

# RADIO DOINGS

RED BOOK OF RADIO

10¢  
WEEKLY

*The Radio Authority  
of the  
Pacific Coast*



Jack Lembke's Hollywood Roof Orchestra—KFWB

Vo. XI

DECEMBER 4-10, 1927

No. 23

# The New "A.C."



## A Revelation in Tone Quality Performance, Simplicity

Your Dealer will be glad to  
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The name SONORA  
is your guarantee of  
perfect musical  
performance!

Prices:  
\$69.50 to \$375.00

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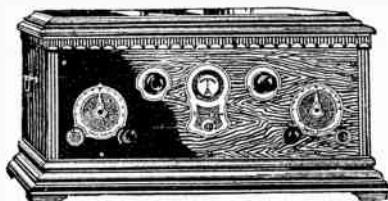
**Western Radio**  
INCORPORATED  
of  
CALIFORNIA  
DISTRIBUTORS OF  
NATIONALLY ADVERTISED RADIO  
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For Information  
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# Stromberg-Carlson

It  
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radio receiver.

Stromberg is individual in its  
expression of true radio performance.



After you have heard what you consider the  
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## Western Radio

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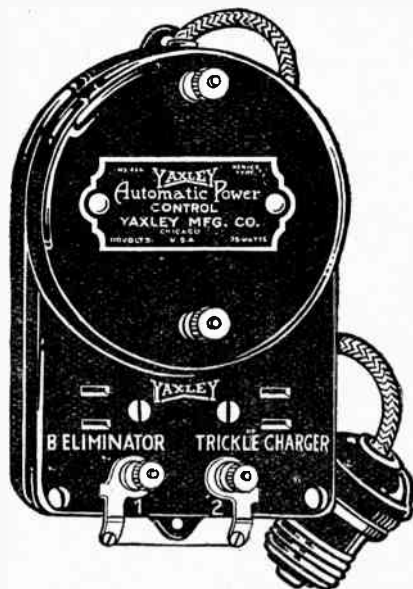
of  
CALIFORNIA

DISTRIBUTORS OF  
NATIONALLY ADVERTISED RADIO  
MERCHANDISE

Sonora  
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# Christmas!!



The  
**YAXLEY**  
APPROVED RADIO PRODUCTS  
 Automatic  
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## Makes an Ideal Present

We have a special Christmas stock, attractively wrapped in holly paper, with Xmas seals.

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Let us help you make this a Yaxley Power Control Christmas.

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# Radio Doings

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Vanderbilt 4661

407 E. Pico St., Los Angeles, Cal.  
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Hearst Building

## "The Red Book of Radio"

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(Entered as second-class matter, No. 25, 1922, Los Angeles, Cal., Post Office, under Act of March 3, 1897.)  
Copyright, 1923, by Horwood Publishing Co.  
Issued Weekly. Ten Cents a Copy, Three Dollars a Year. Canada and Foreign Countries, \$3.50 per Year.

Vo. XI Los Angeles

DECEMBER 3, 1927

San Francisco No. 23

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## ANNOUNCEMENT!

Due to the entirely unexpected flood of new subscriptions that are still coming in requesting the leatherette binder, we are practically compelled to reopen this popular subscription offer.

With each new yearly subscription sent in on a coupon similar to the one below, an attractively imprinted leatherette binder for keeping the weekly technical manual series will be sent without cost. The series is well worth keeping and the binder worth getting. Send in your subscription now!

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Address.....



RCA RADIOLA 16  
Less accessories  
\$69.50  
With Radiotrons  
\$82.75

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MUtual 2335

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TRinity 2303

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#### Highland Park

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GARfield 3912

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WHitney 7312

Hollywood Music Co.  
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RCA RADIOLA 30-A  
Complete with  
Radiotrons  
\$495

Buy  
with  
Confidence



Where You  
See  
This Sign

# RCA Radiola

MADE BY THE MAKERS OF THE RADIOTRON

# Radiola Year

Victor and Brunswick for exclusive use in their finest instruments, Radiolas are recognized everywhere as the standard of the radio art.

Every Authorized RCA Dealer appreciates the privilege of handling Radiola, and adds the priceless ingredient of Conscience to his work. Listed below are just a few of the Southern California Dealers who will gladly demonstrate Radiola for you in your own home:



RCA RADIOLA 17  
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Pomona 1250

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**Venice Radio Shop**  
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Santa Monica 63544

*WATTS*

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Monday, 10-11 P.M.      Thursday, 10-11 P.M.  
Tuesday, 8- 9 P.M.      Friday, 9-9:45 P.M.  
Wednes., 10-11 P.M.      Saturday, 10-11 P.M.



RCA RADIOLA 32  
Complete with  
Radiotrons  
\$895

# RCA Radiola

MADE BY THE MAKERS OF THE RADIOTRON

# The RADIO SUPPLY CO.

"The Parts Warehouse of the West"

Is ready to fill your requirements for parts. Our stock is complete and adequate at all times.

Watch This List of Parts for Changes

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DEALERS: Park Next Door at Our Expense

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Los Angeles

New 1928 Catalogue Now Ready—Send for it

**LARGEST RADIO PARTS JOBBER WEST OF CHICAGO**





*Adventurer*  
\$12.95

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*Presents*

## New Startling Speaker Values

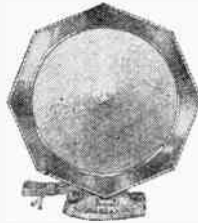


*Castle*  
\$12.95

COMPLETELY revolutionizing present day standards, TOWER offers these five new, brilliantly conceived and executed cones. Select no speaker until you see them!

See Our Window Display

No matter what design meets your fancy — sailing ship or medieval castle, popular drum or octagonal cone — there's a TOWER Speaker of highest quality to delight both eye and ear.



*Meistersinger*  
\$15.00

Each model distinctively different from the usual cone conceptions. Unexcelled in tone quality, producing a richness in tone and faithfulness of reproduction that real music lovers will at once appreciate.

We are completely stocked with the entire line of the world-famous TOWER Speakers.

*Prices Shown Are Pacific Coast Prices*



*Pirate*  
\$9.75

## RADIO SUPPLY CO.

(WHOLESALE)

912-14 South Broadway

LOS ANGELES

*Largest Radio Parts Jobber West  
of Chicago*



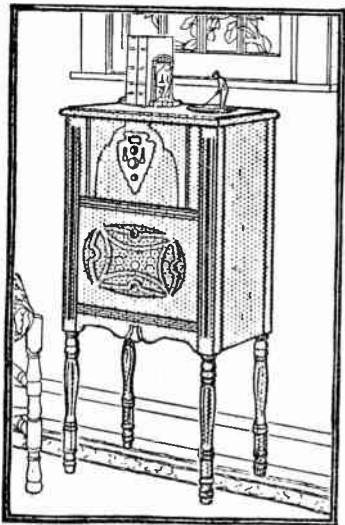
*Model "28"*  
\$17.50

# Mohawk

## One Dial Radio

Originators and Pioneers of the One Dial Radio Set . . . and  
They Still Maintain Their Leadership.

*These Reputable Dealers Will*



*The Pawnee*

This beautiful Console Model is of rich Walnut, hand rubbed, piano finish, duo tone, having built-in speaker. In a class by itself.

Price for Electric Operation (Complete) . . . **\$189.50**

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TRinity 1291

**L. A. Duncan**

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**Brown's Radio Shop**

2616½ N. Broadway  
CApitol 1349

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**Holly-Angeles Music Co.**

6611 Hollywood Blvd.  
GRanite 4876

### PASADENA

**Ashton's Radioelectric**

1762 E. Colorado St.  
Colorado 4042

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Terrace 3623

**BEAUTY -- PERFORMANCE**

# ALL ELECTRIC -- ONE DIAL RADIO

*Low in Price ~ High in Quality*

Six Tubes, Shielded... Two Stages Tuned Radio Frequency... Three Stages Audio, Using the New 226 and 227 RCA Tubes. No other Radio can offer you quite as much for prices as placed on the New Mohawk Models

*Demonstrate a Mohawk for You*

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Phone 673-285

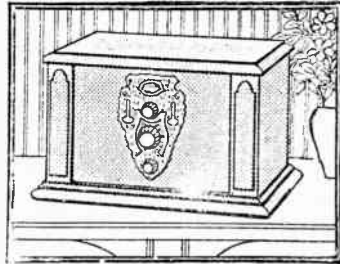
## SAN PEDRO

**Port Electric Co.**

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Phone 1990

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Hardware Co.**



### *The Navajo*

This table model of five-ply Walnut veneer, with curly Maple overlay, duo tone, beautiful in design.

Price for Electric Operation..... **\$149.50**

### *Other One-Dial All-Electric Radios*

**\$174.50—\$252.00—\$282.00  
\$367.00**

Same Models for Battery Equipment—\$77.00 less

# SIMPLICITY -- ECONOMY



Model 76 Console

# BOSCH

## Without

### Priced from

*Many Models*

Five, six or seven tube sets, all using the single station selector which insures simplicity of operation.

*See Your Nearest*

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TUcker 1728

Mattern Electric Co.  
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ATlantic 7009

##### *Southwest*

General Supply Store  
46th, cor. Western Ave.  
VERmont 6683

Nesa Radio Sales & Service  
2565 W. Pico, near Vermont  
BEacon 2723

Radio Electric Shop  
1428 W. Santa Barbara  
VERmont 7440

Wm. H. Shepherd  
4402 Avalon Blvd.  
AXridge 6925

##### *Southeast*

Manchester Radio Electric  
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DElaware 0460

##### *South*

Jenkins Radio Shop  
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THornwall 4460

##### *Hollywood*

Bob Lloyd  
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WASHington 7933

Shepherd's Radio  
7562 Sunset Blvd.  
GRanite 7482

##### *East Hollywood*

Quimby's Radio Service  
1860 N. Vermont Ave.  
OLympia 5501



*“Have You Heard the Bosch Phonograph Re-Creator?”*

# YALE RADIC

*Wholesale Distributor*  
**LOS ANGELES**

**Westmore 3351**

# RADIO

## A Peer

### \$68.50 to \$340

To Choose From

Bosch Sets may be operated direct from the light socket or with batteries or battery eliminators.



#### Model 57 Console

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Niagara 2510

Thomas & Sommerville  
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##### POMONA

Halvorson Electric Shop  
274 E. Monterey

##### SANTA BARBARA

Radio Sales & Service Shop  
924 Chapala St.

##### SANTA PAULA

The Primmer Co.  
957 E. Main St.

##### UPLANDS

Ross Auto Electric Shop  
376 Second Ave.

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F. & H. Radio Shop  
5011 York Blvd.  
GARfield 8962

#### West Hollywood

Motley Electric  
7761 Santa Monica Blvd.  
GLadstone 9602

#### GLENDALE

Broadway Radio Electric  
Willard F. Hellman  
202 E. Broadway  
GLEndale 3064

#### HUNTINGTON PARK

P. A. Dougherty  
158 South Pacific Ave.  
DELaware 4852

#### OCEAN PARK

Pier Ave. Radio Co.  
142 Pier Ave.  
Santa Monica 610-94

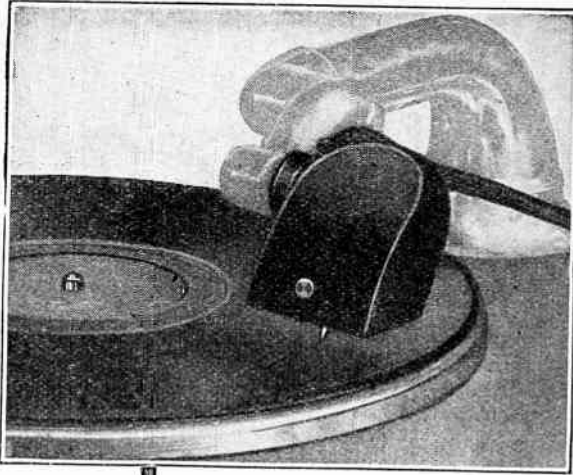
*“Have You Listened to the Bosch Ambotone Speaker?”*

# ELECTRIC CO.

*Bosch Radio Products*  
CALIFORNIA

1111 WALL STREET





Price  
**\$12.50**  
 ready  
 to  
 attach

## The Pacent PHONOVOX gives new enjoyment to your favorite records

### Dealers!

Look into this fastest selling radio-phonograph accessory! Better and more convincing loud speaker demonstrations can be made with the Phonovox. Let us tell you how.

**A**TTACH the Pacent PHONOVOX (the Electric Pick-up) to your radio and phonograph! Play one of your favorite records! The wonderful tone quality of reproduction, the greater volume, will amaze and delight you—giving you at the small cost of \$12.50 the superb reproduction equivalent to the costly electric phonograph.

And the PHONOVOX is so easily and quickly attached to your radio and phonograph without tools or making any changes in wiring. There are no adjustments to make—nothing to wear out or get out of order—and it will last indefinitely. All good radio and phonograph dealers handle the PHONOVOX. Ask for it by name and accept no substitute.

*Your dealer will gladly demonstrate the Phonovox and show you how easily and quickly it is attached without tools or changes in wiring.*

#### Representatives

J. P. HERMANS

585 Mission Street San Francisco

MARSHANK SALES CO.

224 East 16th Street Los Angeles

#### Manufactured by

PACENT RADIO CORPORATION

*Makers of the famous Pacent Cone*



# Radio Topics of the Day

*A Weekly Review of Radio News, Thought and Opinion*

## Commission Orders 25 Channels Cleared

Probably the most radical step yet taken by the Federal Radio Commission was the order for about seventy-five stations to change their frequency or time division by December 1, in order to clear twenty-five channels for better broadcast reception in the 600 to 1000 kilocycle band. There are 96 channels in the entire band, five of which are exclusively Canadian, leaving 11 still to be cleared. It is planned to accomplish this by cooperation between stations before January 1, or through hearings beginning with that date, precedent to the granting of new licenses on these channels.

In clearing the twenty-five channels, the Commission has so lined up these stations that no more than two or three stations are broadcasting on a single frequency at the same time. Where there are two stations using the same frequency at the same time, they are practically separated by the width of the continent, great disparity in power—one using high power and the other very low power, or enough time separation so that the chance of their interference is minimized.

Whether this task will be accomplished as easily as it is set forth is doubtful. In making the announcement, the Commission said that "the stations adversely affected in some instances must be martyrs to the cause of better radio." Many of the stations will probably not view the matter in

the same light. It is understood a few have already expressed their intention of asking for hearings.

However, this new plan is said to represent the Commissions' interpretation of its responsibility for providing the great listening public of America with its investment of many millions in radio receivers, an opportunity to use and enjoy good reception. So, very likely, unless a station can produce a very good reason why it should be moved to its old or a better frequency, the Commission will require it to abide by the assignment.

## Frequency Allotments Are Agreed Upon

From the highest practicable wavelength down to the "border of infinity," the whole range of radio frequencies has now been divided, definitely and officially, for the first time in history, for the use of the various international radio services. The agreement upon the allocations of frequency bands from 10 to 60,000 kilocycles (30,000 to 5 meters), is perhaps the most noteworthy accomplishment of the International Radiotelegraph Conference which met in Washington with delegates attending from 19 nations.

The spectrum has been divided into something like 60 bands, in each of which ship, aircraft, land broadcasting, amateur, and experimental stations will operate according to allotment. The designation of these bands was prac-

(Continued on Page 91)



# Peerless Reproducer

## The Fastest Selling Speaker in America

Among speakers, PEERLESS Reproducer has proved to be predominant in popularity. In a single season PEERLESS Reproducer has captured the speaker market. It is the most talked of, the most sought after speaker in America.

Its amazing results on the long lost low notes; its remarkable efficiency at all audible frequencies; the striking beauty of its classic Gothic cabinet—have won the radio public everywhere.

*Once You Hear the New Peerless  
No Other Loud Speaker Will Satisfy You*

DEALERS—Additional carload shipments in this week to supply the big holiday demand—place your requirements early.

California  
Distributors

**KIERULFF & RAVENSCROFT** California  
Distributors  
RADIO EQUIPMENT



1630-32 S. Los Angeles St.  
LOS ANGELES

121-131 Ninth Street  
SAN FRANCISCO





Through the courtesy of the Gold Seal Electrical Company of 250 Park Avenue, New York, two prizes are offered each week for the best letters to the DX Club. The first prize consists of two Gold Seal tubes. The prize winner may have his choice of one power tube of either type and one tube of either the 199 or 201A type. The second prize is one Gold Seal tube of either the 199 or 201A type. It is not always the big expensive set with the longest list of DX that wins—everybody has a chance.

## FIRST PRIZE

### DX CLUB:

Have been operating a Radiola 20 since Oct. 15, 1927, and here are the results:

JOCK, JOAK, JOBK, Japan; 5CL, 2BL, 4QG, Australia; PWX, Havana.

Have had all of the following with loud speaker volume:

California, 37 stations; Oregon, 8 stations; Washington, 12 stations; Colorado, 5 stations; Utah, 2 stations.

Also the following: WOOD, KFAD, KFAU, CNRV, KMOX, WOAI, WGN, KDKA, WSMB, KSEI, WSM, WLS, CKLC, WBBM, KOB, KWKH, WEAR, WTAM, WCCO, CFYS, WLW, CFCN, CJCI, WJZ, WOS, WBAP, WFAA, WOW, CHCY, CJCA, KYW, KSD, and WCAO, a 250-watter in Baltimore.

Hoping to hear more from Radiola 20 operators.

I remain,

OTTO H. KOLL,  
3038 56th Ave.,  
Oakland, Calif.

## SECOND PRIZE

Los Angeles, Nov. 19, 1927.

### DX CLUB:

A story has been running in my mind of the conversation of two radio nuts about the meaning of the term "DX." The first nut had been presented with a copy of Radio Doings by the salesman, who sold him his set, and he had been reading the DX page. He asked his friend what it meant. His friend replied, "What! Do you mean to say that you do not know what DX means?"

You're sure a dumbbell. I found out what that meant before I had owned my set a week. Any boob ought to know that DX means D—Xasperating."

That's about all it meant to me until quite recently. I had brought in stations on the loud speaker as far East as Ames, Iowa, as far South as Shreveport, La., and as far North as Vancouver, Canada, and had a few scattered around in the Western and Pacific Coast states. However, these, to my mind, did not constitute DX. Last week I rebuilt my aerial, overhauled my set and had headphones installed, and decided to go after DX. My equipment is a 6-tube No. 20 Gilfillan, Western "B" eliminator, Exide "A" and Preston ground, and I have out 56 feet and 3 inches top wire, with 39 feet lead-in.

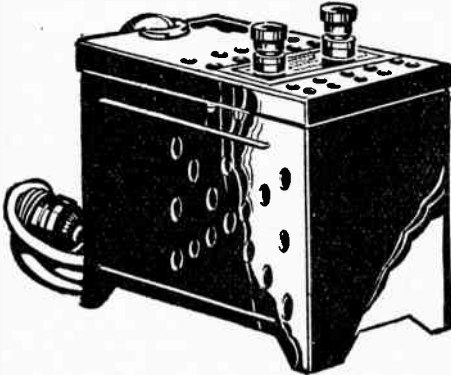
Mr. K. G. Ormiston had said in one of his recent articles that West Coast fans could bring in far-eastern stations between 5 and 7 P. M., so I had the old set all cocked and primed and ready to shoot at 5 P. M. As the clock struck five I snapped her on and within not over a minute had brought in KDKA, Pittsburgh, Pa. I almost fell off my perch on the arm of the Davenport. I guess I must have had a wild look in my eyes as my wife soon after suggested that we go out for a little ride. We got in late that night, but at 11:20 I tiptoed out and snapped on the radio again and brought in WBBM, Chicago, good and loud. That's a real station. They were getting telegrams from all over the U. S. At midnight my wife discovered me—and I went back to bed right then and there.

I have been working nights at the office ever since, and have had no chance to try it out again. Things are

(Continued on Page 106)

**BT Counterphase 8—World's Greatest Radio—Sold with a Distance Guarantee. H. A. Everest, 1032 North Ogden Dr. GRanite 9915.**

# Absolutely DRY Trickle Charger!



**\$11<sup>00</sup>**

*Complete*

**No Acids, Liquids or Bulbs—  
Made entirely of metal—absolutely noiseless!**

The new KUPROX Trickle Charger is absolutely dry! It contains no acids or liquids . . . it uses no bulbs . . . it is noiseless in operation. You never have to water or bother about it . . . does away forever with all the muss and worry of wet, acid-filled electrolytic chargers.

*Western Office*  
**318 San Fernando Bldg.  
Los Angeles  
VAndike 3269**

**BERTRAM SMITH**  
Western Sales Manager

The KUPROX Trickle Charger is metal throughout . . . a simple series of metal KUPROX discs riveted together. There is nothing to wear out, nothing to get out of order or to replace. You simply attach it to your battery and forget it. it's full 1-ampere charging rate (almost twice as high as other trickle chargers) keeps your battery always in tip-top condition. Only \$11.00 at your yearest radio store.



**KUPROX Replacement Unit**  
replaces the acid jar on  
trickle chargers. Makes any  
standard charger dry . . .  
eliminates watering. Price \$4.50

THE KODEL RADIO CORP., 512 E. PEARL ST., CINCINNATI, OHIO

# KUPROX

# Your Page

## HOW SHALL WE SAY IT?

Editor, Radio Doings:

Los Angeles is rapidly becoming a center of culture and art. Its climate and romantic associations are attracting the elite of the professional and scientific world into its fold. Is it not about time that radio broadcast as one of the most influential agencies for wide dissemination of knowledge and as a possible educational force should assume its great responsibility and assist in every way possible in broadcasting the charm and romance of our fair city.

Why this diverse and often slovenly pronunciation of the name Los Angeles? Go up to the Plaza and read the inscription over the portal of old Mission. Look up the dictionary and find that it rhymes with "sang." At one time there was a movement to give it a dainty touch of Latin and pronounce it Los Angeles, but this had an untimely passing. What spirit of vandalism possesses our tree uprooters and other destroyers of the charm and romance of the old Spanish days, which are amongst our most attractive features and choicest possessions? Anglicize Santa Maria, San Diego, Monterey, La Jolla!!

If "announcing" is to become an honored profession, it should be taken seriously and responsibility assumed. Announcers should get together and decide these matters, calling in professional authority where necessary. With our universities and scientific experts at hand there should be no excuse for mumbling or mis-pronouncing proper names and technical terms.

Very truly yours,

ARTHUR BLAKELEY.

## RAPS LAZY ANNOUNCERS

Editor, Radio Doings:

This is a bawling out, not for any one station, but several in general. I am one of the many B. C. L.'s, who likes to determine the distant power of my set.

Every degree of the dial, from 10 to 35, means a station, then about every third degree up to 82, another.

On the lower degrees, with four or more stations broadcasting in a channel, the listener does not know which station he has unless the announcer is on the job. The other evening a station was booming in and I thought it was a 'Frisco local, but the announcer was on the job, and it was KSL. A hair on the dial and KMOX came in equally as loud.

One evening I waited twenty minutes to know who was broadcasting, as the operator did not trouble to announce. Then the orchestra stopped and one of those piano drummers started his endless chain of home brew selections, which he had composed himself, and when he became paralyzed, the orchestra started up again.

In logging distance, one selection and the call letters is all that one wants at the time from that station, and then we turn to another. When you are trying to log 40 or 50 stations in an evening and have to devote a half hour on one station due to the groups in the channels the listener falls down upon his total.

I would not classify myself as a nut, but I am checking a set recently made (4 tube UV-199, no power tube), and CNRV, KEX, KSL, KFWO, KFI, KMOX and many others come through with equal volume on th speaker, so much so that it is sometimes necessary to cut down, hence the need of the announcer.

The other evening, when KFWI signed off at 11 P. M. I immediately heard the Iowa College at Ames, Iowa, without touching the dials, so you can see just why announcing the call letters is important.

Radio Doings is a great little magazine and directory combined, and a big help in logging distance. More power to you.

Very truly yours,

C. Y. HALSEY.  
565 South Fifth St.,  
San Jose, Calif.

# Golden Bear AIR COLUMN SPEAKER

## “The Soul of Radio”

Embodying the latest principles of Air Column construction, reproducing both music and voice, with natural tone quality and having a wide range of tone intensity and volume.

Model C  
Price  
\$30.00



Not  
a  
Cone

It has style that bespeaks individuality, harmonizing with the best home surroundings, meeting the personal fancy. Solid Walnut—Nathaniel Baldwin “Rival Unit,” equipped with both 8 and 25-foot extension cords. Does not need to be placed near the set.

Used in many homes as an additional speaker—SO CONVENIENT!!

GOLDEN BEAR Air Column Speakers are made in 12 sizes, fitting all cabinets, and can be obtained separately to replace your obsolete speaker.

*Your set is only as good as your Speaker.*

*Have the Best—A Golden Bear*

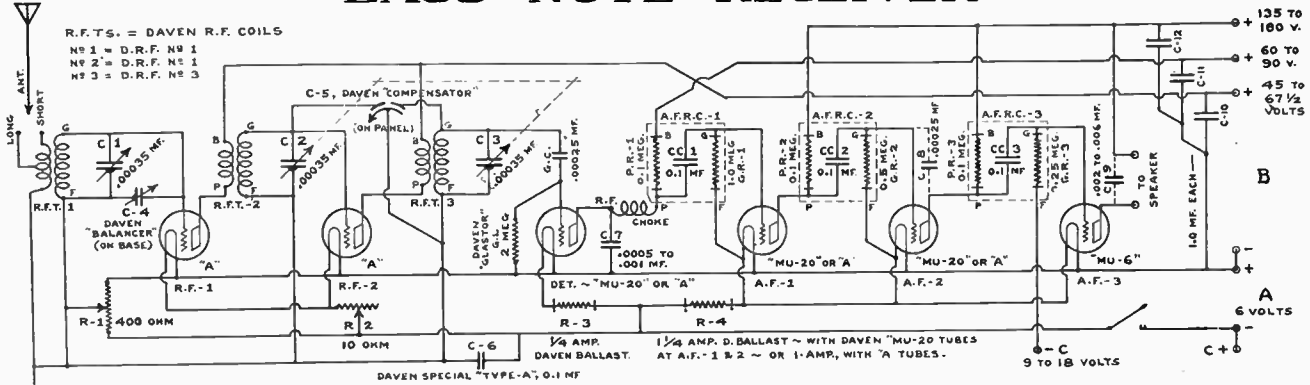
**A. J. Tobey Co.**  
RADIO ACCESSORY JOBBER

1145 So. Wall St.

Westmore 4038

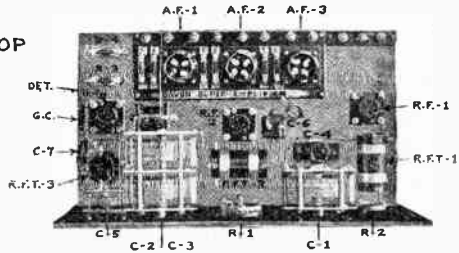
Los Angeles

# 2-Dial DAVEN 6-Tube BASS NOTE RECEIVER

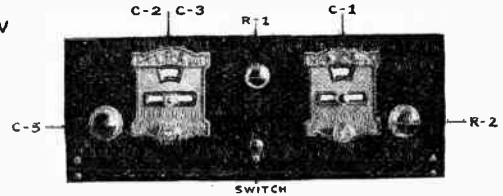


PLAN OR TOP VIEW

BASE  
8 1/2" x 17 1/4"



FRONT VIEW  
PANEL  
7" x 18"



DECEMBER 3, 1927

J.C. H. R. D. - 105 HOLLIS ST.

