms (Anon), Howard L. Warder. Tenor solos—(a) Lift Up Thine Eyes (Logan); (b) To Mary (Mark White), Llewellyn Jones; Joseph Howard, accompanist. Bass solo—The Horn (Fleiger), George Kerwin. Violin solo—Sonata No. 1 (Greig), Lewis Chernoff. Tenor solo—I Hear You Calling Me (Marshall), Robert H. Edwards. Bass solo—Rocked in the Cradle of the Deep (Knight), Frederick W. Carringer. Old Time Dance Music—(a) College Hornpipe; (b) Arkansas Traveler; (c) Turkey in the Straw; (d) Old Zip Coon, The Mountain Musicians: Dr. Edward Clayton, violin; Col. John F. Bixby, guitar; Elmer Clayton, piano; Chester Clayton, drums. Tenor solos—(a) Nina (Pergolesi); (b) Kashmiri Song (Finden), Lewis E. Shrewsbury; Orville Wasley, accompanist. Baritone solo—It's a Mighty Good World (O'Hara), C. W. Kettering. Violin solo—Selected, Lewis H. Chernoff. Male quartet—(a) Still, Still with Thee (Garrish); (b) Come Unto Me (Fleming), Temple Quartet; Robert H. Edwards, first tenor; Llewellyn Jones, second tenor; C. W. Kettering, baritone; Frederick W. Carringer, bass. Cornet solo—The Rosary (Nevin), Howard L. Warder. Male quartet—(a) Wanderer's Night (Lenz); (b) Artillerist Oath (Adams), Temple quartet. Orchestra selection—Spanish Dance (Sarasate), KOA Orchestra.

SATURDAY, FEBRUARY 14—

12:00 noon—N. Y. stock reports (closing quotations).
12:15 p. m.—Live stock reports (complete), Chicago, Omaha, Kansas City, Denver markets.
12:22 p. m.—Fruit and vegetable reports.
12:26 p. m.—Weather report.
8:00 to 12:00 p. m.—Dance music program by Joe Mann and his Rainbow-Lane orchestra, Shirley-Savoy hotel, Denver.

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SUNDAY, FEBRUARY 8—

5:00 p. m.—Chicago Sunday Evening Club services will be broadcast from Orchestra Hall Chicago. The musical program will be arranged by Edgar Nelson. The speaker of the evening will be Dr. Robert E. Speer, New York City.

MONDAY, FEBRUARY 9—

4:35 to 5:00 p. m.—Children's bedtime story told by Walter Wilson, who is known to the little ones as "Uncle Bob."

TUESDAY, FEBRUARY 10—

6:00 to 6:20 p. m.—Musical program: Mrs. Percy Cook, Scotch dialect songs; Roy Williamson, baritone; James Richard Keyes, evangelistic singer; Marie Wright, soprano.
6:20 to 6:45 p. m.—Speeches under the auspices of the American Farm Bureau Federation. Speakers will be announced by radiophone.
6:45 to 7:30 p. m.—Continuation of musical program.
8:00 to 9:30 p. m.—"Evening at Home" program will be broadcast from KYW's studio in Hearst Square. 8:30 p. m., Coon-Sanders Original Nighthawks playing in the Balloon Room of the Congress Hotel. 9:05 p. m., "Applesauce Club" conducted by Ransom Sherman, which club consists of reading the best contris received from KYW fans.

WEDNESDAY, FEBRUARY 11—

6:00 to 6:30 p. m.—Musical program: Hazel O'Neil, soprano; William Hoke, tenor; Carrol's Oriental Inn Orchestra.
6:30 to 6:45 p. m.—"Around the Town with KYW in Chicago" (stage reviews).
6:45 to 7:00 p. m.—Musical program continued.
7:05 p. m.—Talk on "Income Tax" by H. Archibald Harris.
7:15 p. m.—"Entertaining Plans" given by Vivette Gorman, Peoples Gas Company.
7:45 to 10:30 p. m.—Midnight revue. This is a Westinghouse-Chicago Evening American feature broadcast from KYW's studio in Hearst Square. Artists and detailed program will be announced by radiophone.

THURSDAY, FEBRUARY 12—

6:00 to 6:20 p. m.—"Twenty Minutes Good Reading," by Rev. C. J. Pernin, S.J., Head of Dept. of English, Loyola University, Chicago.
6:20 to 7:05 p. m.—Musical program: Caroline Encell, soprano; E. F. Miller, patriotic singer; Thomas B. Stephenson, tenor (requests).
7:15 p. m.—"Good Roads" report will be given by Mr. Bert Vanderwarf of the Chicago Motor Club.
8:00 to 9:30 p. m.—"Evening at Home" program will be broadcast from KYW's studio in Hearst Square. 8:15 and 9:05 p. m., Coon-Sanders Original Nighthawks will broadcast from the Balloon Room of the Congress Hotel.

FRIDAY, FEBRUARY 13—

5:00 to 5:30 p. m.—Dinner concert broadcast from the Congress Hotel: 5:00 p. m., Joska DeBabary's Orchestra, Louis XVI Room; 5:10 p. m., Coon-Sanders Original Nighthawks, Pompeian Room. 5:20 p. m., Joska DeBabary's Orchestra, Louis XVI Room.
6:00 p. m.—Speeches under the auspices of the American Farm Bureau Federation. Speakers will be announced by radiophone.
7:00 to 8:00 p. m.—Midnight revue.
9:00 to 10:30 p. m.—Midnight revue continued. This is a Westinghouse-Chicago Evening American feature broadcast from KYW's studio in Hearst Square. Artists and program will be announced by radio.

SATURDAY, FEBRUARY 14—

5:00 to 5:30 p. m.—Dinner concert broadcast from the Congress Hotel: 5:00 p. m., Joska DeBabary's Orchestra, Louis XVI Room; 5:10 p. m., Coon-Sanders Original Nighthawks, Pompeian Room; 5:20 p. m., Joska DeBabary's Orchestra, Louis XVI Room.
6:00 to 6:58 p. m.—Musical program: Fannie Schlesinger, soprano; Johnnie Hayes, baritone; Ned Santry, tenor.
7:05 p. m.—Talk under the auspices of the National Live Stock and Meat Board.
7:15 p. m.—Health talk from "Hygeia" by Dr. John N. Dodson.
7:35 to 9:30 p. m.—"Congress Classic" broadcast from KYW's studio in the Congress Hotel.
10:00 to 12:00 p. m.—"Congress Carnival" broadcast from KYW's studio in the Congress Hotel.

