

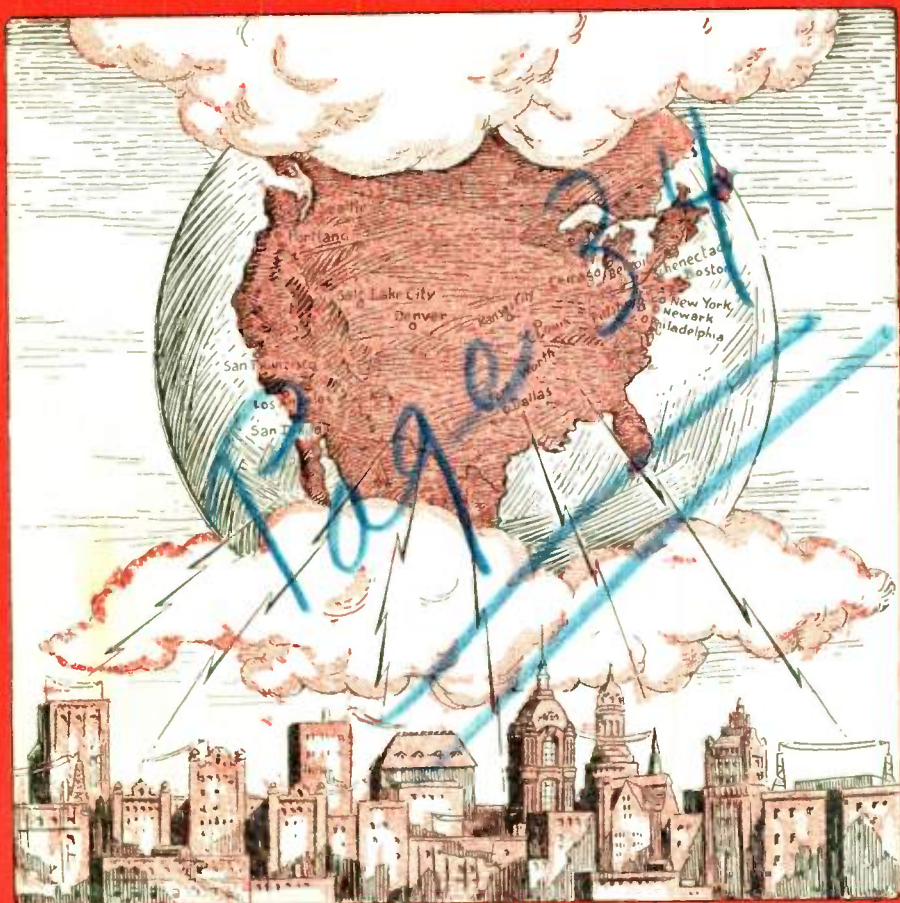
VOL. II

APRIL 8-14

No. 13

# RADIO DOINGS

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



\$2.00 A YEAR

5 CENTS A COPY

The Electric Lighting Supply Co.



Dubilier Fixed  
Condensers—the  
Best and Clearest  
Mica Condensers  
Obtainable

