

# RADIO DOINGS

THE RED BOOK OF RADIO

COPYRIGHTED TIME TABLES OF THE  
LEADING BROADCAST STATIONS · DETAILED  
DAILY PROGRAMS · LATEST RADIO NEWS

**5**¢  
**WEEKLY**



## *The* **Radio Authority of the Pacific Coast**

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No. 22

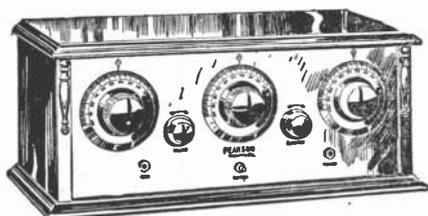
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The Holiday Season's Fastest Selling Line

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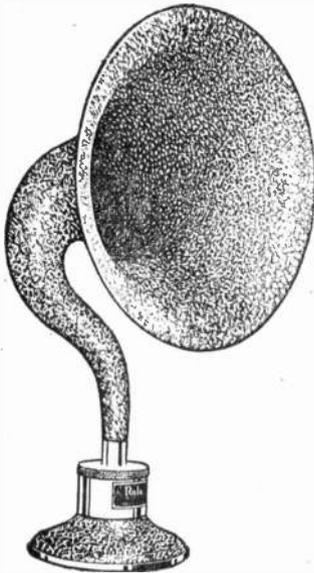
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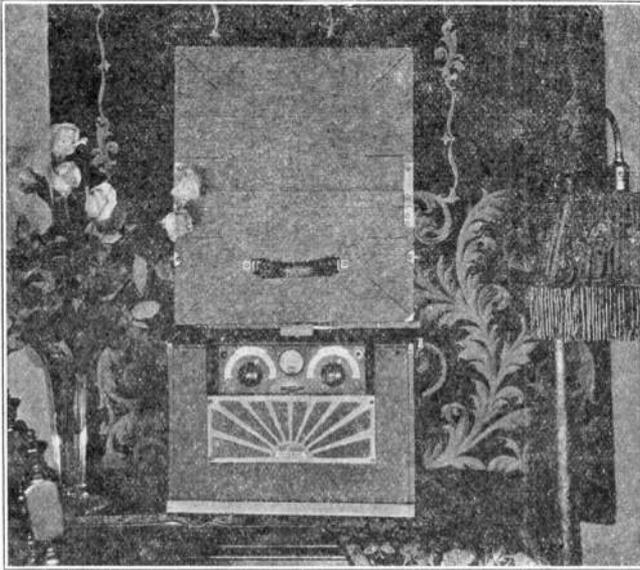
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### *The OPERADIO is Home Again*

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## Radio Doings

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## Watch for the Up-to-Minute Call Book

*The Washington Radio Conference has adjourned and all uncertainty concerning broadcast stations and wave lengths is now definitely settled.*

*Radio Doings can now offer to DX enthusiasts the only up-to-date and correct CALL BOOK published.*

*The delay was for the purpose of furnishing the public a much needed authority that could be depended upon.*

*The new CALL BOOK will be ready for delivery early in December.*

*Dealers are requested to send in their orders at once.*

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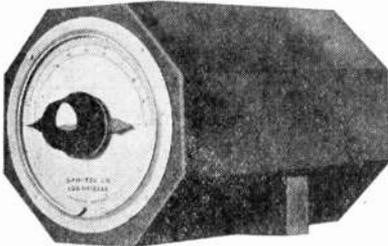
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Size 6½ x 4 inches*

If you have to force your tubes on D X, if that last delicate note needs a “bright” tube—then you need

## Radio POWER-BOX

*“The Connecting Link Between the Broadcast Station and the Set.”*

Attach this little wonder-box to the antenna and ground, then place Radio-Power-Box on top, beside or near your set and learn what a “booster” really means.

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*(See Complete List of Dealers and Service Stations on  
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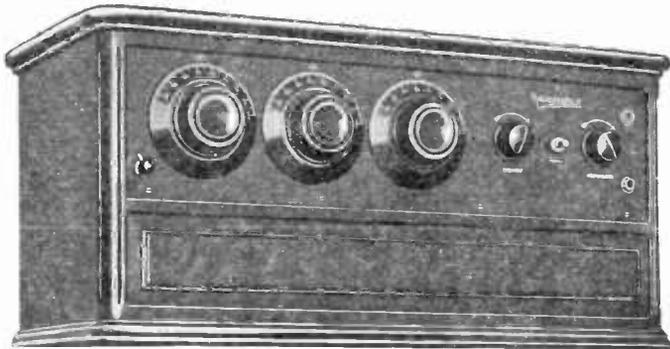
# RADIOGRAPH II

"WIZARD OF THE AIR"

TRADE MARK REG. U.S. PAT. OFF.

**RADIO CAN OFFER YOU  
NOTHING BETTER**

**Quality of Tone Unexcelled, Long  
Distance Reception Unequaled**



The Radiograph II sells on outstanding performance made possible by new mechanical features. This plus its beautiful appearance in solid Mahogany Cabinet.

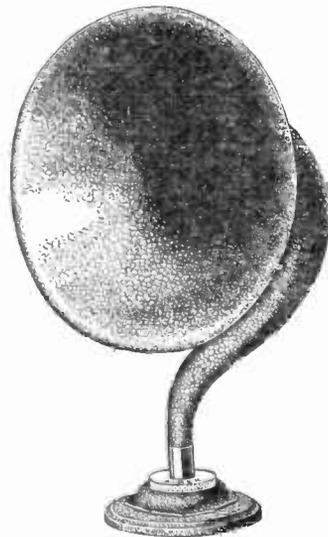
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Satisfy Your Desire With a Radiograph.***

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The Airex is constructed on a principle that ABSOLUTELY eliminates chatter and gives a new standard of quality in TONE reproduction and volume.

The secret of beautiful tone lies in this loud speaker. You must hear it to be convinced that it surpasses in every quality the best of loud speakers on the market. The characteristic "AIREX TONE" is clear and mellow.



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(Officially Confirmed)

**RADIOGRAPH II**



WIZARD OF THE AIR

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 Radio Equipment Sales,  
 Fourth and B Sts.

**SHERMAN, CALIF.**  
 Franco Electric Co.  
 798 Hilldale Ave.

*Exclusive Wholesale Distributors, San Diego and Imperial Counties  
 Airfan Radio Corporation, Fourth and B Sts., San Diego, Calif.*

*Exclusive Dealer, Windsor and Wilshire District  
 Radio Reception Studio, 5203 Beverly Blvd.*

*California Distributor*

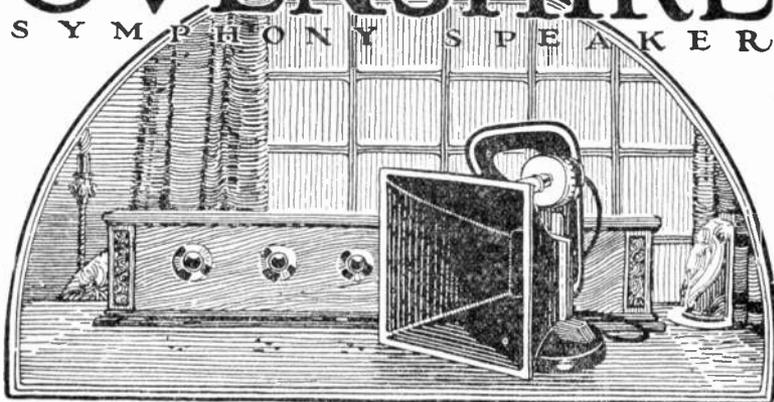
**310 East Twelfth St.  
 LOS ANGELES  
 Phone WEStmore 3178**

**ROY · B · JONES**

**640 Natoma St.  
 SAN FRANCISCO  
 Phone Market 1458**

# OVENSHIRE

S Y M P H O N Y S P E A K E R



The Supreme of Radio

## This Proposition Should Interest You

WE WOULD like to show you how to get more enjoyment from your radio. We would like to demonstrate to you that the Ovenshire Speaker will improve your set more than enough to make its purchase *decidedly worth while!*

***On Your Own Radio  
- - At Home!***

Just name the time and we'll bring or send an Ovenshire Speaker to *your home* so that you can hear it on your own set and compare it with the speaker you now have. You will not be urged to buy, and will be under no slightest obligation to do so.

Why not call us up in the morning and arrange for an Ovenshire demonstration. Our phone is *TRinity 0746*.

**EASTMAN KODAK STORES**

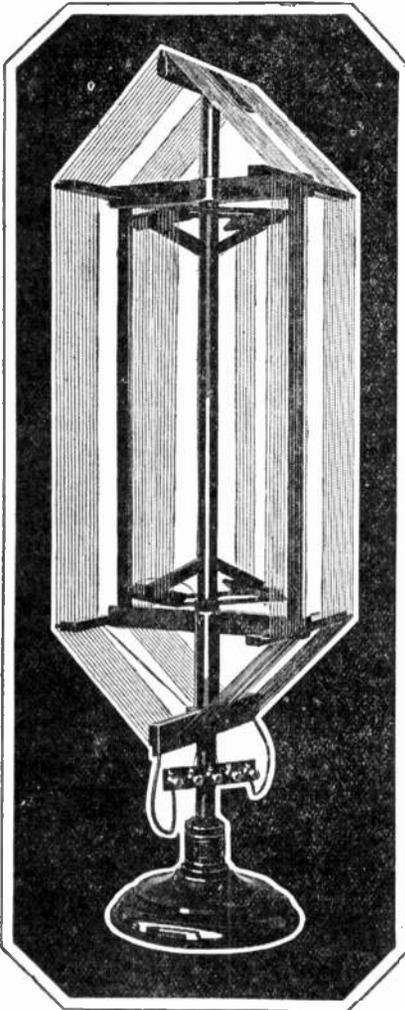
(INCORPORATED)

Formerly Howland & Dewey Co. . . . .

510 So. Broadway

Los Angeles, California

# “SPORTSMEN ALL---”



Manufactured by  
UTT-WILLIAMS ELECTRICAL  
PRODUCTS CO.  
SANTA ANA, CALIFORNIA

—Hole-in-one  
—Touchdown  
—Home-run

phrases that warm the blood of sportsmen, men who are still alive to a thrill. They are adding another phrase now—"Chicago on the loudspeaker, using

## AERO- LOOP

Why Aero-loop? Because it gives your set a sportsman's chance through local interference. This "loop-within-a-loop" unleashes the hidden power in your set and permits you to hunt through the infinite ether.

SELLS FOR  
**\$12.50**

The outside loop may be adjusted by rotation; the inside loop remains stationary as a "booster."

If your dealer doesn't carry it yet, we'll ship your Aero-loop, prepaid to your address on receipt of your dealer's name, and the type of set you own.

Write for your copy of the Aero-Loop Booklet which tells about the better reception now possible.

**SCOTT SALES CO.**

National Distributors  
443 SOUTH SAN PEDRO STREET  
VAndike 3297  
LOS ANGELES, CALIFORNIA

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in the largest "parts" stock on the Coast

—a few of our Representative lines:

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**PACENT** Products—SLF Condensers—Pyrex Sockets, Etc.

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**C. R. L.** Very High Resistances and Potentiometers.

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*Park Your Car Next Door at Our Expense*

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920 So. Broadway

VA. 6063

Los Angeles

OPEN EVENINGS TILL 9 O'CLOCK

Send for Our Latest Catalogue

# UTAH

Made in Salt Lake City

Trade Mark Registered



## THE 4 ACES IN RADIO



**A GOOD HAND FOR ANY DEALER**

**FOUR ACES**—whatever type of reproducer you favor you will find just the style you prefer in the Utah Line of Aces.

Made of semi-hard rubber there is no vibration in Utahs. All types have the same unit. Utah are manufacturers—not assemblers. We are the largest makers in America of any company devoted to the manufacturing of speakers and units.

**UTAH RADIO PRODUCTS COMPANY**  
1487 90. MICHIGAN AVENUE CHICAGO, ILL.

*Exclusive Southern California Distributor*

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*The Home of Utah Speakers*

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1125 Wall St.

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# Radiola III

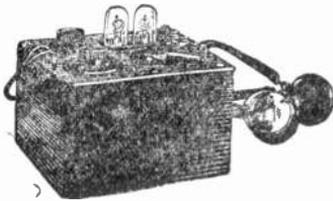
with the New Power Tube

BRINGS YOU

## A MERRY CHRISTMAS

For

# \$1.00



The two-tube Radiola III—with one Radiotron UV-199 and the new power Radiotron UX-120—with socket adapter—with headset. Clear reception—with loudspeaker power.

**\$1.00 — Puts One in the Home — \$1.00**

PAYMENTS \$2.50 PER WEEK

Don't overlook the fact that it's a  
**RADIOLA,**

and carries RCA guarantee as well as ours.

**A HOME DEMONSTRATION IS THE BEST PROOF  
WE CAN OFFER**

→←→←→←

# ALBIN BROS.

Own and Operate

Radio Sales and Service, Inc. Sou. California Radio Co.

OPERATING 3 STORES

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Los Angeles

Phone TRinity 3857

# Ye Editor's Opinion

## *Sink the Navy*

Men and Women, it looks as if we are all growing old and "comfy" and snug together. A while back Radio Doings got sorter coltish and came out all arrayed in new scenery. Well, if you could have read the avalanche of letters from our readers pleading for the old cover and telling us it was like losing a pal, you'd understand why it is that we're back again all in red. We just cannot resist weeping women. The folks just didn't like the new scenery, that's all.

That's that, but the thing we really wanted to tell you about this week was the letter we got from a Listener-In who must certainly love radio. Here it is:

Long Beach, Calif., Nov. 20, 1925.  
Radio Doings.

Will anything ever be done to eliminate the code pests of this neighborhood? Am in favor of sinking the navy if they are responsible.

Kindly advise for my peace of mind, (or otherwise) if code interference of evening programs will be done away with in near future. Seems to me proper equipment or wave lengths would handle this.

Yours very truly,

HERBERT HARTSOCK.

The code pest is just as big a pest as this riled up brother says he is, but sinking the navy is yet another thing. It's been a terrible job to sink the navy since the day that one John Paul Jones started voyaging. England, Spain and Germany have all tried it. Like Jones told the English admiral who said he'd hang him as a pirate,

you've got to catch 'em first, and the U. S. navy has never let itself be caught as yet.

The fact is that most of the code interference that is causing so much annoyance at this particular times comes from the spark sets that are used on the ships of the navy temporarily stationed at San Pedro. The navy men must have practice and since this is the only equipment furnished them thus far they naturally make use of it.

At the radio conference which just closed in Washington a resolution was passed urging the prohibition of this type of broadcast interference and Congress will be urged to pass a measure prohibiting it both for private and governmental use. This action is approved by Secretary Hoover and will doubtlessly be incorporated in the measure that is to be presented at the next session of the national legislature.

The entire subject of interference is going to have much more attention during the coming months than it has ever before received and the determination to license no new stations for the present is but the first step in this direction. Other important moves are scheduled to follow.