KTHS, The New Arlington Hotel--375 Meters

500 Watts. Class B. Hot Springs National Park, Arkansas

"KUM TO HOT SPRINGS"

(Time is Pacific Standard)

DAILY FEATURES—

10:30 to 11:15 a. m.—Markets, weather and orchestra music (except Friday and Sunday).

SUNDAY, FEBRUARY 8—

9:00 to 10:15 a. m.—Services of the Central Avenue Methodist Church.

6:30 to 8:00 p. m.—Sunday night De Luxe Concert by the ten-piece Meyer Davis-New Arlington Hotel orchestra; Jack Renard, director.

8:00 to 9:00 p. m.—Dance concert by Phil Baxter and his Singing Orchestra of the De Soto Springs Japanese Ball Room.

MONDAY, FEBRUARY 9—

6:30 to 8:00 p. m.—Concert by the Shrine Quartet, Little Rock; Miss Natalia Brigham, violinist; W. C. Brown, baritone, and Dr. O. H. King, baritone, of Hot Springs; Mrs. Means, soprano, Little Rock.

8:00 to 9:00 p. m.—Dance concert by Charles L. Fischer and his 11-piece Eastman Hotel Orchestra.

10:00 to 12:00 p. m.—Special Owl concert by the Meyer Davis-New Arlington Hotel Orchestra; Jack Renard, director.

TUESDAY, FEBRUARY 10—

6:30 to 8:00 p. m.—Concert selections and specialty numbers by Charles L. Fischer and his Eastman Hotel Orchestra.

WEDNESDAY, FEBRUARY 11—

6:30 to 8:00 p. m.—Concert by Messrs. Davis and McGill, vocalists of Little Rock in popular numbers, with assisting artists of Little Rock.

8:00 to 9:00 p. m.—Dance concert by Charles L. Fischer and his Eastman Hotel Orchestra.

THURSDAY, FEBRUARY 12—

6:30 to 8:00 p. m.—Concert by the Old Time Fiddlers of Prescott, Ark.

FRIDAY, FEBRUARY 13—

6:30 to 7:00 p. m.—Concert by Phil Wall, piano wizard, in popular offerings.

7:00 to 8:00 p. m.—Concert selections by the Meyer Davis-New Arlington Hotel Orchestra; Jack Renard, director.

SATURDAY, FEBRUARY 14—

6:30 to 8:00 p. m.—Concert by Charles L. Fischer and his Eastman Hotel Orchestra.

8:00 to 9:00 p. m.—Dance music by the Meyer Davis-New Arlington Hotel Orchestra; Jack Renard, director.

W F A A--Dallas News-Journal--472.9 Meters

(PACIFIC TIME) DALLAS, TEXAS
PROGRAM FOR THE WEEK

MONDAY, FEBRUARY 9—

10:30 to 11:00 a. m.—Address, Dr. J. D. Boon, astronomer, Southern Methodist University.

4:30 to 5:30 p. m.—Vesper recital by Paul Wellbaum and his orchestra.

6:30 to 7:30 p. m.—Mozart Choral Club recital, Earle D. Behrends directing.

TUESDAY, FEBRUARY 10—

10:30 to 11:00 a. m.—Health talk, Charles E. Osborne, physical director of the Young Men's Christian Association; music by association talent.

4:30 to 5:30 p. m.—Vesper recital by Paul Cretien and his banjo quintet.

6:30 to 7:30 p. m.—Chamber of Commerce, Tyler, Texas, in band and booster banquet.

9:00 to 10:00 p. m.—The Palace Theater's organ recital.

WEDNESDAY, FEBRUARY 11—

10:30 to 11:00 a. m.—Music by the Cornfield Symphony Orchestra. Station WFAA will be silent for the remainder of the day.

THURSDAY, FEBRUARY 12—

10:30 to 11:00 a. m.—Music by Edmund F. Boettcher, tenor; William H. McRaven, pianist; address, DeWitt McMurray, editor Semi-Weekly Farm News.

4:30 to 5:30 p. m.—Lone Star Five's Orchestra, vesper recital.

6:30 to 7:30 p. m.—Musical recital, Mrs. Otis P. Holt, singer; Hedley Cooper, violinist; William H. McRaven, pianist.

9:00 to 10:00 p. m.—Entertainers from Jefferson Theater.

FRIDAY, FEBRUARY 13—

10:30 to 11:00 a. m.—Address, Dr. Robert Stewart Hyer, president emeritus of Southern Methodist University, on the Sunday School lesson.

2:30 to 3:00 p. m.—Woman's hour.

4:30 to 5:30 p. m.—Vesper recital, Jack Gardner's Honey Boys Orchestra.

SATURDAY, FEBRUARY 14—

10:30 to 11:00 a. m.—Address, Epps G. Knight, business man and philosopher.

6:30 to 7:30 p. m.—Program by Methodist Orphanage, Waco, Texas.

9:00 to 10:00 p. m.—Recital by artists from Capitol Theater.

SUNDAY, FEBRUARY 15—

4:00 to 5:00 p. m.—Radio Bible Class, Dr. William M. Anderson, pastor First Presbyterian Church, teacher; Bible study and Gospel song.

5:30 to 6:30 p. m.—Service First Methodist Episcopal Church, South. Dr. Carl C. Gregory, pastor; Mrs. Robert H. Morton, soloist, director; Nell Lowrey, soloist; Belcanto Male Quartet.

7:30 to 9:00 p. m.—Jack Gardner and his orchestra in popular music.