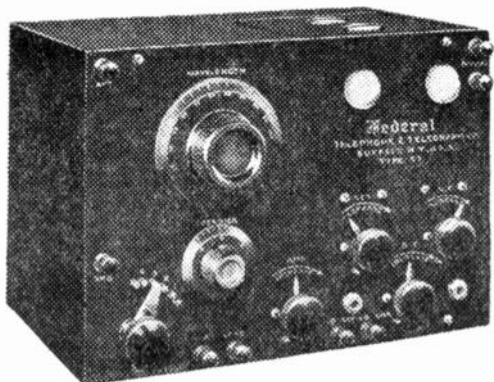
# STANDARD EQUIPMENT

for every set

**NO OUTSIDE AERIAL  
NO LOOP**

Plug In Your Lamp Socket and Listen In

**\$1.50**



**Type 57  
F E D E R A L**

The World's  
Standard For  
Comparison

**\$98.00**

**The Radio Concert Equipment Co.**

**824-353**

Wholesale Only

**LOS ANGELES**

# FEDERAL R. F. SETS

*"The Talk of the Town"*



**"Number 57"**

**Set Only \$98.00**

**Set Complete  
Installed, \$192.00**

~~~~~  
DEALERS—We are pioneer jobbers in Southern California for these sets and all Federal parts. Prompt shipments. Our service is as good as the sets we sell. We carry a large Los Angeles stock.

**'Number 58 DX'**

**Set Only \$116.00**

**Set Complete  
Installed \$210.00**

*Immediate Delivery—  
Either Type*



**Electric Lighting Supply Co.**

**Phone Main 1429**

**216 West Third Street, Los Angeles**

**Operating KNX on the California Theatre**

FOR RADIO SERVICE

## EDISON STORAGE BATTERIES

WILL LAST ALMOST INDEFINITELY

The Famous Nickel-Iron Battery in Pressed Steel Cases

| Type | Capacity  | Price New | Special Price<br>(Used) |
|------|-----------|-----------|-------------------------|
| A-6  | 225 A. H. | 147.50    | 25.00                   |
| A-8  | 300 A. H. | 190.00    | 40.00                   |

Prices given above are for batteries of five cells each and are F. O. B. our service station. New batteries are F. O. B. Orange, New Jersey

*The available supply of these cells is limited*

### J. JEROME CANAVAN

PACIFIC COAST DISTRIBUTOR  
WALKER ELECTRIC TRUCKS

401 WELLS FARGO BLDG.  
Phone Douglas 2336  
SAN FRANCISCO, CALIF.  
Ask for Mr. Vaile

619 CHAPMAN BLDG.  
Phone Pico 3570 or 63-972  
LOS ANGELES, CALIF.  
Ask for Mr. Douglass

# Enter Our Big Radio Contest

To stimulate homebuilt radio sets, we have decided to offer valuable radio prizes to those who can show that they can build good radio sets. There are no strings to our offer. Details on application.





# Radio Doings

Five Cents a Copy

**H. C. CHARLES, Editor**

Two Dollars a Year

**I. T. PERDUN, Business Manager****HALL BERRINGER, Technical Editor****308 VAN NUYS BUILDING****Los Angeles****Phone 673-48**

(Entered as second-class matter November 25, 1922, Los Angeles, California, Post Office, Under Act of March 3, 1879)

*Official Program of Allied Musical Interests and Civic and Professional Interests Supporting Radio Central Station of Earle C. Anthony, Los Angeles*

**Copyright by H. A. Horwood, 1923****Vol. II****Los Angeles, April 8, 1923****No. 13**

There has been a growing tendency lately to lower the moral calibre of radio dealers. We have noticed that most newcomers in radio demand that the set that they purchase be capable of hearing stations many hundred miles away. We all know that most sets can do this occasionally, but it is a considerable tax upon the honesty of a dealer to frankly tell his prospective customer that the set will not do it every night, especially when he feels that other dealers might not hesitate to make promises that cannot be fulfilled.

We suppose that, while human nature is as it is, there is no real solution, but it would certainly be better for radio and for every radio dealer if the public was disabused of the idea that the industry had reached a point of perfection where a listener could pick up any station any night and hear it as clear as a bell. Radio is a wonderful thing and is getting more perfect all the time and it is a pity to spoil it by needless exaggeration.

There are some dealers who frankly tell customers the truth, and we have noticed that they are the dealers who are doing the most business and are showing the most consistent gains.

## MAIL THIS COUPON NOW

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.

**RADIO DOINGS, 308 Van Nuys Building, Los Angeles, California:**

Inclosed find two dollars for a one-year subscription to RADIO DOINGS, to be sent to

Name \_\_\_\_\_

Address \_\_\_\_\_

6-8 A. M.  
PACIFIC TIME

## RADIO TIME TABLE

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

| NAME OF STATION    | CITY        | CALL    | MON.      |           | TUES.     |           | WED.      |           | THUR.     |           | FRI.      |           | SAT.      |           | SUN.      |           |
|--------------------|-------------|---------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|                    |             |         | 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 |
| City Dye Works     | Los Angeles | K U S   | A         |           | A         |           | A         |           | A         |           | A         |           | A         |           | A         |           |
| Reynolds Radio Co. | Denver      | K L Z   |           | A         |           | A         |           | A         |           | A         |           | A         |           | A         |           | A         |
| Star-Telegram      | Fort Worth  | W B A P |           | C         |           | C         |           | C         |           | C         |           | C         |           | C         |           | C         |

8-10 A. M.  
PACIFIC TIME

## RADIO TIME TABLE

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

| NAME OF STATION    | CITY          | CALL    | MON.      |           | TUES.     |           | WED.      |           | THUR.     |           | FRI.      |           | SAT.      |           | SUN.      |           |
|--------------------|---------------|---------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|                    |               |         | 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 |
| S. F. Examiner     | San Francisco | K U O   |           | C A       |           | C A       |           | C A       |           | C A       |           | C A       |           | C A       |           | C A       |
| Reynolds Radio Co. | Denver        | K L Z   |           | C C       |           | C C       |           | C C       |           | C C       |           | C C       |           | C C       |           | C C       |
| Star-Telegram      | Fort Worth    | W B A P |           | C C       |           | C C       |           | C C       |           | C C       |           | C C       |           | C C       |           | C C       |
| News and Journal   | Dallas        | W F A A | C B       | C         | C B       | C         | C B       | C         | C B       | C         | C B       | C         | C B       | C         | C B       | C         |
| Palmer School      | Davenport     | W O C   |           | C         |           | C         |           | C         |           | C         |           | C         |           | C         |           | C         |
| John Wanamaker     | Philadelphia  | W O O   | B         |           | B         |           | B         |           | B         |           | B         |           | B         |           | B         |           |

10-12 A. M.  
PACIFIC TIME

## RADIO TIME TABLE

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

| NAME OF STATION         | CITY          | CALL      | MON.        |             | TUES.       |             | WED.        |             | THUR.       |             | FRI.        |             | SAT.        |             | SUN.        |             |
|-------------------------|---------------|-----------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
|                         |               |           | 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. Union Stock Yards | Los Angeles   | K F C L   | C           |             | C           |             | C           |             | C           |             | C           |             | C           |             | C           |             |
| Bible Institute         | "             | K J S     |             |             |             |             |             |             |             |             |             |             | A           |             |             | A           |
| L. A. Times             | "             | K H J     |             |             |             |             |             |             |             |             |             |             |             |             | A           |             |
| Earle C. Anthony        | "             | K F I     |             |             |             |             |             |             |             |             |             |             |             |             | A           |             |
| City Dye Works          | "             | K U S     |             | A A         |             |             |             |             |             |             |             |             |             |             | A A         |             |
| Hale Brothers           | San Francisco | K P O     |             |             |             |             |             |             |             |             |             |             |             |             |             | B B         |
| Tribune                 | Oakland       | K L X     |             |             |             |             |             |             |             |             |             |             |             |             | A A         |             |
| Warner Brothers         | "             | K L S     |             |             | A           |             |             | A           |             | A           |             | A           |             | A A         |             |             |
| Gould                   | Stockton      | K J Q     |             |             |             |             |             |             |             |             |             |             |             | A A         |             |             |
| Guy Greason             | Tacoma        | K F D J E | A A         |             | A A         |             | A A         |             |             |             | A A         |             | A A         |             |             |             |
| Rhodes Co.              | Seattle       | K D Z E   |             |             |             |             |             |             | A           |             | A A         |             | A A         |             |             |             |
| First Presby. Church    | "             | K T W     |             |             |             |             |             |             |             |             |             |             |             |             |             | A A         |
| Meier & Frank           | Portland      | K F E C   |             |             |             |             |             |             |             |             |             |             | A A         |             |             |             |
| Reynolds Radio Co.      | Denver        | K L Z     |             | C           |             | C           |             | C           |             | C           |             | C           |             | C           |             |             |
| News and Journal        | Dallas        | W F A A   | B           | B           | B           | B           | B           | B           | B           | B           | B           | B           | B           | B           |             |             |
| Palmer School           | Davenport     | W O C     |             |             |             |             |             |             |             |             |             |             |             |             |             |             |

The capital letter A means that the station indicated is broadcasting on 360 meters, B 400 meters and C 485. Stations printed in bold face type means that detailed program appears on another page. The oblique line before or after a letter means that the station is on the air during only part of the period indicated.

12-2 P. M.  
PACIFIC TIME**RADIO TIME TABLE**1- 3 Mountain Time  
2- 4 Central Time  
3- 5 Eastern Time

| NAME OF STATION              | CITY               | CALL    | MON.        |            |           | TUES.       |            |           | WED.        |            |           | THUR.       |            |           | FRI.        |            |           | SAT.        |            |           | SUN.        |            |           |
|------------------------------|--------------------|---------|-------------|------------|-----------|-------------|------------|-----------|-------------|------------|-----------|-------------|------------|-----------|-------------|------------|-----------|-------------|------------|-----------|-------------|------------|-----------|
|                              |                    |         | 12:00-12:30 | 12:30-1:00 | 1:00-1:30 | 12:00-12:30 | 12:30-1:00 | 1:00-1:30 | 12:00-12:30 | 12:30-1:00 | 1:00-1:30 | 12:00-12:30 | 12:30-1:00 | 1:00-1:30 | 12:00-12:30 | 12:30-1:00 | 1:00-1:30 | 12:00-12:30 | 12:30-1:00 | 1:00-1:30 | 12:00-12:30 | 12:30-1:00 | 1:00-1:30 |
| CITY DYE WORKS.....          | Los Angeles.....   | K U S   | A           | .          | .         | A           | .          | .         | A           | .          | .         | A           | .          | .         | A           | .          | .         | A           | .          | .         | A           | .          | .         |
| BIBLE INSTITUTE.....         | "                  | K J S   | .           | .          | .         | .           | .          | .         | .           | .          | .         | .           | .          | .         | .           | .          | .         | .           | .          | .         | .           | .          | .         |
| L. A. Union Stock Yards..... | "                  | K F C L | C           | .          | .         | C           | .          | .         | C           | .          | .         | C           | .          | .         | C           | .          | .         | C           | .          | .         | C           | .          | .         |
| L. A. TIMES.....             | "                  | K H J   | .           | B          | /         | .           | B          | /         | .           | B          | /         | .           | B          | /         | .           | B          | /         | .           | B          | /         | .           | B          | /         |
| L. A. EXAMINER.....          | "                  | K W H   | .           | C          | .         | .           | C          | .         | .           | C          | .         | .           | C          | .         | .           | C          | .         | .           | C          | .         | .           | C          | .         |
| WARNER BROTHERS.....         | San Francisco..... | K L S   | A           | A          | .         | A           | A          | .         | A           | A          | .         | A           | A          | .         | A           | A          | .         | A           | A          | .         | A           | A          | .         |
| HALE BROTHERS.....           | "                  | K P O   | .           | B          | .         | .           | B          | .         | .           | B          | .         | .           | B          | .         | .           | B          | .         | .           | B          | .         | .           | B          | .         |
| L. J. Meyberg.....           | "                  | K D N   | .           | A          | A         | .           | A          | A         | .           | A          | A         | .           | A          | A         | .           | A          | A         | .           | A          | A         | .           | A          | A         |
| Herrold Lab'y.....           | San Jose.....      | K Q W   | .           | .          | A         | .           | .          | A         | .           | .          | A         | .           | .          | A         | .           | .          | A         | .           | .          | A         | .           | .          | A         |
| Modesto Herald.....          | Modesto.....       | K X D   | .           | .          | .         | .           | .          | .         | .           | .          | .         | .           | .          | .         | .           | .          | .         | .           | .          | .         | .           | .          | .         |