RADIO DOINGS' TECHNICAL MANUAL

## Two-Dial Daven Bass Note Set

The name of Daven in the radio industry stands for resistance-coupled amplification. In fact, we often hear the expression "Daven amplification," when one hasn't time to say the much longer phrase. Daven pioneered this type of amplifier and they have stood by their guns through the years when the experts, critics, transformer publicity men and technical editors cried them down.

They were criticized because their amplifier required a B voltage of 135. Today every modern set uses at least that much. They were cried down because the amplifier lacked volume. They developed a tube with a high voltage amplification factor and overcame that difficulty. Today all the big tube factories produce the high-mu tube.

Today, as ever, the resistance-coupled amplifier is conceded to give the best and most uniform reproduction over the audio range, and with three stages using two high-mu tubes and one power tube the volume is as great or greater than is obtained from the ordinary two-stage transformer coupled amplifier.

This year Daven is sponsoring a complete kit set, for which they manufacture the special radio frequency coils in addition to the standard audio super-amplifier. The schematic wiring diagram, panel layout and assembly plan are shown on the reverse side of this sheet. The circuit consists of two stages of tuned radio frequency amplification, tuned detector circuit and three stages of resistance-coupled audio amplification.

The "compensator" (C-5) makes up for the discrepancy which is bound to exist in the two-tuned grid circuits, and brings them to exact resonance. When two variable condensers are controlled in tandem by one dial it is impossible to have a condition of exact resonance all over the scale without such a device as this Daven compensator which enables the operator to make this final adjustment and exactly balance his circuits regardless of the wave-length to which the set may be tuned. In the ordinary arrangement where there is no such manual control, the two stages may be nicely in resonance at the low end of the scale but considerably "off peak" at the upper end or vice versa.

The "balancer" (C-4) is an adjustment which causes the two dials to read or log the same and hence, greatly simplify

tuning. Because of variation in the characteristics of the antenna, which may be used with the set, the first tuning condenser will ordinarily differ somewhat in its setting from the tandem unit, but by means of the "balancer" it may be brought back "into step."

Oscillation in the RF stages is controlled by a potentiometer regulating the grid potential, and also by a rheostat regulating the filament temperature of the RF tubes. Daven MU-20 tubes are used as detector and in the first two stages of the audio amplifier. Standard "A" tubes are used as RF amplifiers and a power tube in the final audio stage, either Daven MU-6, or 112 or 171 type power tube with suitable "B" and "C" voltages.

A resistance coupled amplifier is inclined to "motorboat" when used with a "B" eliminator. Daven has developed a device which they call the "Anti-motorboat," which replaces one of the grid leaks in the amplifier and stops this nuisance, hence the last possible objection to this type of audio amplification has been satisfactorily overcome.

The set is very compact and while the complete kit lists for \$58.50, the performance and tonal quality for the completed job is on a par with many sets costing double that amount.

### LIST OF PARTS FOR THE 2-DIAL DAVEN BASS NOTE CIRCUIT

- |        |   |
|--------|---|
| 1      | D R F Coil No. 1 (Daven Radio Frequency)      |
| 1      | D R F Coil No. 2 (Daven Radio Frequency)      |
| 1      | D R F Coil No. 3 (Daven Radio Frequency)      |
| 1      | Daven Super Amplifier (3-S)                   |
| 3      | Daven MU-20 Tubes                             |
| 1      | Daven MU-6 Power Tube                         |
| 1      | Daven 1 1/2 Ampere Ballast Tube               |
| 1      | Daven 1/2 Ampere Ballast Tube                 |
| 1      | Daven 2 Meg. Glastor Grid Resistor            |
| 1      | Daven No. 50 Glastor Mounting                 |
| 1      | Daven Special Type "A" Condenser              |
| 1      | Radio Frequency Choke Coil                    |
| 1      | Daven Compensator                             |
| 1      | Daven Balancer                                |
| 1      | .0005 Fixed Condenser                         |
| 1      | .008 Fixed Condenser                          |
| 1      | .00025 Grid Condenser                         |
| 1      | 2 Section .00035 MFD. (S. L. W. or S. L. F.)  |
| 1      | Variable Condenser                            |
| 1      | Single Section .00035 MFD. Variable Condenser |
| 2      | Vernier Tuning Dials,                         |
| 2      | 201-A Type Tubes                              |
| 3      | Shock-proof Sockets (UX Type)                 |
| 1      | 9 to 10 1/2 Volt "C" Battery                  |
| 1      | Push-Pull Filament Switch                     |
| 1      | 400 Ohm Potentiometer                         |
| 1      | 10 Ohm Rheostat                               |
| 1      | Ant. Gnd. Terminal Strip                      |
| 1      | 5 Terminal Cable Connection Strip             |
| 1      | 5 Conductor Std. Battery Cable                |
| 3      | 1 Mfd. By-Pass Condensers, Fast or Equal      |
| 1      | Panel, metal                                  |
| 1      | 1 1/4 x 9 3/4 x 3/8 inches Wood Sub-Base      |
| 20 ft. | Multi-Colored Bus Wire                        |
| ....   | Misc. Lot of Screws, Solder Clips, Etc.       |

## New Device Simplifies Set Electrification

By K. G. Ormiston

We may be letting the feline out of the bag before the manufacturer is quite ready to announce his latest wares, but after all we feel that the "tie that binds" is strongest 'twixt us and our readers—the great listening public. Hence, at the risk of incurring the wrath of an advertiser who merely



Karas "AC-Former"

sent us a sample gadget for test purposes, we are letting you in on it and what is to follow.

A lot of manufacturers have wonderful hindsight—that is, they can look back and tell you what should have been done, but here and there we find one with a durned sight better foresight and he gets busy and produces something that is going to be in demand tomorrow. You don't have to mix in with a spiritualistic seance or cross a gypsy's palm with silver to discern that the future will see an awful lot of sets built with AC tubes and that another equally awful lot of the present sets will be converted from battery to AC tube operation by their proud owners or with the assistance of some more skillful kitchen mechanic.

(Continued on Page 98)

# DAVEN AMPLIFICATION



## Still the Superior Audio Amplifier

Use it in all circuits

After three years, Daven Amplification is still the most faithful audio amplifier. No matter what your favorite circuit, Daven Amplification will improve it. Only with Daven can you get absolutely straight line amplification over the entire audible range. No motor boating on good "B" Eliminators.

Daven Amplification is now engineered for either AC or DC Tubes, for use with "B" Eliminators or Batteries. With AC operation, the new Daven AC-15 Tubes are used in the first two stages and an AC-10 or Mu-6 in the last stage.



## GLASTOR

*The Transparent Resistor*  
Glaster, made only by Daven by secret process makes the glass itself conductive. Glaster cannot change in value, cannot become noisy while the glass remains intact.

### Make your last change

Replace your resistances now, it will be the last change as long as the set is in use. Glaster is made in a full range of values.

## The DAVEN BALLAST

### Good for life

The Daven Ballast, the Standard Filament Control will not burn out. Good for life of the set. Made in 5

sizes to control from 1 to 5 volt tubes. Sold with or without special mounting as shown.

**Free Catalog** at your dealer or sent direct upon request.

*The Sine of Merit*

DAVEN RADIO CORPORATION

TRADE MARK "Resistor Specialists" REG. U.S. PAT. OFF.

192 SUMMIT STREET

NEWARK, N. J.

# ZENITH

TRADE MARK REG.

→ LONG DISTANCE ←  
TRADE MARK REG.

## RADIO

## Sets the Pace!

Ask any owner what he thinks of **Zenith** performance. Make comparisons with any other Receiver.

Note the musical quality—the simplicity of operation.

And—

**Zenith** "AC" operation means **All-Electric**—not "Almost Electric"!

Ask any **Zenith** Dealer to make these comparisons!

And don't forget: **Zenith** IS getting long distance—right now—here in Los Angeles.

### CHANSLOR & LYON CO.

*Pacific Coast Distributors  
for Zenith Radio and R.C.A. Tubes*

LOS ANGELES

FRESNO

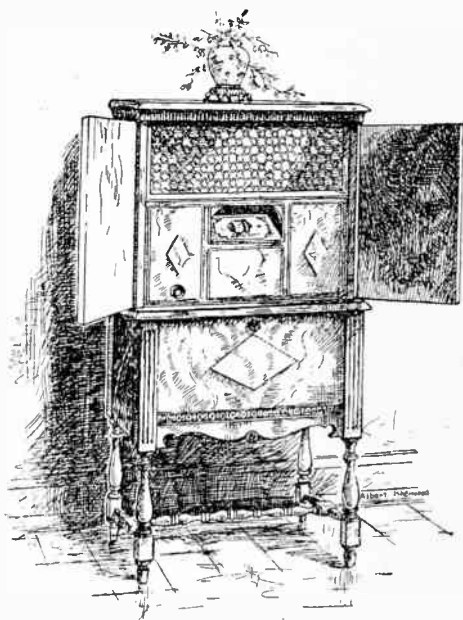
SAN FRANCISCO

OAKLAND

PORTLAND

TACOMA

SEATTLE



Model 14-E, A. C. Electric, \$307.00



*The Only SURE Way to Prove the Claims of*



Is to call up or visit one of these "Honor Roll" Dealers, and have him bring a ZENITH to your home on a Free Demonstration:

*In DOWNTOWN L. A. See:*

**Birkel Music Co.**  
446 South Broadway  
VAndike 1241

*In DOWNTOWN L. A. See:*

**Martin Music Co.**  
734 South Hill Street  
TRinity 9621

*In HOLLYWOOD See:*

**Zenith Radio Agency**  
(F. Clay McConnell)  
1242 Vine Street  
HEmpstead 2504

*In WILSHIRE See:*

**Thomas Radio Co.**  
3610 West Sixth Street  
WAshington 2760

*In SOUTHERN L. A. See:*

**Los Angeles Music Co.**  
4410 South Broadway  
AXridge 5479—Open Nights

*In ALHAMBRA See:*

**Fred B. Gillenwater Radio Studio**  
127 West Main Street  
ALhambra 2032

*In OCEAN PARK See:*

**Ocean Park Radio Service**  
(J. C. Williams)  
177 Pier Avenue  
Santa Monica 624-23

*In SAN PEDRO See:*

**Zenith Radio Store**  
(Jack Moskovita)  
462 Sixth Street  
San Pedro 519

*In TORRANCE See:*

**DeBra Radio Co.**  
Carson, Cor. Cravens  
Torrance 73-J

*In SANTA ANA See:*

**Robert S. Gerwing**  
312 Broadway  
Santa Ana 475-J

*In PASADENA See:*

**Radio Doc**  
1581 East Walnut Street  
Colorado 1671

*"The Quality Goes In Before the Name Goes On"*

## The Siamese Twins

Not so long ago radio and the phonograph were sitting back on their haunches barking at each other.

"I can bring you music to suit your mood," said the phonograph. I can re-create for you the artistry of great masters who have passed away. You need not depend upon the vagaries of program arrangers, for you may choose your own selections, and you will not be burdened by advertising talks between numbers."

"You do not have to wind me up," retorted the radio. "Nor change a record. Just turn me on and I will bring the wide world into your home in an endless procession. I conquer distance and time. In the twinkling of an eye I transport you from the Atlantic to the Pacific. Through me you may listen to the heart throbs of a nation,—yea, of the world."

For a time the phonograph possessed the superior tone quality, but eventually radio excelled in that respect and then the phonograph was in full retreat. Radio attained its superior quality through the use of improved audio amplification and cone speakers, so the phonograph engineers borrowed these features and incorporated them into their product. These, combined with electrical pick-up from the record surface in reproducing and electrical recording in the studios brought the phonograph back into the fray with a bang.

And now these two are Siamese twins, because radio is a part of the phonograph and the phonograph is a part of the radio. Since the modern phonograph requires a vacuum tube audio amplifier and cone speaker, units already used in the radio, it is only necessary to add a suitable electrical pick-up and means of turning a record, and we have the two early rivals combined into one modern entertainment

(Continued on Page 98)

# Downtown Headquarters

for

*Nationally Known Radio  
Equipment*

**CROSLEY**  
**MAGNA VOX**  
**FEDERAL**  
**STEINITE**  
**SILVER-MARSHALL**  
**WALBERT**  
**MAJESTIC 'A' & 'B'**  
**PHILCO**  
**BALKITE**  
**WESTERN ELEC.**  
**ROLA**  
**ACME**  
**JENSEN DYNAMIC**  
**CONE**

We Are Open Evenings Until 8.  
Glad to Demonstrate

**American Radio Co.**  
108 E. 8th St. TUCKER 6028  
LOS ANGELES

# In Tuneful Mood



May McAvoy with her Kemper Portable is a familiar sight on the sets at Warner Brothers' Studios between shots.

# Electrify Any Radio Set!



Get the Maximum pleasure from your radio set! Enjoy the luxury of electric operation afforded by a Philco Socket Power.

## Automatic!

Runs Any Radio from Your Electric Current!

THE MARVELOUS NEW

# PHILCO

Radio AB Socket Power

Your Radio Set Switch controls everything—your A & B Power as well as the radio itself. The elimination of dry cell expense frequently pays for the Socket Power in a year. Can be installed on any radio set.

**SOLD ON EASY PAYMENTS**

Ask and radio dealer regarding special allowance on your old storage "A" Battery

Buy Your



RADIO AB SOCKET POWER

FROM

J. M. Andrews Co.

The Original

Philco Sales & Service

1818 S. Grand Ave.

WE. 9065

Los Angeles

\$6.00 DOWN --- \$6.00 MONTHLY

WE WILL GIVE YOU

\$6.00 for Your Old Battery

Installed Free — Positively Guaranteed

FREE DEMONSTRATION

on Your Own Radio

Mail This Coupon Today

or

Phone Westmore 9065



For Free Demonstration in Your Home

Also Headquarters For

ARBORPHONE AND

FREED-EISEMANN

RADIO

CECO TUBES

RAY-O-VAC BAT-

TERIES

AUTOMOBILE

STORAGE

BATTERIES

NAME..... MAIL THIS COUPON

ADDRESS.....

MAKE OF SET.....

PLACES YOU UNDER NO OBLIGATION

## Boosting The Loop

By K. G. ORMISTON

The extraneous noises which accompany distant signals are made up of two component parts, man-made electrical disturbances and natural static. The latter is at a maximum during the summer months and decreases greatly in the winter. The former is with us always, varying naturally with locality. Out in the open country it is practically absent, while in congested areas it may be very troublesome, even though there may be no real static.

To the fan who is so fortunate as to be fairly free from the home-brew variety of noise, it is apparent that the "noise level" due to natural static is dropping rapidly and that we find a night now and then when there is practically none. Under these circumstances the sensitivity of a receiver may be increased to bring in still greater distance than usual. To explain this condition in simple language, assume that WLIB comes in clearly above the noise. That is, the energy received from him gives a stronger response than the accompanying noise. But also assume that WCX at Detroit is somewhat weaker and he cannot be understood because the noise is loudest. Now, perhaps it rains, or the weather becomes a little colder, and we find that while WLIB and WCX are received with exactly the same volume as before, now the noise has decreased in strength, so that WCX is received clearly. And as further reduction in the "noise level" takes place still more distant stations will be "uncovered," as it were, so that we see that the range of a set is limited by the signal-to-noise ratio.

It follows that if a set is operating at its maximum sensitivity and yet does not reach down to the "noise level," any means of increasing the signal amplitude will increase the DX range.

In the case of the Magnaformer 9-8, this may be accomplished through the use of an antenna and ground. The set may be coupled to an antenna in two ways. An antenna coupler as furnished by the manufacturer may be used. This simply provides a coil which replaces the loop and is tuned by the loop tuning

condenser, tightly coupled to an antenna coil of a few turns.

A more efficient and satisfactory method, however, is to leave the loop as it is with its mid-tap and regenerative midjet condenser, and couple the loop loosely to a booster box unit, the latter being connected to an antenna and ground. A booster box simply consists of an inductance shunted by a variable condenser of such values that the broadcast band is covered. This tuned circuit is connected to the aerial through a small fixed condenser on one side and the ground on the other.

The booster box is then placed near the loop and tuned roughly to the wavelength being received. The increase in signal strength is very great, and such an arrangement can be used to good advantage when there is no electrical interference and natural static is at low ebb. Selectivity is preserved to a far greater extent than is the case when the "antenna coupler" is used because of the fact that the antenna circuit is tuned to the one frequency which it is desired to receive, and also because the degree of coupling is variable to give only the desired energy transfer.

Signals which are barely audible may by this means be brought in with good loud speaker volume, still assuming, of course, that the noise level will permit. The writer has been using a booster in conjunction with the loop of a Magnaformer 9-8 on some of the recent "quiet" nights and it yanks out a lot of low power stations and brings 'em in with good volume. Huntington, W. Va.; Hopkinsville, Kentucky, etc., as well as the far-distant Japs and Ausies come in with many times the volume to be had with the loop alone.

*(NOTE—I see Scotty has come back to life and is using valuable advertising space in an effort to annoy me. But I've been annoyed by experts, and Scotty is far from being an expert, even on a Magnaformer! I'd advise him to bear in mind that a spectator sometimes gets accidentally socked.—K. G. O.)*

### Magnaformer GOLD-PLATED

PARTS and Goslico Wire Used Throughout  
Increasing the Efficiency. Costs No More  
S. E. CUMMINS, Phone DE. 7764  
705 Mortimer Ave. Huntington Park, Cal.

A Useful But  
Inexpensive GIFT

BRACH  
**STORM  
KING**



**Lightning  
Arrester**

Safety demands that you protect your radio with a **Brach Lightning Arrester** because all radios are subject to damage by lightning induction.

At Dealers Everywhere

**L. S. BRACH MFG. CORP.**  
NEWARK, N. J. TORONTO, CAN.

**Official  
MAGNAFORMER  
LABORATORY**

The Magnaformer, Wired,  
Tested and Guaranteed,  
**\$150.00.**

We Will Test, Assemble  
and Wire Your Kit for **\$35.00.**

Our Workmanship is in a  
Class by Itself.

**LAB. OF RADIO  
STANDARDS**

E. K. HAYES

2408 W. Vernon, Los Angeles, Cal.  
VERmont 6543

*Faithful Service*

The function of a power resistance is to control voltage and current — accurately — permanently — silently.

AEROVOX PYROHMS used with GOOD equipment make a BETTER power unit.

AEROVOX PYROHMS are built to last — are used by more than 20 leading power unit manufacturers. — This is conclusive evidence of their reliability — accuracy — worthiness.

Made in all values of resistance for continuous duty at 20, 40, 100 and 200 watts.

**AEROVOX**  
"Built Better"  
70 Washington St., Brooklyn, N. Y.

Aerovox Condensers  
are exclusively specified  
for the

**Magnaformer**

9-8 Circuit



Stock Carried In  
Los Angeles Office  
W. S. HITT CO.  
324 N. San Pedro St.

# Magnaformer 9-8

## Commander-in-chief of the Air

Los Angeles, Calif.,  
November 25th, 1927.

K. G. Ormiston,  
Tech. Ed., Radio Doings.

Dear Ormie:

It might be modesty which has kept me from publishing my log with my Magnaformer 9-8, but I am too well aware that readers prefer facts from among themselves. The following will stop you a bit,—“read 'em and weep.”

November 22nd, 1927.

Dear Scotty:

Here's one that Ormie didn't get. At 3 a. m. this morning I played VPS3, Hong Kong, China, with four witnesses present. We logged three musical numbers and have written for verification. This was on my Magnaformer 9-8, using CeCo special-duty tubes, and the reception afforded us a real thrill.

Yours in the skirmish,

**GEORGE H. BOARDMAN.**

Po. S.—This was at my home, 1106 Gower St., Hollywood.

Now, Ormie, you took your Magnaformer 9-8 plus a truckload of paraphernalia and what-not to the Rim of the World a couple weeks ago and among the things NOT reported was Hong Kong. Look to me as if some of the boys are backing you up a bit. Guess I'll sit tight and watch. Spectators, don't get hurt!

Yours expectantly,  
**SCOTTY.**

### Wholesale Distributors

YALE RADIO ELECTRIC CO.  
1111 Wall St., Los Angeles

RADIO SUPPLY  
912-14 S. Broadway, Los Angeles

SUNSET ELECTRIC CO.  
1141 First St., San Diego

COAST RADIO SUPPLY CO.  
648 Howard St., San Francisco

## SCOTT SALES CO.

Factory Agents

433 S. San Pedro St.

VA. 3297

Los Angeles

Manufactured by Radiart Laboratories, 19 S. LaSalle St., Chicago





## *Accurate Reproduction!*

Your receiver is capable of giving it to you. If it doesn't, equip it with Ferranti audio frequency transformers and note the surprising improvement. These transformers amplify every note — the highest and the lowest — in the broadcast range with equal ease, increased volume, and clarity of tone.



## Audio Frequency Transformers

**FERRANTI AF-4 TRANSFORMERS  
EXCLUSIVELY SPECIFIED FOR THE**

**Magnaformer**

**9-8 CIRCUIT**

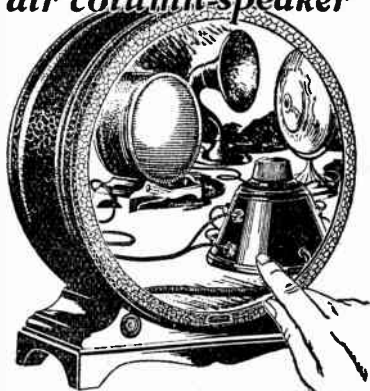
**FERRANTI, Inc.**

**130 West 42nd Street, New York, N. Y.**

**FERRANTI, Ltd.  
Hollinwood, England**

**FERRANTI ELECTRIC, Ltd.  
Toronto, Ontario, Canada**

## The TEMPLE air column speaker



Sold by



## Comparison

Don't take our word that the TEMPLE is the best speaker on the market. Go to your nearest dealer and ask him for a COMPARATOR test. He will hook up five different speakers. Close your eyes as he quickly switches from one to another. You'll find that all we say is true—that TEMPLE, for richness and purity of tone, has no equal in speakers today.

*Temple Models Priced at*  
**\$32.00—\$55.00—\$75.00**

*Manufactured by*  
TEMPLE, INC., 213 S. Peoria St., Chicago  
Distributors

HERBERT H. HORN  
1629 S. Hill St., Los Angeles  
KIERULFF & RAVENSCROFT  
1630-32 S. Los Angeles St., Los Angeles

## Swamped!

Since we introduced our new Raytheon equipped power unit, to eliminate "B" batteries, we have quadrupled our factory force, and still we are behind. All of which goes to show that it doesn't take the public long to discover a good power unit priced within reason. The

# Powell

**POWER  
UNIT**

QUIET  
CONSISTENT  
DEPENDABLE  
ECONOMICAL  
and  
NEAT

Employs the Raytheon "BH" Heavy Duty Rectifier—and is built for power tube operation. Insist upon seeing the new Powell Power Unit.

**Just \$18.75**

**POWELL MFG. CO.**

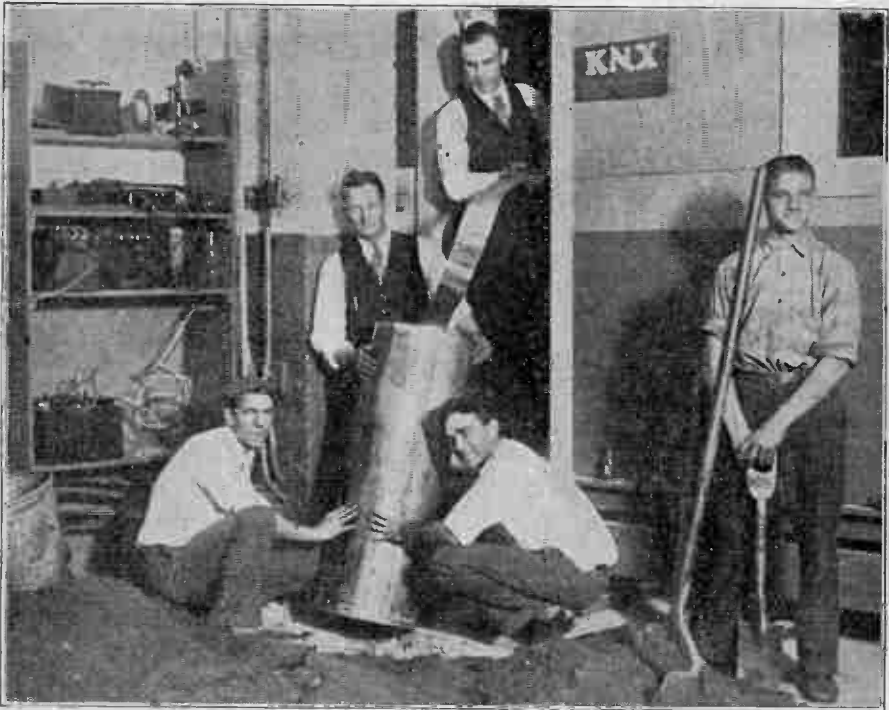
4009 S. Western Ave. VE. 1619  
Los Angeles

## KNX Installs Preston Ground

After exhaustive tests made of the Preston Permanent Radio Ground over a period of months the owners of Radio Station KNX, Los Angeles Evening Express broadcasting station, have in-

stalled a specially-made Preston Ground at the Hollywood location of the broadcasting station.

Ungar & Watson, Inc., 1366 South Figueroa Street, Los Angeles, manufacturers of the Preston Ground, claim that



stalled a specially-made Preston Ground as broadcast equipment.