W B A P—Fort Worth Star-Telegram—472.9 Meters

(PACIFIC TIME) FORT WORTH, TEXAS

(Class B Station)—1000 Watts—476 Meters

DAILY FEATURES—

8:00 a. m.—Opening market quotations.

9:00 a. m.—United States weather forecast. Livestock reports by Department of Agriculture leased wire. Cotton and grain quotations.

10:00 a. m.—Market quotations.

11:00 a. m.—Market quotations.

12:00 noon—Market quotations.

12:20 p. m.—Close on the cotton and grain markets. Fort Worth and Kansas City livestock markets by the Department of Agriculture leased wire.

2:00 p. m.—Special period "Port of Missing Men" and special Sheriff Association reports on missing men, stolen cars, etc.

SATURDAY, FEBRUARY 7—

11:00 a. m.—Bradstreet's financial reviews and R. G. Dun's business report.

5:00 p. m.—Review of the interdenominational Sunday School lesson by Mrs. W. F. Barnum.

SUNDAY, FEBRUARY 8—

9:00 a. m.—Complete services of St. Paul's M. E. Church, Rev. C. D. Meade, pastor; Mrs. F. L. Jaccard, organist.

2:00 p. m.—Concert from the Rialto Theater.

9:00 to 10:00 p. m.—Frolics by Ted Miller's Crazy Hotel Orchestra, playing in lobby of the Crazy Wells Hotel, Mineral Wells, Texas, broadcast by remote control.

MONDAY, FEBRUARY 9—

10:05 to 10:30 a. m.—Musical program.

5:30 to 6:30 p. m.—Dance music by Frensey Moore's Black and Gold Serenaders.

7:30 to 8:45 p. m.—The Green Dragon Dance Orchestra, under the direction of Mrs. Frank Boggeman.

10:00 to 11:00 p. m.—Popular dance music by Swayne's Southern Serenaders.

TUESDAY, FEBRUARY 10—

10:05 to 10:30 a. m.—Popular music by Montgomery Ward & Co.'s "Trail Blazers," broadcast from the Montgomery Ward studio.

5:30 to 6:30 p. m.—Program of Hawaiian music by the "Hawaiian Knights," under the direction of Frank Harding.

7:30 to 8:45 p. m.—Musical program by artists of the Baptist Seminary under the direction of Frank Cheek.

WEDNESDAY, FEBRUARY 11—

10:05 to 10:30 a. m.—Musical program.

5:30 to 6:30 p. m.—Capt. Bonner's Old Time Fiddlers.

7:30 to 8:45 p. m.—Dance program by Jim Riley's Texas Hotel Orchestra.

THURSDAY, FEBRUARY 12—

10:05 to 10:30 a. m.—Musical program.

5:30 to 6:30 p. m.—Musical program by artists of Thorpe Springs Christian College.

7:30 to 8:45 p. m.—Miss Elena Munster of Dallas, singing popular songs.

FRIDAY, FEBRUARY 13—

10:05 to 10:30 a. m.—Popular music by Montgomery Ward & Co.'s "Trail Blazers," broadcast from the Montgomery Ward studio.

2:00 p. m.—Educational lecture, Corn Planting and Production, C. C. French, Fort Worth Stockyards Company.

5:30 to 6:30 p. m.—"Dinner Music," by Jim Riley's Texas Hotel Orchestra, playing in the lobby of the Texas.

7:30 to 8:45 p. m.—Ralph's "Red Hot Ramblers," popular music.

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(Pacific Time)

DAILY EXCEPT SUNDAY—

- 12:00 noon—Weather forecast. Produce market report (except Saturday).
 12:30 p. m.—Hotel Statler, Concert Ensemble.
 6:00 to 7:30 p. m.—Tuesday, Thursday and Saturday, Hallpyrd String Quartet.
 6:30 p. m.—Monday, Wednesday, Friday, dinner music.
 7:30 p. m.—Digest of the day's news.
 9:00 to 11:00 p. m.—Monday, Wednesday and Friday, concert program (see below).
 11:00 p. m.—Monday, Wednesday, Friday, supper music, Vincent Lopez Orchestra.

SUNDAY, FEBRUARY 8—

- 12:00 noon—Vesper services, Rev. F. Homan, Central Park Methodist Church.
 1:00 p. m.—Organ recital—John F. Gunderman, Jr., organist.
 4:15 p. m.—Pre-service organ recital, direct from Central Presbyterian Church, W. Wall Whiddit, organist.
 4:30 p. m.—Evening service, R. J. MacAlpine, D.D., minister.

MONDAY, FEBRUARY 9—

- 7:45 a. m.—Gold Medal Home Service Talk by Betty Crocker.
 3:30 p. m.—Dinner music.
 5:00 to 6:00 p. m.—Musical program, courtesy Hotel Stuyvesant.
 6:00 to 7:00 p. m.—Wheat Ice Cream Company's hour.
 7:00 to 8:00 p. m.—Program, courtesy W. A. Winger of Ridgeway, Ont.

TUESDAY, FEBRUARY 10—

- 8:00 a. m.—Mrs. Katherine N. Britt, Manager Buffalo Home Bureau.
 3:00 to 4:30 p. m.—Hallpyrd String Quartet dinner music.
 5:30 to 6:00 p. m.—The Gold Dust Twins.
 6:00 to 7:00 p. m.—The Eveready Hour.
 7:00 to 8:00 p. m.—Goodrich Silvertown Cord Orchestra.

WEDNESDAY, FEBRUARY 11—

- 7:45 a. m.—Gold Medal Home Service Talk by Betty Crocker.
 3:30 p. m.—Dinner Music.
 5:00 to 5:15 p. m.—"Some Common Superstitions in Nature," by Dr. C. Cummings of Buffalo Society of Natural Sciences.
 5:15 to 5:55 p. m.—Recital by Ethol McMullen and friends.
 6:00 to 7:00 p. m.—Atwater Kent program.
 7:00 to 9:00 p. m.—Program by the Jackson Glee Club.

THURSDAY, FEBRUARY 12—

- 3:00 to 4:30 p. m.—Hallpyrd String Quartet dinner music.
 5:00 to 8:00 p. m.—Joint broadcasting with Station WEAF, New York City: 5:00 p. m., variety program; 6:00 p. m., Victor Hour; 7:00 p. m., Goodrich Silvertown Cord orchestra.