| Guy Greason.....             | Tacoma.....        | K F E J | A           | A          | .         | A           | A          | .         | A           | A          | .         | .           | .          | .         | A           | A          | .         | A           | A          | .         | .           | .          | .         |
| Rhodes Co.....               | Seattle.....       | K D Z E | .           | .          | .         | .           | .          | .         | .           | .          | .         | .           | .          | .         | A           | A          | .         | A           | A          | .         | .           | .          | .         |
| Reynolds Radio Co.....       | Denver.....        | K L Z   | .           | .          | .         | .           | .          | .         | .           | .          | .         | .           | .          | .         | .           | .          | .         | .           | .          | .         | .           | .          | .         |
| STAR TELEGRAM.....           | Fort Worth.....    | W B A P | .           | A          | C         | .           | A          | C         | .           | A          | C         | .           | A          | C         | .           | A          | C         | .           | A          | C         | .           | A          | C         |
| NEWS AND JOURNAL.....        | Dallas.....        | W F A A | .           | .          | .         | .           | .          | .         | .           | .          | .         | .           | .          | .         | .           | .          | .         | .           | .          | .         | .           | .          | .         |
| PALMER SCHOOL.....           | Davenport.....     | W O C   | B           | .          | B         | B           | .          | B         | B           | .          | B         | B           | .          | B         | B           | .          | B         | B           | .          | B         | B           | .          | B         |
| Star.....                    | Kansas City.....   | W D A F | .           | .          | B         | .           | .          | B         | .           | .          | B         | .           | .          | B         | .           | .          | B         | .           | .          | B         | .           | .          | B         |

Established  
1901Sold  
through  
Jobbers,  
Dealers**K & C**  
**RADIO****QUALITY  
SERVICE**Phone  
581-002KILBOURNE & CLARK MFG. CO.  
SEATTLE, WASH.LOS ANGELES BRANCH  
1103 W. TENTH ST.**THIS WEEK'S SPECIALS**

2 3/4-inch Rotors.....35c  
 3 3/4-inch Rotors.....40c  
 4-inch Rotors.....45c  
 3-inch Dials, 45c; 3 for.....\$1.00  
 2 1/2-inch Dials, 35c; 3 for.....95c  
 New Detector and Amplifying Tubes  
 burns on 4 dry cells.....\$4.50  
 Radio Horns, as low as.....50c

Freshmans Grid and Condenser  
 Variable.....\$1.00  
 Peanut Tubes.....\$2.00  
 Spirolas.....\$3.85  
 Hydrometers.....75c  
 Spaghetti, per yard.....10c  
 Millionpoint Crystals, each.....10c  
 Transformers.....\$2.95

Everything in Radio at the Right Price  
 We Pay the Postage—No C. O. D. Orders Taken

**Radio Headquarters ::** 7430 Moneta Avenue  
 Los Angeles, Calif.

# RADIO SUPPLIES

## MOST COMPLETE LINE ON THE COAST

|                                                |         |
|------------------------------------------------|---------|
| Peanut Tubes, large stock.....                 | \$ 6.50 |
| 201A, 301A Amplifying Tube.....                | 6.50    |
| All American Transformers.....                 | 4.75    |
| Home Charger De Luxe.....                      | 18.50   |
| Art Mache Horn, with Baldwin Loud Speaker..... | 15.00   |
| Federal Loud Speaker.....                      | 7.25    |
| Magnavox, New Type.....                        | 35.00   |
| Western Electric 216A Tube.....                | 12.00   |
| Miller Radio Frequency Transformers.....       | 4.50    |

Cunningham, Raditron and Myers Tubes  
Bakelite, All Thickness, Cut to Size

Variable Grid Leaks, With and Without Condensors—Hundreds  
of Them

|                        |                 |
|------------------------|-----------------|
| .006 Condensors.....   | 40c             |
| Loop Antenna.....      | Induction Coils |
| Tungar Rectifiers..... | A & B Batteries |

Spider Web Forms

Tune Sharp, Variometer and Variocouplers, \$6.50 each

Baldwin, Federal, Brandes, Frost, K & C, Western Electric Phones

We Have for Immediate Delivery

Radiola IV, RADIOLA GRANDS, Grebe CR5, CR8, CR9

Gilfillan, Atwater-Kent, Amrad and Remler Parts

Amatran Transformers

Full line Transmitting Parts

## MOTOR CAR SUPPLY CO.

RADIO DEPARTMENT

Open Evenings Till 9 P. M.

Telephone 120-61

920 South Broadway

Los Angeles, California

Write for

OUR NEW AND COMPLETE PRICE LIST



2-4 P. M.  
PACIFIC TIME

## RADIO TIME TABLE

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

|                           |                     |         | MON.      |           | TUES.     |           | WED.      |           | THUR.     |           | FRI.      |           | SAT.      |           | SUN.      |           |           |           |
|---------------------------|---------------------|---------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| NAME OF STATION           | CITY                | CALL    | 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 | 3.00-3.30 | 3.30-4.00 |
|                           |                     |         |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |
| CITY DYE WORKS.....       | Los Angeles.....    | K U S   | A         | A         |           |           |           |           |           |           | A         | A         |           |           |           |           |           |           |
| El. Lighting Sup. Co..... | Los Angeles.....    | K N X   |           |           |           | A         | A         |           |           |           |           |           | A         | A         |           |           |           |           |
| S. F. Examiner.....       | San Francisco.....  | K U O   |           | A         | A         |           | A         | A         |           | A         | A         |           | A         | A         |           | A         | A         | A         |
| Tribune.....              | Oakland.....        | K L X   |           |           | A         |           | A         |           | A         |           | A         |           | A         |           |           | A         |           |           |
| Portable Wireless.....    | Stockton.....       | K W G   |           |           |           |           |           |           |           |           |           |           |           |           |           |           | A         | A         |
| Kimball-Upson.....        | Sacramento.....     | K F B K |           |           | A         | A         |           | A         | A         |           |           |           | A         | A         |           | A         | A         |           |
| Calif. Radio Lab'y.....   | Hanford.....        | K F B D |           |           |           |           |           |           | A         | A         |           |           |           |           |           |           |           |           |
| Fallon & Co.....          | Santa Barbara.....  | K F H J |           | A         | A         |           | A         | A         |           | A         | A         |           | A         | A         |           | A         | A         | A         |
| First Presby. Church..... | Seattle.....        | K T W   |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           | A         |
| Guy Greason.....          | Tacoma.....         | K F E J |           | A         | A         |           | A         | A         |           | A         | A         |           | A         | A         |           | A         | A         |           |
| Rhodes Co.....            | Seattle.....        | K D Z E |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |
| OREGONIAN.....            | Portland.....       | K G W   |           |           | A         | B         |           | A         | B         |           |           |           | A         | B         |           | A         | B         |           |
| Deseret News.....         | Salt Lake City..... | K Z N   |           | A         | A         |           | A         | A         |           | A         | A         |           | A         | A         |           | A         | A         |           |
| Reynolds Radio Co.....    | Denver.....         | K L Z   |           | A         |           |           | A         |           |           | A         |           |           | A         |           |           | A         |           |           |
| STAR-TELEGRAM.....        | Fort Worth.....     | W B A P |           |           |           |           |           |           |           |           |           |           |           |           |           |           | B         |           |
| PALMER SCHOOL.....        | Davenport.....      | W O C   |           |           | B         |           | B         |           |           |           |           |           | B         |           |           |           |           |           |
| DAILY NEWS-FAIR.....      | Chicago.....        | W M A Q |           | A         |           |           | A         |           | B         | A         |           | B         | A         |           |           |           |           |           |
| Star.....                 | Kansas City.....    | W D A F | B         |           |           | B         |           | B         |           |           | B         |           | B         |           |           |           |           |           |

The capital letter A means that the station indicated is broadcasting on 360 meters, B 400 meters and C 485. Stations printed in bold face type means that detailed program appears on another page. The oblique line before or after a letter means that the station is on the air during only part of the period indicated.

## OUR RESPONSIBILITY BEGINS

When we accept an order from the Dealer, it does not end until he has sold the merchandise. Our

## PERSONAL SERVICE

is to help move his orders

## C. R. KIERULFF &amp; CO.

JOBBER OF QUALITY RADIO EQUIPMENT  
757 SOUTH LOS ANGELES STREET

PHONE 628-87

LOS ANGELES, CALIF.

G. E. KNUDSEN, Superintendent



ARC SPARK TUBE

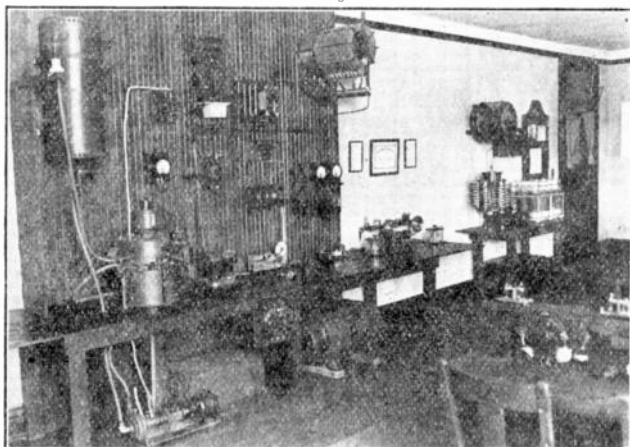
## MEN and WOMEN

### The Radio Field Is GROWING GROWING

Thousands Will Reach Fame and Fortune  
in This Fascinating Industry of the Future

Will YOU be one of them? Your  
Opportunity is NOW!

Day classes \$12.50 per month (5 days a week)



Evening classes \$10.00 per month (5 evenings  
per week)

*Some of the Powerful Federal Arc Transmitting Equipment Installed in the  
LOS ANGELES RADIO INSTITUTE—Range 6,500 Miles\**

The following are only a few of the positions now open to  
**YOU in the RADIO FIELD:**

RADIO STENOGRAPHERS  
RADIO OPERATOR  
RADIO MECHANIC  
RADIO AID  
RADIO INSTRUCTOR  
RADIO CODE INTERPRETER  
(Foreign)  
RADIO INSPECTOR  
RADIO RESEARCH ENGINEER

RADIO EDITOR  
RADIO AUDITOR  
RADIO SALESMAN  
RADIO CLERK  
RADIO DRAFTSMAN  
RADIO ENGINEER  
RADIO ELECTRICIAN  
RADIO EXECUTIVES

**ENROLL NOW!**

*We Teach All Branches of the Radio Industry*

Call or write to

**INSTRUCTING ENGINEER**

625 SOUTH HOPE STREET

Third Floor

LOS ANGELES, CALIFORNIA

The Best Equipped Radio School in America

4-6 P. M.  
PACIFIC TIME

# RADIO TIME TABLE

5- 7 Mountain Time  
6- 8 Central Time  
7- 9 Eastern Time

|                            |                    |          | MON.      |           | TUES.     |           | WED.      |           | THUR.     |           | FRI.      |           | SAT.      |           | SUN.      |           |           |           |
|----------------------------|--------------------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| NAME OF STATION            | CITY               | 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 |
| L. A. Union Stock Yards... | Los Angeles        | K F C L  | C         |           |           |           | C         |           |           |           | C         |           |           |           | C         |           |           |           |
| Earle C. Anthony           | "                  | K F I    |           |           |           |           |           |           |           |           |           | B         |           |           |           |           | B         | B         |
| City Dye Works             | "                  | K U S    |           |           |           | A         |           |           |           |           |           | A         |           |           |           |           |           |           |
| L. A. Herald               | "                  | Herald   |           | A         |           |           | A         |           | A         |           | A         |           | A         |           | A         |           | A         |           |
| L. A. Examiner             | "                  | Examiner |           | A         |           |           | A         |           | A         |           | A         |           | A         |           | A         |           | A         |           |
| Oakland Tribune            | Oakland            | K L X    | A         |           |           | A         |           |           | A         |           | A         |           | A         |           | A         |           |           |           |
| L. J. Meyberg              | San Francisco      | K D N    |           | A         | /         |           | A         | /         | A         | /         | A         | /         | A         | /         | A         | /         |           | A         |
| S. F. Examiner             | "                  | K U O    |           | /         | A         |           | /         | A         |           | /         | A         |           | /         | A         |           | /         | A         |           |
| Maxwell Elec. Co.          | Berkeley           | K R E    |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           | A         |
| Portable Wireless          | Stockton           | K W G    | A         | A         |           | A         | A         |           | A         | A         | A         | A         | A         | A         | A         |           |           |           |
| Gould                      | Stockton           | K J Q    |           | A         | A         |           | A         | A         |           | A         | A         | A         | A         | A         | A         |           |           |           |
| San Joaquin L. & P.        | Fresno             | K M J    | A         |           |           |           |           |           |           |           |           |           |           |           |           |           |           | A         |
| Radio Den.                 | Santa Ana          | K F A W  |           |           |           | A         |           |           | A         |           | A         |           | A         |           | A         |           |           |           |
| Nielson Radio Sup. Co.     | Phoenix            | K F C B  |           |           | A         | A         |           |           | A         | A         |           |           | A         | A         |           |           |           |           |
| First Presby. Church       | Seattle            | K T W    |           |           |           |           |           |           |           |           |           |           |           |           |           |           | A         | A         |
| Northwest Radio Serv.      | Seattle            | K J R    |           |           | A         |           |           |           | A         |           |           |           |           | A         |           |           |           |           |
| Mullens Electric           | Tacoma             | K G B    |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           | A         |