Let us try to be a bit patient. Radio Doings will help all it can, but sinking this nation's navy is one job that even the doughty Little Red Book will have to balk on. Boy, they're too tough for us.

EDWARD ROBERTS.

# In Radio's Hall of Fame

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Left, Herbert C. Colburn, manager of KFUU, Oakland, Cal.; right, Norma Hall, Y. W. C. A. Educational speaker; lower, Esther Fricke Green, Angelus Temple organist.

## What the Radio Conference Did

Washington, Nov. 24.—From out of a confusing mass of resolutions, proposals, conferences and suggestions, presented, talked of and discussed at the Fourth National Radio Conference, which was held in Washington beginning on November 9, the following definite decisions were made:

**No more broadcasting stations will be licensed to go on the air until there are suitable channels released.**

**No more stations will be forced to divide time or wave lengths.**

**The broadcasting band will remain between 202 and 545 meters.**

**The manufacture of radiating or regenerative receivers was condemned by the conference.**

**Spark sets, used by amateurs and the navy, were condemned.**

**Five years to be the duration of station licenses.**

**Government censorship was rigidly opposed.**

**Direct methods of advertising in broadcasting were condemned.**

**Designations of stations as Class A" and "Class B" to be discontinued.**

**Speculation in wave lengths was condemned.**

**Rebroadcasting of programs without permission of the station will be prohibited.**

**Amateur wave assignments were maintained but amateurs are to be warned to strictly observe silent hours.**

**Specific legislation from Congress demanded.**

**Appeals from the radio decisions of the Secretary of Commerce to be provided for.**

**No arbitrary power to be vest-**

### Keynote: "Public Service"

Washington, Nov. 24.—Throughout the whole conference the keynote was "service to the radio public." The manufacture and sale of radiating or regenerative receivers was opposed by the conference, it being pointed out that although control of some types of oscillating receivers were possible and that education was needed, the committee on interference was anxious at some early date to prevent the further manufacture and use of this type of listening device.

While opposing this drastic action, Powell Crosley, of Crosley Company, suggested that there were three types of receivers which might cause such interference, he was willing to let the resolution stand. Arc apparatus, it was held might be further improved and the use of high-power only when necessary was advocated.

**ed in Secretary Hoover.**

**A special radio bill embodying all recommendations to be presented to Congress at its next session. While no attempt to draw up a radio bill was made, a number of salient features were outlined and will be presented to Congress through Chairman White of the House radio subcommittee. These recommendations covered licensing of stations, opposed a monopoly in radio communication, and suggested an appeal over the Secretary of Commerce decisions.**

# The Why of Radio

By K. G. ORMISTON, A. M. I. R. E.  
 Technical Editor Radio Doings  
 Broadcast Engineer, KFSG

**EDITOR'S NOTE.**—*This is the twenty-second installment of RADIO DOINGS' complete Course in Radio. It began with the issue of July 4th and will cover every phase of radio from the basic principles to and including every device and set now in use. This course will be continued from week to week.*

In our first installment of this series of articles, and repeatedly since, we have stated that the speed of light and radio waves in the ether is roughly 186,000 miles per second. Also, in explaining the conversion of meters wave-length to kilocycles frequency, we used the figure 300,000,000 meters per second as the speed of the waves, which is the metric equivalent of 186,000 miles.

Truly this is a tremendous velocity, circling our little earth more than seven times in a second, and yet in the infinite reaches of space light must travel for hundreds and even thousands of years to reach our telescopes from many of the visible suns of the universe. In astronomy, the unit of measurement is a light-year, meaning the distance travelled by light in a year, at the rate of 186,000 miles per second. Don't try to figure out how many miles a light-year represents, because you will be unable to read the result when you get through, having more ciphers than you have names for.

At any rate, such a speed fairly staggers the human imagination, and I am not surprised that the humble scribe of this "Why" series should have received several letters asking for an explanation of how the speed of light was determined. The fact that our readers are thinking and wondering about radio is gratifying indeed, and when I make a flat statement without giving the reason behind it I am only too happy to receive a "Why?" by the next mail. Thinking and reasoning concerning the fascinating theories and fundamental principles involved in radio is mighty fine exercise for the mind. I care not whether you

are a lad who eats, sleeps and lives radio, or a bank president who finds in radio a hobby which provides relaxation and entertainment and the necessary PLAY, which every normal man must mix with work and sleep in correct proportion. To exercise the mind in a channel outside the regular routine of your daily work is refreshing, and I personally know of no study which provides more real interest and fascination than radio. Perhaps I'm prejudiced, for I must admit that to me radio has held the center of the stage from the time I was 12 years old. At that tender age my future life was shaped and determined by the act of a school chum, who shyly presented me with a home-made carbariumdum crystal detector as an evidence of friendship. That simple deed probaly kept me from being a preacher, bootlegger or candlestick-maker! At any rate, that fat little school boy of 20 years ago has my eternal thanks, publicly expressed herewith. His name was and is Edwin Lovejoy, now U. S. Radio Inspector in Col. Dillon's office, San Francisco.

But as usual I seem to be getting off the track again! We were talking about the speed of light and how it has been determined to be 300,000,000 meters per second. There are many methods which have been used. The first and earliest attempts were astronomical in nature. In 1676, a Danish astronomer named Romer, determined the speed of light from his observations of the intervals of time between eclipses of Jupiter's inner satelite when the earth was approaching and receding from the closest point to Jupiter. In 1721, Bradley, an English

## The Why of Radio—Continued

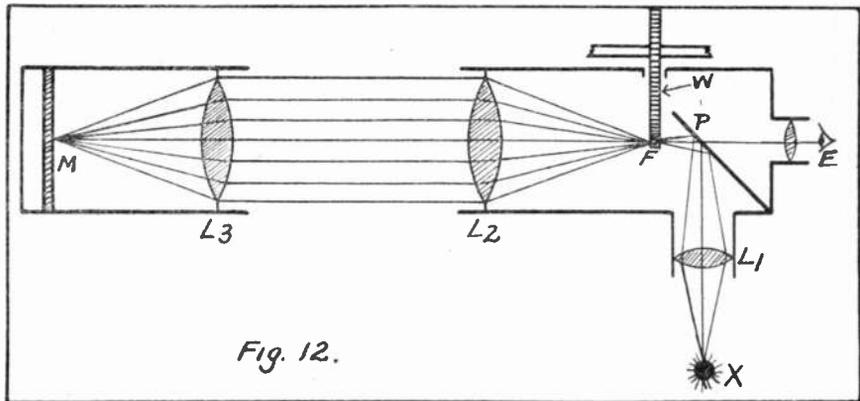
astronomer, by another method arrived at the velocity of 300,000,000 meters per second, while Romer's result had been 299,600,000 meters.

Then in later years, scientists named Fizeau, Cornu, Foucault, Michelson and lastly Professor Newcomb performed experiments which determined the velocity of light on the earth's surface, without resorting to astronomical observations. The method which I will describe will be the most simple one of the lot, the method of Fizeau and Cornu, first performed in 1849.

This method depends upon the eclipse of a source of light by means of a rapidly rotating toothed wheel. In Figure 12,

cused on a mirror M, which reflects it back on its own path. The beam of light returns to lens L2, is focused at F as before, diverges again and at P, the inclined glass plate, a portion of the light is reflected and a portion continues straight through and reaches the eye of the observer at E, producing the appearance of a bright star at F.

Now when the toothed wheel is rotated rapidly each space in the edge of the wheel lets through a detached train of light waves, which after travelling over a definite distance reach the eye at E, providing the return trip is not interrupted at F by a tooth having taken the place of the space which let the light



the arrangement of apparatus is illustrated. At X we have a bright source of light. The light is focused by means of the lens L1 on to the sloping piece of plate glass P, which reflects it so that the focal point falls at F. W is a toothed wheel, mounted so as to be rotated at any desired speed, and at F the beam of light either passes through a space between teeth or is obstructed by a tooth as the wheel revolves. The beam then widens out beyond the focal point and is changed into a parallel beam by the lens L2. It travels as a parallel beam over considerable distance (nearly five miles) and upon reaching lens L3, is fo-

through on the outward trip. What appears first to the observer at E is a bright star, and then as the speed of the wheel is increased the light will diminish in intensity until a point is reached where it is entirely extinguished. Then as the speed is further increased the light begins to appear again.

Now it is evident that at the speed where no light got through on the return trip that during the interval required for the light to travel from F to M and back to F, the rotating wheel had replaced an open space by a tooth. Get that clear in your mind before we go any further. At

(Continued on Page 84)

# Movie Queen's Newest Pet



An enthusiastic radio fan is Miss Ruth Roland, prominent motion picture star. This photograph was taken during a moment when she was particularly enjoying a splendid program reproduced by the Stewart-Warner Model 320 Highboy Console, the aristocrat of the Stewart-Warner line.



## Five New Broadcasters Licensed

Just following the termination of the Radio Conference the Department of Commerce issued licenses to five new broadcasters, which will be the last granted rights of way through the ether for some time, it is believed.

While a few stations, located in uncongested districts may be permitted to go on the air, it is the plan of the department to reduce the total, rather than add to it.

Call	New Class A Stations	Frequency Wavelength Power		
		Keys	Meters	Watts
WJBQ	Bucknell University, Lewisburg, Pa.....	1420	211.1	100
KFYR	Hoskins-Meyer, Inc., Bismarck, North Dakota.....	1210	248	10
KFUT	University of Utah, Salt Lake City, Utah.....	1150	261	100

### NEW CLASS "B" STATIONS

WRVA	Sarus & Brother Co., Inc., Richmond, Va.....	1170	256	1000
KPSN	Star-News Publishing Co., Pasadena, Calif.....	950	315.6	1000

### TRANSFERS FROM CLASS "A" TO CLASS "B"

KFAU	Independent School District of Boise City,			
	Boise, Idaho .....	1060	282.6	750
KFDJ	Oregon Agricultural College, Corvallis, Ore.....	1060	282.8	500
KTAB	Tenth Avenue Baptist Church, Oakland, Calif.....	900	333.1	1000
KFKU	The University of Kansas, Lawrence, Kansas.....	1090	275	500

## All In Favor, Say, "Aye"!

November 20, 1925.

Radio Doings,  
527 Van Nuys Bldg.,  
Los Angeles, Calif.  
Gentlemen:

Having known Mr. W. D. Scott for some time, it was when reading your article in the current number of "Radio Doings" that I was struck with the thought that the Howl Drug Company is certainly overlooking a bet in not using "Scotty's" photograph as a **truthful** advertisement of its Reliable Hair Restorer.

Yours very truly,  
H. W. ALLEN.

## DX Hounds, Please Answer!

Radio Doings,  
527 Van Nuys Bldg.,  
Los Angeles, Calif.  
Gentlemen:

Radio A-2BL, Sydney, Australia, broadcasting on 353 meters, would like to know if they are heard on the Pacific Coast. Will you ask your readers to report to you their reception of A-2BL, Sydney, and will you then please forward the information to us?

Sincerely yours,  
EARLE C. ANTHONY, Inc.  
By Carl Haverlin,  
Asst. Advertising Manager.

?

## Questions and Answers

?

By K. G. ORMISTON  
Technical Editor, Radio Doings

*NOTE.—Owing to the increased popularity of the Radio Doings Questions and Answer Section and the large number of letters we receive daily, we desire to announce that in the future more space will be given to this department. We maintain a Technical Staff, whose knowledge and experience is at the disposal of all radio fans. Let us help to solve your radio problems.*

**QUESTION**—I have several 45-volt B batteries that show 30 volts each. Can I use three of these batteries to make my required 90 volts of B battery for a 5-tube Stewart Warner set. It seems that I read a negative answer to this question, but did not state the reason. If your answer is "No," please explain why.

ALBERT LINDHOLM,  
Prescott, Arizona.

**ANSWER**—Atta Boy! Pardon the enthusiasm, but I sure like the fellow that wants to know "Why?" and won't take a plain yes or no for an answer. The answer is "No," and the reason as follows: The mere fact that a cell of dry battery consists of certain chemicals causes it to produce a certain voltage, and as long as those chemicals are present in active form they will produce the voltage, regardless of the quantity of the chemicals. In other words, in a dry cell the zinc, carbon and salomoniack kick up from a volt to a volt and a half no-load terminal voltage. Now, the ability to produce current, depends upon the QUANTITY of these elements which are present in useful form. Your B batteries may be dead as far as their current-producing ability is concerned, and yet still shows lots of voltage. This open circuit terminal voltage drops away to nothing, of course, when you attempt to put a load on the battery and draw current there-

from. If they would maintain their 30 volts each while giving you the necessary number of milliamperes current for the operation of your set, they would work for you O. K., but such is not the case. The ash heap is the proper place for 'em.

**QUESTION**—How do you determine the capacity of storage batteries in amperes. I purchased a new storage A battery and they told me it was 90 ampere-hours. After using it 12 hours Saturday and eight hours Sunday, my hydrometer showed the battery had discharged. It was fully charged or supposed to be when I started operations Saturday. The tubes draw  $\frac{1}{4}$  ampere, and I used four of them during the 20 hours, so should have consumed but 20 ampere-hours. It seems this proves the battery to be of much lower capacity than 90 A. H. How about it?

O. C. COX,  
Pasadena, Cal.

**ANSWER**—The capacity of a storage battery is computed from the area of the active surface of the plates and the number of plates. Radio batteries have for the most part been over-rated, however. Your hydrometer readings are inaccurate guides also, the important thing being to be able to maintain a potential of 5 volts at the terminals of the tube filaments for a reasonable number of hours with respect to the battery rating. You should be able to operate for, say, 60 hours before the voltage drop will begin to impair your reception.

## Questions and Answers—Continued

**QUESTION**—It seems that when one wants radio information he turns to you, and in this case can you advise if there are any schools in Los Angeles teaching code. I desire to explore the air wave extensively and find out what the dots and dashes say.

—L. G. HICKS, Los Angeles, Cal.

**ANSWER**—There are two splendidly equipped schools in Los Angeles where the code is taught. The Y. M. C. A. Radio School, and the National Automotive and Electrical School.

**QUESTION**—As a regular subscriber to *Radio Doings* I wish to ask a question. I am enclosing a clipping of the "Kelcoil" circuit. Will a set so constructed squeal like an Armstrong regenerative? If so, can it be suppressed efficiently, and how?

—WALTER CLEMENT,  
Greenfield, Cal.

**ANSWER**—The Kelcoil circuit IS the Armstrong regenerative. This type of circuit squeals when the operator makes it squeal, through the use of too much regeneration. A properly designed and operated regenerative set need never squeal unless the operator desires that it should to aid him in finding a distant station. This is a characteristic of every regenerative set, and if suppressed you destroy the sensitiveness of the circuit and throw away efficiency. The way to suppress the squealing is to learn how to tune the set. This is properly done by advancing the regeneration control in such a way as you tune the wave-length adjustment that the tube is always just a wee bit below the point of oscillation.