The accompanying photograph shows C. H. Preston, inventor of the Preston Ground, Glen Rice of KNX and other members of the KNX staff installing the

this is the largest ground unit ever built as far as they have been able to ascertain. The standard Preston Ground for home use is 4 inches in diameter by 12 inches deep. The KNX Ground is 15 inches in diameter and 42 inches deep.

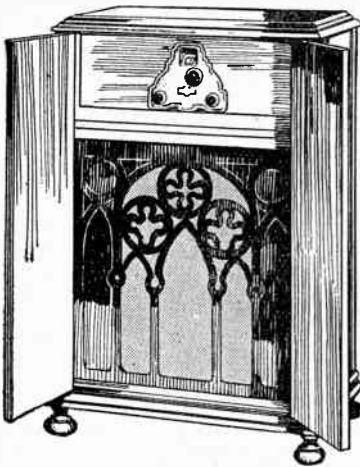
**THE IDEAL XMAS GIFT and  
No Holiday Shopping Troubles!**

See page 105

# A Prosperous Gift-Selling Season

## Is Ahead of Howard Dealers

Thanksgiving marks the start of the "big push" for Christmas sales . . . that is an old merchandising rule. And, this year, retail selling will be carried on intensively right up to Saturday, the 24th. Dealers who sell Howard All Electric Radio Receivers will reap a big harvest, because they can make installations quickly—and right up to the last minute.



Manufactured by  
HOWARD RADIO CO.  
Chicago, Ill.

The Howard All Electric Radio "stays sold" because it has quality built into every part. Howard has always been noted for quality. We can make immediate delivery, as stock is carried on the Pacific Coast.

There is no time to lose now. We have a few dealer franchises open for reliable dealers.

**Price \$415.00**

*Distributed by*

**Howard Radio Distributing Co., Inc.**

1236 Maple Ave.

WEstmore 1401

Los Angeles, Calif.

Formerly at 6229 Banner Place

## ? Questions and Answers ?

A Weekly Department Conducted by K. G. Ormlston, I.R.E.

**QUESTION**—Am a reader of Radio Doings and would like to ask a few questions. To return the favor just name your favorite cake and you'll sure get it, as I'm a baker by trade. Am enclosing diagram of my 4-tube Browning-Drake, using Silver-Marshall 220 transformers. It is just fine as it is with wonderful tone quality, but I would like to add an S-M output transformer 221 and a 112 or 171 power tube. Don't want a larger set, as I live out of town and have to use dry B's. Don't want to use more than 3 45-volt blocks. If this is a good idea, please send me the diagram of how to make the alterations. Next question,—why is Gosilco aerial wire better? The signal has to go through the soldered joints, and the lugs on the parts are only tinned stuff, too. A chain is no stronger than its weakest link. I am lining the inside of my cabinet with sheet copper. Does the panel have to be lined too? And all the panel mounted parts insulated? Don't forget about the cake.

FRED H. BISSETT,  
Hotel Adams,  
Phoenix, Ariz.

**ANSWER**—Your letter was way down in the middle of the pile, but that crack about the cake put you right on top. Man,—you just bake up a "Static Special" and sent it right along. I'll take it on the next all-night session that some DX fiend persuades me to attend. Meanwhile, I am mailing you the desired diagram, showing changes in your set for power tube and output transformer. It's very simple. Regarding the Gosilco, the big idea is to replace corroded wire with

a wire that can't corrode. Fans who have made the change report improved reception. Corrosion is the bugaboo that is eliminated, and your soldered joints and tinned lugs, etc., in the set don't suffer from this disease because they are not exposed to the sun, rain, etc. At least, I hope not! Anyway, assuming that they represent a distinct loss of energy, it's better to have one or two little holes in your garden hose than a thousand of 'em, isn't it? You would get more water through all right. Hence, every weak spot that we can strengthen will improve the overall efficiency. A good aerial and ground, clean, tight joints, full and steady voltage, etc., are all essential to good reception. Unless you are close to a broadcast station, which is picked up by the coils of your set with aerial disconnected, I wouldn't advise the shielding you mention. Shielding is only worthwhile in congested areas, where, for example, the grid coil of the detector picks up energy from a station. Then your selectivity is ruined, because the RF stages, with their ability to pass only one station at a time, can't keep out the unwanted signal. The purpose of set shielding is to let nothing reach the detector but that which has entered the set on the aerial and passed through all the circuits in the proper order. Unit shielding is, of course, for another purpose, but that's not what you are doing. I'd suggest that unless your local station is right on your neck that you forget about the cabinet shielding. The panel shielding is only advisable if you are troubled with body capacity effects. It may then

(Continued on Page 90)

**CROSLY SPECIALISTS**

**REPAIRING — BALANCING — SERVICE  
CHILDS' LAB., 2310 S. Union Av., L. A.**



By AUDREY DAVIS

It is rumored that Mary Elizabeth Carter is soon to leave KFVD at Venice. Mrs. Carter is responsible for the features which have made this station popular, and is one of our outstanding radio personalities in the Southwest. It is also rumored that the Carters are soon to have a station of their own in this locality.

Charles W. Hamp, the popular announcer, who is now putting on the programs for Dr. Strasska's Tooth Paste, is having so many inquiries asking when he is on the air over the various stations that he is printing in this issue a schedule for your convenience.

"Yes, Sir," Hamp is not only an announcer and entertainer, but is also an expert radio man. He spends nearly all his spare time in a very well-equipped laboratory.

The personnel of a studio may change, but how nice it is to find our old congenial friends bringing their particular hospitable atmosphere to new studios. Mr. E. K. Barnes has recently transferred from KMTR to KHJ, and the success of the "old-new" station seems to me immediately assured.

The New Idea Man, creator of The Little Ant Man; Yale and Harvard Program and other novel features that we hear over many of the stations all over the Pacific coast, has the happy knack

of putting his "stuff" over in a very clever and interesting way. He can be heard over KNX; KNRC; KFON; KFVB; KMIC; KSL; KFRC; KSMR; KFSD; KFHJ and KFWO.

The Romberg and Ludors program, presented every Saturday night between 8 and 9 from the studio of KNX, is fast becoming one of the popular features of the southland's broadcasting high lights. The appreciative radio audience is not slow in recognizing the superior talent and technique of such artists as Eva Olivatti, David Percy, Dan Gridley and the Platt Male Quartet, who perform on this distinctive hour. I understand, incidentally, that KNX will broadcast by remote control the premier program of "Sunrise," opening shortly at the Carthay Circle Theatre.

The afternoon programs at KGFJ, composed of readings by Mr. J. K. Carden and music by Joan Billings and Lou Parker, are becoming quite popular, according to the studio's receipt of mail. Mr. Carden takes great pride in reciting any request poem asked for.

An outstanding program was the initial radio appearance of Herman Heller and his Vitaphone Recording Orchestra, the organization used for picture accompaniments in conjunction with the revolutionary sight-sound device,

(Continued on Page 91)

**30 NICK HARRIS**

Detective Stories. Send \$2 to 272 Chamber of Commerce Bldg., for his book, "In the Shadows." Police Whistle Free.

What no battery radio is absolutely foolproof, will not burn out tubes?

# The Falck

## NO BATTERY RADIO

*Factory  
Guaranteed  
for  
One Year*



**\$150<sup>00</sup>**  
*Complete  
all features  
built in.*

ADVANCE ELECTRIC CO., 1260 W. 2nd St., Phone Mutual 3159.



KMTR—Monday  
 KFWB—Tuesday  
 KNX—Wednesday  
 KMTR—Thursday  
 KNX—Friday, 7:00 to 7:30 P. M.  
 KNX—Wednesday morning, 11 to 12.  
 KMTR—Friday morning, 10 to 11.

# 7:30 P.M.

*Please keep above Coupon for ready reference.*

## CHAS. W. HAMP

The Pacific Coast's most prominent radio announcer, publicist and artist has been placed under exclusive contract by

### STRASSKA'S TOOTH PASTE

Mr. Hamp will give his  
"30 MINUTES OF SUNSHINE"  
in his inimitable way nightly over the above stations.

# FREQUENCY CHANNEL LISTING

250 Watts and Up—Corrected to December 3rd

Chn	Freq. Meters	Stations	Chn.	Freq. Meters	Stations
1	550-545.1	KSD, WMAK, KFUO, KFDY, WFAA.	55	1090-275.1	KFSG, WORD, WTAS, WEAN.
2	560-535.4	WHO, WCAC, WTIC.	56	1100-272.6	KFAD, KFJF, WBAA, WHAR, WPG, WRM, WSKC.
3	570-526.0	KMTR, KYW, WNYC, KFKX.	57	1110-270.1	KGU, KOAC, KQV, WGS1, KLDS, WJAS, WMAZ, WSOE, WHAD.
4	580-516.9	WMC, WTAG.	58	1120-267.7	KFWI, KSB, WDAE, WNJ, WGPC.
5	590-508.2	KLX, WOW, WCSH.	59	1130-265.3	KTSJ, WHK, WNOX, WOI, WBET.
6	600-499.7	WBAP, WAAW, WOAI.	60	1140-263.0	KGEF, WDAZ, WJAZ, WMBI, WSEA, WDWL.
7	610-491.5	KGW, WEAF.	61	1150-260.7	KGA, WDGJ, WCAU, WDFW, WNBH, WOOD, WRHM.
8	620-483.6	KUSD, WCFL, WEMC, KFDM, WTAW, WJAR, KFBU.	62	1160-258.5	KSUL, WOCH, WBT, WCMA, WEBW, WFBL, WIL, WNAL.
9	630-475.9	WSB, WSUI.	63	1170-256.3	KTNT, WASH, WBBR, WCSO, WEBJ, WLTH.
10	640-468.5	KFI, WRC.	64	1180-254.1	KFKU, KMO, WREN, WRVA, WTAQ.
11	650-461.3	KFNF, KRLD, WFEI, KUOM, WRR, WCAE.	65	1190-252.0	KOCW, KPLA, WMBB, WOK, WKBF.
12	660-454.3	KFRC, WJZ.	66	1200-249.9	KFRU, WCOA.
13	670-447.5	KFOA, WMAQ, WQJ.	67	1210-247.8	KOW, KFEL, WIOD.
14	680-440.9	KFSD, WJR, WSBF, WAAW, WLW.	68	1220-245.8	KFH, KFPY, KLS, WEVD, WAAT, WDOJ, WFBE, WGBB, WKRC, WHDI, WLB.
16	700-428.3	KPO, WOR.	69	1230-243.8	KSCJ, KWUC, WBRC.
17	710-422.3	KHJ, WMAF, WGN, WLIB.	70	1240-241.8	KFKB, KFON, WEBC, WEDC, WMAL, WGES.
18	720-416.4	WCCO, WFI, WLIT.	71	1250-239.9	KEX, KFJR, WEAM, WNAD, WJAM, KWCR, WOAX.
20	740-405.2	WEAR, WTAM, PWX.	72	1260-238.0	KLDS, WLBI, WRBC, WSBT.
21	750-399.8	KOB, KTW, KWKH, KWSC, WHN, WQAO, KMA.	73	1270-236.1	KFDX, KFMX, KFWM, WBNI, WCAL, WGBF, WHAP, WMSG, WTAR, WTAD.
23	770-389.4	WAAF, WBBM, WJBT.	74	1280-234.2	WCAH, KFVE, WMBS.
24	780-384.4	KGO, KTHS, WCAO, WMBF, WQAM.	75	1290-232.4	KBRL, KFPR, KUT, WJKS, WSBG.
25	790-379.5	WCAJ, WGY.	76	1300-230.6	KFEQ, WDBJ, WGBI, WQAN.
26	800-374.8	KNRC, WOC.	77	1310-228.9	WCOC, KELW, KGBU, WOWO, WHBP.
27	810-370.2	KHQ, WDAF, WLWL, WMCA.	78	1320-227.1	KSO, WARS, WBBC, WJAY, WSDA, WVAE.
28	820-365.6	WCAD, WEBH, WIJD.	79	1330-225.4	WFBM, KFUR, WAMD, WDAD, WMAC, WSYR.
29	830-361.2	KFWB, WDAY, WSAI, WOS.	80	1340-223.7	KGFH, KMIC, WCAM, WCRW, WABQ, WFKB, WNRG, WPC, WSAJ, WKBH.
31	850-352.7	WEW, WWJ.	82	1360-220.4	WCGU, WGWB, WKBO, WKBO.
32	860-348.6	KJR, KVOO, WGBS, KXA, WOO, WIP.	83	1370-218.8	WKWB, WRCO.
33	870-344.6	WCBD, WJBB, WLS.	84	1380-217.3	KRLO, WOKO, WPEP, WQAA.
34	880-340.7	WKAQ, WAPI, WJAX, WHB.	85	1390-215.7	KFWE, WICC, CWKW, KGDG, WJBL, WRAX.
35	890-336.9	KNX, WSM, WWVA, WOO.	86	1400-214.2	WCDA, WRST.
36	900-333.1	KSAC, KSEI, WBZ, WKRC, WJAD, WBZA, KFBB, WHA, WBLB.	89	1430-209.7	KSOU, WCBS, WOKT, WFTI.
38	920-325.9	KOA, WPCA, WRNY.	90	1440-208.2	KFVD, WLZ, KGFJ.
39	930-322.4	WHAS.	92	1460-205.4	WABF, WMBD.
40	940-319.0	KOIN, KOIL, WFAB.	93	1470-204.0	WKEN, WLX.
41	950-315.6	KPSN, KDKA.	95	1490-201.2	KGEY.
43	970-309.1	KYA, WABC, WOBQ.	98	1500-199.8	WRAH.
44	980-305.9	KOMO, WHT, WIBO, WHAZ.			
45	990-302.8	KSL, WGR, WNAX, WHA, WBLB.			
46	1000-299.8	KFWO, KMOX, KOWW, WBAK, WPSC.			
47	1010-296.9	KQW, KUOA, WADC, WWNC, KLZ, WSMB.			
48	1020-293.9	KGCH, WPRC, WGL, WLWB, WODA, WTMJ, WLEW, WODA, WTMJ.			
50	1040-288.3	KTBI, WBCN, WDBO, WNAT, WENR, WNAC, WEAN.			
51	1050-285.5	KFAU, KFOY, WBAI, WJAG, WKAR, WOAN, KMMJ.			
52	1060-282.8	KFXF, WAIU, WDRC, WEAQ, KFUM.			
53	1070-280.2	KTAB, WFIW.			
54	1080-277.6	KWWG, WHAM, WGHP.			

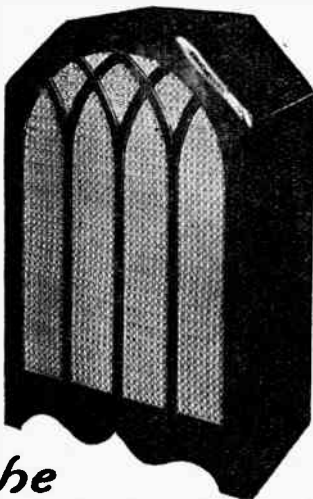
## ROFFY'S

New Superfine 3-Tube Circuit is Highly Selective. Kit only \$50.  
J. T. Roffy, 155 Olive St., Walnut Park, Calif. Phone DE. 2756.



## A New Conception of Tonal Grandeur

The pure, unimpaired beauty of the actual performance—every note of the massive organ—every touch of the rippling harp—is so faithfully reproduced that music-lovers will glory in it.



## The Cathedral Reproducer

A scientifically designed long air column, perfectly matched to its electrical mechanism, and enclosed in a cabinet built to harmonize acoustically. No power amplifier is necessary; the volume being built up naturally through the long, winding air chamber. Hear it at your radio store.

EXCLUSIVE WHOLESALE DISTRIBUTORS:

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"The House for Better Reproduction"

5234 Melrose Ave.

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LOS ANGELES, CALIF.

Established 1923

## Supplies for the Radio Store

ADAPTERS, Phonograph  
ADAPTERS, Socket  
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DIALS, Vernier  
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GROUND CLAMPS  
HORNS, Long Air  
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Porcelain  
JACKS & JACK  
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KNOBS, Bakelite  
LEAD-INS  
LIGHTS, Panel & Dial  
LIGHTNING ARREST-  
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LOUD SPEAKERS,  
CONES, etc.  
LOUD SPEAKER  
UNITS  
LUGS, Solder  
MARKERS, Cable  
METERS  
PHONES, Head  
PLUGS  
POTENTIOMETERS  
RESISTANCES & KITS  
RHEOSTATS  
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SCREWS, Brass Nickelled  
SHIELDS  
SPAGHETTI TUBING  
SWITCHES  
TERMINALS, Wire  
TUBES, Vacuum  
TRANSFORMERS,  
Audio & Radio  
WALL PLATES  
WIRE, Rubber Covered  
WIRE, Magnet

All made by Estab-  
lished Manufacturers

# Schedule of "DX" Stations

Call Letters	Fr. Ky.	W. L. Mtrs.	Pow. Wts.	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
KEX	1250	239.9	2500	6.00-11.00	6.00-12.00	6.00-12.00	6.00-12.00	6.00-12.00	6.00-12.00	6.00-12.00
WOK	1190	252	500	5.00- 8.30	S	5.00- 8.30	5.00- 8.30	5.00- 8.30	5.00- 8.30	5.00- 8.30
KDYL	1160	258.5	100	S	5.00-11.00	5.00-11.00	5.00-11.00	5.00-11.00	5.00-11.00	5.00-11.00
WJAZ	1140	263	8000	S	S	6.00- 8.00	6.00- 8.00	6.00- 9.00	6.00- 8.00	6.00- 8.00
KGU	1110	270.1	600	10.00-11.30	10.00-11.30	10.00-11.30	S	10.00-11.30	10.00-11.30	S
WPG	1100	272.6	5000	6.00- 6.30	S	S	S	S	S	S
KOIL	1080	277.6	2000	9.00	6.00-10.00	6.00-10.00	S	6.00-10.00	6.00-10.00	6.00-10.00
WAIU	1060	282.8	5000	6.00- 9.00	6.00- 9.00	6.15- 9.00	S	S	6.00- 9.00	6.15- 9.00
KFXF	1060	282.8	500	7.00	6.00- 9.00	6.00- 9.00	6.00-11.00	S	6.00-11.00	6.00-11.00
WENR	1040	288.3	500	6.30- 8.00	S	6.00- 9.00	6.00- 9.00	6.00- 9.00	6.00- 9.00	6.00- 9.00
KMOX	1000	299.8	5000	6.00- 9.30	6.00-11.00	6.00-11.00	6.00-11.00	S	6.00-11.00	6.00-11.00
WGR	990	302.8	750	S	6.00- 8.00	6.00- 7.00	6.00- 8.00	6.00- 7.00	6.00- 8.00	S
WOAI	990	302.8	5000	S	S	6.30- 7.30	6.30- 7.30	6.30- 7.30	6.30- 7.30	S
WGN	980	305.9	500	6.00- 8.25	S	6.00- 8.00	6.00- 8.00	6.00- 8.00	6.00- 8.00	6.00- 8.00
WLIB	980	305.9	15000	S	8.00-11.00	8.00-11.00	8.00-11.00	8.00-11.00	8.00-11.00	8.00-11.00
KDKA	950	315.6	30000	S	S	7.35	S	S	7.00	S
WBZ	900	333.1	15000	6.50	6.00- 6.30	6.00- 6.30	6.00- 6.30	6.00- 6.30	6.00- 6.30	6.00- 6.30
WBB	890	336.9	500	7.00-11.15	6.00- 7.00	6.00- 8.00	S	6.00- 8.00	S	6.00- 8.00
WLS	870	344.6	5000	S	S	S	6.00- 9.00	S	6.00- 9.00	S
WWJ	850	352.7	1000	6.00	S	S	6.30	S	6.00- 6.30	S
WSAI	830	361.2	5000	6.00- 9.00	6.00- 9.00	6.00- 9.00	6.00- 9.00	6.00- 9.00	6.00- 9.00	6.00- 9.00
WEBH	820	365.6	2000	6.00	S	6.00- 8.00	6.00- 8.00	6.00- 8.00	6.00- 8.00	7.00- 9.00
WDAF	810	370.2	1000	S	6.00- 8.00	6.00- 8.00	6.00- 8.00	6.00- 8.00	6.00- 8.00	6.00- 8.00
WOC	800	374.8	5000	S	S	6.00- 6.30	6.30- 8.00	6.00- 7.00	6.00	S
WGY	790	379.5	30000	S	S	6.00- 7.30	6.00- 7.00	6.00- 7.30	6.00- 7.30	6.00- 8.00
WHAZ	790	379.5	500	S	6.00- 9.00	S	S	S	S	S
KTHS	780	384.4	1000	6.30- 8.30	6.30- 8.30	6.30	6.30- 8.30	6.30- 8.30	6.30 10.00-12.00	S
WBBM	770	389.4	1000	6.00- 8.00 9.00-11.00	5.00	6.00- 8.00	6.00- 8.00	6.00- 8.00 7.00- 8.00	6.00- 8.00	6.00- 8.00
WORD	770	389.4	5000	S	S	6.00- 7.00	6.00- 7.00	6.00- 7.00	6.00- 7.00	6.00- 7.00
KMA	760	394.5	500	S	7.00- 9.00	7.00- 9.00	7.00- 9.00	7.00- 9.00	7.00- 9.00	7.00- 9.00
KOB	760	394.5	5000	8.55- 9.10	8.55- 9.10 6.30- 7.30	8.55- 9.10	8.55- 9.10	8.55- 9.10	8.55- 9.10 6.30- 7.30	8.55- 9.10
KWKH	760	394.5	1000	6.00- 7.00	6.00- 7.30	7.00-10.00	S	6.00- 7.30	S	7.00-10.00
PWX	750	400	500	6.00-10.00	S	6.30- 8.00	6.00- 7.00	S	S	6.00- 9.00
WTAM	750	399.8	3500	6.00- 7.00	6.00- 9.00	6.00- 9.00	6.00- 9.00	6.00- 9.00	6.00- 9.00	6.00- 9.00
CKAC	730	410.7	1200	S	S	6.30	S	S	S	6.30
WHT	720	416.4	5000	6.00- 7.00	S	6.00- 7.00	6.00- 7.00	6.00- 7.00	6.00- 7.00	6.00- 7.00
WLW	700	428.3	5000	6.00- 8.00	6.00- 9.00	6.00- 9.00	6.00- 9.00	6.00- 9.00	6.00- 9.00	6.00- 9.00
WJR	680	440.9	5000	7.00- 7.30	6.00- 7.00	6.00- 7.00	6.00- 9.00	6.00- 7.00	6.00- 7.00	6.00- 7.00
WMAQ	670	447.5	1000	S	6.00- 7.00	6.00- 7.00	6.00- 7.00	6.00- 7.00	6.00- 7.00	6.00- 7.00
WJZ	680	454.3	30000	6.00- 7.50	6.00- 7.50	6.00- 7.50	6.00- 7.50	6.00- 7.50	6.00- 7.50	6.00- 7.50
WSB	630	475.9	1000	6.15	6.00- 7.00 8.45-10.00	6.00- 7.00	6.00- 7.00	6.00- 7.00	6.00- 7.00 8.45-10.00	6.00- 7.00 8.45-10.00
WBAP	600	499.7	1500	S	6.00-10.00	6.00- 9.00	S	6.00-10.00	6.00-10.00	6.00- 9.00
WFAA	600	499.7	500	6.30- 7.30 9.00-10.00	6.30- 7.30	6.30- 7.30	6.30- 7.30	6.30- 7.30	6.30- 7.30	6.30- 7.30 9.00-10.00
WOW	580	508.2	1000	7.00	7.00- 9.00	7.00- 9.00	S	7.00- 9.00	7.00- 9.00	7.00- 9.00
KYW	570	526	2500	6.30- 7.55	6.00- 8.55	6.00- 8.55	6.00- 8.55	6.00- 8.55	6.00- 8.55	6.00- 8.55
WHO	560	535.4	5000	S	6.00- 7.30	6.00- 7.30	S	6.00- 7.30	6.00- 7.30	S
KBD	560	545.1	500	S	S	6.00- 6.30	6.00- 6.30	S	S	S

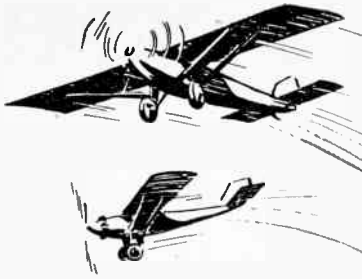
## RAY CAMPBELL

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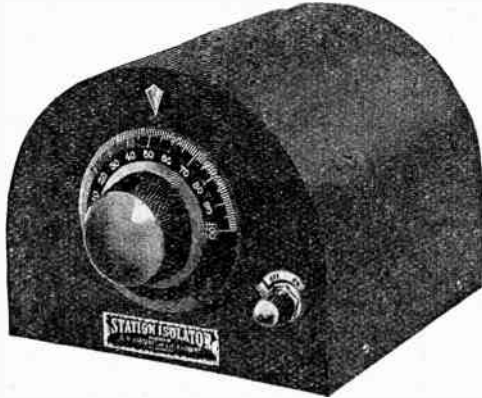




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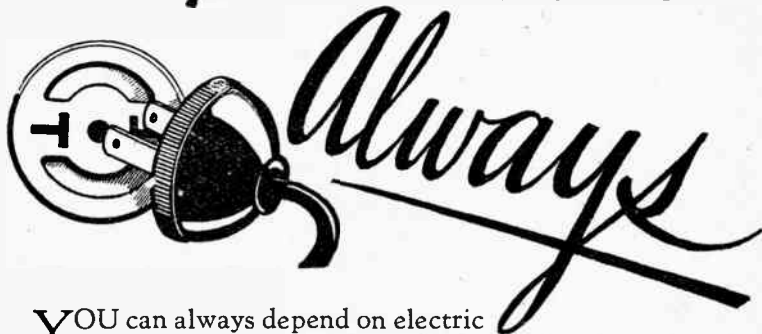
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**[ If your dealer does not handle the Preston Ground, send us his name and yours. We'll mail you a descriptive folder FREE. ]**

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ROBERT HURD, Program Manager

### ROBERT HURD

#### WEEK COMMENCING SUNDAY, DECEMBER 4, 1927

##### SUNDAY, DECEMBER 4

- 10:00 to 11:00 a. m.—Morning service under L. A. Church Federation.  
11:00 a. m. to 12:00 noon—Third Church of Christ, Scientist.  
5:30 to 6:30 p. m.—Johnnie Dull and his Melody Boys. Jeane Cowan, blues singer.  
6:30 to 7:30 p. m.—N. B. C. Standard Symphony program for Standard Oil of Calif.  
7:35 to 8:00 p. m.—Bob Buckner.  
8:00 to 9:00 p. m.—N. B. C., Atwater Kent program. Miss May Peterson, soprano; Miss Margo Hughes, pianist. Over P.C.N.  
9:00 to 10:00 p. m.—N. B. C. program.  
10:00 to 11:00 p. m.—Bill Funk and Packard Six Orchestra; Dolly McDonald, blues; Esther Walker, pianist.