| Guy Gresson                | Tacoma             | K F E J  |           |           | A         |           |           | A         |           | A         |           |           |           | A         |           |           | A         |           |
| Meier & Frank              | Portland           | K F E C  | A         | A         |           | A         | A         |           | A         | A         | A         | A         | A         | A         | A         |           | A         |           |
| Hallock & Watson           | "                  | K G G    | A         | A         |           | A         | A         |           | A         | A         | A         | A         | A         | A         | A         |           | A         |           |
| Star-Telegram              | Fort Worth         | W B A P  |           | /         | B         |           | /         | B         |           | /         | B         |           | /         | B         |           | /         | B         |           |
| News and Journal           | Dallas             | W F A A  |           | B         | B         | B         |           | B         | B         | B         | B         | B         | B         | B         |           | B         | B         | B         |
| Palmer School              | Davenport          | W O C    |           | B         | B         | B         |           | B         | B         | B         | B         | B         | B         | B         |           | B         | B         | B         |
| Daily News-Fair            | Chicago            | W M A Q  |           |           |           | A         | B         | B         |           | A         | B         | B         |           | A         | B         | B         | B         |           |
| Westinghouse               | Springfield, Mass. | W B Z    |           | B         | B         | B         |           | A         | B         | B         | B         | B         |           | A         | B         | B         | B         |           |
| Kaufman & Baer             | Pittsburgh         | W C A E  |           |           |           | B         | B         | B         |           | B         | B         | B         |           | B         | B         |           | B         |           |
| Free Press                 | Detroit            | W C X F  |           |           | B         | B         |           | B         | B         | B         | B         | B         |           | B         | B         |           | B         |           |
| Western Electric           | New York           | W E A F  |           |           | B         | B         |           | B         | B         | B         | B         | B         |           | B         | B         |           | B         |           |
| Rensselaer Poly.           | Troy, N. Y.        | W H A Z  |           |           | B         | B         |           | B         | B         | B         | B         | B         |           | B         | B         |           | B         |           |
| Gimbel Bros.               | Philadelphia       | W I P    |           | B         | B         |           | B         | B         |           | B         | B         | B         |           | B         | B         |           | B         |           |
| News                       | Detroit            | W W J    |           | B         | B         |           | B         | B         |           | B         | B         | B         |           | B         | B         |           | B         | B         |
| Star                       | Kansas City        | W D A F  |           | B         | B         |           | B         | B         |           | B         | B         | B         |           | B         | B         |           | B         | B         |

The capital letter A means that the station indicated is broadcasting on 360 meters, B 400 meters and C 485. Stations printed in bold face type means that detailed program appears on another page. The oblique line before or after a letter means that the station is on the air during only part of the period indicated.

## SEE THE WORLD AND GET PAID FOR IT

You can become a commercial operator in three months. This was the new record set by our last class. Since 1912 our graduates have proved our success by their success.

### RADIO

Dept. R  
715 South Hope Street  
Los Angeles, Cal.

DAY



### SCHOOL

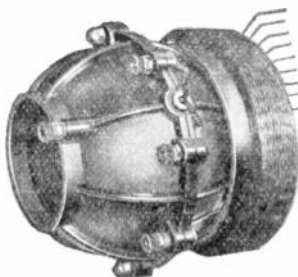
Phones  
108-22  
Main 1219

NIGHT

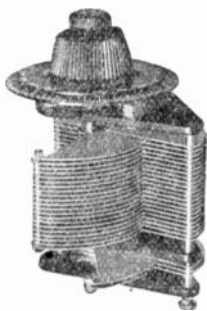
# RELIABLE RADIO PARTS

## To Insure Better Results

A Better  
Product  
of  
Excellent  
Workmanship

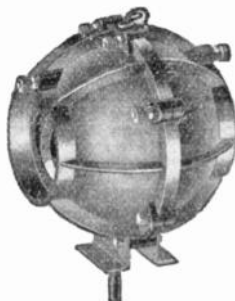


No Sliding  
Contacts—  
Nothing to  
Wear



The Kellogg Vernier-Condenser

The No. 502 Kellogg  
Diamond - Wound  
Coil increases the  
wave-length of the  
coupler from 500 to  
2500 meters.



Kellogg's Variometer



Kellogg Headset

A Light, Comfortable Phone with Unusual Tone Quality. Sensitive for

# The Braun Corporation

Wholesale Distributors

Remler Products  
Bradleyette  
Baldwin Head Sets  
Kellogg Parts

Cunningham Tubes  
Ray-O-Vac Batteries  
France Battery Charger  
GILFILLAN PRODUCTS  
Amrad Apparatus

Lofax Handbook  
Coto-Coil Products  
Magnavox

363 New High Street

Los Angeles, California, U. S. A.

6-8 P. M.  
PACIFIC TIME

## RADIO TIME TABLE

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

| NAME OF STATION        | CITY           | CALL      | MON.      |           |           | TUES.     |           |           | WED.      |           |           | THUR.     |           |           | FRI.      |           |           | SAT.      |           |           | SUN.      |           |           |
|------------------------|----------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|                        |                |           | 6:00-6:30 | 6:30-7:00 | 7:00-7:30 | 6:00-6:30 | 6:30-7:00 | 7:00-7:30 | 6:00-6:30 | 6:30-7:00 | 7:00-7:30 | 6:00-6:30 | 6:30-7:00 | 7:00-7:30 | 6:00-6:30 | 6:30-7:00 | 7:00-7:30 | 6:00-6:30 | 6:30-7:00 | 7:00-7:30 | 6:00-6:30 | 6:30-7:00 | 7:00-7:30 |
| L. A. EXAMINER         | Los Angeles    | K W H     | C         |           |           | C         |           |           | C         |           |           | C         |           |           | C         |           |           | C         |           |           |           |           |           |
| CITY DYE WORKS         | "              | K U S     |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |
| BIBLE INSTITUTE        | "              | K J S     |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |
| L. A. TIMES            | "              | K H J     |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |
| EARLE C. ANTHONY, Inc. | "              | K F I     |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |
| S. F. Examiner         | San Francisco  | K U O     | A         |           |           | A         |           |           | A         |           |           | A         |           |           | A         |           |           | A         |           |           | A         |           |           |
| MAXWELL ELECTRIC       | Berkeley       | K R E     |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |
| Tribune                | Oakland        | K L X     |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |
| MERCANTILE TR. CO.     | San Francisco  | K F D B   |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |
| Kimball-Upson          | Sacramento     | K F B K   | A         |           |           | A         |           |           | A         |           |           | A         |           |           | A         |           |           | A         |           |           |           |           |           |
| Modesto Herald         | Modesto        | K X B     |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |
| Calif. Radio Lab'y     | Manford        | K F B D D |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |
| Fallon & Co.           | Santa Barbara  | K F H J   |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |
| Radio Den.             | Santa Ana      | K F A W   |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |
| Dr. R. O. Shelton      | San Diego      | K F F A T |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |
| Southern Elec. Co.     | San Diego      | K D P T   |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |
| Dr. W. K. Azbill       | San Diego      | K F B C   |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |
| Smith, Hughes & Co.    | Phoenix        | K D Y W D | A         |           |           | A         |           |           | A         |           |           | A         |           |           | A         |           |           | A         |           |           | A         |           |           |
| McArthur Bros.         | "              | K F D H   |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |
| University of Ariz.    | Tucson         | K F D H   |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |
| Love Electric Co.      | Tacoma         | K M O     | A         |           |           | A         |           |           | A         |           |           | A         |           |           | A         |           |           | A         |           |           | A         |           |           |
| Mullens Electric       | "              | K G B     |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |
| Northwest Radio Serv.  | Seattle        | K J R     |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |
| Excelsior Motorcycle   | "              | K H Q     |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |
| Rhodes Co.             | "              | K D Z E   |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |
| First Presby. Church   | "              | K T W     |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |
| Stubbs Elec. Co.       | Portland       | K Q Y     | A         |           |           | A         |           |           | A         |           |           | A         |           |           | A         |           |           | A         |           |           |           |           |           |
| OREGONIAN              | "              | K G W     |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |
| Hallock & Watson       | "              | K G G     |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |
| Meier & Frank          | "              | K F E C   |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |
| Adler's Music Store    | Baker, Ore.    | K F A U   |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |
| Boise High S.          | Boise, Ida.    | K F A U C |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |
| Auto Supply Co.        | Wallace, Ida.  | K F C     |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |
| Telegram               | Salt Lake City | K D Y L   | A         |           |           | A         |           |           | A         |           |           | A         |           |           | A         |           |           | A         |           |           |           |           |           |
| Deseret News           | "              | K Z N     |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |
| Reynolds Radio Co.     | Denver         | K L Z     |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |
| STAR-TELEGRAM          | Fort Worth     | W B A P   |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |
| NEWS AND JOURNAL       | Dallas         | W F A A   |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |
| PALMER SCHOOL          | Davenport      | W O C     |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |
| DAILY NEWS-FAIR        | Chicago        | W M A Q   |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |
| Post Dispatch          | St. Louis      | K S D     |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |
| Westinghouse           | Chicago        | K Y W     |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |
| Strawbridge & Clothier | Philadelphia   | W E I     |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |
| Constitution           | Atlanta        | W G M     |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |
| Gen'l Electric Co.     | Schenectady    | W G Y     |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |
| Sweeney School         | Kansas City    | W H B     |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |
| John Wanamakers        | Philadelphia   | W O O     |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |
| Bamberger & Co.        | Newark         | W O R     |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |
| Star                   | Kansas City    | W D A F   |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |

The capital letter A means that the station indicated is broadcasting on 360 meters, B 400 meters and C 485. Stations printed in bold face type means that detailed program appears on another page. The oblique line before or after a letter means that the station is on the air during only part of the period indicated.



## The Vacuum Tube

By HALL BERRINGER

Perhaps no one particular item is as responsible for the advancement of radio telegraphy and telephony as is the vacuum tube. This device was perfected about 1910, and it was used solely for reception until the latter part of 1915, when it was discovered that the vacuum tube could be used for transmitting purposes also.

The vacuum tube is more or less a familiar object to the average man of today. It consists of an evacuated vessel somewhat similar in size and construction to the ordinary incandescent lamp. Instead of two connections made in the case of the electric lamp, the vacuum tube has four connections. Two of these connections serve the same purpose as those of the incandescent lamp, namely, to light the filament; the other two connections lead to two new elements, the grid and the plate. There are therefore three elements in a vacuum tube—the filament, grid and plate. These elements are so arranged with the filament in the center, the grid on the outside of the filament, and the plate outside of the grid.

The filament consists of a tungsten wire, the grid of a small coil or mesh of wires, and the plate a thin sheet of metal. The tube operates as follows: A six-volt battery is connected to the filament which when lighted emits small particles of electricity in every direction. A battery of from 22 to 300 volts is connected with the positive side to the plate and the negative side to the filament. When this battery is connected, the small particles of electricity which are emitted by the filament, and which are negative in character, are attracted to the positive plate. A current then flows between the filament and the plate. If a third battery or an alternating current, such as that due to a signal, is connected to the grid so that the voltage of the grid is changed, the current flowing in the circuit formed by the plate and filament will vary in the same manner. The variation is much greater than the small voltage placed on the grid would warrant. The current will increase when the grid is positive and will decrease when the grid is negative.

The plate current is sufficient to operate a pair of telephone receivers or a loud speaker. The current will flow without interruption as long as the filament is lighted, and the battery in the plate circuit is connected.

New applications of the amplifying properties possessed by the vacuum tube are being found every day. Due to the above property the vacuum tube is used also as a generator of continuous waves, and this is the part it is used for in radio telephone transmitting stations.

The above description is merely a slight outline of what the vacuum tube really is. The writer would like to suggest that very interesting data can be obtained by reading "Vacuum Tubes" in "Wireless Communication" by Elmer E. Bucher.

## SOME OF OUR FEATURE LINES

|                         |                   |                           |
|-------------------------|-------------------|---------------------------|
| "Master" Radio Products | Sunbeam Batteries | Madera Clear Speakers     |
| Tune Sharp              | Baldwin Phones    | K. R. Tubes               |