**QUESTION**—I have been using Amperite automatic filament control on my set. I now desire to use the new Radiotron UX-112 in my last audio stage, and

am writing to ask if the standard Amperite will be satisfactory on this new tube.

—LeROY ANDERSON,  
Ventura, Cal.

**ANSWER**—No, do not use the same Amperite you have been using. Coincident with the appearance of the new tubes the Radiall Company, manufacturers of Amperite, brought out two new units. One intended for use with Radiotron UX-112 and one for UX-120. There are known as Amperite No. 112 and 120 respectively. Procure this new unit for use with your new tube.

**QUESTION**—Is it possible to make a one-tube regenerative or super-regenerator to work off a loop, which would be very directional for locating interference in a town of about one mile square, no electric railways to contend with? Do you know of a good underground receiving antenna which would answer the purpose for demonstrating sets on the main street of a town which is very noisy, and would not be directional?

**ANSWER**—It depends upon the volume of the interference. Ordinarily a regenerative receiver will not give much satisfaction on a loop, unless you have good volume equivalent to that of a local broadcasting station. The super-regenerative circuit has never proved practical in operation. Any set with a stage or two of R. F. amplification should serve the purpose. To increase the directional effect of the loop it is a good scheme to shield the set and ground the shield to prevent the windings in the set picking up any energy, depending solely upon the loop for reception. Yes, an underground antenna which will serve your purpose is advertised in this issue of *Radio Doings*.



# The LISTENERS-IN CLUB

November 10, 1925.

"Listeners-in-Club",

Radio Doings,

Los Angeles, Calif.

My Dear Fans:

It has been a good while since I have written in to "Radio Doings" and so I am taking this opportunity to get my mind cleared.

I wish to congratulate Mr. Holt of this city in his fine reception this summer using 1-tube. Fine work, old man, keep it up!

My DX starting Oct. 31 has been WOK, WLS, WEBH, WHT, WCBD, WLIB, WENR, WMBB and WGN at Chicago. Then WSMB, WDAI, WFAA, WGR, WOAW, WDAF, KSD and KFKX. Am using 2 tubes now.

Clinton Kuhn of McKenzie Bridge, Ore., has the right idea **shield those regenerative sets!**

Jimmie Kilian: Thanks for ground idea. Will try it.

The new 1,000 watt station KQP has taken the air here in Portland. KQP operates on 248 meters and is the only Pacific Coast station to operate exclusively by remote control, being 7 miles outside the city. The studio is at the Portland Hotel. KQP is Class B and is a Western Electric station.

This affords the distant "listeners-in" a new station to tune for.

KFDJ at Cowallis, and KFVB at Hollywood have been retrodyning each other, so making it almost nil to hear either in Portland. KFDI has been on 254 meters, 500 watts and KFVB being two meters lower; now the wave of KFDJ is 282.5 meters, (Class B) which clears the interfering factors. KFDJ is

on Mondays, Wednesdays and Fridays, from 7:30 to 9:00 P. M.

Fellows, have you noticed the queer calls now being used such as KTNT at Muscatine, Ia., and WPDQ at Buffalo, N. Y.?

Mr. F. M. Foster is right—kick the 50 watters from the time tables. Just use 100 watts and up.

My last week's issue of Radio Doings makes the 75th issue I have purchased. It sure is a great magazine.

Well, friends, pardon the space I have taken but I feel better now, hi. Cue, 73's.

W. J. BOHRER,  
147 W. Emerson St.,  
Portland, Oregon.

October 29, 1925.

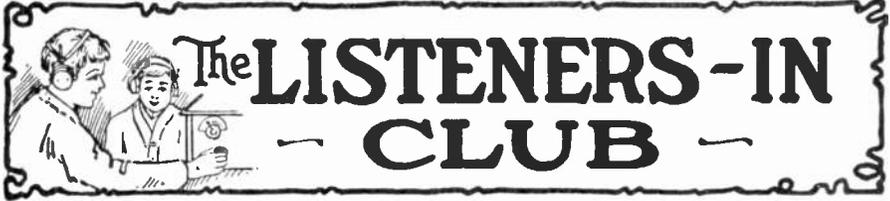
Dear Editor:

I always read "The Red Book" from cover to cover every week and find it more interesting even than many other magazines costing five times more.

The LISTENERS-IN CLUB is one of the features that I am sure will be a success. As I have a home-made 7-tube Silver Marshall Superheterodyne and I have obtained very good results picking up stations from Mexico City to Calgary and from Honolulu to New York during this summer, I will like to hear from other owners of the same kind of set and compare our results and troubles.

A strange thing about my set is that I get Vancouver, Portland and St. Paul much better with less fading than any other station more powerful and closer to me.

E. J. PELLET,  
1191 Benton St.,  
Santa Clara, Calif.



# The LISTENERS-IN CLUB

Buckeye, Arizona,  
November 12, 1925.

November 13, 1925.

Listeners-in-Club,  
Radio Doings,  
Gentlemen:

How many of you agree with me that there is not a radio publication selling for five times its price that equals our little Red Book? Especially the arrangement of the programs and the Questions and Answers department are well worth more than it costs.

There appears to be a general belief that reception on the desert is not dependable. May I deny this through your columns. Using an Atwater Kent during the past summer when the mercury sometimes went up above 120 out here in Arizona I could always depend on one or two good nights every week. With cooler weather here now, reception is almost ideal. To illustrate: We have no difficulty in getting, with loud speaker volume every station with programs listed in the Red Book broadcasting on wavelengths between 270 and 500. Also KFKX of course, WFAA, WBAP, two Kansas City stations, two in Chicago, one in Cincinnati, San Antonio, Omaha, Des Moines and dozens of others. No, I'll take that back about the Pacific Coast stations. I have never been able to get KFOA. Can some of you tell me why?

A suggestion: Isn't there some way the listeners-in can get together and induce the broadcasters to devote a part of the time at least to music that is now being wasted on jazz? A great deal of alleged "dinner music" that clutters up the air would give a deaf mule the colic.

C. A. NARRAMORE,  
Buckeye, Arizona.

Dear Mr. Roberts:

What is the cure for the "Radio Boob"—the insufferable individual who ruins everybody else's radio reception.

For example: 5:30 p. m. today there is some ignoramous switching his or her dials around and thereby killing reception of anything over 1,000 miles. Chicago, Fort Worth, Kansas, Idaho and Arizona stations broadcast is ruined by some idiot. Each of these are coming in.

Sometimes I have the unkind wish that my 3 tubes radiated but then while I might kill the boob's reception I would hurt others who like myself are at all times desirous of "playing ball."

HASTINGS,  
5613 Speedway,  
Venice, Calif.

November 16, 1925.

Dear Sir:

It was hard enough to squeeze through local broadcasting before, but now that KPSN has appeared on the scene it will be harder on the DX bugs.

KPSN will ruin KSL and KOA. Why don't you publish article pro and con on the subject of a silent night, or two nights when the upper wavelength viz: KHJ, KFI, KNX will keep off the air and visa-versa.

After impartially presenting the question, you could take a vote on the subject by means of a voting blank in your magazine. If the vote was pro-silent night, the stations should agree to adopt the plan of the majority. If they wouldn't agree, well, blacklisting worked in Chicago. That's off my chest. Good luck and prosperity to the "big nickle's worth." Sincerely, ELMER JONES.

## Thirty Stations Quit Air in October

### CALL

KQP  
KFWD  
WCBU  
KFJZ  
WGBG  
WSAU  
WHBB  
KFCC  
WIBP  
WTHS  
WGBT  
WABB  
WEAY  
WABA  
KFRL  
WIBT  
WHK  
KFOL  
WCTS  
WBT  
WIBK  
KFAN  
WCBC  
KFUT  
KFSY  
KFUV  
WIBD  
KFUZ

### CLASS A STATIONS DELETED—

Apple City Radio Club, Hood River, Oregon.  
Arkansas Light & Power Co., Arkadelphia, Arkansas.  
Arnold Wireless Supply Co., Arnold, Pa.  
W. E. Branch, Fort Worth, Texas.  
Breitenbach's Radio Shop, Thrifton, Va.  
Camp Marienfeld, Chesham, New Hampshire.  
The Copps Co., Stevens Point, Wis.  
The First Congregational Church, Helena, Mont.  
First Presbyterian Church, Meridian, Miss.  
Flint Senior High School, Flint, Mich.  
Furnian University, Greenville, S. C.  
Harrisburg Sporting Goods Co., Harrisburg, Pa.  
Iris Theatre, Houston, Texas.  
Lake Forest University, Lake Forest, Ill.  
Mens Club of the First Presbyterian Church, Grand Forks, N. D.  
Orlando Edgar Miller, (Portable Station) New York, N. Y.  
The Radiovox Co., Cleveland, Ohio.  
Leslie M. Schafbuch, Marengo, Iowa.  
C. T. Sherer Co., Worcester, Mass.  
Southern Radio Corporation, Charlotte, N. C.  
University of the City of Toledo, Toledo, Ohio.  
University of Idaho, Moscow, Idaho.  
University of Michigan, Ann Arbor, Mich.  
University of Utah, Salt Lake City, Utah.  
The Van Blaricom Co., Helena, Mont.  
G. Pearson Ward, Springfield, Mo.  
X-L Radio Service, Joliet, Ill.  
Y. M. C. A., Virginia, Minn.

### CLASS "B" BROADCASTING STATIONS DELETED.

WSAC      Clemson Agricultural College of So. Carolina, Clemson Col., S. C.  
KFRU      Etherical Radio Co., Bristow, Oklahoma.

L. R. Tucker, Big Brother of KPO, is training a parrot to speak over the air. Big Brother, after telling his audience a story about parrots, received a number of requests from children to have a bird broadcast as they had never heard a parrot talk.

Instead of old-style Christmas greeting cards, send the  
**Automatic World's Time Chart**

with latest "Find-Me-Quick" RADIO CHART combined, all ALL-YEAR-ROUND POCKET GIFT entertaining the whole family. Invaluable for teachers, students, radio fans, travelers, etc. Indorsements from many authorities SENT FREE on request.

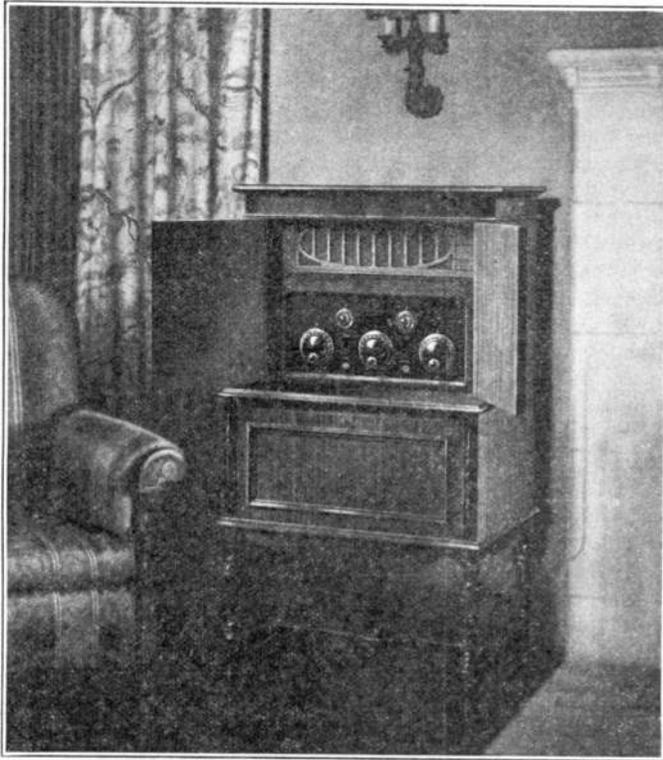
Send 50c for original Chart and wholesale prices.  
**RADIO CHART BUREAU, Fresno, California**

FAR AND NEAR

EQUALLY CLEAR

# GILFILLAN RADIO

*Special Equipment in a Magnificent Console*



*Other new Gilfillan models that may be seen at the dealers are a 5-tube set at \$110, and a 4-tube at \$70. The latter operates with dry batteries. Be sure to hear Gilfillan before you buy. Every Gilfillan dealer will be glad to demonstrate.*

## GILFILLAN BROS. INC.

1815 W. 16th St., LOS ANGELES, CAL.

KANSAS CITY

NEW YORK CITY

THE SUPERFINE



IN NEUTRODYNE

# Radio Topics of the Day

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

## SHORT WAVE TEST

Short-wave signals transmitted by WGY at Schenectady have been received with fair quality and easily read volume during the day 8,850 miles from the sending station and have been inaudible 200 miles from the transmitter. For several months tests have been conducted by the radio engineers of the General Electric Company on 41.88 meters wave length using approximately one kilowatt of power and from the reports received over a great territory it is apparent that this wave length is especially suitable for daylight transmission.

All programs of WGY have been transmitted on 41.88 meters, 109 meters and 1,560 meters, in addition to the assigned wave length of the station, 379.5 meters. The 41.88-meters transmitter has been used under the call letters 2XAF.

WGY recently received a letter from Robert L. Simpson of Pretoria, South Africa, stating that he had picked up the short waves on the morning of August 2, at 4:50 o'clock, South African time. His log checked with that of the station. His most interesting statement was: "As it got lighter here the signal strength increased gradually." Pretoria is 7,988 miles from Schenectady.

W. P. Huggins of Grey Lynn, Auckland, New Zealand, reported reception of WGY's 41.88-meter signal on the afternoon of July 4 and 5, between 3:15 and 4:30 o'clock. His log checked with the records of WGY, Auckland is 8,850 miles from WGY.

Stanley McClatchie, a radio experimenter residing in Stuttgart, Germany, received WGY on a receiving set in the

Alps in daylight. Fans living in Belfast, Ireland; Liverpool, London and Furness, England; La Platte, Argentina and Calgary, Alberta, Canada, have successfully heard Schenectady.

## TUBES TO LAST LONGER

The filaments of most low consumption tubes are made of thoriated-coated tungsten and naturally, when the thorium wears off the surface, the electronic emission almost ceases. If the filament could be made of solid thorium, its life would be greatly lengthened, but heretofore this metal has been obtainable in limited quantities only. In the December Radio Broadcast magazine, Professor Morecroft, past president of the Institute of Radio Engineers, says that thorium is now available in considerably greater quantities, and that in the near future we may expect to have tubes of a much longer life than those at present on the market.

## AUDIO AMPLIFICATION

Much has been written the past few months of the advantages and disadvantages of resistance-coupled audio frequency amplification, and generally it has been agreed that the quality obtained from such an amplifier is an improvement over that emanating from most transformer-coupled amplifiers. Describing a new receiver in the December Radio Broadcast magazine, Glenn H. Browning, of Browning-Drake fame, advocates the use of choke, or impedance-coupled stages, for the audio amplification.