##### MONDAY, DECEMBER 5

- 5:30 to 6:00 p. m.—Fred Rose and Marcell Country Club Orchestra; Clarice Russell.  
6:15 to 6:30 p. m.—George Wilder Cartwright Radiatorial Period.  
6:30 to 7:00 p. m.—Gamut Male Quartet.  
7:00 to 8:00 p. m.—Gene Johnston's Music Box Hour; Jene Johnston Trio; Mabel Lanahan, blues singer.  
8:00 to 9:00 p. m.—N. B. C. over P. C. N.  
9:00 to 10:00 p. m.—Program of Famous Musical Masterpieces; Maurine Dyer, contralto; James Burroughs, tenor.  
10:00 to 11:00 p. m.—Metropolitan Dance Orchestra; Red Wyatt and his Uke.

##### TUESDAY, DECEMBER 6

- 5:30 to 6:15 p. m.—The Dragon Hawaiians.  
6:15 to 6:30 p. m.—Florence Sanger.  
6:15 to 6:30 p. m.—Prog. Carl S. Knopf.  
6:30 to 7:00 p. m.—Glenn Edmunds and his Collegians.  
7:00 to 8:00 p. m.—L. A. Fire Dept. Orch. Helen Guest, popular pianist and vocalist.  
8:00 to 8:30 p. m.—Jean Lamph, contralto; Lindsey Campbell, tenor.  
8:30 to 9:00 p. m.—U. S. Playing Card Co. Bridge Games, over P. C. N.  
9:00 to 10:00 p. m.—N. B. C. Nat'l Carbon Co. Eveready Hour over P. C. N.  
10:00 to 11:00 p. m.—N. B. C. program.

##### WEDNESDAY, DECEMBER 7

- 10:45 to 11:05 a. m.—Betty Crocker Gold Medal Talk.  
12:10 to 12:50 p. m.—Christian Science Lecture from Third Church, James G. Rowell, C.S., of Kansas City, Mo.  
5:30 to 6:15 p. m.—Sebastian's Cotton Club.  
6:15 to 6:30 p. m.—Dr. H. Edward Myers.  
6:30 p. m.—Hal Chasnoff's Orchestra.  
7:30 to 7:45 p. m.—Nick Harris, Detective Stories, "The Gilded Cross."  
7:45 to 8:00 p. m.—Wm. MacDougall, Scotch Entertainer.  
8:00 to 9:00 p. m.—Calif. Pet. Corp. Calpet Male Quartet, Freeman High, director;

##### THURSDAY, DECEMBER 8

- 5:30 to 6:15 p. m.—Leon Rene and Southern Syncopators.  
6:30 to 7:00 p. m.—Henry Starr, popular vocalist and pianist.  
7:00 to 8:00 p. m.—Program by University of Southern California.  
8:00 to 8:30 p. m.—Drama Hour, direction of Louise Bowden.  
8:30 to 9:00 p. m.—Eric Strothmere, baritone; Louise Gillies, soprano.  
9:00 to 10:00 p. m.—N. B. C. program of Modern Music—Sol Cohen, violinist; Robert Alter, 'cellist; Zhay Clark, harpist; Wells Hively, pianist; Robert Hurd, tenor—over P. C. N. from L. A. Studio.  
10:00 to 11:00 p. m.—Program of Modern Classical Music; Purcell Mayer in Violin Classics.

##### FRIDAY, DECEMBER 9

- 10:45 to 11:05 a. m.—Betty Crocker, Gold Medal Talk.  
5:30 to 6:00 p. m.—Si Darling Arkansas Orchestra.  
6:00 to 6:15 p. m.—Florence Sanger, Piano Moods.  
6:30 to 7:00 p. m.—Norma West, in Ballads of All Lands, with Donald Scott.  
7:00 to 8:00 p. m.—Artist Student Club—Juniors of Los Angeles Opera and Fine Arts Club—direction of Mildred Sanger House.  
8:00 to 9:00 p. m.—Ira D. Morgan, baritone; Florence Thompson, accompanist; Boris Myronoff, concert pianist.  
9:00 p. m.—N. B. C. program, An Hour in Memory Lane, over P. C. N.  
10:00 to 11:00 p. m.—John Slingerland, baritone; Edna Bilea, contralto.

##### SATURDAY, DECEMBER 10

- 5:30 p. m.—Strangers Social Club Orch.  
6:15 to 6:30 p. m.—Francis Sullivan.  
6:30 to 7:00 p. m.—Tarvin Sisters.  
7:00 to 8:00 p. m.—Wilfred Fletcher, tenor; Verna Arvery, concert pianist; Velipe Delgado, Spanish baritone; Ida Marston, pianist.  
8:00 to 9:00 p. m.—N. B. C. program over P. C. N.  
9:00 to 10:00 p. m.—N. B. C., Philadelphia Storage Battery Co., over P. C. N.  
10:00 to 11:00 p. m.—Packard program.  
11:00 to 12:00 p. m.—KFI Midnight Frolic.

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**WILLIAM RAINEY**  
Announcer

# National Broadcasting Co., Inc.

## PACIFIC COAST NETWORK

**KFI - KPO - KGO - KGW - KOMO - KFOA - KHQ**

Program for Week Commencing Sunday, December 4

### Sunday, Dec. 4—6:30 to 7:30 P. M.

Standard Symphony Concert. These concerts are presented weekly by the Standard Oil Company of California. The Standard Symphony Orchestra is under the direction of Nathan Abas, violinist. Tonight's soloist will be the distinguished 'cellist, Michel Penha.

### Sunday, Dec. 4—8 to 9 P. M.

Atwater Kent Radio Hour. Miss May Peterson, soprano, former soloist of the New York Metropolitan Opera Company, and Opera Comique, Paris, is presenting this evening's program.

### Sunday, Dec. 4—9 to 10 P. M.

Great Moments of History. "The Execution of John Brown." The National Players with a cast headed by William Rainey and Jean Paul King will enact the outstanding events surrounding this historical character. John Brown, sometimes called the "Fighting Farmer," devoted his life to the freeing of the slaves. It is said that "he began the war that ended slavery and made this a free republic." The historical incidents leading up to his execution on December 16, 1859, will be dramatized as prepared for radio by Henry Fisk Carlton. An appropriate musical program will mark the opening and closing of the hour.

### Monday, Dec. 5—8 to 9 P. M.

Spotlight Hour. A variety of popular and semi-classical selections make up this evening's Spotlight Hour. The instrumental portion of this new presentation introduces selections from Victor Herbert's most tuneful musical comedy, "The Serenade," and "Bohemian Girl," Balfe's charming orchestral fantasy.

### Tuesday, Dec 6—8:30 to 9 P. M.

Bridge Lessons. The sixth radio auction bridge game, one of a weekly series, will be broadcast. The experts who have prepared the hands for this game are Mr. Joseph W. Evans of Houston, Texas, Mr. Wilbur C. Whitehead of New York, Mr. Milton C. Work of New York, and Mrs. E. L. Bradbury of Dallas, Tex.

### Tuesday, Dec. 6—9 to 10 P. M.

Eveready Hour. The Eveready Orchestra under the direction of Max Dolin and the Eveready Rounders will entertain listeners with their characteristic bits of melody.

### Tuesday, Dec. 6—10 to 11 P. M.

Retold Tales. The story is taken from the pen of O. Henry and is entitled "Black Jack Bargainer." Henry Fisk Carlton in his radio version presents in a dramatic and particularly effective manner all the original humor and

interest of this remarkable story. Jean Paul King will head the cast in this evening's presentation. Dorothy Talbot, coloratura soprano, will be featured in two solos, while, as usual, the National Broadcasting Co. orchestra will open and close the hour with selections designed to furnish a fitting musical background.

### Wednesday, Dec. 7—9 to 10 P. M.

The Vagabonds. The Vagabonds spend their time wandering over America in times present and past looking for adventure amid typical scenes of our national life. Tonight they will present in radio form their adventures while "harnstorming."

### Thursday, Dec. 8—9 to 10 P. M.

Another program of modern music will be offered tonight from the Los Angeles studios of the National Broadcasting Co.

### Saturday, Dec. 10—8 to 9 P. M.

R. C. A. Hour. As the thin sweet music of the Music Box fades away the R. C. A. 15-piece orchestra will open its part of the program, playing "Faust Frivolities," a modern arrangement of the famous opera. In this selection prominent airs from "Faust" are treated in a gentle manner without abusing the originality of the score. The R. C. A. soloists, Barbara Blanchard, Margaret O'Dea and Wm. Rainey, will be heard in several numbers.

### Saturday, Dec. 10—9 to 10 P. M.

Tonight's Philco Hour features a prominent operatic and concert star in the person of Miss Alina Peterson, dramatic soprano. Having one of the most beautiful voices of the day, Miss Peterson, has been the subject of much comment. She was born in Minnesota, received her early studies in St. Paul, and from there was engaged by the Chicago Grand Opera, where she remained for five seasons. Leaving this organization, she went to Milan, Italy, for further study, and later coached with Heriman Devries, of Chicago.

In concert and oratorio appearances, her success has been even more sensational, if such is possible. She has appeared as soloist with the famous North Shore Festival, Chicago, as well as with many other major festivals. She has also appeared as soloist with several of the major symphony orchestras. Her largely featured radio appearances are rapidly bringing her great art to the attention of all music lovers.

### Saturday, Dec. 10—10 to 11 P. M.

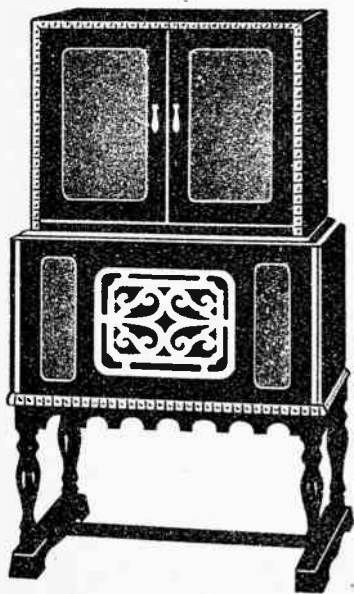
Saturday Night Revue. A varied program of entertainment will be in order tonight. The Saturday Night Revue, a regular National Broadcasting Co. presentation, will introduce recent prominent orchestral and vocal successes.

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WEEK COMMENCING SUNDAY, DECEMBER 4, 1927

### SUNDAY, DECEMBER 4

10:00 to 10:30 a.m.—KHJ Studio sermon.  
10:30 to 12:30 p.m.—Services from First M.  
E. Church.  
7:00 to 8:00 p.m.—First M. E. Church.  
8:00 to 10:00 p.m.—Studio program.

### MONDAY, DECEMBER 5

6:00 to 7:00 p.m.—Dinner hour program.  
7:00 to 8:00 p.m.—Concert Orchestra and  
Ensemble.  
8:00 to 8:15 p.m.—World-wide News, cour-  
tesy of Los Angeles Times.  
8:15 to 10:00 p.m.—Studio program.

### TUESDAY, DECEMBER 6

6:00 to 7:00 p.m.—Dinner hour program.  
7:00 to 8:00 p.m.—Concert Orchestra and  
Ensemble.  
8:00 to 8:15 p.m.—World-wide News, cour-  
tesy of Los Angeles Times.  
8:15 to 10:00 p.m.—Studio program.

### WEDNESDAY, DECEMBER 7

6:00 to 7:00 p.m.—Dinner hour program.  
7:00 to 8:00 p.m.—Concert Orchestra and  
Ensemble.

8:00 to 8:15 p.m.—World-wide News, cour-  
tesy of Los Angeles Times.  
8:15 to 10:00 p.m.—Studio program.

### THURSDAY, DECEMBER 8

6:00 to 7:00 p.m.—Dinner hour program.  
7:00 to 8:00 p.m.—Concert Orchestra and  
Ensemble.  
8:00 to 8:15 p.m.—World-wide News, cour-  
tesy of Los Angeles Times.  
8:15 to 10:00 p.m.—Studio program.

### FRIDAY, DECEMBER 9

6:00 to 7:00 p.m.—Dinner hour program.  
7:00 to 8:00 p.m.—Concert Orchestra and  
Ensemble.  
8:00 to 8:15 p.m.—World-wide News, cour-  
tesy of Los Angeles Times.  
8:15 to 10:00 p.m.—Studio program.

### SATURDAY, DECEMBER 10

6:00 to 7:00 p.m.—Dinner hour program.  
7:00 to 8:00 p.m.—Concert Orchestra and  
Ensemble.  
8:00 to 8:15 p.m.—World-wide News, cour-  
tesy of Los Angeles Times.  
8:15 to 10:00 p.m.—Studio program.

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Manager

### DAILY EXCEPT SUNDAY—

- 6:45 to 8:00 a. m.—Gold Seal early bird exercises, courtesy of Sanitary Gold Seal Dairy.
- 8:00 a. m.—Inspirational talk and morning prayer.
- 8:55 a. m.—Time Signals from Washington, D. C., followed by Birthday Notices.
- 9:00 a. m.—Radio Shopping News, conducted by Carrie Preston Rittmeister.
- 10:00 a. m.—Town Crier of the Day's morning message.
- 10:30 a. m.—Kate Brew Vaughn, director Household Economics Department, Evening Express, except Friday and Saturday.
- 12:00 noon.—Musical program.
- 12:30 p. m.—W. F. Alder Travelogue.
- 1:30 p. m.—The Bookworm.
- 2:00 p. m.—Musical program.
- 3:00 p. m.—C. P. R.'s musical program.
- 4:15 p. m.—Lost and Found announcements.
- 4:25 p. m.—Market reports.
- 5:00 p. m.—"Own Your Own Home," by Chet Mittendorf.
- 5:45 p. m.—"Amusement Tips."
- 6:00 p. m.—Biltmore Hotel Orchestra, broadcast from the Biltmore Dining Room.
- 6:30 p. m.—Dinner hour concert, directed by Paul Finstein.

### DAILY EXCEPT SUNDAY AND TUESDAY—

- 10:00 p. m.—Earl Burnett's Biltmore Hotel Orchestra, except Friday.
- 11:00 p. m.—Hotel Ambassador; Gus Arnheim's Cocoanut Grove Orchestra.

### WEEK COMMENCING SUNDAY, DECEMBER 4, 1927

#### SUNDAY, DECEMBER 4

- 10:00 a. m.—First Presbyterian Church of Hollywood.
- 2:00 to 4:00 p. m.—City Park Board musical program.
- 5:15 p. m.—All-Souls Church.
- 6:30 p. m.—First Unitarian Church.
- 7:00 p. m.—First Presbyterian Church of Hollywood.
- 8:00 p. m.—Circle Theatre Concert Orch., courtesy of Electric Lighting & Supply Co.
- 9:00 p. m.—Calmon Luboviski, master violinist; Claire Mellonino, pianist.

#### MONDAY, DECEMBER 5

- 11:00 a. m.—French lessons by Edgard Leon.
- 2:30 p. m.—"Human Nature" by William Benton.
- 4:30 p. m.—Little Jean and the Town Crier
- 6:45 p. m.—Gene Leonard, through the courtesy of Platt Music Co.
- 7:00 p. m.—Feature program.
- 7:30 p. m.—One Act play by the KNX players.
- 8:00 p. m.—Feature program.

#### TUESDAY, DECEMBER 6

- 11:15 a. m.—French lessons by Edgard Leon.
- 12:45 p. m.—Advertising Club luncheon from the Biltmore Hotel.
- 4:00 p. m.—Little Joyce Coad, movie star.
- 7:00 p. m.—Feature program.
- 7:30 p. m.—Birkel Music Co. program.
- 8:00 p. m.—Earl Burnett's Biltmore Hotel Orchestra.
- 9:00 p. m.—Grauman's Chinese Theatre
- 10:00 p. m.—Hotel Ambassador, Gus Arnheim's Cocoanut Grove orchestra.

#### WEDNESDAY, DECEMBER 7

- 11:00 a. m.—Charles W. Hamp.

- 4:00 p. m.—Garden talk by Dewey R. Kruckeberg.
- 7:00 p. m.—Feature program.
- 7:30 p. m.—Charles Hamp.
- 8:00 p. m.—Security Trust & Savings Bank

#### THURSDAY, DECEMBER 8

- 11:00 a. m.—Talk on insects by H. W. McSpadden.
- 4:00 p. m.—Louise Johnson giving horoscopes.
- 7:00 p. m.—Carthay Circle Theatre organ recital.
- 8:00 p. m.—Calmon Luboviski, master violinist; Claire Mellonino, pianist.
- 9:00 p. m.—Zenith Carbuetor Co.

#### FRIDAY, DECEMBER 9

- 4:00 p. m.—L. A. District Federation of Womens' Clubs musical program.
- 6:00 p. m.—Dinner program.
- 6:45 p. m.—Gene Leonard of the Platt Music Co.
- 7:00 p. m.—Desmond's College Rally program.
- 8:00 p. m.—Davis Perfection Bread Co.
- 9:00 p. m.—Earl Burnett's Biltmore Hotel Orchestra.
- 10:00 p. m.—Broadcasting the Main Events from the Hollywood Legion Stadium.

#### SATURDAY, DECEMBER 10

- 2:15 p. m.—Broadcasting the football game from the Los Angeles Coliseum.
- 7:00 p. m.—Stories of insect life by Harry W. McSpadden.
- 7:15 p. m.—Announcement of Sunday services of the leading L. A. churches.
- 7:30 p. m.—Feature program.
- 12:00 M.—The Midnight Express.

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**DAILY EXCEPT SUNDAY—**

10:00 to 10:30 a. m.—Air Circus, except Thursday.  
10:30 a. m.—Aunt Sammy Talks, except Saturday.  
11:45 to 12:30 p. m.—Shopping Directory.  
12:30 to 1:30 p. m.—Who's Who.  
1:30 to 2:30 p. m.—Classified Hour.

4:45 to 5:15 p. m.—Air Circus.  
5:15 to 5:45 p. m.—Radio Review.  
5:45 to 6:00 p. m.—Town Tattler.  
6:00 to 7:00 p. m.—Dinner Hour Concert.  
7:50 to 8:00 p. m.—Daily News, except Saturday.  
10:00 to 11:00 p. m.—Dance program.  
11:00 to 12:00 midnight—Dance music.

**WEEK COMMENCING SUNDAY, DECEMBER 4, 1927**

**SUNDAY, DECEMBER 4**

7:30 to 7:50 p. m.—Musical program.  
7:50 to 8:00 p. m.—Daily News.  
8:00 to 9:00 p. m.—Light Opera program by courtesy of the Overell Furniture Co., featuring Emma Kimmel, soprano; Ralph Reiley, tenor, and Jack Cronshaw's Orchestra.  
9:00 to 9:10 p. m.—Daily News.  
9:10 to 10:00 p. m.—Ragtime Review.

**MONDAY, DECEMBER 5**

7:00 to 7:20 p. m.—Robert Cheatham, baritone; Lucille Scott, pianist.  
7:20 to 7:50 p. m.—Musical program.  
8:00 to 9:00 p. m.—Warner Bros. Hawaiian Trio; June Parker, blues songs.  
9:00 to 10:00 p. m.—Vernon Rickard, tenor; Leon Belasky's Concert Quartette.

**TUESDAY, DECEMBER 6**

7:00 to 7:30 p. m.—Hugh Wellington Martyn, baritone; Marguerite Musche, soprano; Don Warner, pianist.  
7:30 to 8:00 p. m.—Program by courtesy of Strasska Laboratories, featuring Charlie Hamp, entertainer.  
8:00 to 8:10 p. m.—Daily News.  
8:10 to 9:00 p. m.—Ann Grey, blues songs; Warner Bros. Dance Orchestra.  
9:00 to 10:00 p. m.—Emma Kimmel, soprano; Jack Cronshaw's Concert Quartette.

**WEDNESDAY, DECEMBER 7**

2:30 to 4:45 p. m.—The Landry-Dooley Orchestra by remote control from the Cinderella Roof Ballroom.  
7:00 to 7:50 p. m.—Program presented by Radio Doings, featuring Audrey Davis in ballads; Glenn Edmunds and his Collegians.  
8:00 to 9:00 p. m.—Archie Ruggles, tenor; Cyril Codwin's Concert Trio.

9:00 to 10:00 p. m.—Gene Johnston's Hour, featuring his trio and vocal soloists.

**THURSDAY, DECEMBER 8**

7:00 to 7:20 p. m.—Musical program.  
7:20 to 7:50 p. m.—Program by courtesy of the Elec-True-Tone Corporation.  
8:00 to 9:00 p. m.—Morris Sisters, harmony numbers; Warner Bros. Hawaiian Trio.  
9:00 to 10:00 p. m.—David Percy, baritone; Louise Sullivan's Trio.

**FRIDAY, DECEMBER 9**

4:15 to 4:45 p. m.—A. T. Rainey, Psychic.  
7:00 to 7:30 p. m.—A one-act play presented by the Playshop Players.  
7:30 to 7:50 p. m.—Musical program.  
8:00 to 9:00 p. m.—Ann Grey, blues songs; The Hollywood Serenaders.  
9:00 to 10:00 p. m.—Wm. Franklin, tenor; Warner Bros. Concert Quartette.

**SATURDAY, DECEMBER 10**

2:30 to 3:30 p. m.—Harry Owens and his orchestra by remote control from Rainbow Isle of the Mayfair Hotel.  
3:30 to 3:45 p. m.—Musical program.  
3:45 to 4:45 p. m.—The Landry-Dooley Orchestra by remote control from the Cinderella Roof Ballroom.  
7:00 to 7:30 p. m.—Musical program.  
7:30 to 8:00 p. m.—Program in honor of the Illustrated Daily News.  
8:00 to 9:00 p. m.—Program by courtesy of the MonoMotor Oil Company, featuring the MonoMotor Oilers; Lilyan May Challengeter, contralto.  
9:00 to 10:00 p. m.—The Landry-Dooley Orchestra by remote control from the Cinderella Roof Ballroom.

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**DAILY EXCEPT SUNDAY—**

- 7:00 to 7:30 a. m.—Setting-up exercises by Professor Barclay L. Severns.  
7:30 to 8:30 p. m.—Louise Howatt's Hour of Happiness.  
8:45 to 9:00 a. m.—Time signals from Washington, D. C., and musical numbers.  
11:00 a. m. to 12:00 noon—"Don't Go 'Way, Folks," Hour, directed by Charlie Wellman.  
12:00 to 12:30 p. m.—Weaver-Jackson Beauty Hints.  
12:30 to 1:00 p. m.—Rose Russell's Luncheon Bulletins.  
1:30 to 2:30 p. m.—KMTR Press Agent Hour.  
4:30 to 5:00 p. m.—Certified Air Bulletin.  
6:00 to 6:15 p. m.—Nightly Doings.  
6:15 to 6:45 p. m.—Dinner hour program, featuring the Marguerite Le Grand Trio.  
6:45 to 7:30 p. m.—Fitzgerald Music Company courtesy program, featuring Ampico and Panatrope.  
10:00 to 11:00 p. m.—Miller's Cafe Lafayette Dance Orchestra, Ray West, director.

**WEEK COMMENCING SUNDAY, DECEMBER 4, 1927**

**SUNDAY, DECEMBER 4**

- 6:15 to 6:30 p. m.—Nightly Doings.  
6:30 to 7:00 p. m.—Burr McIntosh's Half-Hour of Cheer.  
7:00 to 8:00 p. m.—Miller's Cafe Lafayette Concert Orchestra.  
8:00 to 10:00 p. m.—KMTR feature program, presenting Loren Powell's Little Symphony and assisting artists.

**MONDAY, DECEMBER 5**

- 5:15 to 5:30 p. m.—Chiropractic Health Talk by Dr. T. F. Ratledge.  
7:30 to 8:00 p. m.—Thirty Minutes of Sunshine, with Charles Hamp, representing Dr. Strasska's Tooth Paste.

**TUESDAY, DECEMBER 6**

- 8:00 to 10:00 p. m.—Courtesy program.  
9:00 to 10:00 a. m.—Sylvia, the Blind Cook.  
10:00 to 11:00 a. m.—Hair Again program.  
3:30 to 4:00 p. m.—L. A. Police Quartet.  
4:00 to 4:30 p. m.—Mae Day Beauty Salon courtesy program.  
5:00 to 5:15 p. m.—Health talk by Prof. Mendelsohn of the Clinical Institute.  
7:30 to 8:00 p. m.—Game of "Ask Me Another," Edward Murphy.  
8:00 to 9:00 p. m.—Maxwell House Coffee Co., courtesy program, featuring the Maxwell House Coffee Orchestra and Jean Cameron, soprano, and Eleanor Bryan, contralto, in a Southern program.  
9:00 to 10:00 p. m.—C. E. Toberman Company program.

**WEDNESDAY, DECEMBER 7**

- 9:30 to 10:00 a. m.—Travel talk by Dr. S. J. Mathieson.  
1:00 to 1:30 p. m.—Hollywood Chamber of Commerce.  
5:15 to 5:30 p. m.—Chiropractic Health talk by Dr. T. F. Ratledge.  
6:15 to 7:00 p. m.—Walker's courtesy program.  
7:00 to 7:30 p. m.—Fitzgerald Music Com-

pany courtesy program featuring Brunswick Panatrope.

- 7:30 to 8:00 p. m.—Overell's Furniture Company courtesy program, featuring Overell KMTR Players in a one-act play, directed by Edward Murphy.  
8:00 to 10:00 p. m.—Walker's courtesy program.

**THURSDAY, DECEMBER 8**

- 7:30 to 8:00 p. m.—Thirty Minutes of Sunshine with Charles Hamp, representing Dr. Strasska's Tooth Paste.  
8:00 to 10:00 p. m.—Ruth Roland.

**FRIDAY, DECEMBER 9**

- 10:00 to 11:00 a. m.—Thirty Minutes of Sunshine with Charles Hamp, representing Dr. Strasska's Tooth Paste.  
1:15 to 1:30 p. m.—Walter Brown Murray, "How to Make Children Behave."  
3:30 to 4:00 p. m.—Pacific Electric Art.  
5:15 to 5:30 p. m.—Chiropractic Health Talk by Dr. T. F. Ratledge.