| Howard Parts            | Murdock Phones    | Radio "Argentite" Crystal |

## COOK-NICHOLS CO.

Wholesale Only—Special Manufacturer's Discount

411 South San Pedro Street, Los Angeles, Cal.

Pico 3741

Where Service and Quality Meet

8-10 P. M.  
PACIFIC TIME

## RADIO TIME TABLE

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

| NAME OF STATION          | CITY           | CALL     | MON.      |           |           | TUES.     |           |           | WED.      |           |           | THUR.     |           |           | FRI.      |           |           | SAT.      |           |           | SUN.      |           |           |
|--------------------------|----------------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|                          |                |          | 8:00-8:30 | 8:30-9:00 | 9:00-9:30 | 8:00-8:30 | 8:30-9:00 | 9:00-9:30 | 8:00-8:30 | 8:30-9:00 | 9:00-9:30 | 8:00-8:30 | 8:30-9:00 | 9:00-9:30 | 8:00-8:30 | 8:30-9:00 | 9:00-9:30 | 8:00-8:30 | 8:30-9:00 | 9:00-9:30 | 8:00-8:30 | 8:30-9:00 | 9:00-9:30 |
| L. A. Union Stock Yards  | Los Angeles    | K F C L  | C         | A         |           | C         |           |           | C         | A         |           | C         |           |           | C         | A         |           | C         |           |           |           |           |           |
| L. A. Herald             | "              | Herald   | A         | A         |           |           |           |           | A         | A         |           |           |           |           |           |           |           |           |           |           |           |           |           |
| Western Radio, Inc.      | "              | Westn. R |           |           |           | A         | A         |           |           |           |           |           |           |           |           |           |           | A         | A         |           |           |           |           |
| BIBLE INSTITUTE          | "              | K J S    |           |           |           |           |           |           |           |           |           | A         | A         |           |           |           |           |           |           |           | A         | A         |           |
| Leo J. Meyberg           | "              | Meyberg  |           |           |           |           |           |           |           |           |           | A         | A         |           |           |           |           |           |           |           | A         | A         |           |
| L. A. TIMES              | "              | K H J    | B         | B         | B         | B         | B         | B         | B         | B         | B         | B         | B         | B         | B         | B         | B         | B         | B         | B         | B         | B         | B         |
| L. A. EXAMINER           | "              | Examiner |           |           | A         |           | A         | A         |           | A         | A         |           | A         | A         |           | A         | A         |           | A         | A         |           |           |           |
| EARLE C. ANTHONY, Inc.   | "              | K F I    |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           | A         | B         |
| HALE BROTHERS            | San Francisco  | K P O    |           |           |           | B         | B         | B         |           |           |           | B         | B         | B         |           |           |           |           | B         | B         |           |           |           |
| S. F. Examiner           | "              | K U O    |           |           |           |           |           |           | A         | A         |           |           |           |           |           |           |           |           |           |           | D         | D         |           |
| Army-Presidio            | "              | A G I    |           |           |           |           |           | A         | A         |           |           | D         | D         |           |           |           |           | A         | A         | A         |           |           |           |
| WARNER BROTHERS          | "              | K L S    |           |           |           |           |           | A         | A         |           |           |           |           |           | A         | A         | A         | A         | A         | A         |           |           |           |
| Leo J. Meyberg           | "              | K D N    |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           | A         | A         | A         |           | A         | A         |
| Oakland Tribune          | Oakland        | K L X    |           |           |           | A         | A         |           |           |           |           | A         | A         |           |           |           |           |           |           |           |           |           |           |
| Mercantile Tru st.       | San Francisco  | K F D B  | B         | B         | B         |           |           |           | B         | B         | B         |           |           |           | B         | B         | B         |           |           |           |           |           |           |
| MAXWELL ELEC. CO.        | Oakland        | K R E    |           |           |           |           |           |           |           | A         | A         |           |           |           |           |           |           |           |           |           |           |           |           |
| Calif. Radio Lab'y       | Hanford        | K F B D  | A         | A         |           |           |           |           | A         |           |           |           |           |           |           |           |           |           |           |           |           |           |           |
| Modesto Herald           | Modesto        | K X D    |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |
| Portable Wireless        | Stockton       | K W G    |           |           |           | A         | A         |           |           |           |           |           |           |           | A         | A         |           |           |           |           |           |           |           |
| San Joaquin L. & P.      | Fresno         | K M J    |           |           |           | A         | A         |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |
| Herrold Lab'y            | San Jose       | K A W    |           |           |           |           |           |           | A         | A         | A         |           |           |           |           |           |           |           |           |           |           |           |           |
| Kimball-Upson            | Sacramento     | K F B K  |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           | A         | A         | A         |
| Abbott Kinney Co.        | Venice         | K F A V  |           | A         | A         |           |           |           | A         | A         | A         |           |           |           | A         | A         |           |           |           |           |           |           |           |
| Gould                    | Stockton       | K J O    |           | A         | A         |           |           |           |           |           |           | A         | A         |           |           |           |           |           |           |           |           |           |           |
| Fallon & Co.             | Santa Barbara  | K F H J  |           |           |           |           |           | A         |           |           |           | A         | A         |           |           |           | A         |           |           |           | A         | A         | A         |
| Dr. W. K. Azbill         | San Diego      | K F B C  |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           | A         | A         | A         |
| Savoy Theatre            | San Diego      | K D Y M  | A         | A         | A         |           |           |           | A         | A         | A         | A         | A         | A         |           | A         | A         | A         | A         |           |           |           |           |
| Sc. Electric Co.         | San Diego      | K D P T  |           |           |           | A         | A         | A         |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |
| Univ. of Ariz.           | Tucson         | K F D H  |           |           |           | A         |           |           |           |           |           | A         |           |           |           |           |           |           |           |           |           |           |           |
| Nielson Radio Sup. Co.   | Phoenix        | K F C B  |           |           |           |           |           |           |           |           |           |           |           |           | A         | A         | A         |           |           |           |           |           |           |
| Northwest Radio Serv.    | Seattle        | K J R    | A         |           |           | A         | A         | A         |           |           |           | A         | A         | A         | A         | A         |           | A         | A         | A         |           |           |           |
| Excelsior Motorcycle Co. | "              | K D Z E  |           | A         | A         | A         |           |           | A         | A         | A         |           |           |           | A         |           |           | A         |           |           |           |           |           |
| Rhodes Co.               | "              | K T W    |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           | A         | A         | A         |
| First Pres'y Church      | Portland       | K T W G  | B         | B         |           |           |           |           | B         | B         |           |           |           |           | B         | B         |           |           |           |           |           |           |           |
| Oregonian                | "              | K G G    |           |           |           |           |           |           |           |           | A         | A         |           |           |           |           |           | A         | A         |           |           |           | A         |
| Hallock & Watson         | "              | K G E N  |           |           |           | A         | A         |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |
| Stubbs Electric Co.      | "              | K F A U  |           |           |           |           |           |           |           |           |           |           |           |           | A         | A         |           |           |           |           |           |           |           |
| Meier & Frank            | Eugene, Ore.   | K F A U  |           |           |           | A         | A         |           |           |           |           |           |           |           |           |           |           | A         | A         |           |           |           |           |
| Pacific Radio Co.        | Boise, Ida.    | K F A U  |           | A         |           |           |           |           | A         | A         |           |           |           |           |           |           |           |           |           |           |           |           |           |
| Boise High Sch.          | Boise, Ida.    | K F A Y  |           |           |           |           |           |           |           |           |           | A         | A         |           |           |           | A         | A         |           |           |           |           |           |
| Virgin Radio Service     | Medford, Ida.  | K F C C  |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |
| Auto Supply Co.          | Wallace, Ida.  | K F C C  | A         |           |           |           |           |           | A         |           |           |           |           |           |           |           |           |           |           |           |           |           |           |
| Deseret News             | Salt Lake City | K Z N    | A         |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |
| Reynolds Radio Co.       | Denver         | K L Z    |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           | A         | A         |           |
| DALLAS NEWS              | Dallas, Tex.   | W F A A  |           |           |           |           | B         | B         |           |           |           | B         | B         |           |           |           |           | B         | B         | B         |           |           |           |
| Post Dispatch            | St. Louis      | K S D    |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |
| Woodmen of World         | Omaha          | W O A W  | B         |           |           | B         |           |           |           |           |           | B         |           |           | B         |           |           |           |           |           |           |           |           |
| Westinghouse             | Chicago        | K Y W    |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |

The capital letter A means that the station indicated is broadcasting on 360 meters, B 400 meters and C 485. Stations printed in bold face type means that detailed program appears on another page. The oblique line before or after a letter means that the station is on the air during only part of the period indicated.

## One of the Most Popular Receivers on Market Today

The following is a description of the Kennedy Intermediate Receiver:

Designed to fill the requirements of those who want a range of wave lengths somewhat more comprehensive than that covered by the ordinary short-wave receiver. It has an effective tuning range of from 175 to 3100 meters.

In the employment of coupled circuits exclusively, in eliminating resonance in unused inductance sections, in avoiding high resistance contacts in electrical circuits, and in reducing energy losses to a minimum, maximum effectiveness and a high degree of selectivity is secured on all wave lengths.

The cabinet is of genuine solid walnut, hand-rubbed finish. Hinged cover for changing vacuum tube and inspecting interior.

Panel is of polished Formica, machine engraved with fluted Bakelite control knobs, commercial type.

The indicating dials are of satin-finish, silver-plated, bevel-edge brass, set into the face of the panel.

A beveled-edge circular observation window in the panel with a satin-nickel-finish perforated screen permits the vacuum tube inside the cabinet to be seen.

Has fundamental Armstrong regenerative circuit.

Tube socket, rheostat, grid condenser and other accessories necessary to complete vacuum tube control are mounted within the cabinet, thus providing for a complete self-contained receiver. The only additions necessary for operation are a detector tube and the external connections to antenna, ground, batteries and telephone receivers.

Has large, smooth-running, non-heating unit.

Special sectional banked windings on Formica tubing. Controlled by switches on face of panel.

The coupling is inductive, progressively variable over arc of 180 degrees, providing for optimum results over entire range.

The primary and secondary condensers are large and substantial and are of the balanced type with heavy aluminum plates and soldered pigtail connections. No sliding contacts.

The primary condenser may be connected either in series or in parallel with the primary inductance by means of a switch mounted behind the panel, but controlled by a knob on the front.

The workmanship and finish are of the highest. A hinged cover makes possible the examination of the interior.