# Radio Topics of the Day

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

## INTERNATIONAL TESTS

Complete co-operation from broadcasters in England and Europe is assured for International Radio Week, January 24 to 30, 1926, Arthur H. Lynch, editor of Radio Broadcast told the Fourth National Radio Conference referring to wireless messages just received from radio officials in Europe and England. Mr. Lynch, chairman of the committee handling the international radio broadcasting tests which will be a feature of International Radio Week early next year, states that U. S. stations are required to be silent only one hour each night or seven hours all told.

The National Association of Broadcasters, by formal vote, officially endorsed the movement, making more than twenty associations in the United States who are sponsors for the week.

## COYRIGHT QUESTION

Washington, Nov. 23.—In the three-day discussions of the copyright committee headed by Representative Wallace White, Maine, which attempted to reach an agreement between the Society of Authors, Publishers and Composers and the broadcasters, the members were unable to dispose of this vexatious problem. After the committee had recommended to the conference that legislation be enacted to settle the question, Secretary Hoover advised that the matter be left as it now stood until a further effort has been made at conciliation. The recommendation of the Secretary was accepted, and the report tabled.

## BEHIND THE MICROPHONE

When Dolly Macdonald sang for her radio tryout she was the most nervous girl the KFI judges had ever seen, in spite of which she made a very favorable impression and was booked for the 10 to 11 program the following night. Her log for the following night would read as follows: "9:00—left home for KFI. 9:05—my sedan wrecked by speeding car which turned over twice. 9:20—police station to report. 9:30—police car took me to KFI. 9:45—KFI elevator stuck. 9:55—KFI elevator unstuck. 9:56—music lost. 9:57—accompanist faints. 9:58—music found. 10:00—sang two songs and accompanied myself." The moral seems to be—when singing for a radio station, leave home an hour before scheduled. When Miss Macdonald was complimented on her nerve she said, "After trying out in front of that instrument of torture they call a microphone, nothing will ever have any effect on me again."

## ACROSS THE ATLANTIC

International broadcasts from England and Germany are expected to reach this country for rebroadcasting soon, according to David Sarnof of the R. C. A. In exchange he expects to transmit a suitable program abroad. An R. C. A. station as Belfast, Me., is now experimenting with broadcast reception and retransmission of European signals. Already they hear Daventry's 40 KW set on 1600 meters, but weakly. Hope to transmit and retransmit over the Atlantic this year is expressed by R. C. A.

# Reinartz Short Wave Set

By K. G. ORMISTON

There is apparently sufficient interest in short wave reception, to warrant the publishing of the diagram for a set designed for such purpose. By short-waves we mean those in the neighborhood of 100 meters and under. While at present there are but a few stations to be heard, it affords considerable interest for the experimenter. In addition to KDKA and WGY, the short-wave fan now will have the mobile broadcast stations which are coming more into use daily.

There is also a real thrill in the reception of KDKA in the late afternoon, and for the fan who is learning or who knows the International Morse Code, the amateur traffic on 80 meters affords an unusual source of interest and entertainment.

The amateurs have pioneered the short waves, hence we look to them for the most desirable circuit, and the one which we are illustrating is perhaps the most popular among the "hams," being the development of John Reinartz, famous for his work in short-wave amateur radio telegraphy. The receiver is of the regenerative type.

Coil ABC is in reality one winding tapped at two points. It may consist of 36 turns of No. 16 D. C. C. wire, tapped at 12 and 24 turns, wound on a 3½ inch

cardboard tube. Any form of coil or type of winding having equivalent inductance value may be used, there being some on the market of special low-loss type intended for this circuit. Coil D consists of about 10 turns of No. 16, 3½ inch diameter. The coupling between coil D and coil ABC may be fixed when the best position is determined by experiment. The two tuning condensers C1 and C2 are of 11 plates with vernier adjustment.

The choke coil in the lead from detector plate to audio transformer consists of a 3 inch length of broom-stick wound full with No. 30 D. C. C. wire. Its purpose is to restrict all radio frequency energy to the tuned circuits and to prevent the audio transformer primary capacity having any effect upon the tuned circuits.

Either a dry cell or storage battery tube may be used with 45 volts on the plate. The grid and plate leads in the detector circuit must be kept as short as possible. This type of regenerative circuit, has in general, been found more satisfactory than the standard three-circuit variety for the reason that the control of regeneration is more easily and accurately accomplished by means of condenser C2, than by the usual tickler adjustment.

## SPECIAL ANNOUNCEMENT

### THE NEW RADIOLA 28 8-TUBE SUPER-HETERODYNE

Now on Demonstration at Our Store.

You are cordially invited to call, see and hear this latest development in radio.

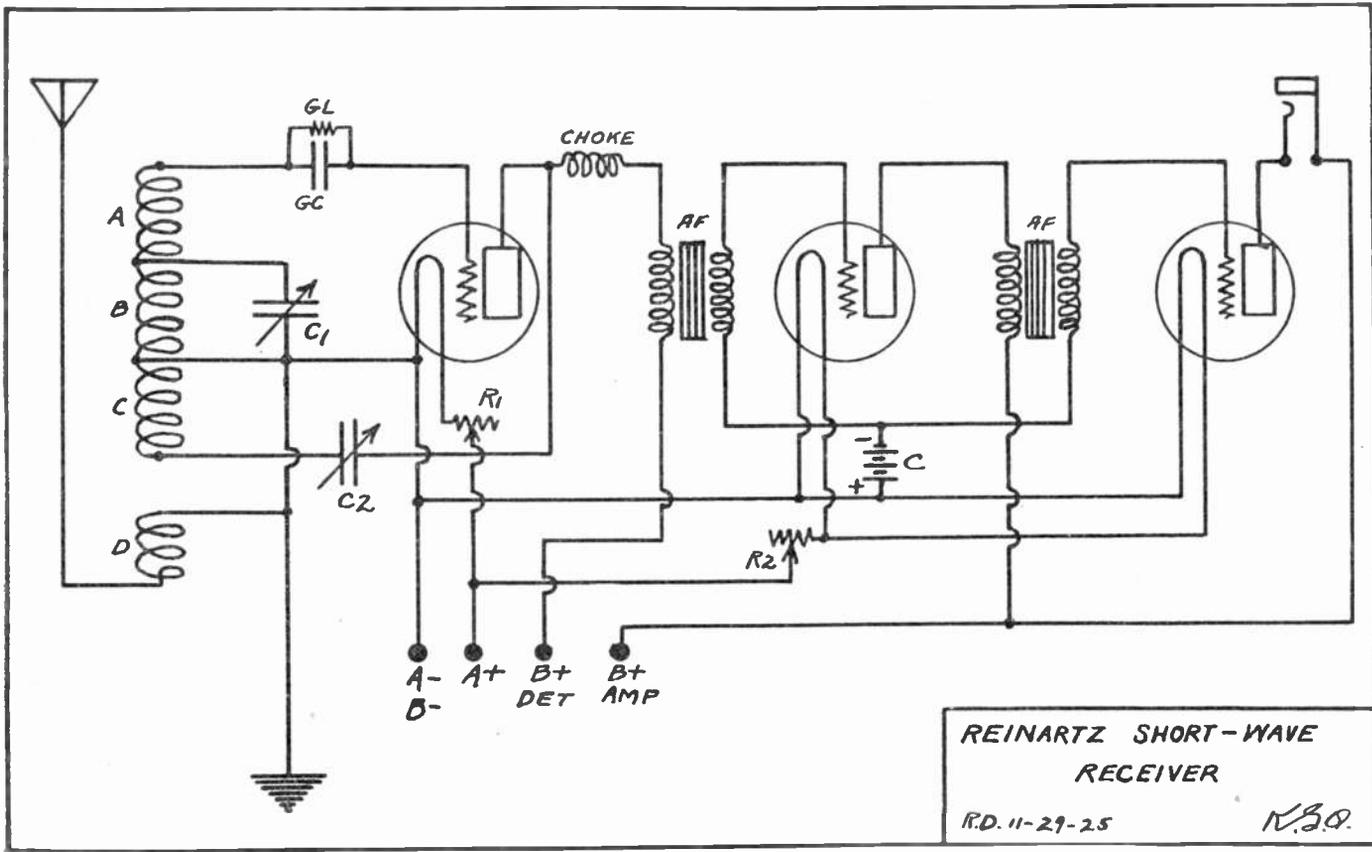
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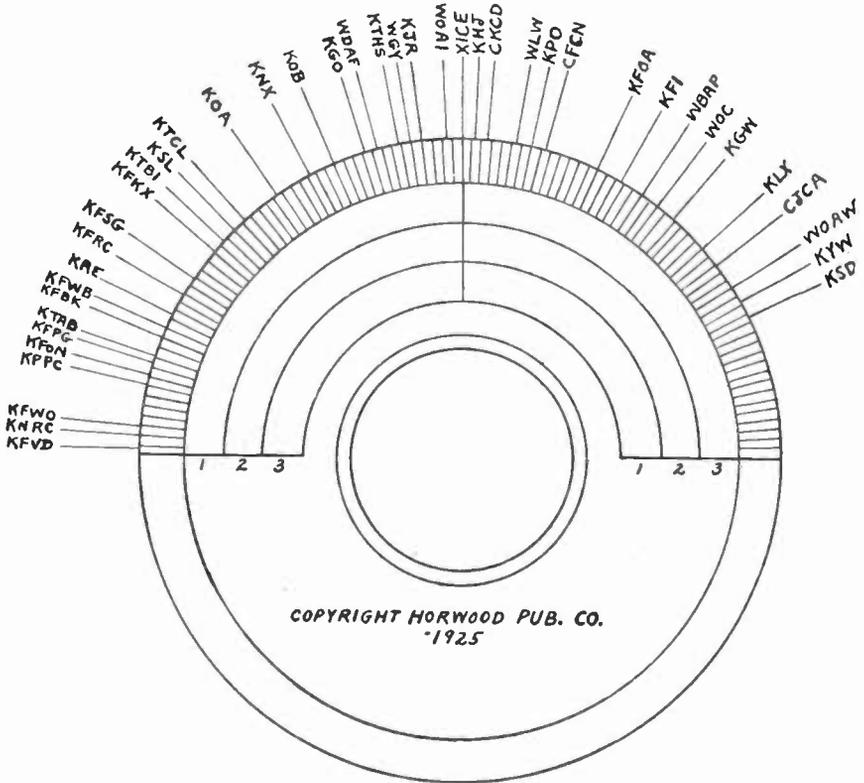
REINARTZ SHORT-WAVE RECEIVER

R.D. 11-29-25

N.S.O.

# Radio Doings

## Straight Line Wavelength



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-1925

**REVERSE THE ORDER OF DIALING IF YOUR SET DIALS IN OPPOSITE DIRECTION TO ABOVE DIALOGRAM**

We believe that the average fan, especially the beginner, can more readily find a distant station when he knows its relative position on the dial with respect to his local stations, rather than puzzling over the meters, wave length or frequency which mean so little to him.

The above diagram illustrates the relative position of the stations with respect to each other on the dial of the ordinary type of variable condenser. It is accurate for a straight-line-wave length condenser with tuning range of 200-600 meters, and relative on dials which cover a different range.

Space for logging your actual dial settings is provided.



# SUNDAY TIME TABLE

ALL TIME TABLES ADJUSTED TO PACIFIC TIME  
(X) indicates Station is On the Air

STATIONS			10-12 A.M.	12-2 P.M.	2-4 P.M.	4-6 P.M.	6-8 P.M.	8-10 P.M.	10-12 P.M.																							
CALL	Wave Length Meters	Power in Watts	10 00-10 30	10 30-11 00	11 00-11 30	11 30-12 00	12 00-12 30	12 30-1 00	1 00-1 30	1 30-2 00	2 00-2 30	2 30-3 00	3 00-3 30	3 30-4 00	4 00-4 30	4 30-5 00	5 00-5 30	5 30-6 00	6 00-6 30	6 30-7 00	7 00-7 30	7 30-8 00	8 00-8 30	8 30-9 00	9 00-9 30	9 30-10 00	10 00-10 30	10 30-11 00	11 00-11 30	11 30-12 00		
			K H J	405	500	Los Angeles	X	X	X	X								X	X				X	X	X	X	X	X	X	X	X	
K F I	467	3000	Los Angeles	X	X	X	X								X					X	X	X	X	X	X	X	X	X				
K T B I	294	250	Los Angeles		X	X	X	X												X	X	X	X	X	X	X	X	X				
K F S G	275	500	Los Angeles		X	X	X	X					X	X	X	X				X	X	X	X	X	X	X	X	X	X	X		
K N X	337	500	Los Angeles	X	X	X	X					X	X	X	X				X	X	X	X	X	X	X	X	X	X	X	X		
K F W B	252	500	Los Angeles									X	X	X	X				X	X	X	X	X	X	X	X	X	X	X	X		
K N R C	208	500	Los Angeles																								X	X	X	X		
K M T R	238	500	Hollywood																													
K P P C	229	50	Pasadena		X	X	X	X															X	X	X	X						
K F W O	211	250	Catalina					X	X							X	X		X	X	X	X	X	X	X	X	X	X	X	X		
K F O N	233	500	Long Beach									X	X	X	X				X	X	X	X	X	X	X	X	X	X	X	X		
K F V D	205	50	San Pedro			X	X	X	X														X	X	X	X	X	X	X	X		
K P O	428	1000	San Francisco	X	X	X									X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
K F R C	268	50	San Francisco												X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
K J B S	229	5	San Francisco																	X	X	X	X	X	X	X	X	X	X	X	X	
K T A B	240	1000	Oakland	X	X	X	X	X															X	X	X	X	X	X	X	X		
K G O	361	3000	Oakland			X	X							X	X									X	X							
K F U S	256	50	Oakland									X	X																			
K F U U	220	50	Oakland								X	X	X																			
K L S	252	250	Oakland								X	X																				
K R E	256	100	Berkeley	X	X																	X	X		X	X	X	X	X	X		
K F Q U	217	100	Holy City, Calif.		X	X			X	X												X	X		X	X	X	X	X	X		
K G U	370	500	Honolulu																										X	X	X	
K J R	384	1000	Seattle			X	X	X															X	X	X	X	X	X	X	X		
K T C L	305	1000	Seattle																				X	X	X	X	X	X	X	X		
K T W	272	750	Seattle			X	X						X	X									X	X	X	X	X	X	X	X		
K F E C	248	50	Portland												X	X						X										
K G W	491	500	Portland		X	X	X																	X	X	X						
C F C A	356	1000	Toronto												X									X	X	X						
K O A	322	2000	Denver	X	X						X												X	X	X							
K S L	300	1000	Salt Lake City								X	X	X	X									X	X		X	X	X	X	X		
W O A W	526	1000	Omaha																				X	X								
K T H S	375	500	Hot Springs	X																			X	X	X	X	X	X	X	X		
K O B	349	1000	State Col., N. M.			X	X																					X	X	X		
W G Y	379	5000	Schenectady										X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
W O A I	394	2000	San Antonio																				X	X	X	X	X	X	X	X		
W B A P	476	1000	Fort Worth		X			X																								X
W F A A	476	500	Dallas				X	X					X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
W O C	484	5000	Davenport				X	X											X				X	X	X	X						
K S D	545	750	St. Louis									X	X	X	X	X	X						X	X	X	X	X	X	X	X		
W G R	319	750	Buffalo				X	X	X	X													X	X	X	X						
W K R C	422	1000	Cincinnati																				X	X	X	X	X	X	X	X		
K D K A	309	1000	Pittsburgh					X	X	X	X	X	X	X	X	X	X															
W P G	300	500	Atlantic City					X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
W M B F	384	500	Miami, Fla.												X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		