FRIDAY, FEBRUARY 13—

- 7:45 a. m.—Gold Medal Home Service Talk by Betty Crocker.
 3:30 p. m.—Buffalo Trust Hour.
 5:15 to 5:55 p. m.—Recital by Mrs. Agnes Luther Tullis and friends.
 6:00 to 7:00 p. m.—B. Fischer and Company's Astor Coffee Dance Orchestra.
 7:00 to 8:00 p. m.—Larkin Company String Orchestra, John Lund, conductor.

SATURDAY, FEBRUARY 14—

- 3:00 to 4:30 p. m.—Hallpyrd String Quartet dinner music.

FOR AUTO OR RADIO—In Rubber Container

6 Volt, 11 Plate.....	\$10.90	RADIO 48 Volt "B"
6 Volt, 13 Plate.....	13.90	Battery
6 Volt, 15 Plate.....	15.00	5000 M. A. Hrs. Capacity

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New stock, direct from factory

NEW YORK PACIFIC BATTERY CO.

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LOS ANGELES

TUBES

Your Old One Revived, Providing Filament Lights.....75c

SATISFACTION GUARANTEED—ALL KINDS OF REPAIR WORK

GRAND AVE. RADIO CO.

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A-1 WOODWORKING COMPANY RADIO PRODUCTS



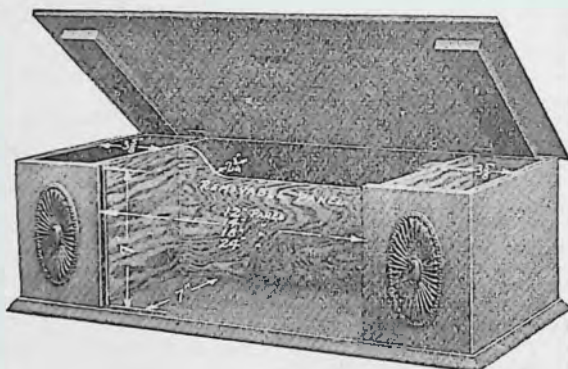
THE "A-1" RADIO TABLE

AN ideal piece of high-grade furniture for the owner of a table radio cabinet. No need to pull this table away from the wall to get at the equipment inside. Made of Philippine mahogany, top 15x36 inches. Price, unfinished, \$30.00; finished, \$35.00. Grill to fit behind one door, \$2.00 additional. Crating for shipment, \$2.00.

Cabinets for Gilfillan Neutrodyne.
9½x21x10¼
\$7.00 Unfinished \$10.00 Finished

THE "A-1" COMPARTMENT RADIO CABINET

A WELL designed cabinet for a self-contained Radio set, constructed of Philippine mahogany. Tops and bottoms moulded all around. Ample space for batteries and set. End compartments 4½x7½x10 in., and filler strip to fit above radio panel in the following sizes: 7x18, 7x21, 7x24 and 7x26. The 7x12 and 7x14 are the dimensions shown in cut.



Panel Size:	7x12	7x14	7x18	7x21	7x24	7x26
Price unfinished.....	\$6.25	\$6.50	\$ 7.00	\$ 7.25	\$ 7.50	\$ 8.00
Price finished.....	9.25	9.50	10.50	10.75	11.50	12.00

THE A-1 STANDARD RADIO CABINET

Prices on unfinished cabinets:



Panel Size	Deep	Price	Panel Size	Deep	Price
7x12	8	\$3.00	7x24	10	\$4.50
7x12	10	3.25	7x26	8	4.75
7x14	8	3.25	7x26	10	5.00
7x14	10	3.50	7x27	8	5.00
7x18	8	3.75	7x27	10	5.25
7x18	10	4.00	7x28	8	5.25
7x21	8	4.00	7x28	10	5.50
7x21	10	4.25	7x30	8	6.25
7x24	8	4.25	7x30	10	6.50

Hand Rubbed Finished \$2.00 Extra

A-1 Standard Radio Cabinets are constructed of Philippine mahogany thruout. The ends are grooved to slide panel in. Tops and bottoms moulded all around.

WHENEVER POSSIBLE CABINETS ARE SHIPPED BY EXPRESS

TERMS ON ALL CABINETS: CASH WITH ORDER

ALL PRICES NET F. O. B. LOS ANGELES

Special Cabinets Made to Order

When Ordering Cabinets Made to Order Allow Six Days for Finishing

A-1 WOODWORKING CO.

Atlantic 7823

1338-1342 San Julian St

Los Angeles, Cal.

Letters to the Editor

Harbor City, Cal.,

I have been receiving your magazine for the past two years and enjoy it very much, particularly letters to the Editor, Questions and Answers.

If I may express my opinion as a DX fan, and I believe that everyone who is really interested in radio is a DX fan, I would like to see a "Silent Night" for this district, not necessarily the whole evening, but say, one-half hour two or three times each week, which would give everyone a chance to get stations which may not be on the air every night.

With five powerful stations operating in Los Angeles, which are all giving wonderful programs (in fact, so far as programs are concerned, I would not want to go any further), the DX fan has very little chance for distance without interference, although I note that some claim they do; but I doubt if they can consistently.

I started with a Crystal set and know the limit of it and also how the shut-ins enjoy the programs, but do not think they will begrudge the DX fan, who has spent money and time in making his set that will reach out and get other places, and furthermore, it is from the experimenters that radio is being advanced.

Therefore, please put me on record as being in favor of at least a partial "Silent Night" occasionally, so that those who desire to experiment with their sets may do so, and at the same time, give those who do not desire to experiment, a chance to get the programs.

Complimenting you on your publication, and assuring you that I enjoy it,
I am,
WARREN O. PRESTON.

Wallace, Idaho.