Due to the range of tuning for which it is designed, this receiver is of especial value to those who are interested in receiving radio music, news reports, market reports, time signals and other information which is daily becoming more and more widely broadcasted by governmental departments, newspapers, radio firms and private radio stations. This unit was designed especially to fill the needs of the layman whose greatest interest is in this particular field of radio.

Dimensions 14 1/2 inches long, 12 1/2 inches high, 9 1/2 inches deep.

---

Mr. C. S. Platt, chief of the Y. M. C. A. Radio School of Los Angeles, whose article, "Receiving Aerials," appeared in a recent issue of RADIO DOINGS, received the following message, which should be of interest to our readers:

"When the S. S. Babinda burned recently, J. R. King, one of the last graduates from Los Angeles 'Y' Radio School, caught the first SOS immediately after which the wireless set of the doomed vessel went out of commission. A light on the horizon guided the S. S. Celilo in her search and through the vigilance and quick action of Mr. King in picking up the call the entire crew was rescued."

|                        |             |       | MON.        |             | TUES.       |             | WED.        |             | THUR.       |             | FRI.        |             | SAT.        |             | SUN.        |             |             |             |
|------------------------|-------------|-------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| NAME OF STATION        | CITY        | CALL  | 10.00-10.30 | 10.30-11.00 | 11.00-11.30 | 11.30-12.00 | 10.00-10.30 | 10.30-11.00 | 11.00-11.30 | 11.30-12.00 | 10.00-10.30 | 10.30-11.00 | 11.00-11.30 | 11.30-12.00 | 10.00-10.30 | 10.30-11.00 | 11.00-11.30 | 11.30-12.00 |
|                        |             |       |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |
| Earle C. Anthony, Inc. | Los Angeles | K F I | B           | B           |             |             | B           | B           |             |             | B           | B           |             |             | B           | B           |             |             |
| Northwest Radio Co.    | Portland    | K G W |             |             | A           | A           |             |             |             |             |             |             |             |             |             |             |             |             |
| Oregonian              | Portland    | K A Y |             |             | A           | A           |             |             |             |             |             |             |             |             |             |             |             |             |

The capital letter A means that the station indicated is broadcasting on 360 meters, B 400 meters and C 485. Stations printed in bold face type means that detailed program appears on another page. The oblique line before or after a letter means that the station is on the air during only part of the period indicated.

## STAR ENGRAVING COMPANY

223 EAST FOURTH ST. LOS ANGELES, CALIF.  
15663 TELEPHONE MAIN 5680

**A Real Selective Crystal Set \$15.00, sent C. O. D. Anywhere**

You may tune the Times or Examiner in or out at your discretion. Why hear four or five stations at once?

Compare this with any \$30.00 set.

We have spent 16 years in Radio. Dealers, get our prices.

Open Evenings Until Ten o'Clock

**LE ROY ELECTRIC COMPANY**

E. W. LE ROY

PHONE 1179

S. A. LE ROY, E. E.

13 WEST MAIN STREET, ALHAMBRA, CALIF.

## FIRE

Has Destroyed All of Our Printed Matter, so There Must Be a Delay in Deliveries of

**\$30.00 Cash**

But Don't Be  
Disappointed

**It Won't Be Long  
Before April 15**

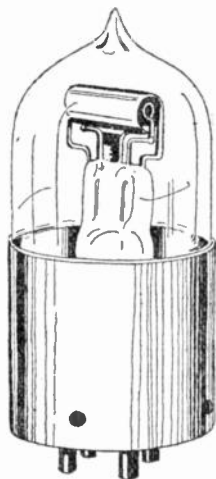


**\$11 per Month**

Just Wait Until You See

**The Set of No  
Regrets**

**FITZGERALD'S**  
for the  
*Advancement of Music.*



## The DeForest Tube Now Here

The superior DeForest Tube, with specially treated filament—hard pumped and thoroughly tested to meet the exacting requirements set by DeForest—is now obtainable at these authorized DeForest dealers:

Howland & Dewey Co.  
Electric Appliance Company  
Charles E. Holland  
Yale Electric Company  
Advance Bicycle Shop  
AA-1 Radio Shop  
Stanford Electric Company  
United Sales Company  
Hensel Electric Store  
Normandie Radio Shop  
F. McCurtain  
Southern California Radio Company  
Mohawk Battery Company  
Uni. Radio Research Lab., Pasadena  
Radio Telephone Shop, Santa Paula  
McClay Ignition Works, Santa Ana  
Anaheim Ignition Depot, Anaheim  
O. B. Radebaugh, Flagstaff, Arizona  
Ventura Radiator Works, Ventura  
Merrifield Music Co., San Luis Obispo  
LeRoy Electric Company, Alhambra  
Orange Tire Hospital, Orange

Norman N. Wilson, Balboa  
Equipment Sales Company, San Diego  
Eklund Music Company, Colton  
Prest & Dean, Long Beach  
Long Beach Radio Company  
W. D. Soper, Ojai  
Valley Commercial Company, Calexico  
Nielson Radio Supply, Phoenix  
Frank Nosworthy, Santa Maria  
G. F. Sparling, Inglewood  
Claude Chess, Monrovia  
Fred F. Newport, Laguna Beach  
Wasco Drug Company, Wasco  
Creswell Brunswick Shop, Redondo Beach  
P. L. Heidner, Azusa  
Eagle Rock Hdw. & Furn. Co, Eagle Rock  
E. F. Savage, San Francisco  
Co-Operative Battery Co., San Francisco  
Kahn & Keville, San Francisco  
Ben Virden, Oxnard  
Brown Music Co., Ontario

*The Fitzgerald Music Company is the Sole Distributor  
for DeForest Equipment in This Territory*

**THE RADIO DIVISION**  
Phone 108-49



Telephone 10849

Los Angeles, California



## Condenser Data That Will Interest You

By HALL BERRINGER

Electrostatic energy may be stored in a body of conductors and insulating material called a condenser. The action of a condenser is similar to that of an air tank used for the storage of air. The amount of air this air tank will hold is not a constant, fixed amount; it depends on the pressure forcing the air into the tank. The back pressure of the air opposes the pressure applied. If the applied pressure is released and a valve is left open, the air rushes forth. The amount of electric charge given to a condenser depends on the electric pressure, or potential difference; and in exact similarity to the air, the charge is proportional to the difference in potential. The constant ratio of the charge to potential difference is called the capacity of the condenser. The capacity of a condenser depends on the size and distance apart of its plates, and of the kind of dielectric used between the plates. The dielectric is the name used for the insulating medium in a condenser.

The condensers used in modern receiving equipment are of the air and mica dielectric type. The plates or conductors are not important, it is only required that they be of low resistance. The majority of condensers of the air dielectric type are made of aluminum. Variable condensers are extensively used in tuning, either to add to the wave length of a circuit or to decrease the wave length of a circuit. A variable condenser connected in series in a circuit will make it possible to decrease the value of the circuit in wave length. A variable condenser used to shunt an inductance in a circuit can be used to increase the value of the circuit in wave length.

A variable condenser used in the secondary circuit is always shunted across the secondary of the vario-coupler, therefore adding to the value of the circuit, and therefore providing a fine adjustment in the tuning of this circuit. A series condenser in the antenna circuit shortens the wave length at will to which the aerial responds. It gives a fine adjustment of the tuning of the aerial circuit.

A grid condenser is used to adjust the voltage on the grid of the vacuum tube. The bypass condenser provides a path for the radio frequency current to pass to the plate than through the telephone receivers on primary of the first amplifying transformer.

---

Secretary Hoover has announced that with slight changes he will put into effect the recommendations of the special conference the details of whose finding RADIO DOINGS published last week.

The assignment of definite wave lengths of stations will be done gradually so as to allow broadcast stations ample time to make the necessary changes in equipment.

Perhaps the most important change, from the listener's point of view, is the change that will be made in the ship-to-shore wave length. This is now 450 meters but will be changed to 800. When this change goes into effect it will be found that there will be a very marked decrease in interference, an annoyance for which the amateur has been unjustly blamed.

---

Radio is developing the imagination. There is a station in Los Angeles that is licensed but has never erected a broadcast station. Yet every week they are in receipt of letters from distant listeners thanking them for the fine concerts that these zealous listeners have heard.

**K S D—St. Louis Post-Dispatch—400 Meters**

PACIFIC TIME

**MONDAY—**

6:00 p. m. Program by students of URSULINE ACADEMY.

11:30 p. m. Broadcasting the dance program of GENE RODEMICH'S ORCHESTRA at Hotel Statler.

**TUESDAY—**

6:00 p. m. ALLIE SCHMIDT, Soprano; MRS. OMA CULBERTSON PRESCOTT and MRS. A. H. HELBIG, Pianists.

**WEDNESDAY—**

6:00 p. m. BELLGLADE ORCHESTRA.

6:30 p. m. HELENE HELLWEG, Soprano; N. V. DIXON, Baritone; CHARLES MAEHL and MRS. N. V. DIXON, Pianists.

**THURSDAY—**

Silent.

**FRIDAY—**

6:00 p. m. MOUND CITY ORCHESTRA.

6:30 p. m. PAULINE J. BELL, Soprano; LOUISE BERNERO and ANNA SORKIN, Pianists.

9:30 p. m. MRS. FRANK HOWARD, Mezzo-Soprano; MRS. J. H. EGGERT, Violinist; LUCILLE COOK, Pianist; JOHN C. SARTELLE, Whistler; J. H. EGGERT, Cellist; MRS. GEORGIA McADAMS CLIFFORD, Reader; MAX MASON, French Horn; JAMES HAY, Jr., Flutist; MRS. NELLIE MacKENZIE, Accompanist.

**SATURDAY—**

6:00 p. m. THALETA KRONSBEN, Contralto; HARTZEL LYON, Baritone.

**K N X—Electric Lighting Supply Co.—360 Meters**

216 West Third Street, Los Angeles, California—Phone Main 1429

Broadcasting Station Located on California Theatre

**TUESDAY—**

2:00 to 3:00 p. m. Special orchestra concert and organ recital.

**WEDNESDAY—**

9:00 to 10:00 p. m. Organ recital. Concert by 50-piece orchestra, CARLI ELEANOR, Conductor.

**THURSDAY—**

3:00 to 4:00 p. m. Organ recital. CARLI ELEANOR'S 50-piece orchestra with special music accompanying feature picture "Souls for Sale."

**W B A P—Fort Worth Star-Telegram—Class B**

Owned and operated by Fort Worth Star-Telegram, Fort Worth, Texas. Operating on 400 and 485m—Pacific time

**DAILY FEATURES**

9:45 to 10:00 a. m. Opening market quotations, 485 meters.

11:00 to 11:30 a. m. United States weather report; late cotton and grain quotations; first call cottonseed oil; Department of Agriculture, fruits, vegetables and cattle divisions quotations, 485 meters.

3:00 to 3:30 p. m. Closing market quotations, 485 meters.

3:45 to 4:00 p. m. Financial Review, 400 meters.

**SUNDAY—**

9:00 to 10:15 a. m. Complete services of the First Methodist Church, REV. J. W. BERGIN, Pastor; WILL FOSTER, Organist.

1:30 to 2:30 p. m. Concert.

**MONDAY—**

5:15 to 6:00 p. m. Concert by the KIWANIS CLUB of Denton, Texas.

7:30 to 8:30 p. m. Concert by the 30-piece band of WILLIAM CAMERON &amp; CO.

**TUESDAY—**

5:15 to 6:00 p. m. Concert by the FORT WORTH HIGH SCHOOL GLEE CLUB.

7:30 to 8:30 p. m. Concert by the HARMONY CLUB of Fort Worth.

**WEDNESDAY—**

5:15 to 6:00 p. m. Concert by JESSE MORRIS of Dalhart, Texas.

7:30 to 8:30 p. m. Concert by the GLEE CLUB of the DANIEL BAKER COLLEGE, Brownwood, Texas.

**THURSDAY—**

5:15 to 6:00 p. m. Concert by BLEWETT'S ORCHESTRA of Denton, Texas.

7:30 to 8:30 p. m. Concert by the 300-voice choir of the FIRST BAPTIST CHURCH of Fort Worth.

**FRIDAY—**

5:15 to 6:00 p. m. Concert by MRS. LESLIE WARE and BESS WARE of Baylor College, Belton, Texas.

7:30 to 8:30 p. m. Program by the President's Day banquet of the Fort Worth University Club, musical program by the Texas Christian University.

4:30 to 4:45 p. m. Review of the Interdenominational Sunday School lesson by MRS. W. F. BARNUM, leader of the Barnum Bible Class of the First Methodist Church.

7:30 to 8:30 p. m. On Saturday and Sunday The Star-Telegram observes a "silent night" courtesy of its tube listeners wishing to try for long distance records.

## K H J—Los Angeles Times—Class B

Times Building, First and Broadway. Los Angeles. Phone Pico 706  
Owned and operated by Los Angeles Times. Operated on 400 meters

### SUNDAY—

- 10:00 to 11:00a. m. EDITH CLAPPER, Soprano, will sing selected solos. Also instrumental music and sermon.  
8:00 to 10:00 p. m. FLORENCE VAN DYKE, Dramatic Soprano, MINNIE O'NEIL, Concert Pianist; JAN RUBINI, Violinist. Also other vocal and instrumental music.

### MONDAY—

- 12:30 to 1:15 p. m. MRS. LOUIS FERDINAND ROUSSEY, Mezzo Soprano, accompanied by HELEN PETRE, will sing the following of her own compositions: "My California," "Keep Smiling," "Song of Joy," "Sleep Little Love." News items.  
6:45 to 7:30 p. m. CLYTIE HASKELL, Whistler, accompanied by ELLA MacGLASHEN, will whistle selected numbers. Bedtime story.  
8:00 to 10:00 p. m. ENGLISH NIGHT, arranged through courtesy of RADIO DOINGS and under auspices of the SONS OF ST. GEORGE and BRITISH OVERSEAS CLUB. Humorous songs by MR. REYNOLDS; SID HERON, Monologist; CONSTANCE BALFOUR, Soprano; MRS. LILLY WALLACE, Soprano, "Land of Hope and Glory;" J. MacDONALD STEPHENS, Baritone; HAROLD PROCTOR, Tenor; FREDERICK WARDE, Dramatist; MAJOR OSBORNE, British Vice Counsel, will send greetings. LESLIE HODGE, President of the Sons of St. George, will deliver a talk. News items.

### TUESDAY—

- 12:30 to 1:15 p. m. Vocal and instrumental music. News items.  
6:45 to 7:30 p. m. Vocal and instrumental music. Bedtime story.  
8:00 to 10:00 p. m. WELSH NIGHT, arranged through the courtesy of RADIO DOINGS and MR. DAVIES, Director of the Welsh Church of Los Angeles. Vocal and instrumental music. News items.

### WEDNESDAY—

- 12:30 to 1:15 p. m. Vocal and instrumental music. News items.  
6:45 to 7:30 p. m. Vocal and instrumental music. Bedtime story.  
8:00 to 10:00 p. m. Vocal and instrumental music. News items.

### THURSDAY—

- 12:30 to 1:15 p. m. Vocal and instrumental music. News items.  
6:45 to 7:30 p. m. Vocal and instrumental music. Bedtime story.  
8:00 to 10:00 p. m. SPANISH-MEXICAN NIGHT, arranged through the courtesy of WILLIAM BERRIEN. Vocal and instrumental music. News items.

### FRIDAY—

- 12:30 to 1:15 p. m. Vocal and instrumental music. News items.  
6:45 to 7:30 p. m. Vocal and instrumental music. Bedtime story.  
8:00 to 10:00 p. m. French Night. Vocal and instrumental music, News items.

### SATURDAY—

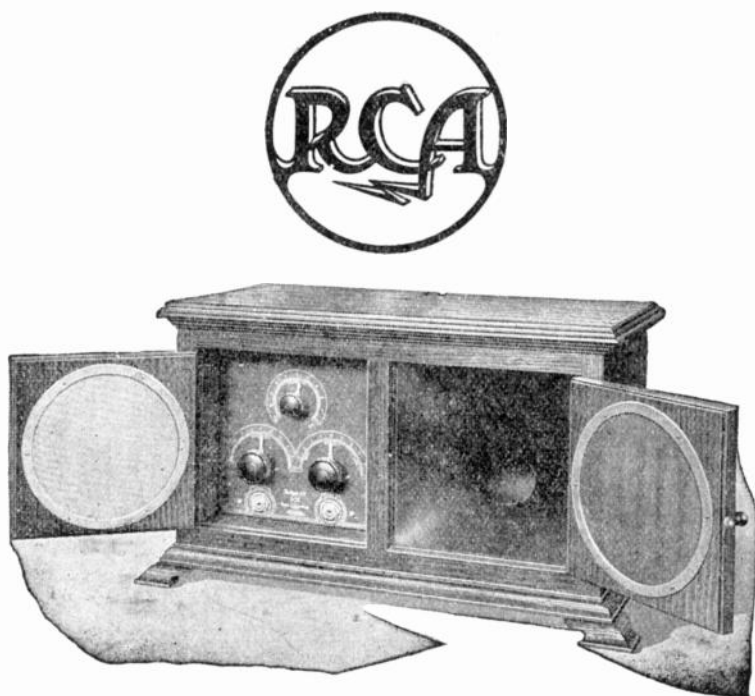
- 12:30 to 1:15 p. m. SOUTHLAND SERENADERS, under the direction of MAX BOUQUET. MRS. HART ALLEN, Reader. News items.  
6:45 to 7:30 p. m. HARRY JAMES BEARDSLEY, Reader and Baritone, will sing: "His Buttons Are Marked U. S.," by V. J. Bond. Bedtime story.  
8:00 to 10:00 p. m. Anniversary Day of KHJ, AMERICAN NIGHT. Sammie's Sisters, flugel horn and mello horn, accompanied by RUTH HEISTAND, fife and drum corps, military band. Brief addresses by COLONEL ARTHUR WILLIAME and COLONEL J. M. T. PARTELLO. News items.

## RADIO SATISFACTION

is assured when you purchase from a reliable dealer who knows radio, appreciates the difficulties of the beginner, and is glad to co-operate in servicing and instructing you how to get the most from your equipment. Besides, we sell standard sets at standard prices on easy monthly payments—therefore we will both be pleased if you buy your set from

**COAST RADIO COMPANY, Inc.**

PHONE 110 EL MONTE, CALIFORNIA



*RADIOLA-IV*  
*A Masterpiece among*  
*Radio Receivers*



**Leo J. Meyberg Company**



**Distributors**  
Established 1912

LOS ANGELES

SAN FRANCISCO

## K F I—Radio Central Station—Class B

Owned and Operated by Earle C. Anthony, Inc., 1000 South Hope Street, Los Angeles  
Telephone Main 6061

### SUNDAY—

- 9:00 to 10:00 p. m. Examiner.  
10:00 to 11:00 a. m. Full Church services by all denominations co-operating through the Church Federation, REV. J. A. STEVENSON, Executive Secretary, 436 Van Nuys Bldg.  
4:00 to 5:00 p. m. Full musical Vesper service, under direction of MRS. WM. MABEE, National Chairman of Church Music, National Federation of Music Clubs, 321 Van Ness Avenue.  