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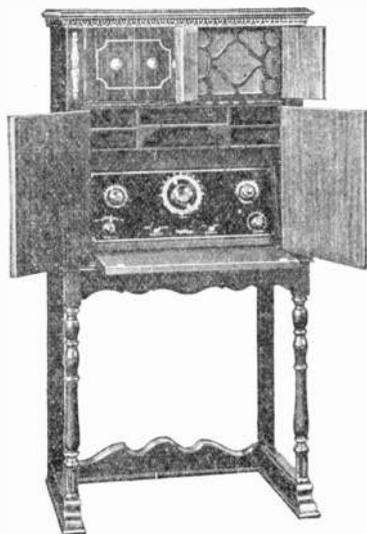
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# MONDAY TIME TABLE

ALL TIME TABLES ADJUSTED TO PACIFIC TIME  
(X) Indicates Station is On the Air

STATIONS			10-12 A.M.	12-2 P.M.	2-4 P.M.	4-6 P.M.	6-8 P.M.	8-10 P.M.	10-12 P.M.																								
CALL	Wave Length Meters	Power In Watts	STATION	10.00-10.30	10.30-11.00	11.00-11.30	11.30-12.00	12.30-1.00	1.00-1.30	1.30-2.00	2.00-2.30	2.30-3.00	3.00-3.30	3.30-4.00	4.00-4.30	4.30-5.00	5.00-5.30	5.30-6.00	6.00-6.30	6.30-7.00	7.00-7.30	7.30-8.00	8.00-8.30	8.30-9.00	9.00-9.30	9.30-10.00	10.00-10.30	10.30-11.00	11.00-11.30	11.30-12.00			
				KFI	467	3000	Los Angeles	X														X	X	X	X	X	X	X	X	X	X	X	X
KHJ	405	500	Los Angeles				X	X																									
KNX	337	500	Los Angeles	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
KTBI	294	750	Los Angeles													X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
KNRC	208	250	Los Angeles	X	X	X	X					X	X																				
KFWB	252	500	Hollywood											X	X																		
KMTR	238	500	Hollywood	X	X				X	X	X						X	X			X	X	X	X	X	X	X	X	X	X	X	X	
KPSN	315	1999	Pasadena														X	X			X	X	X	X	X	X	X	X	X	X	X	X	
KFWO	211	250	Catalina																		X	X	X										
KFON	233	500	Long Beach	X	X										X	X					X	X	X										
KFVD	205	50	San Pedro														X	X							X	X	X	X	X	X	X	X	
KPO	428	1000	San Francisco		X		X	X	X	X	X	X	X								X	X	X	X	X	X	X	X	X	X	X	X	
KJBS	220	5	San Francisco	X	X	X					X	X						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
KFRS	268	50	San Francisco																						X	X	X	X	X	X	X	X	X
KTAB	240	1000	Oakland												X	X	X	X	X						X	X	X	X	X	X	X	X	
KGO	361	3000	Oakland		X	X	X	X	X	X					X	X					X	X	X	X	X	X	X	X	X	X	X	X	
KZM	240	100	Oakland		X	X	X	X	X	X								X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
KLX	508	500	Oakland																		X												
KFUU	220	50	Oakland		X	X	X								X	X	X				X	X	X	X	X	X	X	X	X	X	X	X	
KRE	256	100	Berkeley		X	X	X														X					X	X	X	X	X	X	X	
KMJ	234	50	Fresno		X																X												
KFWH	254	100	Chico																		X	X	X	X	X	X	X	X	X	X	X	X	
KFBK	248	100	Sacramento																X						X	X	X	X	X	X	X	X	
KWG	248	50	Stockton																						X	X	X	X	X	X	X	X	X
KFOA	454	500	Seattle											X	X																		
KJR	384	1000	Seattle					X	X	X											X	X	X	X	X	X	X	X	X	X	X	X	
KTCL	305	1000	Seattle																														
KDZE	270	100	Seattle																														
KWSC	349	500	State Col. of Wash	X							X	X	X																				
KGW	491	500	Portland																														
KFJR	263	5	Portland	X			X	X													X	X	X	X	X	X	X	X	X	X	X	X	
KFEC	248	50	Portland																														
KQP	248	1000	Portland												X	X																	
KFDJ	282	250	Carvallis, Ore.																														
KGU	370	500	Honolulu						X	X					X	X	X																
CFAC	436	2000	Calgary			X																											
CFCA	356	1000	Toronto									X																					
KSL	300	1000	Salt Lake City																														
KOA	322	2000	Denver	X	X																X	X	X	X	X	X	X	X	X	X	X	X	X
KOB	340	1000	State Col., N. M.		X	X																											
KFWA	281	500	Ogden																														
WOAW	526	1000	Omaha												X	X																	
WOC	484	5000	Davenport																														
WOAI	394	2000	San Antonio	X		X									X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
WFAA	476	500	Dallas		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WBAP	476	1000	Fort Worth	X											X	X																	
KTHS	375	750	Hot Springs, Ark.		X																												
WDAF	366	500	Kansas City, Mo.																														
KFKX	288	2000	Hastings																														
KSD	545	750	St. Louis																														
WWJ	353	500	Detroit																														
WTAM	389	2500	Cleveland	X											X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
WGR	319	750	Buffalo			X	X	X	X	X																							
WLW	422	5000	Cincinnati	X	X			X	X	X																							
WKRC	422	1000	Cincinnati																														
KDKA	309	1000	Pittsburgh												X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
WJZ	454	1000	New York			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WGY	379	5000	Schenectady												X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

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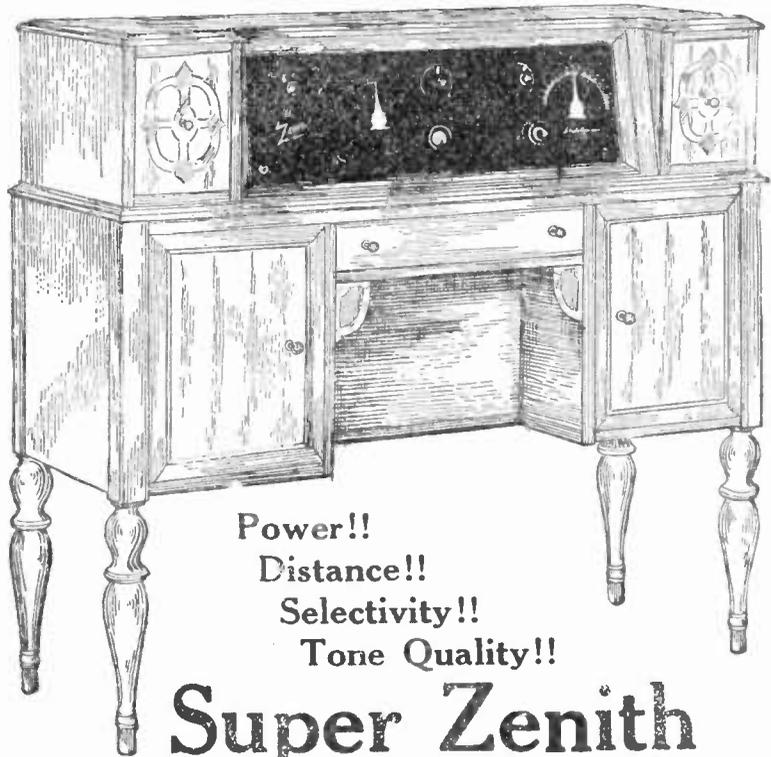
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Watch for Xmas Contest Announcement Next Issue.

# WEDNESDAY TIME TABLE

ALL TIME TABLES ADJUSTED TO PACIFIC TIME (X) Indicates Station to be On the Air

STATIONS	Wave Length Meters	Power in Watts	STATION	CALL
KFI	467	3000	Los Angeles	KFI
KHJ	405	500	Los Angeles	KHJ
KNS	337	500	Los Angeles	KNS
KFSG	275	500	Los Angeles	KFSG
KTBI	294	750	Los Angeles	KTBI
KNRG	208	250	Los Angeles	KNRG
KFWB	252	500	Hollywood	KFWB
KMTR	238	500	Hollywood	KMTR
KPCP	229	50	Pasadena	KPCP
KPSN	315	1000	Pasadena	KPSN
KFWO	211	250	Catalina	KFWO
KFDV	205	50	San Pedro	KFDV
KFON	233	500	Long Beach	KFON
KPO	428	1000	San Francisco	KPO
KFRG	268	50	San Francisco	KFRG
KJBS	220	5	San Francisco	KJBS
KGO	361	3000	Oakland	KGO
KLX	508	500	Oakland	KLX
KZM	240	100	Oakland	KZM
KFUU	220	50	Oakland	KFUU
KFUS	256	50	Oakland	KFUS
KRE	256	100	Berkeley	KRE
KMJ	234	50	Fresno	KMJ
KFWH	254	100	Chico	KFWH
KGW	491	500	Portland	KGW
KFJR	263	5	Portland	KFJR
KFEC	248	50	Portland	KFEC
KFDJ	282	250	Corvallis, Ore.	KFDJ
KTCL	305	1000	Seattle	KTCL
KDZE	270	100	Seattle	KDZE
KFOA	454	500	Seattle	KFOA
KJR	384	1000	Seattle	KJR
KWSC	349	500	Pullman	KWSC
CFAAC	436	2000	Calgary	CFAAC
CFCB	356	1000	Toronto	CFCB
KHTS	376	750	Hot Springs	KHTS
WVAI	394	2000	San Antonio	WVAI
WFAA	476	500	Dallas	WFAA
WBAP	476	1000	Fort Worth	WBAP
WSMB	318	500	New Orleans	WSMB
WOC	484	5000	Davenport	WOC
KOA	322	2000	Denver	KOA
WOAW	528	1000	Omaha	WOAW
KOB	348	1000	State Col., N. M.	KOB
KSL	300	1000	Salt Lake City	KSL
KFWA	261	500	Ogden	KFWA
WDAF	366	500	Kansas City	WDAF
WGN	370	1000	Chicago	WGN
WLS	345	1500	Crete, Ill.	WLS
KYW	535	1500	Chicago	KYW
WJ	423	600	Detroit	WJ
WKRC	422	1000	Cincinnati	WKRC
WLTW	422	1500	Cincinnati	WLTW
WTAM	289	2500	Cleveland	WTAM
WGR	319	250	Buffalo	WGR
KDKA	309	1000	Pittsburgh	KDKA
WJZ	454	1000	New York	WJZ

# A New Gift For Every Radio Listener

**Rauland-Lyric**  
AN  
**ALL-AMERICAN**  
TRADE MARK  
**TRANSFORMER**

*The Choice  
of Noted  
Music Critics*



The price per pair  
is eighteen dollars

What could express the holiday spirit better than a gift of two Rauland-Lyrics? Carrying the essential atmosphere of good taste, such a remembrance will enhance the enjoyment of radio music for years to come.

Rauland-Lyric is a laboratory-grade audio transformer. It can be readily substituted for other audio transformers in any set, thus making possible a tone quality equal to the best obtainable in the newest receivers.

—♦♦♦—  
*Pacific Coast Representative*

**CARL A. STONE CO.**

**LOS ANGELES**

**SAN FRANCISCO**

**SEATTLE**

# THURSDAY TIME TABLE

ALL TIME TABLES ADJUSTED TO PACIFIC TIME

(X) Indicates Station is On the Air

STATIONS				10-12 A.M.	12-2 P.M.	2-4 P.M.	4-6 P.M.	6-8 P.M.	8-10 P.M.	10-12 P.M.																									
CALL	Wave Length Meters	Power in Watts	STATION	10.00-10.30	10.30-11.00	11.00-11.30	11.30-12.00	12.00-12.30	12.30-1.00	1.00-1.30	1.30-2.00	2.00-2.30	2.30-3.00	3.00-3.30	3.30-4.00	4.00-4.30	4.30-5.00	5.00-5.30	5.30-6.00	6.00-6.30	6.30-7.00	7.00-7.30	7.30-8.00	8.00-8.30	8.30-9.00	9.00-9.30	9.30-10.00	10.00-10.30	10.30-11.00	11.00-11.30	11.30-12.00				
KFI	467	3000	Los Angeles																X	X	X	X	X	X	X	X	X	X	X	X	X	X			
KHJ	405	500	Los Angeles					X	X				X	X									X	X	X	X	X	X	X	X	X	X	X		
KNX	337	500	Los Angeles	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
KFSG	275	500	Los Angeles			X	X	X	X						X	X									X	X	X	X	X	X	X	X	X		
KTBI	294	750	Los Angeles																						X	X									
KNRC	208	250	Los Angeles																																
KFWB	252	500	Hollywood																					X	X	X	X	X	X	X	X	X	X		
KMTR	238	500	Hollywood	X								X						X	X	X	X	X		X	X	X	X	X	X	X	X	X	X		
KFQZ	240	50	Hollywood																													X	X	X	
KFWO	211	250	Catalina					X	X														X	X	X	X					X	X	X		
KFON	233	500	Long Beach	X	X							X	X	X	X	X						X		X	X	X									
KFVD	205	50	San Pedro																	X															
KPO	428	1000	San Francisco	X	X		X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
KFR C	268	50	San Francisco																X	X	X				X	X	X	X	X	X	X	X	X		
KJBS	220	5	San Francisco	X	X	X						X														X	X	X	X	X	X	X	X	X	
KTAB	240	1000	Oakland																							X	X	X	X	X	X	X	X	X	
KGO	361	3000	Oakland		X	X	X	X	X						X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
KLX	508	500	Oakland														X	X	X																
KFUS	256	50	Oakland													X	X	X																	
KFUU	220	50	Oakland		X	X	X																												
KZM	240	100	Oakland																					X											
KRE	256	100	Berkeley		X																					X	X	X	X	X	X	X	X	X	
KFBK	245	100	Sacramento																							X	X	X	X	X	X	X	X	X	
KFWH	254	100	Chico															X	X	X	X	X													
KMJ	234	50	Fresno									X	X																						
KFOB	226	50	Burlingame																							X	X	X	X	X	X	X	X	X	
KGW	491	500	Portland		X			X	X														X	X	X	X									
KFJR	263	5	Portland																																
KFEC	248	50	Portland												X	X																			
KQP	248	1000	Portland																																
KTCL	305	1000	Seattle																					X	X										
KFOA	454	500	Seattle					X	X						X	X	X																		
KJ R	384	1000	Seattle					X	X	X	X	X											X				X	X	X	X	X	X	X	X	
CKCD	410	2000	Vancouver, B. C.																																
CFAC	436	2000	Calgary				X																												
CFCA	356	1000	Toronto										X	X																					
KGU	370	500	Honolulu					X	X						X	X	X														X	X	X	X	
WOAI	394	2000	San Antonio																							X	X								
WFAA	476	500	Dallas		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
WBAP	476	1000	Fort Worth	X	X	X			X															X		X	X	X	X	X	X	X	X	X	
WSMB	319	500	New Orleans																								X	X	X	X	X	X	X	X	X
KTHS	375	750	Hot Springs, Ark.		X																						X	X	X	X	X	X	X	X	X
KOA	322	2000	Denver		X	X						X	X	X				X	X	X	X														
KOB	348	1000	State Col., N. M.		X	X	X																												
KSL	300	1000	Salt Lake City																						X	X	X	X							
KFWA	261	500	Ogden, Utah																																
WOAW	526	1000	Omaha														X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
WDAF	366	500	Kansas City									X					X	X														X	X	X	
WOC	484	5000	Davenport	X			X						X				X																		
WLS	345	1500	Crete, Ill.	X	X			X	X	X																X	X	X	X	X	X	X	X	X	
KYW	535	1500	Chicago																																
WGN	370	1000	Chicago																																
WLW	422	5000	Cincinnati	X	X	X	X			X	X																								
WKRC	422	1000	Cincinnati																																
WTA M	389	2500	Cleveland	X									X	X																					
KDKA	309	1000	Pittsburgh												X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
WJZ	454	1000	New York				X	X	X	X	X																								
WGY	379	5000	Schenectady												X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	

# Pathex

## MOTION PICTURE Camera and Projector

Now you can make motion pictures as easily and at no greater cost than taking snapshots. The Pathex camera and projector are simple, compact, easy to carry, easy to operate. The cost of the film is small and includes developing and return to purchaser all ready to show.