Dear Sir:

On Monday or Tuesday evening, January 12th or 13th, of this week—I have forgotten the exact date—I received rather a freak reception from a broadcast being made by KFI, the Earle C. Anthony Company of Los Angeles, and the station of WOC, the Palmer School of Chiropractic, of Davenport, Iowa. I had been listening in on both of these stations at different times when I finally discovered that both stations were broadcasting dance music and the number being played was a fox-trot, "Doo Whacka Doo." At first I thought it was a rebroadcast, but discovered that the orchestras were different. The freak part of this was that both orchestras were playing the number in unison. This probably seems impossible for a listener-in to determine this, but being a musician and tuning in on KFI and getting the time, and by keeping it until I tuned in on WOC, which was a matter of but a split second, I finally discovered that they were in unison. I am writing this, thinking that it might be of interest to your readers.

Respectfully

A. F. COONRADT,

District Commercial Manager,
The Interstate Utilities Company,



ON ONE TUBE

BIG FREE BOOKLET tells the story. Calif. users of CROSS COUNTRY CIRCUIT hear Atlantic Coast, Canada, Mexico, Cuba and Hawaii. Our new plan makes this set easiest and cheapest to build. One hour puts in operation. One tuning control. No soldering. Any novice can do it. BOOKLET FREE or complete instructions 25c.

WHAT USERS SAY

EAST—Am more than pleased with the parts ordered from you. The first night I hooked it up and received Omaha. Since then Minneapolis and Los Angeles. It works better without amplification than most sets with two stages. —Donalds, S. C.

WEST—I am sending you a list of some of the stations heard on one tube: WSB, WGY, KDKA every night; PWX, WWJ, WTAM, WLW every night; CFAC, CHCB. Not long ago I purchased another set of parts from you and first night got WGR, Buffalo, and KDKA. —Tone, Calif.

NORTH—Received coils O.K. today. If I have same results with these that I had with last will be wanting more. I am 1,500 miles from nearest station and have picked 56 to date. Chicago, Havant, Mobile, New Orleans and TWO in ENGLAND. —Lancaster, Canada.

SEND FOR FREE BOOKLET

VESCO RADIO CO.

BOX RD-117

OAKLAND, CALIF.



ESTABLISHED 1905

NATIONAL AUTOMOTIVE & ELECTRICAL SCHOOL

PHONE AKRIDGE 9081
FIGUEROA AT SANTA BARBARA

LOS ANGELES

November 20th, 1924.

Mr. H. C. Charles, Editor,
Radio Doings,
Los Angeles.

Dear Mr. Charles:-

Every once in a Blue Moon, an advertiser will find a periodical in which advertising will more than pay for itself.

I believe Radio Doings is just such a magazine. The last two full page advertisements we run in your magazine brought in exactly \$1600.00 business, at an advertising expense of approximately 3%.

This is remarkable when one considers that we consider ourselves lucky to secure enrollments at an advertising expense of even 15%.

Count me as a booster for Radio Doings. I am sure that inside of another year you will achieve a circulation of not less than 100,000.

Sincerely yours

H. C. Jones
Advertising Manager

NATIONAL AUTOMOTIVE & ELECTRICAL SCHOOL.

MMY/P

Move to Bring Radio Bill Up Again

There is a possibility that the White Radio Bill and the Howell "Free Ether" Bill may be combined and acted upon by Congress this session. Sen. Howell appeared before the House Merchant Marine Committee recently and suggested that the original White Bill, then on the House Calendar, be recommitment and that his bill, which has passed the Senate, be considered in connection with it. The White Bill was recommitment, and referred to the sub-committee on radio laws of the House Merchant Marine Committee, of which Mr. White is chairman. In an effort to secure suitable and timely legislation before Congress adjourns on March 4th, it is possible that these bills may be combined.

Whether Secretary Hoover's plea for a very simple bill, giving his specific authority for administration of matters radio, will be seriously considered is not known. The sub-committee is expected to meet this week.

?? ??

QUESTION—Would you tell me what hours are allowed amateur stations. We are troubled with an amateur transmitter next door, and get very little good out of our radio. Who shall we report the interference to if he continues to use his station at any and all hours?

J. F. ROPP, Long Beach, Calif.

ANSWER—The amateur is required to remain silent from 8 p. m. to 10:30 p. m. every night and during religious broadcasts on Sunday. Interference during these hours should be reported, with name and address and call letters of offender to the Supervisor of Radio, Customhouse, San Francisco.

QUESTION—My electrical man, in wiring up my set, put in a wall outlet for the antenna and ground, and I plug in a jack from the set to make connection. This has apparently destroyed selectivity. My lead is 35 feet long and the antenna is 50 feet. The ground wire is 22 feet. Is he wrong?

J. H. TUMBACH, Pasadena, Calif.

ANSWER—It is a poor policy to parallel the antenna and ground wires, even for a short distance—as the result is the same as though you connected a condenser across antenna and ground, and would serve to make your set less selective. If that 35-foot lead and the 22-foot ground wire are close together inside the wall and run parallel for even a short distance, and if your antenna and ground leads to the jack and also run together, side by side, as they probably do, there you have the reasons for the loss of selectivity. It would be advisable to have two wall plates, one for the ground, near the floor, and another for the antenna, some distance away from the ground connection, and keep the two apart both inside the wall, and from the outlets to the set.

—NUTS—

THE LAST THING EATEN WITH A GOOD MEAL

DE HOOG BROS.

HAVE THE LAST THING IN

RADIO

6215 Moneta Ave.—
LOS ANGELES

—“WE HAVE IT”

? ? ? ? ?

QUESTION—What is the difference between Class A, B and C broadcast stations? Why is my set so sensitive on rainy nights? I have a two-tube regenerative set, water pipe ground and a V-shaped antenna 90 or 100 feet long. It is about 100 feet high at the east and 20 feet high at the west end. I can get Fort Worth, Seattle, Calgary, Denver and, I believe, I once got Honolulu. Are my results O. K.?

GARDNER MILLER, Berkeley, Calif.