8:00 to 9:00 p. m. Leo J. Meyberg.  
9:00 to 10:00 p. m. Examiner.  
10:00 to 11:00 p. m. BENNETT-PACKARD ORCHESTRA.

### MONDAY—

- 9:00 to 10:00 p. m. Examiner.  
6:45 to 7:30 p. m. Peter Rabbit and his friends. Los Angeles Chamber of Commerce, M. M. RATHBUN, Pub. Director. Junior Music Clubs of Southern California, MRS. ELLA W. DUFFIELD, Associate Chairman, 1015 South Manhattan.  
8:00 to 9:00 p. m. Herald.  
10:00 to 11:00 p. m. Hollywood Night, MRS. J. J. CARTER, Committee Chairman.

### TUESDAY—

- 9:00 to 10:00 p. m. Examiner.  
6:45 to 7:30 p. m. Peter Rabbit and his friends. Los Angeles County Medical Society, DR. WM. DUFFIELD, Sponster. Auditorium Building. Junior Music Clubs.  
8:00 to 9:00 p. m. Western Radio.  
10:00 to 11:00 p. m. Matinee Musical Club, MRS. J. SPENSER-KELLY, President.

### WEDNESDAY—

- 9:00 to 10:00 p. m. Examiner.  
6:45 to 7:30 p. m. Peter Rabbit and his friends. Nick Harris Detective Stories, Pantages Theatre Bldg. Junior Music Clubs.  
8:00 to 9:00 p. m. Herald.  
10:00 to 11:00 p. m. BENNETT-PACKARD ORCHESTRA.

### THURSDAY—

- 9:00 to 10:00 p. m. Examiner.  
6:45 to 7:30 p. m. Peter Rabbit and his friends. Y. M. C. A., H. G. EDDY, Pub. Sec.  
8:00 to 9:00 p. m. Leo J. Meyberg Co.  
10:00 to 11:00 p. m. HOLLYWOOD GIRLS' QUARTETTE.

### FRIDAY—

- 9:00 to 10:00 p. m. Examiner.  
6:45 to 7:30 p. m. Peter Rabbit and his friends. Sherwood Music School of Chicago, BURT RAWLINSON, Manager. Southern California Music Arts Studio Bldg.  
8:00 to 9:00 p. m. Herald.  
10:00 to 11:00 p. m. Orpheus Club, MRS. GERTRUDE B. PARSONS, President.

### SATURDAY—

- 9:00 to 10:00 p. m. Examiner.  
6:45 to 7:30 p. m. Peter Rabbit and his friends. Los Angeles County Dental Society, DR. ARTHUR C. LA TOUCHE, President, care College of Dentistry, University of California. Junior Music Clubs.  
8:00 to 9:00 p. m. Western Radio.  
10:00 to 11:00 p. m. PACKARD RADIO CLUB.

We can furnish anything in the Radio Line. We will quote you prices and SAVE YOU MONEY. No catalogues issued. Prices on application.

Specials For This Week Only: Bakelite Sockets for W. D. 11 Peanut Tubes...50c

# MAC DONALD AND SHA W

## RADIO MAIL ORDER HOUSE

We Put the "LESS" in Wireless

2301 THIRTY-THIRD AVENUE

PHONE 766-106

## "W D 11 TUBES"

We have a complete stock of WD11 Peanut Tubes. Send us check for \$6.50 each and we will mail postpaid.

PACIFIC COAST RADIO COMPANY, Ontario, Calif.



## Examiner Radio Studio

These programs are rendered in the Examiner Studio and broadcasted by remote control over the leased wire of the Southern California Telephone Company from Radio Central Station K. F. L

### SUNDAY,

9:00 to 10:00 p. m. CORTLAND GILMORE and his Saxophone Girls.

### MONDAY—

9:00 to 10:00 p. m. Noted Orchestra to be announced later in The Examiner.

### TUESDAY—

9:00 to 10:00 p. m. variety numbers. SID GRAUMAN, famous showman, presents a beautiful program of

### WEDNESDAY—

9:00 to 11:00 p. m. DE LARA GRAND OPERA COMPANY, an evening with a favorite opera.

### THURSDAY—

9:00 to 10:00 p. m. HUNTINGTON PARK NIGHT.

### FRIDAY—

9:00 to 10:00 p. m. Program presented by FINN HAAKON FROLICH, noted sculptor of the Norse Studio Club.

### SATURDAY

9:00 to 10:00 p. m. A feature program of famous artists presented under the direction of SID GRAUMAN.

### SUNDAY—

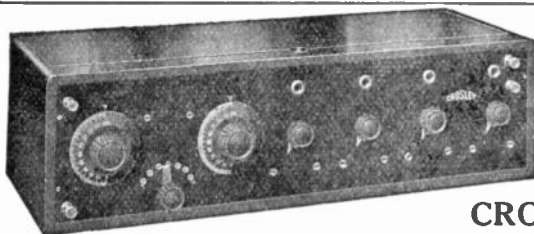
9:00 to 10:00 p. m. LONG BEACH NIGHT. An exceptional program arranged through the courtesy of the FITZGERALD MUSIC COMPANY of Long Beach, by CORTLAND GILMORE, noted instructor and saxophone soloist.

## K W H—Examiner Radio Broadcasting Station

Owned and Operated by Los Angeles Examiner

### DAILY EXCEPT SUNDAY—

1:30 to 1:45 p. m. Government Weather and Market Reports—485 Meters.  
6:00 to 6:15 p. m. Government Weather and Market Reports—485 Meters.



**A Four Tube  
Set For  
\$57.75**

### CROSLEY MODEL X

**T**HIS outfit is one of the best values we have ever offered. Consists of one stage of tuned radio frequency, detector, and two stages of audio frequency amplification. It eliminates local interference to a wonderful degree and static is reduced to a minimum. No experience is required to enable a person quickly to tune in broadcasting stations to a maximum volume.

*Cabinet, solid mahogany, Adam brown piano finish, and engraved formica panel.*

**LONG DISTANCE RECEPTION GUARANTEED**

**Model 10, set only.....\$ 57.75**  
**Model 10, set complete with tubes, batteries, headphones and aerial..... 115.00**

*Howland & Dewey Co.*

**EASTMAN KODAK COMPANY**

**510 SOUTH BROADWAY  
LOS ANGELES**

**545 MARKET STREET  
SAN FRANCISCO**

**K L S—Warner Brothers**

OAKLAND, CALIFORNIA

**DAILY EXCEPT SUNDAY—**

11:30 to 1:00 p. m. Music and special features.

Special Eastern Program by the West Berkeley M. E. Church

12:00 to 1:00 p. m. **EDDIE SOGUE** of Oakland, Calif., will entertain the radio fans with the following numbers, on his harmonica and clappers: (1) "Silver Threads Among the Gold." (2) "Annie Laurie." (3) "Tuck Me to Sleep." (4) "Maggie." (5) "Turkey in the Straw." (6) Modley of Popular Airs.8:00 to 10:00 p. m. Special program arranged for two hours. First on program will be by the First Christian Church of Oakland, Orchestra, **C. W. MOORE**, Director. (1) "Drum Major," march; (2) "Operatu," selection; (3) "Aloe," Hawaiian waltz; (4) "When the Leaves Come Tumbling Down," fox trot; (5) "The Original," fox trot; (6) "Double Eagle," march.8:00 to 10:00 p. m. Part 2—Next on the program will be by **MRS. FLORENCE CASE SEWELL**, accompanied at the piano by **MISS BELLA ROSS**. (1) "Ill Bacio," by Arditi; (2) "O Mio Babbino Caro," by Puccinni. Part 3—A group of Old English Songs; "Boat Song," by Harriet Ware; "Ma' Lil' Batteau," by Lily Strickland; "Robin, Robin, Sing Me a Song," by Spross. Part 3—Popular Selections by the Epworth Five: **ANITA BLISS**, Piano; **JOHN MUDGE**, Cornet; **J. W. DODSON**, Saxophone; **CYRIL GHONS**, Violin; **SAM DODSON**, Drums. Part 4—**ELMER STOYTON**, Violin Soloist; **CLARENCE BERWITH**, Clarinet Solo, accompanied at the piano by **C. W. MOORE**; **MISS GERTRUDE FAWKE**, Dramatic Reading; **HARRY HOLLEDGE**, Address.**Dealers Attention**

We are exclusive distributors in Southern California for The Premier Electric Co., Grace and Ravenswood Avenue, Chicago, covering their complete line of RADIO apparatus.

In stock at all times a very substantial supply for immediate delivery as follows: Variable Condensers, Vernier "Microstat," Universal type of Plugs and Jacks, Tube Sockets, Knobs and Dials, Receivers, Transformers, Grid Condensers, "7 in 1" Variable Grid Leaks.

Discounts are most attractive and equipment is guaranteed.

**Coker Electric Supply Co.**

817 West Third Street

Phone 822-237

Los Angeles

**KENNEDY-SELECTIVITY**

Those who wish to tune in one station without interference use Kennedy regenerative receivers. For broadcasting our Type 281 is without peer.

"At Best Dealers Everywhere"

**COLIN B. KENNEDY CORP.**

San Francisco

St. Louis

## K P O—Hale Bros. Radiophone

San Francisco, California—Class "B" Station, Operated on 400 Meters

E. J. MARTINEAU, Director of the Station  
ADA MORGAN O'BRIEN, Program Manager

### SUNDAY—

11:00 to 12:30 p. m. Radio Church Service. This is the only church of its kind in the West. It is undenominational, and is intended to meet the spiritual needs through the fundamentals of religion. Order of Service: Call to Worship. Lord's Prayer. Occasional Prayer. Reading for Shut-ins. Reading of truth. Selections of Classical Music. Address. Popular hymns and other musical selections. GEORGE R. CHAMBERS, Minister in charge. Church Organ: GLADYS SALISBURY.

### TUESDAY—

8:00 to 10:00 p. m. Classical music program.

### THURSDAY—

8:00 to 10:00 p. m. Semi-classical program.

### SATURDAY—

8:00 to 10:00 p. m. Dance music and instrumental solos. The organ for which this station is famous will be part of the program.



JACK



## FRANK AND CAL SAY—

To their many customers and supporters, to come and visit their new Store No. 2 at 7237 Santa Monica Boulevard, opposite the Fairbanks-Pickford Studios. Manager Jack has a smile and treat waiting everyone.

Store No. 1  
Goodman's Department Store  
Seventh and Hill Streets  
Los Angeles

Store No. 2  
7237 Santa Monica Boulevard  
Los Angeles

"If we haven't got it, we'll get it."—"The Originators, Not the Imitators."

**K G W—The Morning Oregonian—Class B**

Owned and operated by The Morning Oregonian, Portland, Ore. Operated on 400m

**SUNDAY—**

6:00 to 7:00 p.m. UNIVERSITY OF OREGON GLEE CLUB.  
 7:00 to 8:00 p.m. The Music Department of the Franklin High School will present  
 Gilbert Sullivan's Opera: "The Gondoliers."

**MONDAY—**

3:30 to 4:00 p.m. Woman's programme given by the Portland Library Association.  
 8:00 to 9:00 p.m. Joint recital by PHYLLIS WOLFE, Soprano, and MARY BULLOCK,  
 Pianist.  
 9:00 to 10:00 p.m. One-act play, RUBY PAGE FERGUSON (Mrs. Anthony Euwer), MR.  
 ANTHONY EUWER and others.  
 11:00 to 12:00 p.m. Regular semi-weekly meeting of the Hoot Owls.

**TUESDAY—**

3:30 to 4:00 p.m. Woman's programme. H. C. BOYDEN, "Concert and Woman's  
 Responsibilities."

**WEDNESDAY—**

3:30 to 4:00 p.m. Children's programme. Music by pupils of MISS KATHERINE KERN  
 and stories for tiny tots by AUNT NELL.  
 8:00 to 9:00 p.m. Concert arranged by MISS HELEN HARPER.

**THURSDAY—**

3:30 to 4:00 p.m. MRS. EVELENE SPENCER will discuss humorously "How to Manage  
 a Husband."

**FRIDAY—**

3:30 to 4:00 p.m. MISS MARGERY M. SMITH of the Oregon Agricultural College will  
 lecture on "Nutrition."  
 7:00 to 7:30 p.m. University of Oregon Extension Course Lecture, PROFESSOR O. F.  
 STODDARD, Head of Department of Chemistry, on "Wood Waste Utilization."  
 8:00 to 8:15 p.m. MISS TOINI WEST, Lyric Soprano, Finnish Soprano.  
 8:15 to 9:00 p.m. GEORGE OLSEN and his Orchestra of the Portland Hotel.  
 11:00 to 12:00 p.m. Regular semi-weekly meeting of the Hoot Owls.

**SATURDAY—**

3:30 to 4:00 p.m. Children's Hour. Music by pupils of MISS KATHERINE KERN.  
 Stories by AUNT NELL.

**REAL S-E-R-V-I-C-E**

We are equipped to make on your receiver alterations or additions necessary  
 for better results.

\*\*\*\*\*

ASK US ABOUT YOUR SET

See us at 1302 South Hoover Street or telephone us at Wilshire 9634

**SOUTHERN CALIFORNIA RADIO CO.**

F. G. ALBIN

Personal Service

B. D. ALBIN

100% Radio Corporation and Western Electric Products  
 Radiola IV Radiola V Western Elec. R. C.

We carry a complete line of radio apparatus, and courteously suggest you allow us to  
 install a set in your home, on trial, with no obligation  
 whatsoever. We desire to please you.

**THE RADIO DEN**

OPERATING KFAW

W. B. Ashford

Tel. 1054W

H. T. White

Grand Central Market, 115 North Broadway, Santa Ana, Calif.

## K D Y L—Salt Lake Telegram Radiophone

Owned and Operated by the Salt Lake Telegram, Salt Lake City, Utah

RAY W. DUNDAS, CHARLOTTE TREVILLYON, GRACE PRICE, MARTHA SMITH JENSEN,  
STELLA PAUL BRADFORD and LARINDA P. BREWERTON, Concert Managers.  
IRA KAAR, Engineer. 360 Meters for Music, Voice, Musical Numbers  
and Press Notes. 485 Meters for Weather Reports.

### DAILY EXCEPT SUNDAY—

6:00 to 7:00 p. m. (Pacific time). Monday, Wednesday and Friday the program is under the direction of Mr. Dundas; Tuesday it is conducted by Miss Trevillyon and on Saturday by Miss Price. The Thursday program is vaudeville talent.

Lyon & Healy Reproducing Piano, courtesy of ROBINSON BROS. MUSIC CO.

## K Z N—The Deseret News Radiophone

Owned and Operated by the Deseret News, Salt Lake City, Utah  
(Pacific Time)

### DAILY EXCEPT SUNDAY—

3:00 to 4:00 p. m. News Bulletins and Concert.  
7:00 to 8:30 p. m. Vocal and Instrumental Numbers. Bedtime Story and Latest Sport News.

NOTE—Special Lectures and Educational features are also included in evening programs whenever obtainable.



# RADIO



*[ "We ask no price for trained advice" ]*

## Look to the Future!

In purchasing radio equipment it is safer to invest in standard, nationally advertised, proven equipment. We suggest

**Grebe**

**Radio Corporation**

1. Westinghouse

2. General Electric

**Western Electric**

**Kennedy**

**B. H. Dennis—6ZN**

**Oliver S. Garretson—6ZAL**



## K J S—Bible Institute Radiophone

Owned and operated by Bible Institute of Los Angeles, Inc.

M. E. Carrier, Manager Radio Department

Telephone Main 9293

### SUNDAY—

11:30 a.m. Morning Service Church of the Open Door. DR. CORTLAND MYERS, Sermon. THE HARMONY MALE QUARTETTE. MRS. IRVIN FALLIS, Soprano Solo.

6:00 p.m. Verper Service. REV. KEITH L. BROOKS, Radio Sermon. Vocal Solos, MISS HOPE HEPBURN, Soprano. Instrumental Solo (Baritone) MR. BROOKS.

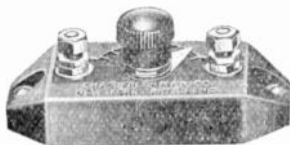
8:00 p.m. Evening Service Church of the Open Door. DR. CORTLAND MYERS, Sermon. THE HARMONY MALE QUARTET. MR. C. M. BOOKS, Bass Solo.

### TUESDAY—

7:30 to 8:00 p.m. MISS ALICE CANNON, Saxophone Solos. MISS LEONA DAVIS, Organist. MR. SAMUEL PETTIGREW, Baritone.

### THURSDAY—

8:00 to 9:00 p.m. Program arranged by C. W. HARSIN. Quartette, "Praise the Lord," Molitor; S. E. HARVOUT, Tenor; MISS MARY TEITSWORTH, Soprano; MRS. INEZ HARVOUT, Contralto; C. W. HARSIN, Bass; MRS. HAROLD KOUMORIAN, Organist. Solo, "If God So Clothe the Grass," Bischoff, C. W. HARSIN. Organ, Selected. MRS. KOUMRIAN. Solo, "The Mighty God Hath Spoken," Case, MISS MARY TEITSWORTH. Quartette, Gospel Song, Selected. Duet, "Just Outside the Door," Ackley, MR. AND MRS. S. E. HARVOUT. Solo, "God Shall Wipe Away the Tears," Harker, MISS MARY TEITSWORTH. Solo, "When I Walk with the King," MR. HARVOUT. Quartette, "Oh Praise the Lord," Pattison. Solo, "The Lord is My Shepherd," Curran, MR. HARSIN.



### *Variable Grid Leak and Condenser Combined*

Takes the place of a grid condenser, mounting and a grid leak, and in addition permits an adjustment of the correct amount of resistance.

*Increases Signal Strength—Eliminates Hissing  
Lowers Filament Current—Increases Battery Life*

**Price Complete \$1.00**

Distributed by

716-738  
South Broadway

***Barker Bros.***

Los Angeles  
California

**Radio Department**

## K F B K—Kimball-Upson Co.—Class A

Operated in Conjunction With the Sacramento Union  
Sacramento, California

Hugh R. Sprado, Director of Station—Fred M. Rice, Program Manager

### DAILY EXCEPT SUNDAY—

3:00 to 4:00 p. m. Organ recitals and educational features.

6:00 to 6:45 p. m. Weather forecast and code practice, daily. Educational features, government reports, auto and outing information, irregularly.

### WEDNESDAY AND SUNDAY—

8:00 to 9:30 p. m. Vocal and instrumental program. Organ recital.

### SUNDAY—

10:00 to 11:00 a. m. Church services. For all denominations co-operating through the Sacramento Church Federation.

### DEALERS, ATTENTION

## Victory Grantone

### Amplifying Loud Speaker No. 525

This unit has no equal in the entire radio industry.

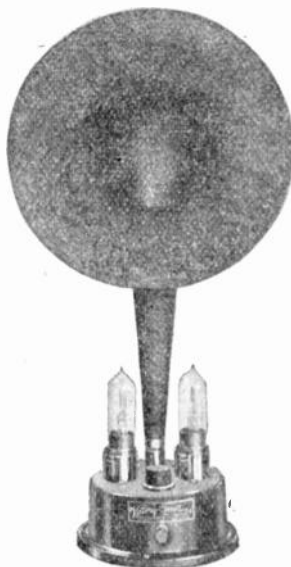
Contains besides two stages of audio frequency amplification a super sensitive loud speaking element with heavy mica diaphragm adjusted to give a true natural mellow tone, which can be controlled from a soft audible sound to a mighty volume.

Horn is of durable wood fibre composition designed on best acoustic principles.

A Victory Selector Jack with automatic filament control gives one or two stages of amplification.

No storage battery; works on two dry cells.

Price without tubes  
\$37.50



*Victory Grantone*

No. 525

Write for our attractive merchandising proposition

## Victory Radio-Electro Co.

559-561 Howard Street

Douglas 9099

## Victory Grantone

### Loud Speaker No. 530

They are the best value on the radio market.

Has same sensitive heavy mica diaphragm loud speaking element as our Amplifying Loud Speaker. Faithfully reproduces in a natural mellow tone, without distortion or rattling, the finest notes from near and distant stations. Free from all metallic sounds. Designed for use on one or two stages of audio frequency amplification.

The horn is wood fibre composition, designed on best acoustic principles for perfect clarity and maximum volume. Neatly finished with crystallized black enamel. Furnished complete with cord.

Better one cannot be bought for three times the price. Fully guaranteed.