Pathex makes an ideal Christmas gift, and is a splendid proposition for radio and music dealers, as it is greatly in demand by vacationists during the summer months.

**Price Complete \$99.50**

For sale at principal department stores, radio and music dealers in California, Oregon and Washington.

*For dealer's franchise, apply to*

**MUNSON-RAYNER**  
Corporation

*Distributors for the Pacific Coast:*

643 S. Olive St.  
LOS ANGELES

86 Third Street  
SAN FRANCISCO

63 Sixth St.  
PORTLAND

45-a

# FRIDAY TIME TABLE

ALL TIME TABLES ADJUSTED TO PACIFIC TIME (X) Indicates Station is On the Air

STATIONS	CALL		STATION
	Wave Length Meters	Power in Watts	
K F I	467	2000	Los Angeles
K H J	405	500	Los Angeles
K N X	337	500	Los Angeles
K F G	275	500	Los Angeles
K T B I	294	750	Los Angeles
K N R C	208	250	Los Angeles
K F W B	262	500	Hollywood
K M T R	238	250	Hollywood
K F Q Z	240	250	Hollywood
K F S N	315	1000	Pasadena
K F W O	211	250	Catalina
K F O N	233	500	Long Beach
K F V D	205	50	San Pedro
K P O	428	1000	San Francisco
K J B S	220	5	San Francisco
K F R C	268	50	San Francisco
K T A B	240	1000	Oakland
K G O	361	3000	Oakland
W L X	508	500	Oakland
K F U S	266	50	Oakland
K F U	220	50	Oakland
K Z M	240	100	Oakland
K R E	256	100	Berkeley
K M J	234	50	Fresno
K F O B	226	50	Burlingame
K F W H	254	100	Chico
K G W	491	500	Portland
K F E C	248	50	Portland
K F D J	282	250	Cornwallis, Ore.
K J R	348	1000	Seattle
K T C L	305	1000	Seattle
K F O A	454	500	Seattle
K F O X	233	1000	Seattle
K W S C	349	500	Pullman
C N R V	281	1000	Vancouver, B. C.
C K C D	410	2000	Vancouver
C F A C	436	2000	Calgary
C F C N	440	3000	Calgary
C F C A	356	1000	Toronto
K G U	370	500	Honolulu
K G V A	476	500	Dallas
W B A P	327	1000	Fort Worth
W O A P	422	2000	Denver
K O B	348	1000	State Col., N. M.
K F W A	261	500	Ogden
K S L	300	1000	Salt Lake City
K T H S	375	750	Hot Springs
W O A W	526	1000	Omaha
W O C	484	5000	Davenport
K F K X	288	2000	Hastings, Neb.
K Y W N	535	1500	Chicago
W G M	370	1000	Chicago
W T A M	388	2500	Cleveland
W G R	319	750	Buffalo
K D K A	309	1000	Pittsburgh
W G Y	379	5000	Schenectady
W J Z	454	1000	New York
10.00-10.30	X		
10.30-11.00	X		
11.00-11.30	X		
12.00-12.30	X		
12.30-1.00	X		
1.00-1.30	X		
1.30-2.00	X		
2.00-2.30	X		
2.30-3.00	X		
3.00-3.30	X		
3.30-4.00	X		
4.00-4.30	X		
4.30-5.00	X		
5.00-5.30	X		
5.30-6.00	X		
6.00-6.30	X		
6.30-7.00	X		
7.00-7.30	X		
7.30-8.00	X		
8.00-8.30	X		
8.30-9.00	X		
9.00-9.30	X		
9.30-10.00	X		
10.00-10.30	X		
10.30-11.00	X		
11.00-11.30	X		
11.30-12.00	X		

“Is there a  
more exacting  
test than this?”



The Howard Neutrodyne is built and tested in the midst of a group of the most powerful broadcasting stations in the country.

KYW, WGN, WMAQ, WLS, WQJ, WEBB, and others are all so close to the Howard plant that it is a real achievement to tune in clearly any one of these stations while the others are operating. To break through such a formidable wall of high powered stations and pick up distant points with utmost clarity and volume is a real test.

A severe test indeed. But we actually welcome an opportunity to prove Howard qualities under similar unfavorable circumstances. We know that Howard owners will seldom if ever have to contend with conditions anywhere near so exacting.

If we were content with the ordinary tests it would take much less time, less care to produce a Howard. Our product would go out faster, and probably give "satisfaction"—as the term is generally understood.

But the Howard "Six" must do more than give average satisfaction. It must produce extraordinary results—performance that is beyond anything previously experienced. We make certain of this by proving that each set is capable of such results before it leaves our plant.

Any Howard dealer will welcome the opportunity to demonstrate the new "Six" and put it to the most vigorous test you may choose.

*[Write for name of nearest Howard dealer, who will  
gladly demonstrate the new "Six" at your convenience]*

## Howard Radio

Distributors for Southern California  
Union Hardware & Metal Co.  
411 E. First St. Phone MA 6140  
LOS ANGELES

Distributors for Northern California  
Frederick H. Thompson, Inc.  
131 Mission St. Phone Hemlock 5832  
SAN FRANCISCO

# SATURDAY TIME TABLE

ALL TIME TABLES ADJUSTED TO PACIFIC TIME  
(X) Indicates Station is On the Air

STATIONS				10-12 A.M.	12-2 P.M.	2-4 P.M.	4-6 P.M.	6-8 P.M.	8-10 P.M.	10-12 P.M.																							
CALL	Wave Length Meters	Power in Watts	STATION	10 00-10 30	10 30-11 00	11 00-11 30	11 30-12 00	12 00-12 30	12 30-1 00	1 00-1 30	1 30-2 00	2 00-2 30	2 30-3 00	3 00-3 30	3 30-4 00	4 00-4 30	4 30-5 00	5 00-5 30	5 30-6 00	6 00-6 30	6 30-7 00	7 00-7 30	7 30-8 00	8 00-8 30	8 30-9 00	9 00-9 30	9 30-10 00	10 00-10 30	10 30-11 00	11 00-11 30	11 30-12 00		
KFI	467	2000	Los Angeles																X	X	X	X	X	X	X	X	X	X	X	X	X		
KHJ	405	500	Los Angeles																														
KNX	337	500	Los Angeles	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
KFSG	275	500	Los Angeles		X	X	X	X							X	X						X	X	X	X								
KNRC	208	250	Los Angeles	X	X	X	X																										
KFWB	252	500	Hollywood										X	X												X	X	X	X	X	X		
KMTR	238	500	Hollywood	X						X	X	X														X	X	X					
KFWO	211	250	Catalina					X	X												X	X	X										
KFON	233	500	Long Beach	X	X								X	X	X	X	X			X		X	X	X	X	X	X	X	X	X	X		
KFVD	205	50	San Pedro																X						X	X	X	X	X	X	X		
KPO	428	1000	San Francisco		X			X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	X	X	X	
KLS	360	250	San Francisco										X	X	X								X										
KFRC	268	50	San Francisco				X								X	X																	
KJBS	220	5	San Francisco	X	X	X							X							X	X	X	X	X	X	X	X	X	X	X	X	X	
KFUS	256	50	Oakland																	X	X												
KFUU	220	50	Oakland		X	X	X																	X	X	X	X	X	X	X	X	X	
KGO	361	3000	Oakland			X	X	X							X	X	X								X	X	X	X	X	X	X	X	
KZM	240	100	Oakland																				X										
KLX	508	500	Oakland										X										X										
KRE	256	100	Berkeley			X																X			X	X	X	X	X	X	X	X	
KFBK	248	100	Sacramento																					X	X	X	X	X	X	X	X	X	
KFWH	254	100	Chico																			X											
KMJ	234	50	Fresno									X	X																				
KGW	491	500	Portland		X				X	X											X	X					X	X	X	X	X	X	
KFJR	263	5	Portland								X	X																					
KFEC	246	50	Portland									X	X																				
KFOA	454	500	Seattle											X	X	X					X	X	X	X	X	X	X	X	X	X	X	X	
KTCL	305	1000	Seattle																				X	X	X	X	X	X	X	X	X	X	
KGU	370	500	Honolulu																														
CFAC	436	2000	Calgary		X	X																											
CFCN	440	3000	Calgary																														
CKCD	410	2000	Vancouver, B. C.																							X	X						
CFCA	356	1000	Toronto										X																				
WFAA	476	500	Dallas		X	X	X	X							X	X	X			X	X	X				X	X						
WBAP	476	1000	Fort Worth	X	X	X	X																										
WOAI	394	1500	San Antonio																				X	X									
WOC	484	5000	Davenport	X			X			X											X		X	X									
WSMB	319	500	New Orleans																					X	X	X	X						
KTHS	375	750	Hot Springs		X																		X	X	X	X	X						
KOA	322	2000	Denver		X	X	X																X			X							
KOB	348	1000	State Col., N. M.		X	X	X																			X	X	X	X	X	X	X	X
KLZ	283	250	Denver			X	X							X										X		X	X	X	X	X	X	X	X
KSL	300	1000	Salt Lake City																					X	X	X	X	X	X	X	X	X	X
KFWA	261	500	Ogden, Utah												X	X																	
WOAW	526	1000	Omaha												X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
WDAF	366	500	Kansas City							X					X	X													X	X	X	X	X
KSD	545	750	St. Louis																				X	X									
WTAM	389	2500	Cleveland	X									X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
WKRC	422	1000	Cincinnati																														
WLW	422	5000	Cincinnati			X																	X	X	X	X							
KYW	535	1500	Chicago																				X	X	X	X	X	X	X	X	X	X	X
WGN	370	1000	Chicago																				X	X	X	X	X	X	X	X	X	X	X
KDKA	309	1000	Pittsburgh												X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WGY	379	5000	Schenectady																				X	X	X	X	X	X	X	X	X	X	X
WJZ	454	1000	New York				X	X	X	X					X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X



FADA QUEEN ANNE DESK SF30-70. \$300.00



FADA CONSOLE SF40-70 . \$275.00

# FADA Radio

## Look for Your Nearest Dealer

- BRAWLEY.....A. G. Little
- CAMARILLO.....H. S. Perry
- CORONA.....Corona Hardware Co.
- EL CENTRO.....Ivey & Maitland
- FULLERTON.....Etuelke's Music & Radio, 1121 1/2 N. Spadara
- FILLMORE.....Johnston Electric Shop
- GLENDALE.....Smith Electric Co., 631 E. Broadway
- GLENDORA.....Glendora Electric Co.
- GARDENA.....Gardner Music Co.
- HUNTINGTON PK.....Elliott & Yoeman, 227 S. Pacific Blvd.
- HERMOSA BEACH.....Muller's Dept. Store, 137 Camino Real
- INGLEWOOD.....Reliable Radio Sales & Service, 114 N. Market St.
- LONG BEACH.....McCreary Music Shop, 216 Pine Av.
- LA JOYLLA.....G. G. Williams Electric Shop, 1025 Prospect Ave.
- LOS ANGELES.....Crown Electric Co., 5161 S. Vermont International Music Co., 229 W. Third R. F. Bowers, 2415 W. Washington

- LOS ANGELES— Collisson Electric Co., 3129 S. Western Continued..... Davis Radio, 2722 S. Main St. Vermont Center Radio Shop, 6219 S. Vermont Hillview Radio & Electric, 7964 Santa Monica Blvd. Carl Lagerfelt, 1831 S. Vermont C. Sumida, 325 E. First St. Phonograph Repair Shop, 1826 E. First Eturgis Music Co., 4713 Moneta L. F. Kipp, 1749 E. Florence Ave. H. H. Walker, 1323 Venice Blvd. Franklin Elect. Co., 6073 Santa Monica Blvd. Leon C. Westbrook, 5903 Pasadena Ave.
- MONROVIA.....Jackson Electric Co.
- MANHATTAN.....Muller's Dept. Store
- MONTEBELLO.....White Auto Electric Co.
- NATIONAL CITY.....Homeland Bldg. Co.
- ORANGE.....J. C. Horton Furniture Co.
- OCEAN PARK.....Ocean Park Radio & Electric Co., 122 Marine St.
- OWENSMOUTH.....House Bros.
- OXNARD.....Newcomb Radio Co.
- ONTARIO.....Ford Music Co., 315 N. Euclid Ave.
- PASADENA.....F. C. Nash Co., 141 E. Colorado Earl Sanders, 100 N. Fair Oaks Coops & Sons, 16 N. Raymond

- POMONA.....Reeves Radio Co., 250 W. Third St.
- PALMDALE.....Fred A. Alley
- REDLANDS.....The Radio Shop, 11 W. State St.
- REDONDO BEACH.....Pacific Auto Supply
- SAN DIEGO.....Southern Electrical Co. (2 stores), 3rd & E Sts., also 7th & Bdwy.
- SAN PEDRO.....San Pedro Furniture Co.
- SANTA MONICA...Remington & Rhodes, 408 Broadway
- SAN BERNARDINO.....Prest Electric Co., 486 Fourth St.
- SAN GABRIEL.....Murphy & Hendrick, 243 S. San Gabriel Blvd.
- SAWTELLE.....G. W. Burzell, 11323 Santa Monica Blvd.
- SANTA ANA.....J. C. Horton Furniture Co., Main at Fifth
- TORRANCE.....Gardner Music Co.
- TEMECULA.....Alfred Knott
- UPLAND.....Colburn Electric Co., 220 Second Ave.
- VENTURA.....Dan Davies Electric Co.
- WHITTIER.....Smith Bros. Music Co.