- 6:15 to 7:00 p. m.—Walker's courtesy program.  
7:00 to 7:30 p. m.—Fitzgerald Music Company courtesy program, featuring Brunswick Panatrope.

- 7:30 to 8:00 p. m.—Chatham's courtesy program.

- 8:00 to 8:30 p. m.—Robertson Co. courtesy program.

- 8:30 to 9:00 p. m.—Courtesy program.

- 9:00 to 10:00 p. m.—C. E. Toberman Company courtesy program.

- 10:00 to 12:00 noon—Miller's Cafe Lafayette

- SATURDAY, DECEMBER 10**  
9:00 to 10:00 a. m.—Sylvia, the Blind Cook.

- 10:30 to 11:00 a. m.—Gordon Whitnall of the City Planning Commission.

- 7:30 to 7:40 p. m.—M. D. Benesh of the Sheriff's Office.

- 7:40 to 8:00 p. m.—KMTR Movie Club.  
8:00 to 10:00 p. m.—Courtesy program.



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## DAILY EXCEPT SUNDAY—

- 11:00 to 12:00 a. m.—Baron Keyes Diversities.  
 3:00 to 4:00 p. m.—Palais de Dance, by remote control.  
 4:00 to 4:30 p. m.—Health Bulletin, except Saturday.  
 4:30 to 5:00 p. m.—Air Castle.  
 5:00 to 6:00 p. m.—Sundown Frolic; conducted by Baron Keyes.  
 6:00 to 6:55 p. m.—Dinner Hour program.  
 6:55 to 7:00 p. m.—Sports Review, from the "Referee."  
 7:00 to 8:00 p. m.—KPLA Orchestra and other KPLA artists.  
 10:00 to 11:00 p. m.—Palais de Dance, by remote control.

## WEEK COMMENCING SUNDAY, DECEMBER 4, 1927

**SUNDAY, DECEMBER 4**  
 7:30 to 8:00 p. m.—Dr. David Edstrom, Art lecture.

8:00 to 10:00 p. m.—KPLA Orchestra.

**MONDAY, DECEMBER 5**

8:00 to 9:00 p. m.—Ilda Schutz, soprano;  
 Coral Atkin, pianist; Fred Clint, violinist.  
 9:00 to 10:00 p. m.—Hal Shasnoff String Ensemble; Mable Lenahan.

**TUESDAY, DECEMBER 6**

8:00 to 8:30 p. m.—Bob Harker and Tod Watterman.

8:30 to 9:00 p. m.—Virginia McCoy and Edward Overby.

9:00 to 9:30 p. m.—Bert Fahrquason, Frankie Merlowe, Charlie Ilch, Mildred Proster.

9:30 to 10:00 p. m.—Returns of the main event from Olympic Auditorium.

**WEDNESDAY, DECEMBER 7**

5:00 to 5:30 p. m.—Spanish course, presented by Dr. Wm. F. Rice, R. A. Ramirez, F. Piera Gamba, Antonio Herras, Prof. Henry C. Niesa.

8:00 to 8:30 p. m.—Billy Barron, Sam Roland in Vibraphone solos.

8:30 to 9:00 p. m.—Mable Lenahan and Red Wyatt.

9:00 to 10:00 p. m.—Frank Barry, tenor; Pat O'Neli, baritone; Grady T. Sampson, pianist.

**THURSDAY, DECEMBER 8**

5:00 to 5:30 p. m.—The Philosophy of Poetry.

8:00 to 8:30 p. m.—Nunez Trio.

8:30 to 9:00 p. m.—G. E. Roletti and James Mulligan.

9:00 to 10:00 p. m.—Original Musical Shows, written and presented by Baron Keyes and Lee Harline.

**FRIDAY, DECEMBER 9**

5:00 to 5:30 p. m.—Spanish course, presented by Dr. Wm. F. Rice, R. A. Ramirez, F. Piera Gamba, Antonio Herras, Prof. Henry C. Niesa.

8:00 to 8:30 p. m.—Waikiki Hawaiian Trio.

8:30 to 9:00 p. m.—Hulda Dietz and Neil Russell.

9:00 to 10:00 p. m.—Aroldo Colini, concert tenor, with the Florentine String Trio.

**SATURDAY, DECEMBER 10**

8:00 to 9:00 p. m.—Carfagne String Quartette; Emma Kimmell and Glen Pearce.

9:00 to 10:00 p. m.—Waiwiwi Hawaiian Trio and the Dare Sisters.

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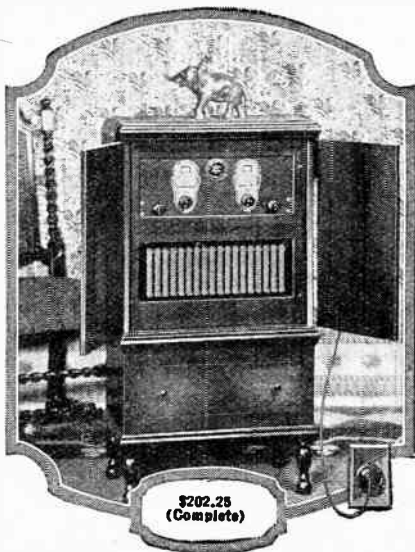
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DAILY EXCEPT SUNDAY AND MONDAY—

10:30 to 11:30 a. m.—Sunshine Hour.  
11:30 a. m. to 12:30 p. m.—Noonday Musical.  
2:30 to 3:30 p. m.—Grey Studio Program, except Wednesday.  
6:30 to 7:30 p. m.—Angelus Hour.

WEEK COMMENCING SUNDAY, DECEMBER 4, 1927

SUNDAY, DECEMBER 4

10:30 a. m. to 12:30 p. m.—Sunday morning worship, Aimee Semple McPherson.  
2:30 to 4:40 p. m.—Sunday afternoon, Dispensational, Aimee Semple McPherson.  
6:30 to 9:30 p. m.—Revival Service, Aimee Semple McPherson.  
10:00 to 11:00 p. m.—Organ Recital, Esther Fricke Greene.

TUESDAY, DECEMBER 6

3:30 to 4:30 p. m.—Vesper Hour.  
7:30 to 9:15 p. m.—Evangelistic Service, Evangelist John Goben.

WEDNESDAY, DECEMBER 7

2:30 to 4:30 p. m.—Divine Healing Service, Aimee Semple McPherson.

7:30 to 9:30 p. m.—Regular Midweek Prayer Service, Aimee Semple McPherson.

THURSDAY, DECEMBER 8

3:30 to 4:30 p. m.—Vesper Hour.  
7:30 to 9:15 p. m.—Water Baptismal Service, Aimee Semple McPherson.  
9:15 to 10:00 p. m.—Grey Studio program.  
10:00 to 11:00 p. m.—Organ Recital, Esther Fricke Greene.

FRIDAY, DECEMBER 9

3:30 to 4:30 p. m.—Vesper Hour.  
7:30 to 9:30 p. m.—Crusader Rally, Aimee Semple McPherson.

SATURDAY, DECEMBER 10

3:30 to 4:30 p. m.—Children's Happy Hour.  
7:30 to 9:30 p. m.—Divine Healing Service, Aimee Semple McPherson.

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8:45 to 9:15 a. m.—Devotional Hour.  
2:00 to 3:00 p. m.—Inspirational Hour, except Monday.  
8:00 to 9:00 p. m.—Biblical Exposition.

DAILY EXCEPT FRIDAY AND SUNDAY—

7:15 to 8:00 p. m.—Aunt Martha's Children's Hour.

WEEK COMMENCING SUNDAY, DECEMBER 4, 1927

SUNDAY, DECEMBER 4

10:45 a. m. to 12:30 p. m.—Regular service, Church of the Open Door.  
3:00 to 4:00 p. m.—Jewish Radio Hour.  
6:00 to 7:00 p. m.—Radio Vesper Service.  
7:15 to 9:30 p. m.—Regular evening Service, Church of the Open Door.

MONDAY, DECEMBER 5

2:00 to 3:00 p. m.—Monday Club.

FRIDAY, DECEMBER 9

6:15 to 7:00 p. m.—Aunt Martha's Children's Hour.  
7:00 to 8:00 p. m.—Exposition of International Sunday School lesson.

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6:30 to 8:30 a. m.—Breakfast Hour, featuring Ted Greenwaldt and his Early Birds, courtesy of the Aero-Adds Service.

8:30 to 9:30 a. m.—Gordon Smith's Radiotising Service, with Jack Brooks singing novelty songs with guitar accompaniment.

12:00 to 1:00 p. m.—Merchants' Radio Advertising Bureau program, featuring Classical Hour on the Electrola.

1:00 to 3:30 p. m.—Merchants' Radio Advertising Bureau, featuring Lon Parker, contralto; Joan Billings, piano; James Knight Carden, announcer.

3:30 to 4:30 p. m.—Gordon Smith's Radiotising Service, featuring Whispering Jack Don.

6:00 to 7:00 p. m.—Special programs through the courtesy of the Aero-Adds Service.

7:00 to 8:00 p. m.—Gordon Smith's Radiotising Service with varied studio programs.

8:00 to 9:00 p. m.—El Patio Ballroom, by remote control from the ballroom.

12 midnight to 6:30 a. m.—Studio program featuring the Electrola; Bob O'Hara, announcer.

(Except Thursday and Sundays.)

**WEEK COMMENCING SUNDAY, DECEMBER 4, 1927****SUNDAY, DECEMBER 4**

9:00 a. m. to 2:30 p. m.—Studio broadcast, featuring the Adkins Saxophone Ensemble

**MONDAY, DECEMBER 5**

6:00 to 7:00 p. m.—Aero-Adds Service, featuring Fred Thomasson and his Entertainers; Otto Hoeg, piano; Billy Eaves, tenor.

7:00 to 8:00 p. m.—Gordon Smith's Radiotising Service, featuring the Imperial Orch.

**TUESDAY, DECEMBER 6**

6:00 to 7:00 p. m.—Aero-Adds Service, with Billy Eaves, tenor, and Otto Hoeg, piano.

7:00 to 8:00 p. m.—Gordon Smith's Radiotising Service, featuring the Imperial Orch.

**WEDNESDAY, DECEMBER 7**

6:00 to 7:00 p. m.—Aero-Adds Service, with Marjorie Murray, blues singer; Margaret Mucario, pianist; Billy Eaves, tenor;

**THURSDAY, DECEMBER 8**

6:00 to 7:00 p. m.—Aero-Adds Service, with studio program.

7:00 to 8:00 p. m.—Gordon Smith's Radiotising Service, featuring Miss Berhman, ballads and popular songs,

**FRIDAY, DECEMBER 9**

6:00 to 7:00 p. m.—Aero-Adds Service; Metropolitan Kiddies Revue.

7:00 to 8:00 p. m.—Gordon Smith's Radiotising Service, featuring the Golden State Hawaiian Trio and Whispering Jack Don.

**SATURDAY, DECEMBER 10**

6:00 to 7:00 p. m.—Aero-Adds Service;

7:00 to 8:00 p. m.—Gordon Smith's Radiotising Service, featuring Miss Behrman, ballads and popular songs;

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**WEEK COMMENCING SUNDAY, DECEMBER 4, 1927****SUNDAY, DECEMBER 4**

10:45 to 12:00 p. m.—Morning service.

5:00 to 6:00 p. m.—Vesper service.

7:00 to 8:00 p. m.—Trinity Choir, and ensemble.

8:00 to 9:00 p. m.—Bob Shuler.

9:00 to 10:00 p. m.—Old Songs Quartet.

10:00 to 10:30 p. m.—Bob Shuler.

7:45 to 8:30 p. m.—Blakeman Trio.

8:30 to 9:00 p. m.—Maude Reeves Barnard.

9:00 to 9:30 p. m.—Bob Shuler.

9:30 to 10:00 p. m.—Richardson's

**THURSDAY, DECEMBER 8**

6:00 to 7:00 p. m.—Children's

7:00 to 7:30 p. m.—Studio Impromptu.

7:30 to 8:00 p. m.—Judge Henry G. King.

8:00 to 9:00 p. m.—J. T. Rumbles Concert.

9:00 to 9:30 p. m.—Silvertone Hawaiian Trio.

9:30 to 10:00 p. m.—So. Christian Church Bereans.

**FRIDAY, DECEMBER 9**

6:30 to 7:00 p. m.—Mary Grace McLaughlin and Doyle Cole.

7:00 to 7:30 p. m.—Dr. Fredus Nelson Peters.

7:30 to 8:00 p. m.—Loucile Bailey Kimble.

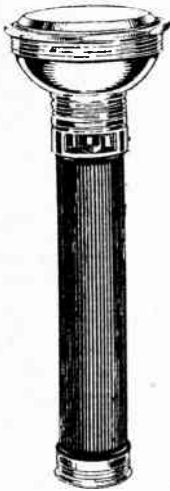
8:00 to 8:30 p. m.—Bob Shuler.

8:30 to 9:30 p. m.—So. Cal. Holiness Assn.

9:30 to 10:00 p. m.—Ione Conrey, Merle Hancock and Bernice Morrison.

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## DAILY EXCEPT SUNDAY—

- 7:00 to 8:00 a. m.—Shopping List with Happy Jack.  
8:00 to 9:00 a. m.—Little Eddie Barnes hour.  
9:00 to 10:00 a. m.—Frank Martin and Ethel Goldsmith request hour.  
10:00 to 10:15 a. m.—Studio Mail over the air.  
10:15 to 10:30 a. m.—New Idea Main's Market Travels.  
11:00 to 12:00 a. m.—Guitar and banjo, Tiny and Jack, popular numbers.  
12:00 to 1:00 p. m.—Announcement hour.  
1:00 to 2:00 p. m.—Orthophonic concert.  
2:00 to 3:00 p. m.—Classical hour.  
3:00 to 3:45 p. m.—Old-time popular request program, except Wednesday.  
3:45 to 4:00 p. m.—Latest News Bulletins, courtesy of Inglewood Daily News.  
4:00 to 5:00 p. m.—Old-time popular request program, except Tuesday.  
5:00 to 6:45 p. m.—Studio organ recital, except Tuesday, Thursday and Saturday.  
6:45 to 7:00 p. m.—Latest News Bulletins.  
10:00 to 12:00 p. m.—Dance program from Rublayat Ballroom at Huntington Park, except Monday.

## SUNDAY, DECEMBER 4

- 11:00 to 12:15 a. m.—Centinela Baptist Church, by remote control.  
8:00 to 9:15 p. m.—International Bible Students' Association, Questions and Answers.  
**MONDAY, DECEMBER 5**  
7:00 to 8:00 p. m.—Roberts' Golden State Band, courtesy City of Inglewood.  
**TUESDAY, DECEMBER 6**  
4:00 to 5:00 p. m.—Beauty Talk by Mae Day Beauty Salon.  
5:00 to 6:45 p. m.—Geo. Fassett's String Trio.  
7:45 to 8:00 p. m.—Dr. Sherer's Health Talk.  
**WEDNESDAY, DECEMBER 7**  
3:00 to 3:45 p. m.—Police Dept. Safety Talk with Police Quartet.  
4:00 to 4:15 p. m.—Dr. Neil's Talk on Psychology.  
7:45 to 8:00 p. m.—Bridge lessons by A.

## Fred Federlin.

## THURSDAY, DECEMBER 8

- 5:00 to 6:45 p. m.—Geo. Fassett's String Trio.  
7:45 to 8:00 p. m.—Dr. J. Barton, dietician.  
8:00 to 8:30 p. m.—Travelogue, courtesy L. A. Steamship Co.  
9:00 to 10:00 p. m.—"Radio Doings" courtesy program, with Dick Ross' Virginians and Audrey Yvonne Davis.  
**FRIDAY, DECEMBER 9**  
4:00 to 4:15 p. m.—Dr. Neil's talk on Psychology.  
7:45 to 8:00 p. m.—Bridge lessons by A. Fred Federlin.  
**SATURDAY, DECEMBER 10**  
7:45 to 8:00 p. m.—Dr. Meyers on Dental Hygiene.  
8:00 to 10:00 p. m.—Redondo Merchants program, with Dick Ross' Collegians.

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HERSHEL SATTERFIELD, Chief Technician  
PERCY C. PRYOR, Studio Office  
Phone Wakefield 3111

## DAILY EXCEPT SUNDAY—

- 12:15 p. m.—News Bulletin.  
6:00 p. m.—News Bulletin.

## WEEK COMMENCING SUNDAY, DECEMBER 4, 1927

### SUNDAY, DECEMBER 4

- 11:00 a. m.—Services from The First Baptist Church.

### MONDAY, DECEMBER 5

- 8:00 to 9:00 p. m.—Southern California Artists' Ensemble.

### TUESDAY, DECEMBER 6

- 8:00 to 9:00 p. m.—Star-News concert, with

James H. Shearer, organist; Frederick MacMurray, viola soloist, and George Frenger, tenor soloist.

### THURSDAY, DECEMBER 8

- 8:00 to 9:00 p. m.—Pasadena Chamber of Commerce Concert.

### SATURDAY, DECEMBER 10

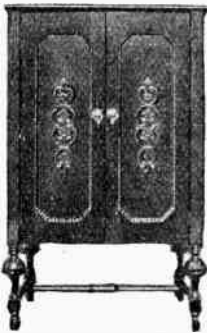
- 8:00 to 9:00 p. m.—Star-News Concert.

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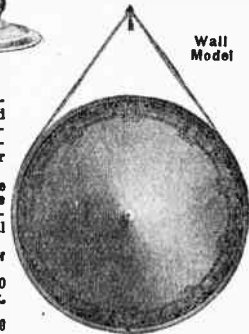


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L. E. TAFT, Technical Engineer  
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### DAILY EXCEPT SUNDAY—

- 11:00 a. m.—Sohmer Welte Mignon Popular Hour, courtesy Barker Bros.  
1:00 to 2:00 p. m.—Panatropé Hour.  
2:00 to 3:00 p. m.—Frank Martin and Hazel McCauley in Popular Numbers.  
3:00 to 4:00 p. m.—KFQZ Studio Orchestra  
4:00 to 5:00 p. m.—Welte Mignon Popular Hour.  
5:00 p. m.—Booster Hour, courtesy Southern California Mfrs. Exhibit.  
6:00 p. m.—Panatropé Dinner Hour, courtesy Barker Brothers. ...  
8:00 to 9:00 p. m.—J. V. Baldwin Hour, with J. V. Baldwin Chevrolet Orchestra, under direction of Jack Lee  
2:00 p. m.—Tryouts (not broadcast). THURSDAY ONLY.

### WEEK COMMENCING SUNDAY, DECEMBER 4, 1927

#### SUNDAY, DECEMBER 4

- 7:00 to 8:00 p. m.—Atkins Saxophone Ensemble; Madge McConnell, soloist.  
8:00 to 9:00 p. m.—Columbia Viva Tonal Records.  
9:00 to 11:00 p. m.—Lou Goldwater's Melody Boys, Charlie Cole, soloist; Jack McGill, Scotch comedian, and Minnie Petrie.

#### MONDAY, DECEMBER 5

- 12:00 to 1:00 p. m.—Jack Lee and His Orchestra, Art Schwartz, Hazel McCauley, Lucia Ruiz Jay.  
7:00 to 8:00 p. m.—Calawaiia Hawaiian Trio, Den Stephens, Lee Fenton and Phyrne Alston.  
9:00 to 10:00 p. m.—Myra Bell Vickers Vocal Hour.

- 10:00 to 11:00 p. m.—Rae Silverman and the California Banjo Boys.

#### TUESDAY, DECEMBER 6

- 12:00 to 1:00 p. m.—Art Schwartz, Lucia Ruiz Jay, Hazel and the Handy Man, Jack Lee and His Orchestra.  
7:00 to 7:30 p. m.—Virginia Robere, Classical Half Hour.  
7:30 to 8:00 p. m.—Lucia Ruiz Jay, Slatel Duo.

- 9:00 to 10:00 p. m.—Morris Sisters, Doris Decker, blues; Charlie Cole, soloist; Jerry Grant and His Elite Dance Orchestra.

- 10:00 to 11:00 p. m.—Fred Wesley, soloist; Jerry Grant and His Elite Dance Orchestra.

#### WEDNESDAY, DECEMBER 7

- 12:00 to 1:00 p. m.—Jack Lee and His Orchestra, Lucia Ruiz Jay.  
7:00 to 8:00 p. m.—Clint Stevenson's Ha-

#### waiian Trio,

- 9:00 to 10:00 p. m.—Joe Edmiston, pianist; Semi-Classical Hour, and Phyrne Alston.  
10:00 to 11:00 p. m.—Fred Wesley, soloist; Wesley Van Doren, melody pianist, and Beverly Play Boys.

#### THURSDAY, DECEMBER 8

- 12:00 to 1:00 p. m.—Lucia Ruiz Jay and the Handy Man. Jack Lee and His Orchestra.  
2:00 to 3:00 p. m.—Tryouts (not broadcast).

- 7:00 to 8:00 p. m.—Leslie E. Taft on Radio Technology.

- 9:00 to 10:00 p. m.—Viola Mayot. Godwin Classical Trio and Alma Brown.  
10:00 to 11:00 p. m.—Frank Clark and His Orchestra and Thelma Black.

#### FRIDAY, DECEMBER 9

- 12:00 to 1:00 p. m.—KFQZ Band, Hazel and the Handy Man.

- 7:00 to 8:00 p. m.—Playgoers Club, founded and conducted by Wedgwood Nowell.

- 9:00 to 10:00 p. m.—Frank Martin, Neva Negus, Lucile Anderson and Hale Hooper and the Two Radio Nuts. KFQZ Orchestra.

- 10:00 to 11:00 p. m.—KFQZ Orchestra.

#### SATURDAY, DECEMBER 10

- 12:00 to 1:00 p. m.—Paris Inn Cafe Orchestra under direction of Chas. Offenberg.

- 7:00 to 8:00 p. m.—Louise Moody Trio and Don Stevens, baritone. Elizabeth Mariner, pianist.

- 9:00 to 10:00 p. m.—Leonard Van Berg and KFQZ Orchestra.

- 10:00 to 11:00 p. m.—Jack Lee and His Orchestra and Leonard Van Berg.



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**DAILY EXCEPT SUNDAY—**

1:30 to 2:30 p. m.—Kierulff & Ravenscroft courtesy program.  
 3:00 to 3:30 p. m.—Story Hour.  
 3:30 to 4:30 p. m.—Crosley Preview.  
 6:00 to 7:00 p. m.—Casa De'l Mar organ.  
 7:00 to 8:00 p. m.—Merchants' Preview.

**WEEK COMMENCING SUNDAY, DECEMBER 4, 1927**

**SUNDAY, DECEMBER 4**

10:45 to 11:45 a. m.—Pilgrim Lutheran Church services.  
 2:30 to 4:00 p. m.—Band concert.  
 7:00 to 8:00 p. m.—Casa del Mar organ.  
 8:00 to 9:00 p. m.—Band concert.

**MONDAY, DECEMBER 5**

1:30 to 2:30 p. m.—Kierulff & Ravenscroft courtesy hour.  
 2:30 to 3:00 p. m.—Request program.  
 8:00 to 10:00 p. m.—Studio program.

**TUESDAY, DECEMBER 6**

2:30 to 3:00 p. m.—International Bible Students Association.  
 4:00 to 4:30 p. m.—F. C. Gardner, Seventh Day Adventist Church.  
 4:30 to 5:00 p. m.—Crosley preview.  
 8:00 to 10:00 p. m.—Studio program featuring Hal Denny Trio.

**WEDNESDAY, DECEMBER 7**

2:30 to 3:00 p. m.—Rev. Charles Watson, the Optimistic Parson.  
 8:15 to 8:30 p. m.—Eugene Biscailuz.  
 8:30 to 10:30 p. m.—Prize fights from Ocean Park Athletic Club.

**THURSDAY, DECEMBER 8**

2:30 to 3:00 p. m.—International Bible Students Association.  
 8:00 to 10:00 p. m.—Studio program featuring Vaughn Trio.

**FRIDAY, DECEMBER 9**

2:30 to 3:00 p. m.—Request program.  
 8:00 to 10:00 p. m.—Studio program.

**SATURDAY, DECEMBER 10**

2:30 to 3:00 p. m.—International Bible Students Association.  
 8:00 to 9:00 p. m.—Band concert.  
 9:00 to 10:00 p. m.—Gables Club.



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 Announcer

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12:30 to 1:45 p. m.—Hotel St. Catherine Orchestra.  
 8:30 to 8:00 p. m.—Hotel St. Catherine Orchestra.

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**SUNDAYS**

5:00 to 6:00 p. m.—Miss Hewitt's Golden Hour.  
 6:00 to 6:30 p. m.—Riviera Theatre Organ.  
 8:15 to 9:15 p. m.—St. Catharine Lobby concert.

**MONDAYS**

Silent.

**TUESDAYS**

5:00 to 6:00 p. m.—Miss Hewitt's Golden Hour.  
 6:00 to 6:30 p. m.—Riviera Theatre Organ.

**FRIDAYS**

5:00 to 6:00 p. m.—Miss Hewitt's Golden Hour.  
 6:00 to 6:30 p. m.—Riviera Theatre Organ.

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### DAILY EXCEPT SUNDAY—

10:00 to 11:00 a. m.—Amy Lou shopping hour.  
5:45 to 6:00 p. m.—Late news items, sporting events by San Diego Union and Tribune.  
6:00 to 7:00 p. m.—Musical Review.

### WEEK COMMENCING SUNDAY, DECEMBER 4, 1927

#### SUNDAY, DECEMBER 4

11:15 a. m. to 12:15 p. m.—Services 1st Unitarian Church.  
2:00 to 3:00 p. m.—Services International Bible Students.  
3:00 to 4:00 p. m.—Services Theosophical Society.

8:15 to 10:00 p. m.—Concert program featuring Hutton's Hotel Del Coronado Concert quartette and assisting artists.

#### MONDAY, DECEMBER 5

7:00 to 8:00 p. m.—All Star Five Orch.  
8:00 to 9:00 p. m.—Studio program.  
9:00 to 10:00 p. m.—San Diego Union and Evening Tribune musical program.

#### TUESDAY, DECEMBER 6

7:00 to 8:00 p. m.—Musical program.  
8:00 to 9:00 p. m.—Thearle's classical orthophonic.

9:00 to 10:00 p. m.—Studio artists' hour.