ANSWER—The Class C station has been eliminated, there now being but two classes. The Class B stations are on wave lengths above 280 meters, use power of 500 watts and up, must have properly arranged studios, certain standards of quality of transmission, no harmonics, no mechanical music, etc. The Class A stations are under 280 meters, may be of any power under 500 watts, and the requirements as to quality, programs, etc., are less exacting. There are many stations of the highest type operating on Class A license under 280 meters, however, for the reason that the Class B wave lengths are all assigned, and further applicants for wave lengths in that classification are greeted by the Department of Commerce with that popular (?) ditty, "Yes, we have no wave lengths." You are getting good results for a two-tube set in your locality. Usually rainy weather helps radio reception, although it is not a general rule, as rain is sometimes accompanied by a form of static.

QUESTION—I am making a request for information. I have a five-tube Atwater Kent radio outfit, equipped with an antenna at an elevation of 40 feet, about 15 feet above the ridge of my house, and about 5 feet above any power or light wires and any buildings within a quarter of a mile. I can quite satisfactorily bring in stations this side of the Mississippi River, from Chicago to Mexico City, but do not have any satisfaction getting greater distance than that. Would the elevation of the antenna an additional 10 feet be likely to increase the efficiency of the outfit enough to justify? The antenna is 50 feet long, 30 feet paralleling the ridge and dropping down 20 feet from one end to the lead-in wires, a total length of about 85 feet. Would the efficiency or selectivity of the machine be increased by the lead-in wire being run to the center of the antenna rather than from the end? The writer has no desire to experiment unnecessarily, and if it is believed possible to materially increase the efficiency of the machine by either one or both of the changes suggested, would desire to do so.

S. C. HALL, Los Angeles, Calif.

ANSWER—We do not believe that either of the suggested changes would materially increase the efficiency, at any rate, not enough to warrant the trouble. If your antenna is now above all surrounding obstacles, the proposed ten-foot increase would not give greatly increased range, and it would not be advisable to connect the lead to the center of your antenna, since the antenna is not symmetrical, and the result would be an unbalanced condition. You see, the lead must be connected to the electrical center, which is, of course, the physical center when the antenna is at uniform height and otherwise symmetrical. In your case, where a portion of the antenna slopes down from the center, it would require some experimental measurements to determine the point where the lead should be attached to avoid having two distinct natural periods of oscillation. The advantage of a T antenna would be increased selectivity, but otherwise no gain.

GOSILCO AERIAL WIRE

Nickel, Silver and Gold Plated Over Heavy Copper

Most Efficient Aerial Yet Invented—Unaffected by Outside Exposure

Pure Silver, the best conductor of Radio Waves, is protected from tarnishing by plate of Pure Gold. Exhaustive tests have proven Gosilco far superior to all other types of aerial wire which have but a comparatively short life for Radio efficiency. It cuts down antenna resistance and brings in those DX stations. Makes ideal hook-up wire.

\$3.00 for 100 Feet by Mail, C. O. D.

AMERICAN LUMINOUS PRODUCTS CO., Sole Manufacturers

Patent rights claimed

320 Marbrisa Ave., Huntington Park, Calif.

?? ??

QUESTION—A few lines to tell you we surely like the little red Radio Doings. We live up in the land of deep snows, some 3 to 4 feet now everywhere. We hear the world and its doings nightly on either Radiola Grand or Super. Using both together, we can bring in all the stations in the United States using more than 1000 watts in the daytime, when conditions are good, on the loud speaker. I simply tune in on the Grand with the headset and reduce below the oscillation point, then tune the Super on its loop, with the result that the speaker is loud enough to hear anywhere in the house. I do not understand this exactly, although I have given radio considerable study. Will a large loop, built in the attic of a bungalow and with leads 7 feet long to the super, give stronger signals than an outside antenna tuned and coupled to the super inductively?

L. J. NIENDORF, Drummond, Idaho.

ANSWER—You are located in an almost ideal location for radio reception and your daytime results are certainly unusual. The action which takes place when you use both sets is the same as is obtained with the "booster." When you tune the Grand with its outside antenna, you have more energy from the distant broadcaster in its antenna circuit than the loop of the super is capable of picking up. The two sets are obviously in inductive relation to each other and the loop of the super receives energy from the antenna circuit of the Grand in exactly the same manner as coupling any other tuned antenna circuit to it. You can obtain the same effect by tuning an outside antenna by means of a variable condenser and coil, and coupling the coil loosely to the super's loop. An arrangement of this nature will probably give stronger signals and greater range than any loop you might construct, but also more static and general interference and noise.

QUESTION—Will you please give me information regarding the following subject: Has any method been found or discovered and perfected whereby

TROUBLE?

Are you using Enamel Wire in your Roberts set or coils of superior make?

Owing to the great demand for expert advice on the Roberts Circuit we now have a special department prepared to give you expert advice or rewire your set.

Fone or bring your set over—open evenings until 9 p. m.

* * *

World's Record Coils Co.

Manufacturers

Fone San Pedro 1525W

SAN PEDRO, CALIF.

464 6th St.

Clearance Sale

Of Discontinued Lines One Week Only

The very wonderful buys listed below constitute strictly high grade merchandise the handling of which we are forced to discontinue due to duplication of stocks.

LOUD SPEAKERS

	Regular Price	Special Price
Stromberg Carlson.....	\$25.00	\$14.25
Mercury Horns.....	8.50	4.75
Large Horn, Baldwin Unit.....	18.00	9.25

RECEIVING SETS

	Regular Price	Special Price
Sleeper Monotrol (New Model).....	\$130.00	\$85.00
Monodyne, 1 tube set.....	10.00	5.25
Monodyne, 1 tube amplifier.....	8.50	4.75

KNOCK DOWN KITS

	Regular Price	Special Price
Workrite Neutrodyne.....	\$25.00	\$14.50
Workrite Neutrodyne.....	70.00	39.50

RHEOSTATS

	Regular Price	Special Price
Large assortment 30 ohm.....		\$.35

CONDENSERS

	Regular Price	Special Price
Cardwell, 43 plate.....	\$ 6.00	\$ 3.75
Special, 43 plate.....	2.50	1.10
R. C., 43 plate.....	2.50	1.10
R. C., 11 plate.....	1.50	.80
Teleradio, 43 plate.....	3.00	1.85
Teleradio, 11 plate.....	1.50	.95

TUBES

	Regular Price	Special Price
Sodium Detectors.....	\$ 4.50	\$ 1.50
A-P* Detectors.....	4.50	1.50
French Tubes Det. and Amp.....	4.50	1.50

TUBING

	Regular Price	Special Price
Cardboard Tubing, 3 x3 in.....	\$.10	\$.03
Cardboard Tubing, 3 x8 in.....	.15	.05
Cardboard Tubing, 3½x8 in.....	.15	.05
Cardboard Tubing, 4 x8 in.....	.20	.07

RADIO SUPPLY COMPANY

920 South Broadway, Los Angeles

Open Evenings Until 9 P. M.