FADA BEETHOVEN GRANDE SF20-70 \$250.00



FADA DAVENPORT TABLES SF10-70 .....\$225.00

## THE ELECTRIC CORPORATION

Exclusive Distributors for Southern California

1050 Santee St. LOS ANGELES TRinity 5811



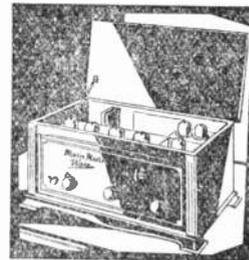
# Sonora

RADIOS  
LOUDSPEAKER  
PHONOGRAPHS  
LOUDSPEAKER TABLE

NEW models ready in radio and phonograph period styles reveal excellences before untouched — tone of superb quality — cabinets of striking beauty! *Ready now.*

# Music Master

RADIOS  
AND LOUDSPEAKER



AGAIN — perfect performance and new beauties in the latest Music Master models! There's a wide range of styles and also of prices.

*[ Some territory is open for Dealers  
both for Sonora and Music Master ]*

## COMMERCIAL ASSOCIATES

Distributors for Southern California  
531 Mateo Street . Los Angeles  
Telephone BRoadway 3585



# For EVERY Radio Set

A stunning piece of furniture that restores order in the room where you have your Radio! No more cluttered table-tops, nor litter of equipment under-foot.

No unsightly horn in evidence, either! This console has its own loudspeaker, in-built. It's out of sight, but with very apparent tonal superiorities. For it has the highest-developed type of unit. With horn built of special non-vibrating, extra-hard, ceramic material. Produces clear non-vibrant tone. There's ample room for everything; space for *largest* A and B wet batteries—or battery eliminator—required for any home set; and for a big charging outfit, too.



**Non-Vibrant Ceramic Horn**  
The clearest tone producer on the market. Made of special composition which defeats vibration.



Rear View—Set Hooked Up  
Price \$42.50

Finished in mahogany, or walnut color. Dainty design of parqueterie on two front panels. Top, 38 in. x 18 in. Substantially built; the product of a 40-year-old furniture maker.

The price, \$42.50, is for the *complete* console, and includes the loudspeaker horn and unit. Thousands of dealers are showing this artistic addition to home radio equipment.

Write, phone or come in for a demonstration. Phone VAndike 4755.

## THE WINDSOR FURNITURE COMPANY

Inc., Chicago, 1885  
917 Maple Avenue  
LOS ANGELES . . . CALIF.

# K F I—Radio Central Super-Station—467 Meters

## Earle C. Anthony, Inc.

640 KILOCYCLES—3000 WATTS  
1000 SOUTH HOPE ST., LOS ANGELES, CALIFORNIA. Phone TR. 5141  
Class "B" 5000-Watt Western Electric Station Operating on 3000 Watts  
GLEN RICE, Program Manager

### DAILY EXCEPT SUNDAY—

- 5:30 to 6:00 p. m.—L. A. Examiner matinee program.  
6:00 p. m.—KFI Nightly Doings and Amusement Information Service.  
6:45 p. m.—KFI Radiatorial Period.

### WEEK COMMENCING SUNDAY, NOVEMBER 29, 1925

#### SUNDAY, NOVEMBER 29—

- 10:00 a. m.—Morning services under the direction of the Los Angeles Church Federation.  
4:00 p. m.—Vesper services, arranged by Gae Imlah.  
6:30 p. m.—KFI Nightly Doings and Amusement Information Service.  
6:45 p. m.—Father Ricard's Sun Spot Weather Forecast. Music Appreciation Chat.  
7:00 p. m.—Aeolian Organ Recital, Dan L. MacFarland at the console.  
\*8:00 p. m.—Classic Hour, featuring Virginia Flohri, coloratura soprano, with assisting artists.  
9:00 p. m.—Program presented by L. A. Examiner.  
10:00 p. m.—Packard Six Orchestra, under the codirection of Bill Hennessy and Chet Mitendorf. Dick Barton, soloist.

#### MONDAY, NOVEMBER 30—

- 7:00 p. m.—The Hollywood Serenaders, Jack McGuire, Manager.  
8:00 p. m.—Artists Students Club of Pasadena, under the direction of Dr. Leonard Siever.  
\*9:00 p. m.—Program of the Walter M. Murphy Motors Company, featuring Virginia Flohri, soprano, and the Pryor Moore Concert Orchestra.  
10:00 p. m.—Program presented by L. A. Examiner.

#### TUESDAY, DECEMBER 1—

- 7:00 p. m.—The Odeon Trio with clarinet, bassoon and piano, with Drury Lennington, tenor, as soloist.  
8:00 p. m.—Program presented by L. A. Examiner.  
9:00 p. m.—Program arranged by Hans Thorston and assisting artists.  
\*10:00 p. m.—Packard Ballad Hour, featuring The Ashley Sister, Billy Hall, Bobbie Gross, Polly Grant Hall, Charles Cole, Dick Barton, McLaughlin and Barabee, Marion Boogar and others.

#### WEDNESDAY, DECEMBER 2—

- 7:00 p. m.—Nick Harris: Detective Stories. Wednesday Night variety program with KFI favorites.  
7:20 p. m.—Program arranged by E. C. Bishop.  
\*8:00 p. m.—Weekly program of the Ventura Refining Company, presenting the Ventura String Quartet and other radio favorites.  
9:00 p. m.—Program presented by L. A. Examiner.  
10:00 p. m.—Betty Patrick and Patrick-Marsh Orchestra.

#### THURSDAY, DECEMBER 3—

- 7:00 p. m.—Program by students, University of Southern California.  
8:00 p. m.—Rexall Stores of Southern California and Arizona.  
\*9:00 p. m.—Program presented by the Southern California Music Company, from Chickering Hall, Los Angeles.  
10:00 p. m.—Program presented by L. A. Examiner.

#### FRIDAY, DECEMBER 4—

- 7:00 p. m.—Program presented by L. A. Examiner.  
8:00 p. m.—Aeolian Organ. Dan L. McFarland at the console.  
9:00 p. m.—Variety program featuring Lee Bolin, tenor; Emma Kimmel, soprano, William MacDaugall, Scotch comedian.  
\*9:30 p. m.—Program of Mutual Motors, Inc., featuring music and "Joke Contest."  
10:00 p. m.—Program presented by John Smallman and pupils.

#### SATURDAY, DECEMBER 5—

- 7:00 p. m.—Program presented by the Pasadena Athletic and Country Club Quintet.  
8:00 p. m.—Program presented by L. A. Examiner.  
9:00 p. m.—The Oscar Seiling Ensemble.  
10:00 p. m.—Packard Radio Club, featuring the Carlson Sisters, Dick Barton, Charles Cole, Polly Grant Hall, Bobbie Gross, Marion Boogar, Billy Hall and Howard Stevensen.  
\*11:00 p. m.—KFI Midnite Frolic: Don Meaney presenting artists of screen and stage. William Beaudine, master of ceremonies. Program until 3 a. m.

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# K H J—Los Angeles Times—405.2 Meters

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 JOHN S. DAGGETT, Announcer and Manager. E. K. BARNES, Asst. Announcer and Manager.  
 Phone MET. 7000

## WEEK COMMENCING SUNDAY, NOVEMBER 29, 1925

### DAILY EXCEPT SUNDAY—

- 7:00 to 7:15 a. m.—"Setting-up Exercises" conducted by Prof. Barclay L. Severns.
- 12:00 to 12:30 p. m.—Leighton's Arcade Cafeteria Orchestra, directed by Jack Cronshaw.
- 6:00 to 6:30 p. m.—Leighton's Arcade Cafeteria Orchestra.

### SUNDAY, NOVEMBER 29—

- 10:00 a. m.—Sermon from KHJ studio by Miss Annette Foster.
- 10:30 a. m. to 12:30 p. m.—Organ recital and entire religious service from the First Methodist Episcopal Church. Arthur Blakeley, organist, and Rev. Elmer E. Helms, pastor.
- 4:00 to 5:00 p. m.—Afternoon musicale through the courtesy of the Western Auto Supply Co.
- 6:30 to 7:00 p. m.—Leighton's Arcade Cafeteria Orchestra; Jack Cronshaw, director.
- 7:00 to 7:30 p. m.—Organ recital from the First Methodist Episcopal Church.
- 8:00 to 10:30 p. m.—Program sponsored by Silverwood's, "The Home of Hart, Schaffner & Marx Clothes."

### MONDAY, NOVEMBER 30—

- 12:00 to 12:30 p. m.—Leighton's Arcade Cafeteria Orchestra, directed by Jack Cronshaw.
- 12:30 to 1:30 p. m.—Program presenting the Piggly Wiggly Stores.

### TUESDAY, DECEMBER 1—

- 12:00 to 12:30 p. m.—Leighton's Arcade Cafeteria Orchestra; Jack Cronshaw, director.
- 12:30 to 1:30 p. m.—Program of dance music.
- 2:30 to 3:30 p. m.—Matinee program sponsored by the Pacific States Electric Co.
- 3:30 p. m.—Weekly auction bridge game.
- 6:30 to 7:30 p. m.—Children's program presenting Prof. Walter Sylvester Hertzog, Radio Historian; weekly visit of the Radio Fairies, Queen Titania and her Sandman; Louis F. Klein, harmonica and autoharp; Charles Leslie Hill, 4-year-old reader, and Lenore Kilian, contralto.
- 7:30 p. m.—H. M. Robertson will talk on "Dogs."
- 7:45 p. m.—O. G. Pirie, associate editor of the Radio Blue Book Magazine, will talk on "Cruise of the Radio Ship Wireless."
- 8:00 to 10:00 p. m.—Program sponsored by the Frank Meline Company (Trees).
- 10:00 to 11:00 p. m.—Art Hickman and his Biltmore Dance Orchestra.

### WEDNESDAY, DECEMBER 2—

- 12:00 to 12:30 p. m.—Leighton's Arcade Cafeteria Orchestra; Jack Cronshaw, director.
- 12:30 to 1:30 p. m.—Program presenting Le Roy Parry and his Elite Orchestra.
- 1:30 p. m.—Fred C. McNab of Aggeler & Musser Seed Co. will give his weekly "Garden Talk."
- 2:30 to 3:30 p. m.—Matinee program through the courtesy of the Pacific States Electric Company.
- 6:30 to 7:30 p. m.—Children's program presenting Prof. Walter Sylvester Hertzog, Radio Historian; Dick Winslow, screen juvenile reporter; Mickey McBan, screen juvenile; Carl Eastwood, 11 years, and Harold Marshall, 12 years, saxophonists, pupils of the Thompson Progressive School for Saxophone, and Vivian Marple, "Blue Bell of KHJ."
- 8:00 p. m.—Dr. Mars Baumgardt will lecture on "Astronomy."
- 8:30 to 10:30 p. m.—Program sponsored by the Peerless Laundry Co.
- 10:30 to 11:30 p. m.—Art Hickman and his Biltmore Dance Orchestra.

### THURSDAY, DECEMBER 3—

- 12:00 to 12:30 p. m.—Leighton's Arcade Cafeteria Orchestra; Jack Cronshaw, director.
- 12:30 to 1:30 p. m.—Broadcasting the Optimist Club luncheon
- 2:30 to 3:30 p. m.—Matinee program sponsored by the Pacific States Electric Co.
- 6:30 to 7:30 p. m.—Children's program presenting Prof. Walter Sylvester Hertzog, Radio Historian; Dickie Brandon, screen juvenile; Joyce Coad, "Little Red Riding Hood."
- 7:45 p. m.—Dr. Philip M. Lovell will give a "Care of the Body Talk."
- 8:00 to 10:00 p. m.—Program sponsored by the Pacific Electric Railway Co.
- 10:00 to 11:00 p. m.—Art Hickman and his Biltmore Dance Orchestra.

### FRIDAY, DECEMBER 4—

- 12:00 to 12:30 p. m.—Leighton's Arcade Cafeteria Orchestra, directed by Jack Cronshaw.
- 12:30 to 1:30 p. m.—Rod Loring's Oaks Tavern Orchestra and Betty Abbott, girl baritone.
- 2:30 to 3:30 p. m.—Matinee program sponsored by the Pacific States Electric Co.
- 6:30 to 7:30 p. m.—Children's program presenting Prof. Walter Sylvester Hertzog, Radio Historian; Richard Headrick, screen juvenile; Bettinae Pfefferkorn, 7-year-old singer, and Karl Brigandi, cornet.
- 7:30 p. m.—Gladys DeWitt will talk on "Romance of the Santa Fe Trail."
- 8:00 to 10:00 p. m.—Program sponsored by the Western Auto Supply Co.
- 10:00 to 11:00 p. m.—Art Hickman and his Biltmore Dance Orchestra.

### SATURDAY, DECEMBER 5—

- 12:00 to 12:30 p. m.—Leighton's Arcade Cafeteria Orchestra, directed by Jack Cronshaw.
- 12:30 to 1:30 p. m.—Program of dance music by the Egyptian Ballroom Orchestra
- 2:30 to 3:30 p. m.—Matinee program sponsored by the Pacific States Electric Co.
- 6:30 to 7:30 p. m.—Children's program presenting Prof. Walter Sylvester Hertzog, Radio Historian; Dollie Wright, "Dolly of Radioland," and Henrietta Poland.
- 8:00 to 10:00 p. m.—Program through the courtesy of the White Auto Co., distributors of Auburn cars.
- 10:00 to 11:00 p. m.—Art Hickman and his Biltmore Dance Orchestra.
- 11:30 p. m. to 2:00 a. m.—The Times Tomcats will "Meow" from KHJ.



## Why Stewart-Warner Radio?

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 NAYLOR ROGERS, Manager CARRIE P. RITTMEISTER, Program Manager

## DAILY EXCEPT SUNDAY—

- 7:30 a. m.—K N X Morning Gym, directed by J. C. Casey, physiotherapist.
- 8:00 a. m.—Inspirational talk and morning prayer.
- 9:00 a. m.—Time signals from Washington, D. C., followed by birthday notices.
- 10:00 a. m.—Town Crier of the Day's morning message.
- 10:30 a. m.—Kate Brew Vaughn, director Household Economics, Evening Express.
- 12:00 noon to 1:00 p. m.—Wurlitzer organ recital from Wurlitzer Studio (except Sunday and Monday).
- 1:30 p. m.—The Book Worm.
- 2:00 to 5:00 p. m.—Radio matinee. Market reports.
- 5:30 to 6:15 p. m.—Wurlitzer organ concert, Wurlitzer Studio.
- 5:55 p. m.—The Town Tattler.
- 6:15 p. m.—W. F. Alder, travelogue.
- 6:30 to 7:00 p. m.—Atwater-Kent Orchestra, Ray Thomas, Inc., successors to Electric Equipment Co., distributors of Atwater-Kent radio receiving sets.