#### WEDNESDAY, DECEMBER 7

7:00 to 7:30 p. m.—Theodora Warfield, Doris Ridgway.  
7:30 to 8:30 p. m.—Concert program, Theosophical Society.

8:30 to 9:00 p. m.—Orthophonic pipe organ recital.  
9:00 to 10:00 p. m.—Aeolian Quartette.  
10:00 to 11:00 p. m.—Ratliff Academy of Dancing.

#### THURSDAY, DECEMBER 8

7:00 to 8:00 p. m.—San Diego Police Dept. program.  
8:00 to 9:00 p. m.—Unitarian Church concert.  
9:00 to 10:00 p. m.—Ratliff Academy of Dancing.

#### FRIDAY, DECEMBER 9

7:00 to 8:00 p. m.—Fegan's San Diego Orch.  
8:00 to 8:30 p. m.—Minor Twins, Stubbs Brothers.

8:30 to 10:00 p. m.—Hutton's Hotel Del Coronado Concert Quartette.

#### SATURDAY, DECEMBER 10

7:00 to 8:00 p. m.—San Diego High School program.  
8:00 to 9:00 p. m.—Franco-American hour.  
9:00 to 10:00 p. m.—Studio program.  
10:00 to 11:00 p. m.—Ratliff Academy of Dancing.



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### DAILY EXCEPT SUNDAY—

11:00 a. m. to 2:00 p. m.—Panatrope and World News.  
6:00 to 7:00 p. m.—California String Quartet.

### WEEK COMMENCING MONDAY, DECEMBER 5, 1927

#### MONDAY, DECEMBER 5

7:00 to 8:00 p. m.—Mammie's Shack Orchestra.  
8:00 to 9:00 p. m.—Hubbell Bros. Trio.  
9:00 to 10:00 p. m.—Featuring Archie Ruggles, tenor with instrumental trio.

#### TUESDAY, DECEMBER 6

7:00 to 8:00 p. m.—Theresa Lee, soprano and Bob Paine, tenor.  
8:00 to 9:00 p. m.—KELW Trio.  
9:00 to 10:00 p. m.—Highlanders Orchestra.

#### WEDNESDAY, DECEMBER 7

6:00 to 7:00 p. m.—California String Quartet.  
7:00 to 9:00 p. m.—Silent.  
9:00 to 10:00 p. m.—Burbank Chamber of Commerce program.

#### THURSDAY, DECEMBER 8

7:00 to 8:00 p. m.—Feature program.

8:00 to 9:00 p. m.—California Mixed Quartet from Mission Play.  
9:00 to 10:00 p. m.—California String Quartet.

#### FRIDAY, DECEMBER 9

5:00 to 6:00 to p. m.—Collins Radio Shop Hour.  
7:00 to 8:00 p. m.—Burbank Evening Tribune program.  
8:00 to 9:00 p. m.—City of San Fernando program.  
9:00 to 10:00 p. m.—Hollywood Bungalow Orchestra.

#### SATURDAY, DECEMBER 10

7:00 to 8:00 p. m.—Feature program.  
8:00 to 9:00 p. m.—Beatrice and Howard Cavanah, Duettists and Mel Hunt.  
9:00 to 10:00 p. m.—California String Quartet.





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DAILY EXCEPT SUNDAY—

9:30 to Noon—Music and Trade Winds. ...  
 4:30 to 6:00 p. m.—Music and Trade Winds.  
 9:00 to 10:00 p. m.—Studio program.  
 10:00 to 12:00 p. m.—Mann Bros. and Singing Syncopators from Venice Ballroom.

WEEK COMMENCING MONDAY, DECEMBER 5, 1927

**MONDAY, DECEMBER 5**  
 9:00 to 10 p. m.—Ed. Abbott and Ben Allen; Estelle Kendig; Sebastian Night Club Orchestra.

**TUESDAY, DECEMBER 6**  
 9:00 to 10:00 p. m.—Morris Lensky, Russian baritone; Mme. Tessie Weiss, soprano; Dr. Edward Delevanti, pianist; Ansley Graham, tenor; Jacques Thiroux, tenor.

**WEDNESDAY, DECEMBER 7**  
 9:00 to 10:00 p. m.—Hal Denny and his De Luxe Orchestra; 30 minutes with George Thiers.  
 12:00 to 2:00 p. m.—Tommy Jacobs and his Ship Cafe Frolic.

**THURSDAY, DECEMBER 8**  
 9:00 to 10:00 p. m.—Ed Abbott and Ben Allen; Clara Staekel; Willy Alexander, contralto; Claire Alexander, pianist.

**FRIDAY, DECEMBER 9**  
 9:00 to 10:00 p. m.—Cecile Lauraine, soprano; Rufus Wright, baritone; Jennilyn Hart, contralto; Wilfred Cole, tenor; Margery Wright, pianist; Hazel Dorcy, soprano.

**SATURDAY, DECEMBER 10**  
 9:00 to 10:00 p. m.—Dorothy Berry, contralto; Tiny Jack and Buck Trio; Ed Abbott and Ben Allen.

**SUNDAY, DECEMBER 11**  
 6:00 to 12:00 p. m.—Mann Bros. and Singing Syncopators, from Venice Ballroom.

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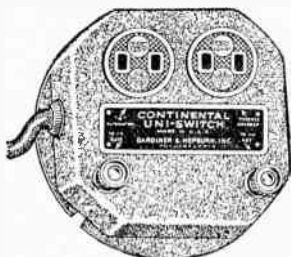
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## DAILY—

4:30 to 7:00 p. m.—Piggly Wiggly Concert Orchestra and Entertainers.

## DAILY EXCEPT SATURDAY AND SUNDAY—

9:30 to 10:00 a. m.—Organ Recital, Second Church of Christ, Scientist.

10:15 to 10:30 a. m.—Devotional period.

10:30 to 11:30 a. m.—Physiology of Beauty, Georgia O. George.

## DAILY EXCEPT SUNDAY—

11:30 a. m. to 12:00 noon—Press-Telegram Early News, by Frank Goss.

12:00 noon—Lost and Found Announcements.

4:00 to 4:30 p. m.—Press-Telegram Late News, by Frank Goss.

## DAILY EXCEPT MONDAY—

2:30 to 4:00 p. m.—Long Beach Municipal Band Concert.

8:00 to 9:00 p. m.—Press-Telegram, presenting Long Beach Municipal Band.

## WEEK COMMENCING SUNDAY, DECEMBER 4, 1927

### SUNDAY, DECEMBER 4

9:30 to 11:00 a. m.—Capitol Theatre organ.

11:00 to 12:30 p. m.—Second Church

12:30 to 1:30 p. m.—Birkel Music Co.

1:30 to 2:30 p. m.—Pacific Coast Club

4:00 to 4:30 p. m.—Studio program.

7:00 to 7:45 p. m.—Barkey's Mandolin

Orchestra and "The Eskimo Twins."

7:45 to 9:00 p. m.—Services First Church

9:00 to 12:00 M.—"Piggly Wiggly All-Star

### MONDAY, DECEMBER 5

10:00 to 10:15 a. m.—"Shopping News"

12:00 to 12:30 p. m.—Moore's Apparel Shop.

12:30 to 1:00 p. m.—Spencer-Kennelly

1:00 to 1:30 p. m.—Harris Fur Co.,

1:30 to 2:00 p. m.—Capitol Theatre Organ.

2:00 to 2:30 p. m.—Rialto Radio Company.

2:30 to 3:00 p. m.—Capitol Theatre Organ.

3:00 to 4:00 p. m.—Women's Music Study

6:00 to 7:00 p. m.—"California Joymakers"

7:00 to 8:00 p. m.—Suydam's Buttercream

8:00 to 9:30 p. m.—70-Piece Symphony

9:00 to 12:00 M.—Kiwanis Frolic.

### TUESDAY, DECEMBER 6

10:00 to 10:15 a. m.—Piano Recital

12:00 to 12:30 p. m.—Spencer - Kennelly

12:30 to 1:00 p. m.—Hair-A-Gain Twins,

1:00 to 1:30 p. m.—Kiwanis Club Luncheon.

1:30 to 2:00 p. m.—Harrison's Shoe Store.

2:00 to 2:30 p. m.—Capitol Theatre Organ.

6:00 to 6:45 p. m.—Bear Cafe, Jazz Band.

6:45 to 7:00 p. m.—Talk on Health,

7:00 to 8:00 p. m.—Aboard the Macabee

Flyer.

9:00 to 10:00 p. m.—"Ye Olde Song Album"

10:00 to 11:00 p. m.—Majestic Ballroom

1:00 to 12:00 M.—Pacific Coast Club organ.

### WEDNESDAY, DECEMBER 7

10:00 to 10:15 a. m.—"Shopping News"

12:00 to 12:30 p. m.—Moore's Apparel Shop.

12:30 to 1:00 p. m.—Spencer-Kennelly

1:00 to 1:30 p. m.—Rotary Club Luncheon.

1:30 to 2:00 p. m.—Harris Fur Co.,

2:00 to 2:30 p. m.—Rialto Radio Company,

6:00 to 7:00 p. m.—"California Joymakers"

7:00 to 8:00 p. m.—Hirshfield's Fashion Re-  
view.

9:00 to 10:00 p. m.—Studio Program.

10:00 to 10:00 p. m.—Bible Institute of Los  
Angeles.

11:00 to 12:00 M.—Pacific Coast Club

### THURSDAY, DECEMBER 8

10:00 to 10:15 a. m.—Piano Recital,

12:00 to 12:30 p. m.—Spencer - Kennelly

12:30 to 1:00 p. m.—Hair-A-Twins,

1:00 to 1:30 p. m.—Studio Program.

1:30 to 2:00 p. m.—Harrison's Shoe Store.

2:00 to 2:30 p. m.—Health and Efficiency.

7:00 to 8:00 p. m.—Old-Time Barn Dance.

9:00 to 10:00 p. m.—Masterpiece program.

10:00 to 11:00 p. m.—Majestic Ballroom Or-  
chestra.

11:00 to 12:00 M.—Pacific Coast Club Organ

### FRIDAY, DECEMBER 9

10:00 to 10:15 a. m.—"Shopping News"

12:00 to 12:30 p. m.—Moore's Apparel Shop

12:30 to 1:00 p. m.—Spencer - Kennelly

1:00 to 1:30 p. m.—Masonic Club luncheon

1:30 to 2:00 p. m.—Rich's Quality Bakery

2:00 to 2:30 p. m.—Rialto Radio Company.

6:00 to 7:00 p. m.—"California Joymakers"

7:00 to 7:30 p. m.—Church of Christ,

7:30 to 8:00 p. m.—"The Melody Boys"—

9:00 to 10:00 p. m.—"Le Olde Song Album"

10:00 to 11:00 p. m.—Capitol Theatre Organ

11:00 to 12:00 M.—Pacific Coast Club Orch.

### SATURDAY, DECEMBER 10

9:30 to 10:00 a. m.—Studio Program.

10:00 to 10:30 a. m.—Cloverleaf Chocolate

Shop

10:30 to 11:30 a. m.—Capitol Theatre Organ.

12:00 to 12:30 p. m.—Spencer - Kennelly

12:30 to 1:00 p. m.—Georgia O. George.

1:00 to 1:30 p. m.—Harrison's Shoe Store.

1:30 to 2:30 p. m.—Imperial Trio.

7:00 to 8:00 p. m.—Piggly Wiggly Hawaiian

Trio.

9:00 to 10:00 p. m.—Pacific Coast Club

10:00 to 11:00 p. m.—Masterpiece program.

11:00 to 12:00 M.—Majestic Ballroom Orh.



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### DAILY EXCEPT SUNDAY—

- 6:45 to 9:00 a. m.—Health and Happiness Period  
10:30 to 10:45 a. m.—"Ye Towne Crier."  
11:30 to 1:00 p. m.—Kane's Hawaiians.  
12:00 noon—Time Signals.  
1:15 p. m.—Stock and Fruit Reports, except Friday.  
1:00 to 2:00 p. m.—KPO Orchestra.  
4:00 to 5:00 p. m.—KPO Orchestra, except Mon., Wed., and Fri.  
5:00 to 6:00 p. m.—Children's Hour.  
6:00 to 6:30 p. m.—"Ye Towne Crier."  
6:30 to 7:30 p. m.—Orchestra, except Thursday.  
7:30 to 8:00 p. m.—DX period

### WEEK COMMENCING SUNDAY, DECEMBER 4, 1927

#### SUNDAY, DECEMBER 4

- 9:45 to 10:30 a. m.—Undenominational and non-sectarian church services.  
6:00 to 6:30 p. m.—States Restaurant Orchestra.  
6:30 to 7:30 p. m.—Standard Symphony Hour for Standard Oil over P. C. N.  
7:30 to 8:30 p. m.—Organ recital.  
8:30 to 10:00 p. m.—Rudy Seiger's Fairmont Hotel Concert Orchestra.

#### MONDAY, DECEMBER 5

- 4:00 to 5:00 p. m.—Robert Nurok in program of Russian gypsy music.  
8:00 to 9:00 p. m.—Program by N. B. C. over P. C. N.  
9:00 to 10:00 p. m.—Program for San Francisco Branch of manufacturers of White King and Mission Bell Soaps.  
10:00 to 12:00 midnight—KPO's Variety Hour.

#### TUESDAY, DECEMBER 6

- 10:00 to 10:30 a. m.—Activity, conducted by Ann Warner, domestic economist.  
8:00 to 8:30 p. m.—Gypsy and Marta, harmony duo.  
8:30 to 9:00 p. m.—Bridge Lesson No. 6.  
9:00 to 11:00 p. m.—N. B. C. program over P. C. N.

#### WEDNESDAY, DECEMBER 7

- 10:45 a. m.—Betty Crocker's Gold Medal Flour Home Service talk.  
4:00 to 5:00 p. m.—Robert Nurok in a program of Russian gypsy music.  
8:00 to 9:00 p. m.—Program by Atwater Kent artists.  
9:00 to 10:00 p. m.—N. B. C. program over P. C. N.

- 10:00 to 11:00 p. m.—States Restaurant Orchestra.

#### THURSDAY, DECEMBER 8

- 10:00 to 10:30 a. m.—Activity, conducted by Ann Warner, domestic economist.  
6:30 to 7:00 p. m.—Board of Education program.  
7:00 to 7:10 p. m.—Book Review by Harold Small of The Chronicle.  
7:10 to 7:20 p. m.—Lecture by Helen Gordon Barber.  
7:20 to 7:30 p. m.—Sports on the Air by Harry Smith, sporting editor of The Chronicle.  
8:00 to 9:00 p. m.—Chickering Hour.  
9:00 to 10:00 p. m.—N. B. C. program over P. C. N.  
10:00 to 11:00 p. m.—States Restaurant Orchestra.

#### FRIDAY, DECEMBER 9

- 10:45 a. m.—Betty Crocker's Gold Medal Flour Home Service talk.  
11:00 a. m.—Fashion talk by Ninon, fashion critic, of The Chronicle.  
12:45 p. m.—Address from the Commonwealth Club luncheon at the Palace Hotel.  
4:00 to 5:00 p. m.—Robert Nurok in a program of Russian gypsy music.  
8:00 to 9:00 p. m.—Program featuring Calpet Orchestra.  
9:00 to 10:00 p. m.—Program of chamber music by Abas String Quartet.  
10:00 to 11:00 p. m.—KPO Dance Orchestra.

#### SATURDAY, DECEMBER 10

- 10:00 to 10:30 a. m.—Activity, conducted by Ann Warner, domestic economist.  
8:00 to 10:00 p. m.—Program by N. B. C. over P. C. N.  
10:00 to 11:00 p. m.—KPO Dance Orchestra.



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### DAILY EXCEPT SUNDAY—

- 11:30 a. m. to 1:00 p. m.—Luncheon concert.  
12:30 and 7:00 p. m.—Stock and weather reports. Baseball scores.  
6:00 to 6:45 p. m.—Dinner hour concert, except Monday.  
9:00 p. m.—Time Signals, except Saturday.

### WEEK COMMENCING SUNDAY, DECEMBER 4, 1927

#### SUNDAY, DECEMBER 4

- 11:00 a. m.—First Methodist Episcopal Church service, Oakland.  
4:00 p. m.—Vesper service.  
6:30 to 7:30 p. m.—"Standard Symphony Hour," N. B. C.  
7:30 p. m.—Weather report.  
8:00 to 9:00 p. m.—Atwater Kent Hour, N. B. C.  
9:00 p. m.—Time signal.  
9:00 to 10:00 p. m.—"Great Moments of History," N. B. C.

#### MONDAY, DECEMBER 5

- 3:30 to 4:00 p. m.—California Federation of Women's Clubs.  
4:00 to 5:00 p. m.—Frank Ellis and his Hotel St. Francis dance orchestra.  
5:30 to 6:00 p. m.—Aunt Betty (Ruth Thompson) stories; KGO Kiddies' Klub.  
6:45 p. m.—"What's Happening in the World," John D. Barry.

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#### TUESDAY, DECEMBER 6

- 8:00 to 8:30 p. m.—"Cathedral Echoes."  
8:30 to 9:00 p. m.—U. S. Bridge Lessons, N. B. C.  
9:100 to 10:00 p. m.—Eveready Hour, N. B. C.  
10:00 to 11:00 p. m.—"Retold Tales," N. B. C.

#### WEDNESDAY, DECEMBER 7

- 6:30 p. m.—Weather.  
6:35 to 7:30 p. m.—Farm program  
8:00 to 9:00 p. m.—Vaudeville.  
9:00 to 10:00 p. m.—"The Vagabonds," N. B. C.  
10:00 to 11:00 p. m.—Frank Ellis and his Hotel St. Francis Dance Orchestra.

#### THURSDAY, DECEMBER 8

- 5:00 to 5:15 p. m.—"Mental Measurement."  
5:15 to 6:00 p. m.—George W. Ludlow, "Friends to Boys."  
8:00 to 9:00 p. m.—"The Pilgrims."  
9:00 to 10:00 p. m.—Miscellaneous musical program, N. B. C.  
10:00 to 11:00 p. m.—Frank Ellis and his Hotel St. Francis Dance Orchestra.

#### FRIDAY, DECEMBER 9

- 11:10 to 11:30 a. m.—Prudence Pennie Home Making talk.  
5:30 p. m.—Da-Ra-O, wise men from the Land-O-Health.  
6:45 to 6:55 p. m.—"Weekly Financial Review," Fred Brandt.  
8:00 to 9:00 p. m.—Program by KGO Players.  
9:00 to 10:00 p. m.—"An Hour in Memory Lane," N. B. C.  
10:00 to 11:00 p. m.—Girvin-Beale's Hotel Oakland Dance Orchestra.

#### SATURDAY, DECEMBER 10

- 7:15 to 7:30 p. m.—Weekly sport review, Al Santoro.  
8:00 to 9:00 p. m.—"RCA Radiotron Hour," N. B. C.  
9:00 to 10:00 p. m.—"Philco Hour," N. B. C.  
10:00 to 11:00 p. m.—Revue program, N. B. C.  
11:00 to 12:00 p. m.—Frank Ellis and his Hotel St. Francis Dance Orchestra.

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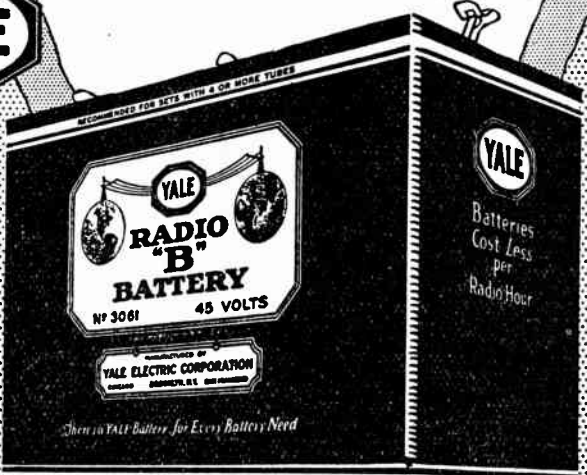
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### DAILY EXCEPT SUNDAY—

- 7:00 to 8:00 a. m.—Seal Rock Program by Simpy Fitts; Granate Time.  
8:00 to 9:00 a. m.—Musical Program.  
10:00 to 11:00 a. m.—Musical Program, except Monday, Tuesday and Wednesday.  
11:30 to 12:00 noon—Amateur Tryouts, except Saturday.  
12:00 to 1:00 p. m.—Sherman Clay Concert.  
4:30 to 5:00 p. m.—Organ Recital by Theodore Strong.  
5:30 to 6:20 p. m.—Mac and his Gang, except Monday.  
6:20 to 6:30 p. m.—Stage, Screen, Police and Lost and Found.  
6:30 to 7:00 p. m.—Western Motors Co. presents the Cecilians, except Monday, Tuesday and Thursday.  
7:00 to 7:30 p. m.—Program by the Cecilians.  
10:00 to 12:00 p. m.—Program of Dance Music, except Tuesday.

### SUNDAY, DECEMBER 4

- 12:00 to 1:00 p. m.—Services and sermon from Paulist Fathers' Old St. Mary's.  
5:00 to 6:00 p. m.—Organ recital by Theodore Strong.  
6:00 to 6:30 p. m.—Looking at the World, talk by Dr. Frederick W. Clampett.  
6:30 to 8:30 p. m.—Hotel Mark Hopkins Concert Orchestra.  
8:30 to 10:00 p. m.—Walter Krausgrill's Balconades Ballroom Orchestra.  
10:00 to 11:00 p. m.—KFRC Dance Orchestra.  
11:00 to 12:00 p. m.—KFRC Dance Orch.

### MONDAY, DECEMBER 5

- 9:00 to 9:10 a. m.—Weinstock - Lubin Co. Shopping Service.  
10:00 to 11:00 a. m.—Georgia O. George.  
10:00 to 11:30 a. m.—Household Hints, Mary Lewis Haines of The Call.  
5:15 to 5:45 p. m.—Mac and his Gang.  
5:45 to 6:20 p. m.—Joe Mendel and his Pep Band from the Lido Cafe.  
6:30 to 7:00 p. m.—Sports talk by "Bobs."  
8:00 to 10:00 p. m.—Blue Monday Jambo-ree.

### TUESDAY, DECEMBER 6

- 10:00 to 11:00 a. m.—Georgia O. George.  
11:00 to 11:30 a. m.—Doings of Dorothy.  
6:30 to 6:50 p. m.—Russell-Colvin presents the Cecilians.  
6:50 to 7:00 p. m.—"Investment Securities," talk by Agnes N. Alwyn.  
8:00 to 9:00 p. m.—Shell Oil Co. Serenaders.  
9:00 to 10:00 p. m.—KFRC Dance Orch.  
10:00 to 11:00 p. m.—KFRC Dance Orch.  
11:00 to 12:00 p. m.—KFRC Dance Orch.

### WEDNESDAY, DECEMBER 7

- 9:00 to 9:10 a. m.—Weinstock - Lubin & Co. Shopping Service.  
10:00 to 11:00 a. m.—Georgia O. George.  
10:00 to 11:00 a. m.—Household Hints, Mary Haines of The Call.  
8:00 to 9:00 p. m.—Maxwell House Coffee Co. presents Maxwell House Coffee Orch.  
9:00 to 10:00 p. m.—Studio program.

### THURSDAY, DECEMBER 8

- 10:00 to 11:00 a. m.—Studio program.  
11:00 to 11:30 a. m.—Doings of Dorothy.  
8:00 to 9:00 p. m.—Mona Motor Oil Co. program of music with Robert Olsen, tenor soloist, and Mona Motor Merrymakers.  
9:00 to 9:45 p. m.—KFRC Movie Club and Joe Benson's Musical Memory Contest.  
9:45 to 10:00 p. m.—Flying Lessons by Lt. Blaine Stubblefield.

### FRIDAY, DECEMBER 9

- 9:00 to 9:10 a. m.—Weinstock - Lubin & Co. Shopping Service.  
10:00 to 11:00 a. m.—Studio program.  
11:00 to 11:30 a. m.—Hints to Home-makers by Aunt Martha.  
3:30 to 4:30 p. m.—Students Hour by the "Observer."  
8:00 to 9:00 p. m.—Shell Oil Co. Serenaders.  
9:00 to 10:00 p. m.—Studio program.

### SATURDAY, DECEMBER 10

- 10:00 to 11:00 a. m.—Studio program.  
11:00 to 11:45 a. m.—Amateur Tryouts.  
11:45 to 12:00 noon—Announcement of Sunday Church Sermons.  
8:00 to 9:00 p. m.—Shell Oil Co. Serenaders.  
9:00 to 10:00 p. m.—Krausgrill's Dance Orchestra of Balconades Ballroom.

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**YOUR RADIO DEALER  
OR  
YOUR WILLARD DEALER  
ANYWHERE IN  
SOUTHERN CALIFORNIA**

---

## Q. and A.

(Continued from Page 37)

be shielded and grounded. Yes, insulate all panel-mounted parts from the copper.

**QUESTION**—Again I take the privilege of writing for information. I am annoyed here at San Pedro with the wireless sets. Isn't it unlawful for these amateurs and commercial operators to interfere with the broadcast programs? If so, to whom should I complain, or what course should I take?

O. E. HILTBRAND,  
San Pedro.

**ANSWER**—Located as you are at the Harbor, you will naturally get considerable interference from the commercial shore stations and the nearby ships, though they are transmitting on 600 meters, or even higher waves. They are all quite within their rights, and your only course is to attempt to eliminate the interference so far as is possible in your own receiving equipment. Probably the worst offender in this respect is KOK, the commercial station at Clearwater. However, we have been advised that they are changing their equipment to a type which will cause far less interference with broadcast listeners, if any. Amateurs who still use the type of transmitter which is capable of interfering with broadcast reception are very few and far between, and they are required to remain silent during the broadcast hours. We are of the opinion that they are not responsible for your trouble, but that it is the commercial and Naval stations. These stations have, of course, been functioning to safeguard cargoes and lives many years before the entertainment aspect of radio was ever dreamed of, and their business is really the more important. A wave-trap ahead of your set, tuned to 600 meters, might be of assistance. If you would care to experiment along this line we would be pleased to furnish detailed instructions by mail. To all of our readers who are bothered by code interference, we would suggest you determine the exact source of the interference by calling in someone familiar with code who can quickly tell you. Then, if it is an amateur, a letter with full particulars, addressed to the Supervisor of Radio, Custom House,

San Francisco, is in order. If it is a commercial or naval station, grin and bear it, or try to minimize the interference in your own layout.