Sundays Until Noon

? ? ? ?

batteries may be eliminated entirely, and the ordinary house lamp socket made to supply their place? I notice some radio men claim this can be done, others claiming to be able to use the doorbell attachment, stating by so doing we accomplish much, eliminating further battery expense and at the same time gaining efficiency.

PHILIP DYMENT, M. D., Pasadena, Calif.

ANSWER—There are many devices on the market intended to supply filament or plate voltage, or both, from the house lighting circuit, thereby eliminating the A or B battery, or both. We will say at the start that these devices cannot give higher efficiency than batteries, their sole advantage being that of economy. Battery operation is ideal, anything else may more or less approximate battery operation, but cannot equal or exceed it. Some of these devices will give perfect satisfaction under certain conditions, however, and the fan who desires to eliminate the expense and bother of batteries, would do well to investigate. We would suggest that before purchasing, however, it is strictly understood that should the device fail to give satisfaction that it may be returned and money refunded. This is because your particular home has radio conditions of its own, which may be entirely different from that of a neighbor, or that of the dealer's store,—and it is in your home that you want satisfaction. You appreciate the fact that a battery gives a real direct current, graphically represented by a straight line, and that any attempt to rectify and filter an alternating current, may approximate the straight line, but never equal or exceed it. In broadcast stations, where the generators produce what is called a direct current, although the current is always in the same direction and does not alternate, the commutation of the generators results in a pulsating or uneven current. Elaborate filter systems are then necessary to iron out the wrinkles and endeavor to approximate a straight line current. But even then, the result is not the equal of battery operation.

NEW WESTINGHOUSE SUPER "B" BATTERY

Type 24-RG-2
3500 M. A. H.

Every necessary feature to make for convenience of operation and reliability in service has been foreseen and provided for.

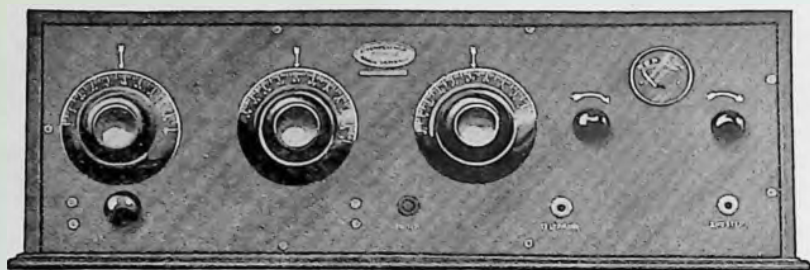
Harry W. Harrison Inc.

Distributor

848 So. Flower St., Los Angeles

BRoadway 5824

Ask your Radio Dealer or any Westinghouse Service Station.



\$50⁰⁰ 5 Tube Set

SPECIFICATIONS

Five-Tube Self-Neutralizing Radio Frequency Receiver, Low Loss Condensers, Ford Mica Supertran Transformers, Saturn Jacks, Alden Dials and Sockets, Voltmeter. Cabinet finished in Antique Mahogany or Walnut. Size 8x24. All wiring concealed beneath base panel.

We Have Received More Than 100 Unsolicited Letters from "Claratone" Owners Who Have Received Europe During Trans-Atlantic Tests

SOMERSET SETS in Stock

*Exclusive Distributors
Southern California*

GET OUR PRICE LIST

Lincoln  Radio Co.

Los Angeles, Calif.

Wholesale Only
FAber 0665

1151 Santee St.

Trade Notes

The Federal appropriation for the Radio Service of the Department of Commerce is only \$149,000. This amount has to take care of all the radio inspectors and deputies, office force in the United States. The General Electric Company appropriate \$175,000 for the maintenance of KGO alone. There are only twenty-nine Federal radio inspectors and thirty clerks employed by the Government in the Radio Service Division. This is quite a contrast and we hope that the proper officials at Washington will recommend a reasonable amount in the future.

Mr. Perry Ogden of the Kodel Manufacturing Co. and Automatic Electrical Devices Co. of Cincinnati, Ohio, is visiting Bertram Smith and Jim Colford, the Pacific Coast representatives of these companies at Los Angeles. Mr. Ogden will visit San Francisco after leaving Los Angeles.

A robbery was committed from the Los Angeles store of Leo J. Meyberg Co., wholesale radio jobbers, 1026 Wall street, on Sunday, January 25. The equipment stolen consists of 9 Radiolas, 111s; 8 Radiolas, 111As; 2964 tubes, Type C-299, C-301, UV-200 and UV-201-A. The value of this material is \$3152.40. If any strangers offer this class of material to radio dealers, please notify the police department. Leo J. Meyberg Co., or Radio Doings.

W. E. Downey, for several years Supervisor of Radio of the Department of Commerce, has just been appointed Technical Radio Expert of the Bureau of Navigation. He will also serve as Secretary of the Government's Interdepartment Radio Advisory Committee, succeeding L. E. Whittemore, resigned. Mr. Downey will probably be relieved of some administrative duties as assistant to W. D. Terrell, Chief Supervisor of Radio. He will handle the technical problems coming before the department and also those involving interdepartmental consideration.

Robt. Earle, radio inspector at Chicago, will be called into headquarters at Washington to assist in administrative work.

The Premier Manufacturing Company of Detroit has purchased the Detroit Battery Charger Co. of the same city and will operate it under that name as a division of the Premier Manufacturing Co.