Price complete, \$16.50  
Horn with base and phone adapter \$8.00

San Francisco, Calif.

## K U S—City Dye Works Radiophone

Owned and Operated by the City Dye Works, Los Angeles  
Telephone South 120

### MONDAY—

7:00 to 7:30 a. m. Walter Camp's Daily Dozen.  
12:00 to 12:30 p. m. Concert.  
2:00 to 2:30 p. m. Special Program.

### TUESDAY—

7:00 to 7:30 a. m. Walter Camp's Daily Dozen.  
12:00 to 12:30 p. m. Concert.  
4:00 to 4:30 p. m. Code Practice.

### WEDNESDAY—

7:00 to 7:30 a. m. Walter Camp's Daily Dozen.  
12:00 to 12:30 p. m. Concert.  
6:00 to 6:45 p. m. Musical Program—MISS BEATRICE VANCE, Accompanist: (a) "A Merry Life," sung by the Choral Society; (b) "Welcome Sweet Springtime," sung by the Choral Society; (c) Violin selection by MISS OCTAVIA MARX; (d) "Believe Me, If All Those Endearing Young Charms," sung by the Choral Society; (e) Selection by MR. LYMAN SHEDDAN; (f) "Santa Lucia," sung by the Choral Society; (h) "My Sunshine," sung by the Choral Society; (i) Selection by MISS MAY McMULLEN.

### THURSDAY—

7:00 to 7:30 a. m. Walter Camp's Daily Dozen.  
12:00 to 12:30 p. m. Concert.  
2:00 to 3:00 p. m. Ariograms.

### FRIDAY—

7:00 to 7:30 a. m. Walter Camp's Daily Dozen.  
12:00 to 12:30 p. m. Concert.  
2:00 to 2:30 p. m. Special Program.  
4:00 to 4:30 p. m. Code Practice.  
6:00 to 6:45 p. m. Musical Program—MISS BEATRICE VANCE, Accompanist: (a) "The Soldier's Chorus," sung by the Choral Society; (b) "Last Night," sung by the Choral Society; (c) Selection by MR. P. P. MOORE; (d) "My Old Kentucky Home," sung by the Choral Society; (e) Selection by MISS EMMA NALEWAJA; (f) "Sweet Adeline," sung by the Choral Society; (g) Harmonica Selections by MR. LAWRENCE OLSON; (h) "Dixie," sung by the Choral Society; (i) Elocutionary selection by MISS KATHERINE HEMISTRA.

### SATURDAY—

7:00 to 7:30 a. m. Walter Camp's Daily Dozen.  
12:00 to 12:30 p. m. Concert.  
6:00 to 6:45 p. m. Special Program.

## Radio K U S Sings a Spring Song—

Spring housecleaning is much different now than in the old days. The old carpet beater has taken its place in the world's junk pile along with the "coal oil lamp" and the "horse and buggy." Today women are having their

### Rugs and Carpets Cleaned by the Jenkins Process

This service is no farther away than your telephone. Phone South 120 or 270-71—and the City Dye Works men will be on hand when you want them.



Uptown Store, 417 W. 14th  
St. Branch Stores: 224 E.  
Western Ave.; 6529 Holly-  
wood Blvd.; Pasadena, 300  
E. Colorado; Long Beach, 4  
Pine Ave.; Ocean Park, 100  
Pier Ave.

## W O C—Palmer School of Chiropractic—Class B

DAVENPORT, IOWA  
Class B Station, 400 meters

Pacific Time

### SUNDAY—

- 7:00 a. m. Sacred Chimes Concert.  
11:45 a. m. Concert selections by the P. S. C. ORCHESTRA.  
4:00 p. m. Pipe Organ Concert, ERWIN SWINDELL, Organist.  
5:00 p. m. Church Service. F. A. SWORD, the "Return Date" Evangelist of Lanark, Ill.  
Subject: "Home—Your Home, My Home, and the Other Fellow's Home."  
6:00 p. m. Musical Program (2 hours), P. S. C. ORCHESTRA.

### MONDAY—

- 12:00 m. Closing Stocks and Markets.  
1:30 p. m. Educational Talk by C. A. RUSSELL.  
3:45 p. m. Chimes Concert.  
4:35 p. m. Sandman's Visit.  
5:00 p. m. Artist Musical Program, ERWIN SWINDELL, Musical Director. Program by COE COLLEGE GLEE CLUB of Cedar Rapids, Iowa.

### WEDNESDAY—

- 6:00 p. m. Educational Lecture, "The Washing Machine Reducing the Family Budget," by SAM T. WHITE, President of the White Lily Mfg. Co., Davenport, Iowa.  
6:30 p. m. Educational Lecture—In Greek language, in commemoration of Greek Easter. Speaker is K. LIGEROS, a P. S. C. student.

### THURSDAY—

- 5:00 p. m. Musical Program, ERWIN SWINDELL, Musical Director. Concert by MT. IDA PRESBYTERIAN CHURCH CHOIR of Davenport, Iowa.  
8:00 p. m. Artist Musical Program, ERWIN SWINDELL, Musical Director. Program is furnished by EWEDISH BAPTIST CHURCH CHOIR of Moline, Ill.

### FRIDAY—

- 5:00 p. m. Artist Musical Program, ERWIN SWINDELL, Musical Director. Musical program and evening educational lecture furnished by the Rock Island (Illinois) Chamber of Commerce.  
12:00 m. Closing Stocks and Markets.  
1:30 p. m. Educational talk by C. C. FLANAGAN.  
3:45 p. m. Chimes Concert.  
4:35 p. m. Sandman's Visit.  
5:00 p. m. Musical Program by the P. S. C. ORCHESTRA.

### SATURDAY—

- 12:00 m. Closing Stocks and Markets.  
1:30 p. m. Educational talk by C. C. HALL.  
3:45 p. m. Chimes Concert.  
4:35 p. m. Sport News.  
4:35 p. m. Sandman's Visit.  
5:00 p. m. Musical program, ERWIN SWINDELL, Musical Director. GIRLS' GLEE CLUB of Penn College.  
6:00 p. m. Educational Lecture, "America and Her Wonderland, the Yellowstone Park," by CHAS. A. PAYNE, world traveler and special lecturer for the University of Minnesota.  
7:30 p. m. Dance Program (one hour) P. S. C. ORCHESTRA.



|                                                           |        |
|-----------------------------------------------------------|--------|
| The new Westinghouse Storage "B" Battery, 22½ Volts ..... | \$8.50 |
| Guaranteed Federal Head Phones.....                       | \$4.45 |
| Cunningham C301 Amplifying Tubes.....                     | \$5.50 |
| .006 Flewelling Micadons.....                             | 75c    |
| Frost Loose Couplers.....                                 | \$8.50 |
| New Small Spider Web Coils.....                           | 80c    |
| Special Rotary Switch .....                               | 25c    |

## THE RADIO STORES COMPANY

348 South Spring Street, Near Fourth, Los Angeles

HOME OF THE RADIOLA

Call Here For Your Weekly Copy of RADIO DOINGS—FREE

## W M A Q—Chicago Daily News-Fair Station

CLASS B STATION, 400 METERS—PACIFIC TIME

### MONDAY—

2:35 p. m. Program arranged by the COLUMBIA SCHOOL OF MUSIC.  
5:00 p. m. Monday is "silent night"—no evening program.

### TUESDAY—

2:35 p. m. Program arranged by the BUSH CONSERVATORY OF MUSIC.  
5:00 to 6:00 p. m. The Weekly Babson Report. EDGAR LEE MASTERS, Pres. ROBERT B. HARSHE, Director of the Art Institute School of Art, will talk.

### WEDNESDAY—

2:35 p. m. Program arranged by the COSMOPOLITAN SCHOOL OF MUSIC AND DRAMATIC ART.  
5:00 to 5:30 p. m. MISS GEORGENE FAULKNER, the Story Lady, stories for children.  
7:15 to 8:00 p. m. MRS. CLARA M. SCHEVILL, Soprano.

### THURSDAY—

2:35 p. m. Program arranged by the LYCEUM ARTS CONSERVATORY.  
5:00 to 6:00 p. m. Talk on Boy Scouts. Price Trio, Steel Guitars.  
7:15 p. m. Program to be announced, arranged by the COSMOPOLITAN SCHOOL OF MUSIC AND DRAMATIC ART.

2:35 p. m. Program under direction of BERTHA L. ILES, President of the Academy of Dramatic Education.  
5:00 to 5:30 p. m. MRS. MARX E. OBERNDORFER, on "Hearing America First." One of a series.  
7:15 p. m. ESTHER SOPKIN, Pianist, and the SOPKIN STRING QUARTET.

5:00 to 5:30 p. m. Talk on Red Cross by CAPT. HIATT.  
7:15 p. m. Talk on the "Plan to Plant Another Tree" Campaign. The PARK-KOSTNER BAND.

## K Y W—Westinghouse, Chicago—400 Meters

DAILY BROADCASTING SCHEDULE

7:25 a. m. Opening market quotations, Chicago Board of Trade.  
8:00 a. m. Market quotations, Chicago Board of Trade, quotations every half hour thereafter until 10:00 a. m. (with the exception of Wednesday, when the final quotations will be given at 10:00 a. m.)  
9:30 a. m. Table talk, domestic science discussion by MRS. ANNA J. PETERSON, of the Peoples Gas Company.  
11:20 a. m. Closing market quotations, Chicago Board of Trade.  
12:30 p. m. Closing quotations, Chicago Stock Exchange.  
1:00 p. m. News and Sports.  
3:00 p. m. News and Sports.  
4:30 p. m. News, financial and final market and sport summary. "Topics of the Day," furnished by PATHE EXCHANGE (Mondays only.)  
4:50 p. m. Children's Bedtime Story by UNCLE BOB CAMPBELL.  
6:00 to 7:00 p. m. Musical Program (see daily program.)

### TUESDAY—

12:35 to 1:00 p. m. Afternoon concert furnished by LYON & HEALY CO. This concert is broadcasted from the Lyon & Healy Concert Hall.

### WEDNESDAY—

11:00 to 12:00 m. Talks given by speakers of international and national repute, at the Chicago Association of Commerce Luncheon, broadcasted from the LaSalle Hotel.

### THURSDAY—

12:35 to 1:00 p. m. Afternoon concert furnished by LYON & HEALY CO. This concert is broadcasted from the Lyon & Healy Concert Hall.  
7:05 to 7:25 p. m. "Twenty Minutes of Good Reading," by REV. CLAUDE J. PERNIN, S. J., Head of Department of English Loyola University.

### FRIDAY—

7:05 to 7:25 p. m. Reviews of the latest books given by LLEWELLYN JONES, Literary Editor of the Chicago Evening Post.  
9:30 to 11:00 p. m. Midnight Show.

### SATURDAY—

7:05 to 7:25 p. m. "Under the Evening Lamp" service, including stories, articles and humorous sketches. This service is furnished by the Youth's Companion.

### SUNDAY—

9:00 to 10:30 a. m. Central Church Services, DR. FREDERICK SHANNON.  
1:30 to 2:30 p. m. Chapel Services, various leading pastors.  
5:00 to 7:00 p. m. Sunday Evening Club, speakers of national repute.



## “Out of the Air”

By LISTENER-IN

KHJ, beginning with Monday, will start their “Ten Nights in a Broadcasting Room.” We told you of this in our issue of March 25th, and are now glad to be able to give a few more particulars. As previously stated, one night each will be devoted to the following countries in the order named, and on these nights the numbers broadcasted will be typical of the country represented, both as to music, readings and artists. We believe this will be very interesting to the listener-in, and, we think, has never before been attempted. England will be the first on the program, starting on Monday. Wales will follow on Tuesday. Russia was to have taken Wednesday, but, owing to certain of the artists being otherwise engaged, this program will be deferred to another evening to be announced later. Thursday will be Spanish and Mexican night; Friday, French; Saturday, the anniversary of KHJ, American; Sunday, Scotch; Monday, April 16th, Italian; Tuesday, German, and, lastly, China on Wednesday. The national anthem of the country represented will close the program each evening.

In connection with the English night at KHJ, Monday, April 9th, an attempt will be made to have Lord Robert Cecil, who is now in the East, telephone a message to Los Angeles which will be broadcasted direct from the wire over KHJ. Lord Robert Cecil is the foremost English advocate of the League of Nations.

W. L. Abdill of Mount Wilson reports most excellent results for long distance reception. DWZ, Havana, Cuba; WHA, Madison, Wis.; WDAP and WGAL, both of Chicago, are amongst those he has recently heard. Of course, he is situated in an ideal location for hearing long distance, but we think he has done good work. Listener-in has received an invitation to visit Mr. Abdill on his mountain and is looking forward to hearing some of these far distant stations.

We are glad to welcome KNX back on the air. This station is owned and operated by the Electric Lighting Supply Company of Los Angeles and will feature the music from the California Theatre. This station has been entirely reconstructed and has installed special instruments for broadcasting instrumental music, which, we understand, is being used for the first time. The California Theatre has a very fine organ and an exceptional orchestra under the leadership of Carli Elinor. This will furnish great entertainment for us listeners-in.

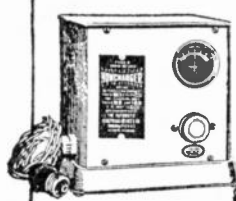
A countrywoman and her husband were going around the Zoo for the first time in their lives. One marvel succeeded another, but when they came to the kangaroos, wonder finally overwhelmed them, and they stared and stared and stared. The woman turned to an attendant close by and asked, “What are they, sir?” “Kangaroos, ma’am. Natives of Australia.” “Heavens! Did my sister marry one of them things?”

KFDB, the Mercantile Trust Company of San Francisco, have resumed broadcasting. This station has been entirely reconstructed and greatly improved.

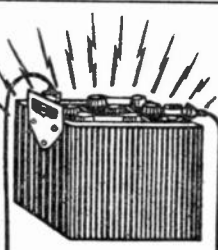
WOAW, Omaha, Nebraska, owned and operated by the Woodmen of the World, the latest to enter the Class B list, is now on the air. Their time is from 7 to 8:30 daily, except Sunday. They are broadcasting on 400 meters.

## "Homcharger" Deliveries Are Now Being Made

Send Your Orders In



**HOMCHARGE YOUR**  
**RADIO**  
**BATTERY FOR A NICKEL**  
**THE**  
**HOMCHARGER**



### The New Type "R De Luxe" Homcharger Has Arrived Price \$18.50 Complete

Compare the following specifications with that of any other Battery Charger and judge for yourself:

- 1—Approved Porcelain Fuse Receptacle, taking a standard fifteen ampere Edison Plug Fuse. Beware of rectifiers using a special fuse, obtainable only from manufacturers at a high cost, and probably not approved by the Underwriters.
- 2—Rubber Feet prevents injury to polished surfaces.
- 2—Soft Rubber Silencers insure almost noiseless operation.
- 4—Oversized Closed Core Transformer of genuine Silicon Steel—Compare this construction to rectifiers using inferior, un-scientifically designed and inefficient open core transformers.
- 5—Terminals for charging B-Battery are provided.
- 6—Has only one moving and wearing part; these replaceable as a unit as easily as inserting a new fuse. This patented unitary vibrator construction, which is not found on any other battery charger accounts in a large measure for the wonderful popularity of the HOMCHARGER.
- 7—One-piece Pressed Steel Base. Beautifull finished in dull gold. Strong, light and unbreakable.

### NO FIRE HAZARD

Your insurance policy may be nullified through the use of electrical apparatus not passed by the Underwriters.

The RADIO HOMCHARGER DE LUXE has been subjected to severe tests in the Laboratories of the National Board of Underwriters, and is listed as an approved device by them and the Ontario Hydro-Electric Power Commission of Canada.

#### DEALERS GET OUR PROPOSITION

*Homcharger Repair Parts carried in stock—Service on other types of Rectifiers.*

|                         |         |
|-------------------------|---------|
| ...Homcharger (cycles:) | \$18.50 |
| ...Autostat             |         |
| (Bulletin 646)          | \$1.35  |
| ...Grigsby Switch       | \$1.35  |
| ...Variable Gridleak    | \$1.25  |
| ...Variable Condensor   |         |
| (23 plate)              | \$3.00  |
| ...Variable Condensor   |         |
| (same with vernier)     | \$5.00  |
| ...Variable Condensor   |         |
| (43 plate)              | \$4.00  |
| ...Variable Condensor   |         |
| (same with Vernier)     | \$6.50  |
| ...Flewelling Adapter   | \$4.50  |

### RADIO EXCHANGE AND SERVICE,

316 American Bank Building  
Second and Spring Streets, Los Angeles, California.

Please send me articles checked on side, for which I enclose \$\_\_\_\_\_ (To avoid delay, please use Drafts, Cashier's Checks or Postal Money Orders.)

Name \_\_\_\_\_

Address \_\_\_\_\_

Phone \_\_\_\_\_ City \_\_\_\_\_

**The New Complete  
Radio Loud  
Speaker  
of Perfect Tone**



**The Trutone, Sr.  
Price \$25.00**

The TRUTONE SENIOR Loud Speaker marks a revolutionary change in the construction of radio amplifying horns. Manufactured from Seamless Non-Metallic Composition and having a wooden tone chamber in the base, each tone coming from the TRUTONE horn is soft, true, clear and resonant and with a maximum volume of sound.



The speaking unit of the TRUTONE, SR., contains a mica diaphragm, and is manufactured for us by Nathaniel Baldwin, Inc., each unit being guaranteed. It is finished in black crystalline enamel. An artistic instrument of quality. Size 32 inches high, 14-inch bell.

**An artistic instrument of  
Quality and Price**

**Size:  
32 inches high  
14-inch bell**

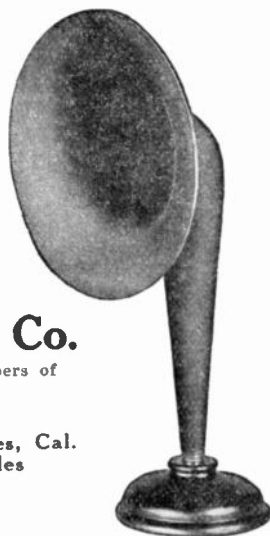


**McKillen Bros. & Co.**

Manufacturers, Distributors and Jobbers of

**Radio Supplies**

San Fernando Bldg., Los Angeles, Cal.  
San Francisco      Los Angeles  
Seattle



**Trutone Jr. Type A**

is designed for ready reception of both receivers without removal of Head Band. The diameter of the bell is 12 inches, making the horn 24 inches.

**Price \$8.00**

**Trutone Jr. Type B**

is designed for single receiver, "Baldwin" or others. The diameter of the bell is 12 inches, making the horn 22 inches high.

**Price \$8.00**