**QUESTION**—I read your article about Bears—Big and Little. Well, I am one of the big ones, and want to say your article sure hit the nail on the head. It's what we radio nuts up here have been fighting for 2 years, and the power company won't help us out. The bunch up here all have good sets—mine is a late model Stromberg-Carlson, but the noise keeps us from getting the results we should.

ROBERT MacCUNE,  
Pine Knot, Cal.

**ANSWER**—A lot of people who go camping for week-ends or longer periods, take their radio along. A lot of people deliberately select spots where radio reception is good. You see, a lot of people find so much enjoyment in radio that unusually good reception makes for a happier and better trip. The power company which supplies the cabins and camps around your beautiful lake up there surely want a lot of people to come to Big Bear so they can sell more electricity. Therefore, if the power company can see past its own nose it will see to it that radio reception is good, and it can be darned good if they will clean up the noise. It's only a matter of loose fixtures and fuses, worn insulation, cracked insulators, etc.—things that are ABC to a power company engineer. As a starter, it wouldn't be a bad idea to have a look at the transformer installation a mile or so beyond Light-House Camp, on the north side of the lake. I am not inferring that you've got a haywire power layout up there. Far from it. It may be first class from the power standpoint, but from the radio standpoint it is not. Radio has assumed such important proportions in cities that the power companies are only too glad to cooperate to the fullest extent in clearing up electrical interference, while up there the importance of good radio reception to the district, as a whole, possibly has not yet been impressed upon the powers that be. If my silly story ultimately does you fellows some good, I'll be mighty happy about it.

---

**Ask for "Jemead" Radio Blueprints at Your Dealer's**

## Radio Topics

(Continued from Page 15)

tically the last item of regulations to be written into the Washington Convention of 1927, which will govern all the international uses of radio, after being taken back to the various countries for ratification.

Six weeks or more were spent by the Technical Committee of the Conference and its subcommittees in solving the problem of allocating the long and short waves, the low and high frequencies, to the services to which they were deemed most suited. Many divergent views were represented at the outset among the technical experts from all corners of the world who participated in these deliberations. As finally framed, the allocations represented their unanimous agreement.

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## Studio News

(Continued from Page 38)

the Vitaphone, over Warner Bros. Station KFVB on the evening of Tuesday, November 29, between 9 and 10 o'clock.

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We find our informal sport clothes Tom Mitchell suddenly metamorphosed into a real honest-to-goodness business man up at KMTR these days. The exterior may have been transformed, but nothing can change the well-known bass voice and Tom's genial personality.

---

Although KFVB's studio is one of the largest in California, it was impossible to accommodate the full Vitaphone Symphony Orchestra, so, for radio, a picked selection of men from the full group was made. Special mixing panel equipment and microphones were installed for the occasion, which was to celebrate the opening of the Criterion

Theatre on November 30 with a Warner Bros. picture, "Old San Francisco," starring Dolores Costello, and which had a musical accompaniment by the Vitaphone Orchestra as recorded in New York.

Of course, every one knows about Robert Hurd's complete and well-selected library of music which he justly takes a great deal of pride in, but few of his army of admirers know that he has a beautiful new Packard roadster—specially upholstered and everything. Besides that, he is a very patient and considerate bridge partner, I am led to believe. What more could one ask?

---

Jack Lee's Orchestra, playing from 8 to 9 nightly except Sunday, at KFQZ, should be mentioned in the same breath with pep, enthusiasm and mean, low-down harmony. Also, on Saturday night (9 to 11), the Los Angeles Railway Orchestra has been doing some exceptionally fine work for the radio listeners from "The Palatial Roof Station."

---

A good man may be down, but he can still announce! Witness G. Allison Phelps, "the radio philosopher" of KMTR who, although indefinitely confined to his bed in a plaster cast and everything, has had a remote control apparatus installed in his home, so that he will not disappoint his big following. To the best of our knowledge this is the first "all-day bedtime story" ever broadcast, and G. Allison is to be commended for his grit.

---

Maurice DeMond, widely-known manager of the Breakfast Club, announces that the Ham and Egg gathering every Friday morning will again be on the air over KFVB. This program has proved a big feature in the past and listeners will welcome its return to radio entertainment.

Oakland, California—1070 Kc.

**KTAB**

THE ASSOCIATED BROADCASTERS  
EFFIE MERRILL RINEHART  
Program Director



R. M. BITZER  
Announcer

DAILY EXCEPT SUNDAY—

- 6:45 to 8:00 a. m.—Health and Good Cheer Hour.
- 8:30 to 9:00 a. m.—"The Hour of Prayer."
- 9:00 to 10:00 a. m.—The Town Tattler, except Mon. and Wed.
- 10:00 to 10:30 a. m.—Shopping Hour.
- 10:30 to 11:30 a. m.—Educational Lecture, except Saturday.
- 11:30 a. m. to 1:00 p. m.—Noonday concert.
- 4:00 to 5:00 p. m.—Uncle Charley, Aunt Belle, except Saturday.
- 5:00 to 6:00 p. m.—"Who's Who" hour.
- 6:00 to 6:45 p. m.—Musical program by the Individual Grocers of Alameda County.
- 6:45 to 7:30 p. m.—Shopping hour.

WEEK COMMENCING SUNDAY, DECEMBER 4, 1927

SUNDAY, DECEMBER 4

- 9:45 to 10:45 a. m.—Prof. E. G. Linsley's Bible Class.
- 11:00 a. m.—Services of Tenth Ave. Baptist Church.
- 1:30 to 2:30 p. m. — KTAB'S Symphonic Hour.
- 7:00 to 7:45 p. m.—Vesper Service.
- 7:45 p. m.—Services of Tenth Ave. Baptist Church.

MONDAY, DECEMBER 5

- 9:00 to 9:45 a. m.—Educational lecture from Mills College.
- 1:00 to 1:20 p. m.—Dr. R. Bristol Bell, authority on Asthma.
- 8:00 to 10:00 p. m.—"The Weavers."

TUESDAY, DECEMBER 6

- 1:00 to 1:20 p. m.—Dr. J. D. Thompson on "Diet and Health."

- 8:00 to 9:00 p. m. — Educational lecture from Mills College.
- 9:00 to 10:00 p. m.—The Music Box Revue.

WEDNESDAY, DECEMBER 7

- 9:00 to 9:45 p. m.—Educational lecture from Mills College.
- 8:00 to 10:00 p. m.—The Trillium Trio.

THURSDAY, DECEMBER 8

- 1:00 to 1:20 p. m.—Dr. Thompson on "Diet and Health."
- 8:00 to 9:00 p. m. — Educational lecture from Mills College.
- 9:00 to 11:00 p. m.—Studio program.

FRIDAY, DECEMBER 9

- 1:00 to 1:20 p. m.—Lecture by Dr. R. Bristol Bell, authority on Asthma.
- 8:00 to 10:00 p. m.—KTAB Zooks.

SATURDAY, DECEMBER 10

- 8:00 to 9:00 p. m. — Educational lecture from Mills College.

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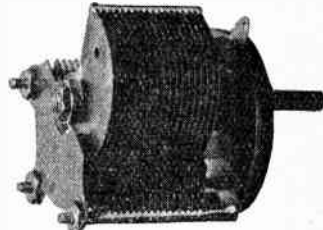
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# KFWI

## San Francisco, California—1120 Kc.

500 WATTS—268 METERS  
 RADIO ENTERTAINMENTS, INC.  
 1182 Market Street, San Francisco  
 G. W. CATTELL, General Manager  
 C. H. STIXROOD, Program Director

**DAILY EXCEPT SUNDAY—**

- 8:00 to 10:30 a. m.—Musical Breakfast Program.
- 10:30 to 11:00 a. m.—Fashion Hints.
- 12:00 to 1:00 p. m.—Baldwin Walte Concert.
- 1:00 to 1:30 p. m.—Country Store.
- 5:00 to 5:30 p. m.—Brunswick Concert.
- 5:30 to 7:00 p. m.—Musical program.
- 7:00 to 7:15 p. m.—Sports Review.

**WEEK COMMENCING SUNDAY, DECEMBER 4, 1927**

- SUNDAY, DECEMBER 4**
- 7:50 to 9:00 p. m. — Services from Sixth Church of Christ, Scientist.
  - 9:00 to 10:00 p. m. — Laura Ellen Winsor, pianist; Pearl May Poore, soprano; Elgin Doane, baritone.
  - 10:00 to 11:00 p. m.—Tom Gerunovich's Roof Garden Orchestra.

- MONDAY, DECEMBER 5**
- 8:00 to 8:30 p. m.—Darnsille Sisters.
  - 8:30 to 9:00 p. m.—Studio Program.
  - 9:00 to 10:00 p. m.—Tom Gerunovich and his "Weird Jungle Jazz" from "Jungle Tom."
  - 10:03 to 11:00 p. m.—Gloria Del Rae; Andy Wallace and his band.

- TUESDAY, DECEMBER 6**
- 8:00 to 9:00 p. m. — KFWI Melody Gypsy dance music.
  - 9:00 to 9:30 p. m.—Program of Sappish and Mexican Music.
  - 9:30 to 10:00 p. m.—Zelma Randall and the Boy Friend.
  - 10:03 to 10:30 p. m.—Remember when . . . ?
  - 10:30 to 11:00 p. m.—Lloyd Monroe.

- WEDNESDAY, DECEMBER 7**
- 7:00 to 8:00 a. m.—Health Exercises by Cal King.
  - 8:20 to 10:27 a. m.—Musical Breakfast program.
  - 10:27 to 10:30 a. m.—Weather reports.
  - 12:00 to 1:00 p. m.—Baldwin Welte Mignon Concert, with educational talk.
  - 1:00 to 1:30 p. m.—Country Store.
  - 5:00 to 5:30 p. m.—Brunswick "New Hall of Fame" concert.
  - 5:30 to 5:45 p. m.— Advance Construction Reports by Albert White.

- 5:45 to 6:00 p. m.—Musical Program.
- 6:00 to 7:00 p. m.—E. A. Mancini, tenor; Thelma Myrick, soprano; Dorothy Beiber, pianist.
- 7:00 to 7:15 p. m.—Sports Review by Geo. T. Davis of S. F. Bulletin.
- 8:00 to 9:55 p. m.—Studio Program.
- 9:55 to 10:00 p. m.—Police Reports.
- 10:00 to 11:00 p. m.—Tom Gerunovich's Roof Garden Orchestra

- THURSDAY, DECEMBER 8**
- 7:15 to 7:30 p. m.—McClary's Art Course
  - 8:00 to 9:00 p. m.—Studio Program.
  - 9:00 to 9:30 p. m.—Bob Gesliner and Frank Bolinger, novelty instrumental and vocal numbers.
  - 9:30 to 10:00 p. m.—Gloria Del Rae
  - 10:00 to 10:03 p. m.—Police Reports.
  - 10:03 to 11:00 p. m.—KFWI Gypsy Band.

- FRIDAY, DECEMBER 9**
- 7:15 to 7:30 p. m.—McClary's Art Course.
  - 8:00 to 8:30 p. m.—Lillian Craig, soprano.
  - 8:30 to 9:00 p. m.—Studio Program.
  - 9:00 to 10:00 p. m.—Tom Gerunovich and his Weird "Jungle Jazz" from Jungle Town.
  - 10:00 to 10:03 p. m.—Police Reports.
  - 10:03 to 11:00 p. m.— Program of Popular Music.

- SATURDAY, DECEMBER 10**
- 8:00 to 9:00 p. m.—Athena Alexanroff, soprano; Athena Pancoe, pianist; Gypsy Trio.
  - 9:00 to 10:00 p. m.—Harriet Lewis, palmist.
  - 10:00 to 10:03 p. m.—Police Reports.
  - 10:03 to 12:30 p. m.—KFWI Surprise Reception.



Chas. E. Gabrielle, Jr.  
 Announcer

## Oakland, California.—590 Kc.

# KLX

500 WATTS—508.2 METERS  
 OAKLAND TRIBUNE RADIOPHONE  
 Phone Lakeside 6015

"Oakland, Where Rail and Water Meet"

**DAILY EXCEPT SUNDAY—**

- 10:00 to 11:30 a. m.—Martha Lee.
- 11:30 a. m. to 1:00 p. m.—Luncheon concert.
- 1:00 to 1:30 p. m.—Special program.
- 5:30 to 6:30 p. m.—Brother Bob Club; Boy Scout program, except Saturday.
- 6:30 to 7:00 p. m.—Dinner Concert, courtesy of Geo. Campe Co.
- 7:00 to 7:30 p. m.—Amusement information and news

**WEEK COMMENCING MONDAY, DECEMBER 5, 1927**

- MONDAY, DECEMBER 5**
- 8:00 to 9:00 p. m.—Special program.
  - 9:00 to 10:00 p. m.— Weekly meeting of Lake Merrit Ducks.

- TUESDAY, DECEMBER \***
- 8:00 to 10:00 p. m.—Variety hour.

- WEDNESDAY, DECEMBER 7**
- 8:00 to 9:00 p. m.—Educational program.
  - 9:00 to 10:00 p. m.—Variety hour.

- THURSDAY, DECEMBER 8**
- 4:30 to 5:30 p. m.—Richard's Hawaiians.
  - 8:00 to 10:00 p. m.—Variety hour.

- FRIDAY, DECEMBER 9**
- 4:30 to 5:30 p. m.—Richard's Hawaiians.
  - 8:00 to 9:00 p. m.—Variety hour.
  - 9:00 to 10:00 p. m.—Athens Athletic club orchestra.

- SATURDAY, DECEMBER 10**
- 4:30 to 5:30 p. m.—Richards' Hawaiians.
  - 8:00 to 10:00 p. m.—Variety hour.

## Portland, Oregon—610 Kc.



**STEPHEN L. GAYLORD**  
Announcer

# KGW

1000 WATTS—491.5 METERS  
THE MORNING OREGONIAN  
"Keep Growing Wiser"

**DAILY EXCEPT SUNDAY—**

10:00 to 11:30 a. m.—Town Crier, weather reports, news items.  
6:00 to 7:00 p. m.—Dinner Concert, except Friday.

**WEEK COMMENCING SUNDAY, DECEMBER 4, 1927**

**SUNDAY, DECEMBER 4**

8:30 to 9:15 a. m.—"Aunty Blossom" reading the Sunday comic strips.  
11:00 a. m. to 12:00 noon—Morning services from St. Stephen's Pro-Cathedral.  
3:00 to 4:00 p. m.—Concert by Town Crier Orchestra.  
4:00 to 5:00 p. m.—Concert trio.  
5:00 to 5:30 p. m.—Concert courtesy of Levin Furnace Co.  
5:30 to 6:30 p. m.—Salon Orchestra and Dorothy Lewis, contralto.  
6:30 to 7:30 p. m.—Standard Oil program.  
7:30 to 8:00 p. m.—The Two Steinway Artists presented by Sherman Clay Co.  
8:00 to 9:00 p. m.—Atwater Kent program. N. B. C.  
9:00 to 10:00 p. m.—"Neighborhood Drug Store Hour."  
9:00 p. m.—Longine Time Signals, N. B. C.  
10:00 to 11:00 p. m.—Public Service Little Symphony Orchestra.

**MONDAY, DECEMBER 5**

7:15 to 7:30 a. m.—Y. M. C. A. Health Exercises.  
7:00 to 7:30 p. m.—Salon Orchestra.  
7:30 to 7:45 p. m.—"Better Flowers" talk.  
7:45 to 8:00 p. m.—"Travel Talk."  
8:00 to 9:00 p. m.—P. C. N. program, "Spot Light Hour."  
9:00 to 10:00 p. m.—"Venetian Hour."  
10:00 to 12:00 p. m.—Herman Kenin and his Multnomah Hotel Orchestra.

**TUESDAY, DECEMBER 6**

7:00 to 7:30 p. m.—Meier & Frank's Christmas program.  
7:30 to 7:45 p. m.—Thrift Talk.  
7:45 to 8:00 p. m.—Book Chat.  
8:00 to 8:30 p. m.—"Sealy Sam" program.  
8:30 to 9:00 p. m.—Bridge games, courtesy of U. S. Playing Card Co., over P. C. N.  
9:00 to 10:00 p. m.—"Eveready Hour" over N. B. C.  
10:00 to 11:00 p. m.—N. B. C. Retold Tales.

**WEDNESDAY, DECEMBER 7**

7:15 to 7:30 a. m.—Y. M. C. A. Health Exercises.

7:00 to 7:30 p. m.—Brown and White Taxicab concert.  
7:30 to 7:45 p. m.—Poultry Talk.  
7:45 to 8:00 p. m.—Catholic Truth Society Lecture.  
8:00 to 9:00 p. m.—White King Orchestra, courtesy Los Angeles Soap Co.  
9:00 to 10:00 p. m.—P. C. N., "The Vagabonds."  
10:00 to 11:00 p. m.—Silver King Revellers.

**THURSDAY, DECEMBER 8**

7:30 to 7:40 p. m.—Utility Service.  
7:40 to 8:00 p. m.—Tommy Luke's Flower Girls.  
8:00 to 9:00 p. m.—Concert by the Maxwell House Coffee Orchestra.  
9:00 to 10:00 p. m.—P. C. N. program.  
10:00 to 12:00 p. m.—Herman Kenin and his Multnomah Hotel Orchestra.

**FRIDAY, DECEMBER 9**

7:15 to 7:30 a. m.—Y. M. C. A. Health Exercises.  
6:00 to 7:00 p. m.—"Golden West Girl."  
7:00 to 7:30 p. m.—G. G. Gerber entertainers.  
7:30 to 7:45 p. m.—Utility Service.  
7:45 to 8:00 p. m.—Albers Bros Dairy Talk.  
8:00 to 9:00 p. m.—"Phantoms of Broadway," courtesy Shell Co. of California.  
9:00 to 10:00 p. m.—P. C. N. program, "Memory Lane."  
10:00 to 10:30 p. m.—Motor Coach Entertainers.

10:30 to 12:00 p. m.—Frolic of Keep Growing Wiser Order of Hoot Owls.

**SATURDAY, DECEMBER 10**

7:00 to 8:00 p. m.—Concert from KOMO, Seattle.  
8:00 to 9:00 p. m.—N. B. C. RCA program from San Francisco, Grand Opera.  
9:00 to 10:00 p. m.—"Philco Hour, P. C. N.  
10:00 to 11:00 p. m.—N. B. C. "Saturday Night Review."  
11:00 to 12:00 p. m.—Dance music from the Multnomah Hotel.

**Golden Bear**  **AIR COLUMN SPEAKER**

Made in 12 Sizes — Phone  
Westmore 2712



W. C. ("Doc") Gordon  
Announcer

## Seattle, Washington—860 Kc.

# KJR

NORTHWEST RADIO SERVICE CO.  
TERMINAL SALES BUILDING  
348.6 METERS  
Phone Elliott 6288

Vincent I. Kraft, Manager.  
Ross W. Swift, Program Director.

### DAILY EXCEPT SUNDAY—

- 9:00 to 10:00 a. m.—Studio program.
- 10:00 to 10:30 a. m.—Piano recital.
- 10:30 to 12:00 noon.—Shopping service and music.
- 12:00 noon.—Time Signals.
- 5:00 to 5:30 p. m.—KJR Junior Club.
- 5:30 to 5:45 p. m.—Studio program.
- 5:45 to 6:00 p. m.—New York Stock Quotations.
- 6:00 p. m.—Time Signals.
- 6:00 to 6:30 p. m.—News and amusement notices.
- 6:30 to 7:30 p. m.—Dinner hour concert.
- 7:30 to 10:00 p. m.—Studio program.
- 10:00 p. m.—Time Signals.
- 10:00 to 12:00 p. m.—Vic Meyers' dance orchestra.

### WEEK COMMENCING SUNDAY, DECEMBER 4, 1927

#### SUNDAY, DECEMBER 4

- 9:00 to 11:00 a. m.—Sacred Musical Concert.
- 11:00 to 12:00 p. m.—Morning Service of First M. E. Church.
- 12:30 to 3:00 p. m.—Classical piano recital.
- 3:00 to 3:30 p. m.—Soprano Solos — Margaret Austin.
- 3:30 to 7:15 p. m.—Studio program.
- 7:15 to 7:30 p. m.—Twilight organ recital.
- 7:30 to 9:00 p. m.—First M. E. Church.
- 9:00 to 10:30 p. m.—Puget Sound Concert Orchestra.

#### MONDAY, DECEMBER 5

- 6:30 to 7:30 p. m.—Vic Meyers' dinner hour concert.
- 7:30 to 8:00 p. m.—Studio program.
- 8:00 to 8:30 p. m.—Soprano Solos, Katherine Rice.
- 8:30 to 9:30 p. m.—Beattle Pacific College.
- 9:30 to 9:45 p. m.—Mezzo Contralto, Bertha Luddington.
- 9:45 to 10:00 p. m.—Studio program.
- 10:00 to 12:00 p. m.—Vic Meyers' Dance Orchestra.

#### TUESDAY, DECEMBER 6

- 6:30 to 7:30 p. m.—Vic Meyers' dinner hour concert.
- 7:30 to 8:00 p. m.—Tenor Solos, Mr. J. Leslie Pitcher.
- 8:00 to 9:00 p. m.—Vodvil program.
- 9:00 to 10:00 p. m.—Dick Carrington and His Orchestra.
- 10:00 to 12:00 p. m.—Vic Meyers' Dance Orchestra.

#### WEDNESDAY, DECEMBER 7

- 6:30 to 7:30 p. m.—Vic Meyers' dinner hour concert.
- 7:30 to 8:30 p. m.—Puget Sound Savings & Loan Assn. Concert Orchestra under the direction of Henri Damski.
- 8:30 to 9:00 p. m.—Casey-Bowyer, incorporated, "Knighthen-gales."

- 9:00 to 9:45 p. m.—Soprano Solos, Veraton.
- 9:45 to 10:00 p. m.—Novelty pianist, Constance Moreau.
- 10:00 to 11:00 p. m.—Sunshine Smile Orch.
- 11:00 to 12:00 p. m.—Vic Meyers Dance Orchestra.

#### THURSDAY, DECEMBER 8

- 6:30 to 7:30 p. m.—Vic Meyers dinner hour concert.
- 7:30 to 8:30 p. m.—Sear Roebuck fireside program.
- 8:30 to 10:00 p. m.—Sherman, Clay & Co. program, simultaneous broadcast with station KGA, Spokane; KEX, Portland, and KJR, Seattle. Featuring Ricardo Martin world famous tenor.
- 10:00 to 12:00 p. m.—Vic Meyers' Dance Orchestra.

#### FRIDAY, DECEMBER 9

- 6:30 to 7:30 p. m.—Vic Meyers' dinner hour concert.
- 7:30 to 8:00 p. m.—Tenor Solos, Verner Delaney.
- 8:00 to 9:00 p. m.—Woodlawn Flower Shop program, Leviennne Trio.
- 9:00 to 9:30 p. m.—Two-piano selections—Grace Hoffman, Laura Welch.
- 9:30 to 10:00 p. m.—Home College Trio.
- 10:00 to 12:00 p. m.—Vic Meyers' dinner hour concert.

#### SATURDAY, DECEMBER 10

- 6:30 to 7:30 p. m.—Vic Meyers' dinner hour concert.
- 7:30 to 8:00 p. m.—German program, under the direction of Auton Endress.
- 8:00 to 8:15 p. m.—Mezzo Contralto Solos, Bertha Luddington.
- 8:15 to 9:30 p. m.—Studio program.
- 9:30 to 11:00 p. m.—Sunshine Smile Society
- 11:00 to 12:00 p. m.—Vic Meyers' Dance Orchestra.

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**Western Electric** Speakers — Amplifiers  
Childs' Lab., 2310 So. Union

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G. DONALD GRAY  
Announcer

## Seattle, Washington—980 Kc.

# KOMO

FISHER'S BLEND STATION  
METROPOLITAN CENTER, SEATTLE

### DAILY EXCEPT SUNDAY—

- 10:00 a. m.—Seattle Council of Churches, Inspirational Services.  
10:15 a. m.—Y. M. C. A. Health Exercises.  
10:30 a. m.—"What to Prepare for Dinner," by Prudence Penny.  
12:00 n.—U. S. Dept. of Agri. Farm Flashes.  
12:15 p. m.—Grain report, except Saturday.  
12:27 p. m.—U. S. Weather report.  
5:00 to 5:15 p. m.—Silent period.  
5:15 p. m.—Kiddies' program.
- 5:45 p. m.—Stock and Bond quotations.  
6:00 p. m.—News Flashes and Sports.  
6:15 p. m.—Totem Concert Orchestra.  
7:57 p. m.—U. S. Weather Bureau report.  
9:00 p. m.—Longine Time Signals through N. B. C.

### WEEK COMMENCING SUNDAY, DECEMBER 4, 1927

- 10:00 a. m.—International Bible Students' Association studio program.  
10:30 p. m.—Late news flashes.  
11:00 a. m.—Plymouth Cong. Church.  
10:45 p. m.—Olympic Hotel Venetian Room Orchestra—remote control.
- 1:30 p. m.—Studio program.  
2:00 p. m.—Studio program.  
6:30 p. m.—Standard Oil Co. of Calif. program by N. B. C. over P. C. N.  
THURSDAY, DECEMBER 8
- 7:30 p. m.—International Bible Students' Association studio program.  
10:45 a. m.—Varied program.  
8:00 p. m.—Atwater Kent Radio Hour by N. B. C. over P. C. N.  
11:00 a. m.—Meat Talk arranged by National Farm Radio Council.  
9:00 p. m.—Longines Correct Time through N. B. C. over P. C. N.  
11:15 a. m.—Varied program.  
12:30 p. m.—Varied program.  
4:00 p. m.—Totem Concert Orchestra and Totem Soloists.  
6:45 p. m.—A Fifteen-Minute Period Practicing Good English.  
7:00 p. m.—Totem Concert Orchestra and soloists.  
8:00 p. m.—Talk by member of Northwest Products Committee of the Seattle Chamber of Commerce.  
8:15 p. m.—Totem Concert Orchestra.  
8:30 p. m.—Orientalogue.  
9:00 p. m.—N. B. C. program.  
10:00 p. m.—Totem Concert Orchestra and soloists.  
10:30 p. m.—Late news flashes.  
10:45 p. m.—Totem Concert Orchestra and soloists.

### MONDAY, DECEMBER 5

- 11:00 a. m.—Varied program.  
12:30 p. m.—Varied program.  
4:00 p. m.—Totem Concert Orchestra.  
4:45 p. m.—U. S. Dept. of Agriculture Farm School.  
5:00 p. m.—Health Talk.  
8:00 p. m.—Program by N. B. C.  
9:00 p. m.—Totem Concert Orchestra and Totem Soloists.  
10:45 p. m.—Late news flashes.  
11:00 p. m.—Totem Concert Orchestra and soloists.