The Yale Corporation, 1517 North Wilton Place, Hollywood, has been appointed distributors for the Pacific Coast for the Schicklerling tubes.

The Radio Corporation of America purchased the Naval radio station at Galveston, Tex., for \$3000 and will take it over on February 1.

The Pacific coast representative of Herbert H. Frost, Inc., reports the receipt of another carload of Musette loud speakers. This is the second received in two weeks.

Please take note of our new telephone number, TUCKER 8468.

STAR ENGRAVING COMPANY
223 EAST FOURTH ST. LOS ANGELES
872-969 TELEPHONE 872-969
"Your Story in Picture Leaves Nothing Untold"

"Out of the Air"

KFQQ, the station of the Southern California Radio Association, made its bow to radioland the past week. This station has been constructed entirely by the members and they should be congratulated on their work. The association is for the benefit of radio amateurs and all those interested in radio. They have done much to help radio and have been of great help in assisting the radio inspector for this district by providing "radio cops" who investigate complaints of interference and keep the air clear. The officers of the association are: A. L. Blodgett, president; J. H. Denny, first vice-president; W. E. Demming, second vice-president; L. Elden Smith, secretary, and W. S. Wiggins, treasurer. The new station is located in the Armory, Exposition Park, Los Angeles; they broadcast on 226 meters and are a 100-watt station. Their schedule for the present is Mondays, Thursdays and Saturdays from 7 to 8 p. m.

Plans for the broadcasting of President Coolidge's inaugural address on March 4 indicate that more than thirty broadcasting stations will be hooked up. The A. T. & T. regular telephone line connections will include more than the 28 stations which carried President Coolidge's acceptance speech, while the Radio Corporation and the Westinghouse Co. are planning to transmit from at least three stations. No list of participating stations is yet available. The whole country will be covered, it is believed.

Browning Brothers Co., Ogden, Utah, are constructing a 500-watt station in their own building. The work is being done by Mr. L. J. Haight, one of the most experienced radio men in the west and he is being assisted by Mr. H. M. Mailander, at one time connected with KFI and recently announcer at KBYL, Salt Lake City, who will also be the announcer for the station. A fine studio is practically completed and the antenna will be 104 feet high. High-class programs will be broadcast and if they prove a success, application will be made for a Class B license.

G. A. De Witt, the original "Uncle Bob" and publicity man for KYW, Chicago, is now located in Los Angeles.

While about 1600 miles east of New York, the S. S. Leviathan recently transmitted radio communications to the S. S. President Lincoln, which was approximately 1350 miles west of San Francisco. The distance between these ships was approximately 6000 miles, of which about 3000 miles was over land. The Leviathan used a 6-KW tube set and transmitted on 2400 meters.

A new 500-watt broadcasting station in New Orleans is expected to go on the air about February 15. The station will be controlled by the Saenger Co. and the Maison Blanche. The Item and Tribune will co-operate in broadcasting according to reports.

Travelers on trains on one of the railways in France are to be notified of the next stop by means of loud speakers.

Please take note of our new telephone number, TUCKER 8468.

PREST & DEAN RADIO ELECTRIC CO

KENNEDY

The Royalty



of Radio

742 E. FOURTH ST.

LONG BEACH, CALIF.

Phone 635-213



Better Local Reception

—plus power for distance

Even though you are content with listening to local programs and rarely want to go adventuring for distant stations, Freed-Eisemann is the set you should have. For three reasons—

1. It makes a beautiful appearance in your home.
2. It is highly selective.
3. Its tone quality is the clearest, most realistic yet attained in radio.

And when you do want distance, you have in this receiver plenty of reserve power, with the same superior tone quality and selectivity.

This will be quickly demonstrated by any of our dealers. Phone or write us for their name or address.

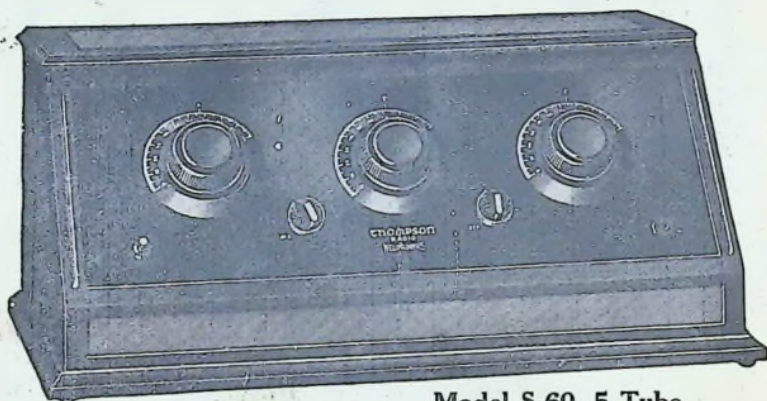
The **Braun Corporation**

363 New High St.

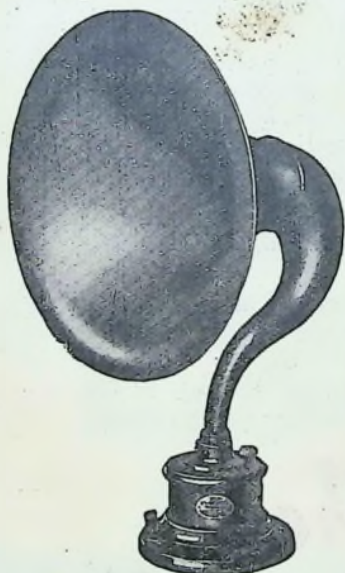
Wholesalers Only

TRinity 6031

A GOOD RADIO COMBINATION
THOMPSON NEUTRODYNE
and **THOMPSON SPEAKER**



Model S-60, 5 Tube
Price \$150.00
(Less Accessories)



**THOMPSON
SPEAKER**
\$30.00

*Your Dealer Will Be Glad
to Demonstrate*

WHOLESALE DISTRIBUTORS
YALE RADIO ELECTRIC CO.
ELEVEN-ELEVEN WALL ST.
Los Angeles, Calif.