### TUESDAY, DECEMBER 6

- 11:00 a. m.—Meat Talk arranged by National Farm Radio Council.  
11:15 a. m.—Varied program.  
12:30 p. m.—Totem Concert Orchestra and Totem soloists.  
6:45 p. m.—A Fifteen-minute Period Practicing Good English.  
7:00 p. m.—Totem Concert Orchestra.  
7:15 p. m.—"Ask Me Another."  
8:00 p. m.—Totem Concert Orchestra and Totem soloists.  
8:30 p. m.—Bridge lessons conducted by U. S. Playing Card Co. through N. B. C.  
9:00 p. m.—N. B. C. Eveready Hour"  
10:00 p. m.—N. B. C. program.  
11:00 p. m.—Late news flashes.  
11:15 p. m.—Herb Wiedoeft and his Recording Orchestra.  
12:15 a. m.—Varied program.

### WEDNESDAY, DECEMBER 7

- 11:00 a. m.—Organ recital.  
12:30 p. m.—Varied program.  
1:00 p. m.—Totem Concert Orchestra and Totem Soloists.  
5:45 p. m.—Stock and Bond Quotations.  
7:45 p. m.—"Opening the Mail."  
8:00 p. m.—Totem Concert Orchestra and Totem soloists.  
10:00 p. m.—Varied program.

### FRIDAY, DECEMBER 9

- 10:45 a. m.—Varied program.  
11:30 a. m.—Totem Concert Orchestra.  
12:30 p. m.—Totem Concert Orchestra and soloists.  
4:45 p. m.—U. S. Dept. of Agriculture Farm School.  
8:00 p. m.—Superior Service Dance Orch.  
10:00 p. m.—Varied program.  
10:30 p. m.—Late news flashes.  
11:00 p. m.—Herb Wiedoeft and his Recording Orchestra.  
12:00 midnight—Varied.

### SATURDAY, DECEMBER 10

- 11:00 a. m.—Organ Recital.  
12:10 p. m.—U. S. Dept. of Agriculture Farm News Digest.  
12:30 p. m.—Totem Concert Orchestra and Totem soloists.  
7:00 p. m.—Totem Concert Orchestra and soloists.  
8:00 p. m.—R. C. A. Hour through N. B. C.  
9:00 p. m.—N. B. C. program, "Philco Hour."  
10:00 p. m.—N. B. C. Co. Saturday Night Review.  
11:00 p. m.—Late news flashes.  
11:15 p. m.—Olympic Hotel Venetian Room Orchestra.



# L. A. DUNCAN

## RADIO ELECTRICIANS

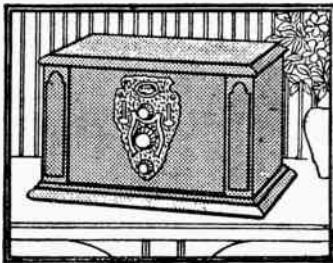
2891 W. Pico St.

EMpire 1141

Los Angeles

*Headquarters*

# Mohawk One Dial Radio Receivers



### THE NAVAJO

This Table Model of five-ply walnut veneer, with curly maple overlay, duo tone, full piano hinged, one dial.

Priced for battery operation.

**\$72.50**

**WILL BE GIVEN AWAY**

# FREE



Simply tear out Coupon below and bring to the store. It places you under no obligation.

We are Authorized Dealers for the entire line of the famous Mohawk One-Dial, All Electric Radios. Prices ranging from \$149.50 to \$367.00. Complete electric operation.

Don't forget our Service Department. We repair all makes of radio and equipment. 12 service trucks at your service.

Visit our Victrola Department, one of the most complete in Southern California.

Bring This Coupon to  
Our Store

L. A. DUNCAN,  
2891 West Pico St., Los Angeles.

Please enter me as a contestant for the Mohawk One-Dial  
Radio Receiver mentioned above.

**FREE OF CHARGE**

To be given away the night of Dec. 24, 1927.

Name.....

Address.....

## Karas "AC-Former"

(Continued from Page 23)

Now it is logical to assume that the types of AC tubes being produced by our largest tube factories will be the most widely used (we refer to Ceco, Gold Seal, Sonatron, Daven, Cunningham and RCA). These types consist of radio and audio frequency amplifiers requiring raw AC at 1.5 volts, special detectors of the "heater" type requiring 2.5 volts AC for the heater element, and the usual type of power tube requiring 5 volts AC for the filament. These various voltages must be supplied from the house lighting current through suitable transformers, and the hum must be balanced out by bringing the grid return of each tube to the exact center of the filament supply.

The Karas Electric Company of Chicago sent us a little unit, described on its nameplate as the "Karas A. C. Former." It is only about 3½ inches in all three dimensions, and yet it will take care of a set of twelve tubes, supplying all three of the necessary voltages, and for each voltage there is a tap in the exact center of each winding, eliminating the necessity of a potentiometer or other means of securing the required grid-return connection.

Coming out of the back of it is a loop of wire over two feet long which is meant to be split for a panel switch for controlling the power supply. There is also a plug-in socket where the "B" eliminator is attached so that it may be also controlled from the one panel switch.

The feet are removable and the binding post nuts may be removed and solder lugs used when it is desired to mount the A. C. Former right in the

set on the sub-panel. This little unit meets the question of AC filament supply in a very satisfactory manner.

In the next issue or the one following we will show the Karas Equamatic equipped with the A. C. Former and operating with three 326 tubes, one 327, and one 171. It is one of the sweetest AC jobs yet developed. In following issues we will show you exactly how to go about electrifying several of the most popular standard sets. Keep your weather eye peeled for this stuff if you are interested in AC!

## The Siamese Twins

(Continued from Page 26)

producer in the home which has all the marvelous qualities of each individually.

The new combined instrument speaks—"If in all the voices of the night there is naught to suit your mood, I will play for you a selection of your own choosing. At your will I become the highest development in the phonograph world or at a turn of a switch unfold to you the fascination of radio."

Any old phonograph whose mechanism will turn the table at the proper speed, equipped with the Patent Phonovox electrical pick-up may be plugged into your radio set and will give you all that the modern phonograph has to offer in addition to the enjoyment your radio now brings you.

Florence Kaiser White, dramatic soprano, who has been a featured soloist over several Chicago stations, and an honorary member of the Broadcast Listeners' Association, is fast gaining a most enviable position among music lovers in Southern California. Her radio work on the Pacific Coast has been limited, due to her concert and solo engagements.



Made in 12 Sizes — Phone  
Westmore 2712

## Admiral Bullard Passes On

By Major Lawrence Mott (KFWO)

It does not often fall to the lot of a man to write obituary articles on the passing on of two of his best friends—and within a scant few weeks of one another. Yet such is the fact, in my case, as it will be remembered that former Commissioner of Radio, Colonel Dillon, went through the Gates of the Unknown in October, and it is in the nature of a solace to me, to affectionately consider the many happy hours that we spent together, fishing, etc. On that occasion Admiral Bullard did me the honor of telegraphing to me to arrange "suitable floral representation of the Commission"—which I did, and the ink is hardly dry on the Admiral's signature to a personal letter to me, expressing his satisfaction at the flowers that I arranged for—at San Francisco.

And—now—I have wired the Commission, asking them to "arrange suitable floral representation of KFWO" . . . at the Admiral's obsequies.

As a shining history of impeccable integrity and splendid achievement, stands the Admiral's great record in the Navy of these United States! Briefly: Naval Academy graduate in 1886; served on the U. S. S. Columbia, in the Spanish-American War; navigating officer on the U. S. S. Maine, '05-'06; Executive Officer on the same ship, '06-'07; Commander of U. S. Naval Academy, '07-'11; Commandant at San Francisco, '11-'12; Superintendent Naval Radio Service, '12-'16 and '19-'21; Commander of U. S. S. Arkansas '16-'18. The Admiral served in the Great War in the American Division of battleships attached to the Grand Fleet. He was a member of The Interallied Commission,

and received the surrender of the Austro-Hungarian Fleet. Member of The Interallied Conference at Paris, France, Jan. to August, '19. Director of Naval Communications '19-'21; Commander of the Yangtze Patrol Forces, U. S. Asiatic Squadron, '21-'22; was retired on September 30th, '22, and latterly appointed to the Chairmanship of The Federal Radio Commission by the President.

Literally, then, he passed out on the Long Trail with his steady hands at the plough of his duties. It has been a great honor to have known Admiral Bullard as intimately as I was privileged to do, and it seems but yesterday that he and Mrs. Bullard were at a little luncheon that I gave, in July of this year, in their honor at the Mayflower Hotel, in Washington.

That the air lanes have been so immeasurably improved since the new Commission undertook its often unpleasant and always difficult duties, is largely due to the indefatigable efforts of the Admiral. As all Navy Officers, he was inflexible in his duty, and rigidly just—almost to a fault. But underneath the official exterior there beat a heart of the greatest kindness and friendship for all men. No "tale of woe" from any man was too long for him to listen to it, attentively. No seeming impasse, in the nature of a tangle of conditions, ever set him at naught. Brusque, cheery, delightful, with a vast fund of keen humor, Admiral Bullard's passing on to Greater Work—Elsewhere—leaves a wide gap in the Official Ranks at Washington. I respectfully present to the Commissioners my deepest sympathy at the loss of their splendid Chief.

**THE IDEAL XMAS GIFT and  
No Holiday Shopping Troubles!**

**See page 105**

# Dubilier

## Veteran of Radio "Battles"

While the master minds of radio have fought a hundred wars in their effort to prove the supremacy of one circuit over another, Dubilier has always been ready to meet each new theory and experiment with condensers of correct design, rugged construction and a dependably high factor of safety. These advantages are found today in every condenser marked—Dubilier.



### *The Official Condenser Block for Power-Units*

One of the most important and expensive elements of battery eliminators are the condenser blocks. Play safe and use Dubilier—the blocks approved by such well-known manufacturers as Raytheon, Acme, Thordarson, General Radio, etc. Sold by all the better radio stores. Circuit diagrams upon request.

#### **No More Outdoor Aerials**

Connect a Dubilier Light-Socket Aerial to your set, plug in, and note the improved reception. Uses no current, requires no attention and completely removes the lightning hazard. Price \$1.50.

#### **Rely On Micadon**

A compact, handsome and efficient fixed condenser for all small capacities. Moulded Bakelite case of modern design. Terminals adapted to screwed or soldered connections. Prices 45c to \$1.50.



#### **The Dubilier Metaleak**

A tubular grid leak you can back on for accurate resistance value and noiseless operation. Your dealer has them in all values from 20,000 ohms to 5 meg. ohms. Prices 50c and 75c.

## **DUBILIER CONDENSER CORPORATION**

4377 Bronx Blvd., New York

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**Marshank Sales Appointed  
Silver-Marshall Co.  
Representative**

Marshank Sales Company, with their main office at 224 East 16th Street, Los Angeles, has just been appointed the Southern California representative of the Silver-Marshall Company, Inc., manufacturer of the famous Silver-Marshall transformers, power units, and a general line of parts.



**D. N. MARSHANK**

Mr. D. N. Marshank, who organized the Marshank Sales Company in 1922, has been one of the outstanding figures in the radio industry of Southern California. He has been an active worker in the Radio Trades Association, having been president of the Radio Manufacturers Agency Association, and at the present time a member of the board of directors. Associated with Mr. David Marshank is his brother, William Marshank.

With such able representatives there is no doubt that the Silver-Marshall line will become very popular in this territory.

The  
**AERO-ADDS  
SERVICE**

Getting Results Over

**K G F J**

*We Are Producers*

Washington at Oak  
LOS ANGELES, CALIFORNIA



If you want publicity, or want to acquaint the buying public with any commodity, utility, or any type of goods—there is no way like our direct advertising medium.

We are specialists in advertising all types over the air—

**NO PROGRAMS TOO LARGE  
NO PROGRAMS TOO SMALL**



Phone WEStmore { **7777** for Information  
**7593**

We will gladly send a representative at your convenience for any and all information.

# The Perfect Xmas Gift!



A one year's subscription to *RADIO DOINGS*—\$3.00.

Any friend who has a radio will be delighted to receive it.

Each week for one year a copy of this valuable radio directory and radio magazine will be delivered to his home.

For fifty-two weeks your friend or member of your family will be pleasantly reminded of you by this serviceable and interesting magazine.

It is one of the few gifts that lasts throughout the entire year.

For only \$3.00 and no shopping troubles the hopeless question of a Christmas present is solved and the gift is bought!

*Simply mail in this coupon with your check and we will do the rest.*



RADIO DOINGS  
407 East Pico St.,  
Los Angeles, Calif.

Or

c/o CONGER & MOODY,  
Hearst Bldg.,  
San Francisco, Calif.

Gentlemen: Enclosed find \$3.00. Please mail RADIO DOINGS each week for one year to:

Name.....

Street.....

City and State.....

**A BINDER WILL BE SENT TOO! See Page 5.**

## DX Club (Continued)

shaping up all right now, and you'll hear from me again soon. Thank you, Mr. Ormiston, for your little tip about trying for Eastern stations on Sunday afternoons.

Yours truly,  
A. W. CROSBY,  
536½ N. Spaulding Ave.,  
Los Angeles, Calif.

### MORE "HAYWIRE"

DX Club:

When I built my "Haywire Three," a year ago, I never had any idea that I'd break into the DX Club (maybe I haven't). However, I feel that the old haywire is serving pretty well with only a few old dry cells buried for a ground and an aerial covered with soot. I get 'em as far east as Chicago on a tin-horn speaker and cut out KPO and KGO to bring in KWKH in Shreveport. Relatively speaking KGO is just in my back yard. If KYW is in a good humor I can cut out KMTR, although they are on the same wave-length. The haywire brings in KOA, KSL, KYW, KWKH, KFAB out in "Nebraska," and makes the windows rattle with CNRV, Vancouver. The old "Haywire Three" is a fitting monument to bailing wire, tin cans and discarded inner tubes, but let's hope the junk man doesn't see it.

H. E. ELSEN,  
Oakland, Calif.

Care W. U. Tel. Co., 16th St. S. P. Sta.  
Oakland, Calif.

### DX FAN—ONE MONTH OLD

DX Club:

Just one month ago I got my first radio, and besides never having owned one, I had had practically no experience in tuning or "playing" with a set. In fact, I was entirely green on the subject, not knowing a condenser from a transformer, and as far as the technical side is concerned, know very little more now.

Besides the 21 stations in Los Angeles and vicinity, I have logged 45 DX stations as follows:

KGO, KTAB, KFWM, KFWI, KYA, KPO, KFRC, KFSD, KOIN, KGW, KEX, KOMO, KJR, KFAU, CNRV, KSL, KQW, KOA, KFEL, KMOX, WDAE, KWKH, WBBM, KLZ, WJAZ, KFJR, WOS,

KDYL, KJBS, KFOA, KMO, CYE, CJOR, KGRS, CKWX, WJBT, KFBU, CFAC, KFAD, KDKA, WEBH, WCCO, WCX, KTNT, KFPY.

All of the above stations were on the speaker, I have no ear phones.

The set I have is a Zenith Model 14, operated with battery and B eliminator.

I believe every distance fan should write in to Radio Doings and express a desire for a silent night, or at least a silent half-hour each evening.

This would certainly be a boon to the DX hunter.

J. D. RICHARDSON,  
516 W. Harvard St.,  
Glendale, Calif.

### An A.K. GETS 'EM

DX Club.

Dear Sirs:

Here are the results of two evenings' twisting the dial on my new Model 33 Atwater Kent Radio, using the new Atwater Kent B Power unit and a storage battery. Of course, I use a Preston ground.

As for the east, I have KDKA, WJR, PWX, KOA, WLW, WBBM, KWKH, KLZ, WBAP, KOB, WLIB, WOW, WTAM, KSL, KMOB.

And to the north: KFWI, KMO, KGW, KPO, KOIN, KHQ, KFRC, KGO, KJR, KQW, KYA, KOMO, KFQU, KGA, KFWM, KTAB.

Canadians—CKWX (10 watts), CFYC, CFCN, CNRV. And, of course, KFWO and CYE and all locals.

Hoping this will find a place in your helpful "Little Red Book."

Yours truly,  
JACK SCHIEFER,  
7406 Melrose Avenue,  
Hollywood, Calif.

### FINE WORK, KEN!

DX Club:

This is the first time I have written to your wonderful little Red Book, and I am in hopes that you let me join your bunch of DX bugs. I have saved every copy of the Radio Doings since 1922. I have seen the little Red Book grow from about 10 pages to about a hundred. There has been some very interesting items in your little book. It has helped me in finding many long-distance stations.

I am in favor of a silent period each



night on the Pacific Coast. I am bothered very much by a broad local station, but these are a few of my distance stations, which I have brought in on my home-made Browning and Drake "4":

WHO, WOW, WGN, WLIB, WLW, WCCO, WAIU, WBBM, WSM, WCB, WEBH, KMOX, KDKA KYW, WHT, WOK, KWKH, WOC, WBAP, WOAI, WIBO, WLS, KVOO, WENR, WSWS, WPG. (This is my farthest U. S. station.)

Here are my foreign stations:

Canada—CKCD, CNRV, CFCN, CFAC.

Cuba—PWX.

Australia—5CL, 2BL, 4QG.

Japan—JOAK, JOBK, JOCK.

Mexico—CYE, CZF, CYL, CYB.

This looks like it is going to be a good winter for DX reception.

Yours for a better DX Club,

KENNETH C. KLERS,

1244½ E St.,

San Diego, Calif.

## THE FIRST SPARTON LIST

DX Club:

Have been a constant reader of the little red book for two years, and watch the DX page closely, but don't remember seeing any Victoreen owners breaking into print. What's the matter? Are they barred in your DX contest? During the last week I have logged 12 Chicago stations alone. Sunday night I listened to PWX, at 6:30; at 6:45 WJX, and at 3 a. m., JOCK and JOAK came in very clearly, although not very much volume.

Right now CJBC, Toronto, Canada, is coming in fine. Have had them for the last 30 minutes, and it's now 9:15.

Have a straight super hook-up, with Remler condensers and Silver Marshall audio, with a few minor variations I have made myself. For instance, I use a three-tap loop instead of two, as their prints call for. Run the third tap to oscillator, and seems to work better than the standard hook-up. I do not use an antenna, as I get enough interference on the loop to suit me. Use a Dunham loop, made in Los Angeles.

In concluding, will say that any Victoreen owners who wish to compare notes with me are welcome to write.

Yours very truly,

L. W. CAMMACK,

1814 Fern St.,

San Diego, Calif.

## MAGNAVOX HEARD FROM

DX Club:

I am using a five-tube Magnavox with no attachments, a 25-foot hoop aerial and an old radiator for a ground.

On the evening of Nov. 17th the following stations were logged:

KFJR, KOIN, KGW, KFXF, KLZ, KOMO, KJR, KFOA, KSL, KMOX, KMMJ, KMA, KWKH, WCCO, WLW, KDKA, WLIB, WBBM, KFBU, CNRO, WBAP, OW. I listened to the opera, "Il Pagliacci," from the stage of the Auditorium Theatre, Chicago, rebroadcast through KDKA. Picked up the opera through WOW, WCCO and WLW of the Blue network. From 9:20 to 10:20 was able to pick up KOMO or WLIB at will, both coming in clear. Have plenty of proof, which I am forwarding to these stations for verification.

Yours very truly,

F. W. WAITE,

Anaheim, Calif.

## A STEINITE ENROLLS!

DX CLUB:

The writer has used a Steinite Electric Model A. C., since the first of April of this year. Included in its log are the stations as follows:

KGH, Honolulu; KQB, Pittsburgh; WBBM, Chicago; KFAU, Boise; KFBI, Kellogg, Idaho; KFKX, Hastings, Neb.; CJOR, Vancouver; CNRV, Vancouver; KFXH, El Paso; KOWW, Walla Walla; KOMO, Seattle; KFOA, Seattle; KJR, Seattle; KEX, Portland; K&W, Portland; KOIN, Portland; KOA, Denver; KFEL, Denver; KFXF, Denver; KSL, Salt Lake City; CYE, Tia Juana, Mexico; KFSD, San Diego; KYA, San Francisco; KPO, San Francisco; KFRC, San Francisco; KFWI, San Francisco; KGO, Oakland; KTAB, Oakland; KQW, San Jose; KSDM, Stockton; KUOM, Missoula, Montana.

With the clearness of reception enjoyed during the spring and summer months, feel confident that the colder weather will bring in many new stations over my Steinite Electric. Shall keep the DX Club informed.

Cordially,

RUSSELL MILLER,

1059 S. Wilton Pl.,

Los Angeles, Calif.



# SANTA CLAUS ON THE AIR!

Listen for Jack Cronshaw and His Toy  
Symphonette in Kris Kringle  
Tunes and Jingles

*Friday Evenings at 7 o'Clock*  
*By Remote Control from the North Pole*



You'll Not Find a Better Saturday Night  
Program Than

## MONA MOTOR HOUR

8 to 9 o'Clock

*Featuring*

Monamotor Oilers and Lilyan May Challenger



WARNER **KFWB** BROTHERS  
360.1 Meters 830 Kc.



## Western Radio, Inc., Is Appointed Exclusive Sonora Jobber for So. California

Western Radio, Inc., of 1224 Wall Street, Los Angeles, one of the oldest radio jobbing establishments on the Pacific Coast, has just been appointed exclusive distributor for the Sonora phonograph and radio receiving sets. Mr. Les Taufenbach, President of the



LES TAUFENBACH

Western Radio, Inc., is one of the old-timers in the radio industry, having started in 1912. He organized his present company in 1921, and has distributed such well-known lines as Radiola, Cutting-Washington, Gilfillan receivers, Farrand and Western Electric loud speakers, and Ray-O-Vac batteries.

At the present, besides distributing the complete Sonora line, he is putting his untiring efforts behind Stromberg-Carlson sets, Cunningham tubes, Eveready batteries, Farrand and Utah speakers, and Sentinel power units.

Western Radio, Inc., can be congratulated for securing such a valuable jobbing franchise, for the Sonora Company is one of the largest phonograph and radio set manufacturers in the country.

Mr. P. L. Deutsch, who has just been elected president of the company, was for many years vice president of the Brunswick Company, and is thoroughly conversant with all phases of the musical and radio industry.

Mr. Deutsch will have associated with him in the ownership of the Sonora Phonograph Company such well-known figures as Drexel Biddle, Jr., John Hayes Hammond, J. J. Burden, Lewis Kaufman, E. F. Hutton and Ogden Mills.

A. J. Kendrick will be general sales manager and will have his headquarters in Chicago.

One of the best-equipped technical and recording laboratories in the country will be located in their New York offices under the direction of Mr. Walter G. Haenschen.

Dr. Miller Reese Hetchinson, an international authority on acoustical engineering, will have charge of the experimental laboratories.

Sonora Phonograph Company are now merchandising in a complete line of phonographs and radio receiving sets. Their latest addition to the radio line has been the AC operated light six Highboy Console. This set is operated directly from the light socket and completely does away with batteries and eliminators.

It is reported that Sonora will be in the field within the next few months with a complete assortment of records, which will mean a rather new line of endeavor for them.

Mr. Henry E. Gardiner will be the Pacific Coast representative for the Sonora Company, with his headquarters in San Francisco.

There is a ban on broadcasting in China, Bulgaria and Roumania.

## Timely Trade Topics

We are always pleased to see our old friend, "Jimmie" Hermans, the popular representative of Pacent, Formica and other well known lines. "Jimmie" has been in Los Angeles the past week visiting the trade with his local co-representative, Dave Marshank. Hermans calls San Francisco his home town, but he is as well known douth south as he is there.

"Dick" Coker of the Electric Sales Co., who is one of the most popular men in the radio trade, met with a painful auto accident when returning from a Thanksgiving dinner. We hear that he has a badly wrenched back and that his son was also injured. We all hope for their speedy recovery.

Mr. E. T. Angell, formerly with the Daven Radio Corp., has joined the Polymet Mfg. Corp., 599 Broadway, New York, as Assistant Sales Manager. Mr. Angell's addition to the Polymet staff was necessitated by the growing volume of business and the consequent increase in the responsibilities of Mr. Nat C. Greene, Vice President and General Sales Manager of the Polymet Mfg. Corporation. Mr. Angell comes to the Polymet organization with a wide acquaintance among the jobbers and manufacturers of the radio industry. His experience and ability will help mate-

rially to maintain the high grade and type of service for which the Polymet Mfg. Corporation is known throughout the industry.

Mr. Sukumlyn of the Armo Radio Laboratories, 1666 Tarleton St., Los Angeles, is gaining world-wide fame in his work on television, having received some very flattering offers from several European countries. He anticipates having his first machine ready for operation within the next two weeks, and will give a private demonstration to his host of inquirers before placing it on the market for commercial use. Watch these columns for further announcements.

Many expert radio service men "pass the buck" when it comes to the repairs and servicing sometimes necessary on battery eliminators and chargers. But the Radio Power Service Company, in charge of Mr. A. J. Hoffman, at 317 East 12th Street, Los Angeles, makes a specialty of charger and eliminator "grief," handling work for dealers and jobbers, as well as individual set owners. Mr. Hoffman has had several years experience in the manufacture and servicing of power units, and is familiar with the "inner workin's" of practically all makes. His service should fill a long-felt want.

## RADIO STORE FOR SALE

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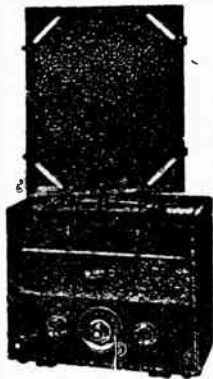
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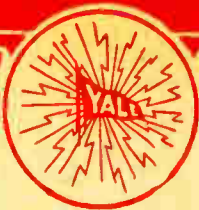
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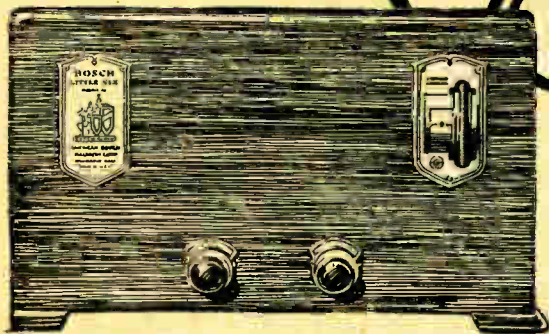
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