## WEEK COMMENCING SUNDAY, NOVEMBER 29, 1925

### SUNDAY, NOVEMBER 29—

- 10:00 a. m. to 12:00 noon—First Presbyterian Church of Hollywood,
- 2:00 to 4:00 p. m.—City Park Board musical program.
- 7:00 to 8:00 p. m.—First Presbyterian Church of Hollywood, Rev. Stewart P. MacLennan.
- 8:00 to 9:00 p. m.—Ambassador Concert Orchestra, Josef Rosenfeld leader.
- 9:00 to 10:30 p. m.—Reeve-Gartzmann, Inc., courtesy program.

### MONDAY, NOVEMBER 30—

- 12:00 to 1:00 p. m.—West Coast Theatres from West Coast Studio.
- 2:00 to 3:00 p. m.—Ward Heater Co. courtesy program.
- 4:00 p. m.—Helen's Household Hints.
- 7:00 to 7:30 p. m.—Mutual Motors Inc. mirth contest. Town Crier of the Night Watch.
- 7:30 to 8:00 p. m.—Columbia Outfitting Co. courtesy program.
- 8:00 to 9:00 p. m.—L. W. Stockwell Co. courtesy program.
- 9:00 to 10:00 p. m.—Listenwaller & Gough courtesy program.
- 10:00 to 11:00 p. m.—B. F. Goodrich Rubber Co. of Akron, Ohio, courtesy program. Goodrich Silvertown Cord Orchestra; Lilyan May Challenger.
- 11:00 to 12:00 p. m.—Hotel Ambassador—Ray West's Coconut Grove Orchestra.

### TUESDAY, DECEMBER 1—

- 2:00 to 3:00 p. m.—Mother's Hour
- 7:00 to 7:45 p. m.—Roy L. Donley Co., manufacturers of Meritas Fabric Coupe Bodies, courtesy program.
- 7:45 p. m.—Talk on health by Dr. Robert T. Williams.
- 8:00 to 9:00 p. m.—Zinke's Re-Bottoming Shoe Co. program. Town Crier of the Day.
- 9:00 to 9:30 p. m.—Cavalier Shoe Stores courtesy program.
- 10:00 to 12:00 p. m.—(Movie Night) Ambassador Hotel; Ray West's Coconut Grove Orchestra and Town Crier of the Night Watch.

### WEDNESDAY, DECEMBER 2—

- 8:45 a. m.—Wesley Beans, baritone.
- 4:00 to 5:00 p. m.—Talk on care of children by Dr. Wayne B. Burr.
- 7:00 to 8:00 p. m.—Hotel Ambassador Concert Orchestra; Joseph Rosenfeld, leader.
- 8:00 to 9:00 p. m.—Security Trust & Savings Bank courtesy program.
- 9:00 to 10:00 p. m.—W. W. Rainey Organization courtesy program.
- 10:00 to 11:00 p. m.—Dance Orchestra.

### THURSDAY, DECEMBER 3—

- 11:00 a. m.—Nature talk, courtesy Marvel Ant Gelatine Co.
- 7:00 to 8:00 p. m.—H. L. Crockett Co., Hudson-Essex Dealer; Town Crier of the Night.
- 8:00 to 9:00 p. m.—Willys-Overland Dealers of Southern California courtesy program.
- 9:00 to 10:00 p. m.—M. Weinstein courtesy program.
- 10:00 to 11:00 p. m.—Hotel Ambassador, Ray West's Coconut Grove Orchestra.

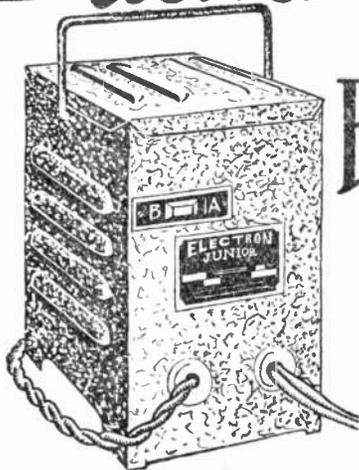
### FRIDAY, DECEMBER 4—

- 1:00 p. m.—The Village Gossip.
- 2:00 to 3:00 p. m.—L. A. District Federation & Women's Clubs musical program.
- 7:00 to 7:30 p. m.—El Patio Ballroom Orchestra.
- 7:30 p. m.—Eastern Outfitting Co. courtesy program; Town Crier of the Night Watch.
- 8:00 to 9:00 p. m.—West Coast Theatres from West Coast Studio.
- 9:00 to 10:00 p. m.—Davis Perfection Bread Co. courtesy program.
- 10:00 to 11:00 p. m.—Walter G. Scheck Inc. courtesy program.
- 11:00 to 12:00 p. m.—Hotel Ambassador; Ray West's Coconut Grove Orchestra.

### SATURDAY, DECEMBER 5—

- 8:15 a. m.—Pacific Electric Art and his banjo.
- 10:30 a. m.—French lesson by Floryane of KNX.
- 2:00 p. m.—Broadcasting the football game; U. S. C. vs. Oregon Aggies.
- 7:00 p. m.—Stories of insect life by Harry W. McSpadden.
- 7:15 p. m.—Announcement of Sunday services by the leading L. A. Churches.
- 7:30 to 8:00 p. m.—Wurlitzer organ concert from the leading L. A. Churches.
- 8:00 to 10:00 p. m.—Commercial Construction Co. program; Town Crier of the Day Watch.
- 10:00 to 11:00 p. m.—Hotel Ambassador, Ray West's Coconut Grove Orchestra.
- 11:00 p. m. to 2:00 a. m.—Hollywood Night.

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WEEK COMMENCING SUNDAY, NOVEMBER 29, 1925

## SUNDAY, NOVEMBER 29—

9:00 to 11:00 p. m.—George Cronk's California Serenaders; the California Blue Boys—Chas. Hamp and Earl Reynolds; Wilda Bernard, soprano; Tom Breneman, baritone; Jack Kurtz, pianist and whistler; Albert Keglovich, violin; Charlie Cole, popular songs; Jeanette Rubens, guest accompanist. Several of Warner Bros. Stars always drop in the studio on Sunday evenings and participate in the entertainment.

## MONDAY, NOVEMBER 30—

5:00 to 6:00 p. m.—Children's Hour, conducted by Big Brother of KFVB.  
 7:00 to 8:00 p. m.—Microphone Brevities.  
 8:00 to 9:00 p. m.—Program presented by courtesy of the Globe Ice Cream Company and the Weber Baking Company.  
 9:00 to 10:00 p. m.—Program presented by courtesy of the Star Motor Car Company, featuring the Million Dollar Four Orchestra; Estelle Shake, Blue singer; Tom Breneman, baritone; Ray Kellogg and Bill Hatch, violin and piano (popular numbers).  
 10:00 to 11:00 p. m.—Warner Bros.' Frolic.  
 11:00 to 12:00 p. m.—Henry Halstead's Orchestra broadcasting from the Hollywood Roof Ballroom.

## TUESDAY, DECEMBER 1—

5:00 to 6:00 p. m.—Children's Hour, conducted by Big Brother of KFVB.  
 7:00 to 7:15 p. m.—Dr. W. I. Schuster, weekly health talk.  
 7:15 to 7:30 p. m.—Microphone Brevities.  
 7:30 to 8:00 p. m.—Program presented by courtesy of Elmer R. Sly Co.  
 8:00 to 10:00 p. m.—Program presented by courtesy of H. L. Crockett.  
 8:00 to 9:00 p. m.—Program presented by courtesy of the Paralta Photographic Studios, featuring the Paralta String Trio, violin, 'cello and organ; Drove Norton Lindsay, tenor.  
 10:00 to 11:00 p. m.—Warner Bros.' Frolic.  
 11:00 to 12:00 p. m.—Henry Halstead's Orchestra broadcasting from the Hollywood Roof Ballroom.

## WEDNESDAY, DECEMBER 2—

5:00 to 6:00 p. m.—Children's Hour, conducted by Big Brother of KFVB.  
 7:00 to 7:30 p. m.—Program presented by courtesy of Mutual Motors, Inc. Several jokes are read during this half hour and cash prizes are awarded.  
 7:30 p. m.—Microphone Brevities.  
 8:00 to 9:00 p. m.—Program presented by courtesy of the Cheek-Neal Coffee Company, featuring the Maxwell House Coffee String Quartet, under direction of Harry Jackson; Charles Beauchamp, tenor; Lee Kent and her terrapache.  
 9:00 to 10:00 p. m.—Program presented by courtesy of the Western Pacific Securities Company, Santa Monica, featuring Bill Hatch's Hoot Owl Orchestra, Peggy Mathews, Blue singer; Frank Stever, baritone, among others.  
 10:00 to 11:00 p. m.—Warner Bros.' Frolic.  
 11:00 to 12:00 p. m.—Henry Halstead's Orchestra broadcasting from the Hollywood Roof Ballroom.

## THURSDAY, DECEMBER 3—

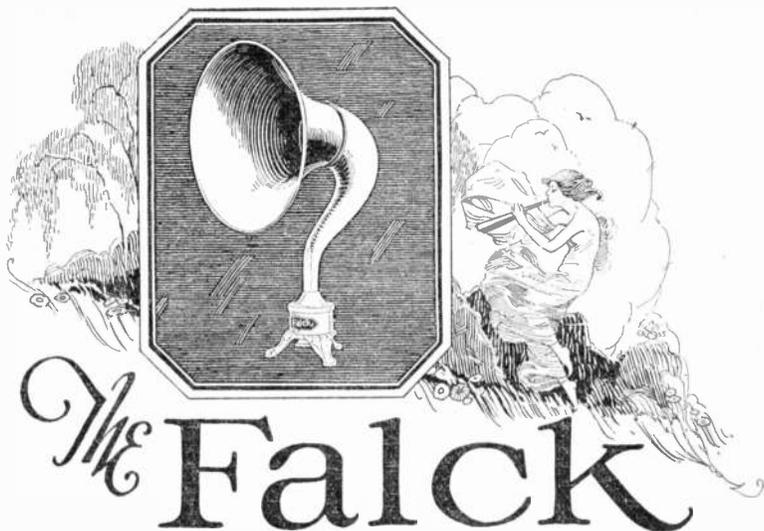
7:00 to 7:15 p. m.—Dr. T. Lloyd Brown, plastic and facial surgeon.  
 7:15 to 7:30 p. m.—Microphone Brevities.  
 7:30 to 8:00 p. m.—Program presented by courtesy of Elmer R. Sly Co.  
 8:00 to 9:00 p. m.—Program presented by courtesy of the Starr Piano Company, featuring the Hollywood Rhythm Kings and other artists.  
 9:00 to 10:00 p. m.—Program presented by courtesy of Don P. Smith, Inc., featuring the Diana-Moon Orchestra and other artists.  
 10:00 to 11:00 p. m.—Warner Bros.' Frolic, of which Charley Ilch's Sunset Canyon Country Club Orchestra will be a feature.  
 11:00 to 12:00 p. m.—Henry Halstead's Orchestra broadcasting from the Hollywood Roof Ballroom.

## FRIDAY, DECEMBER 4—

7:10 p. m.—Edgar Johnson, sergeant of police, Traffic Bureau, Los Angeles, will give a short talk on "Safety First."  
 7:20 p. m.—Jack Boaz, hunting and fishing scout of the New York Hardware Trading Co.  
 7:30 p. m.—Herbert S. Marshutz, short Eye-ologue.  
 7:40 p. m.—Microphone Brevities.  
 8:00 to 9:00 p. m.—Program presented by courtesy of John Wright, the Right Tailor.  
 9:00 to 10:00 p. m.—Program presented by courtesy of the Western Super-Service Garage.  
 10:00 to 11:00 p. m.—Warner Bros.' Frolic.  
 11:00 to 12:00 p. m.—Henry Halstead's Orchestra broadcasting from the Hollywood Roof Ballroom.

## SATURDAY, DECEMBER 5—

7:45 p. m.—Microphone Brevities.  
 8:00 to 10:00 p. m.—Program presented by courtesy of Radio Doings, "Radio Doings Revels," featuring Bill Blake, tenor; Emma Kimmel, soprano; the Hollywood String Trio, and others. Besides a high class musical entertainment, Radio Doings will give you a great deal of technical information in regards to your sets, how to dial them in order to obtain the best results, etc.  
 10:00 to 11:00 p. m.—Warner Bros.' Frolic.  
 11:00 to 12:00 p. m.—Henry Halstead's Orchestra broadcasting from the Hollywood Roof Ballroom.

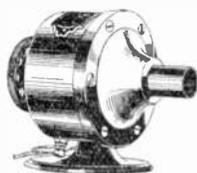


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 ESSIE BINKLEY, Program Manager. ESTHER FRICKE GREENE, Organist  
 GLADWYN N. NICHOLS, Musical Director and Announcer.  
 500 WATTS—1090 KILOCYCLES

WEEK COMMENCING SUNDAY, NOVEMBER 29, 1925

### SUNDAY, NOVEMBER 29—

- 10:30 a. m. to 12:30 p. m.—Complete church service. Sermon by Aimee Semple McPherson. Charlotte Tyson Foljombe, soprano. Angelus Temple Male Quartet. Temple choir, directed by Gladwyn N. Nichols. Great Temple organ and chimes played by Esther Fricke Greene.
- 2:30 to 4:30 p. m.—Afternoon service with dispensational address by Aimee Semple McPherson. Special numbers by the Temple Silver Band, directed by Gladwyn N. Nichols. Mrs. C. D. Smith, fancy drummer and xylophone player. Will J. Stitt, baritone.
- 7:00 to 8:00 p. m.—Musical hour. Continuity program. Thomas Johnson, baritone. Bible School Quartet. Choir and band, direction of Gladwyn N. Nichols.
- 8:00 to 9:45 p. m.—Revival service conducted by Aimee Semple McPherson. Illustrated message. Altar Call and After Service.
- 10:00 to 11:00 p. m.—Organ recital by Esther Fricke Greene. Helen Stanhope, soprano, and Gladwyn N. Nichols in sacred duets and solos.

### TUESDAY, DECEMBER 1—

- 10:30 to 11:30 a. m.—Sunshine Hour. Fanny Ashby, Radio Girl. Helen Stanhope, soprano and accompanist. Sermon and prayers for the sick by Rev. Gladwyn N. Nichols.
- 11:30 a. m. to 12:30 p. m.—Organ recital by B. Earnest Ballard. Margaret McNeil and Ruth Winter Hanna, sopranos.
- 3:30 to 4:30 p. m.—Organ recital by B. Earnest Ballard.
- 6:30 to 7:30 p. m.—Gray Studio program by Harry James Beardsley and Eugene Lamb, pianist. Cousin Jim's hour with the children—stories and articles taken from "Compton's Picture Encyclopedia."

### WEDNESDAY, DECEMBER 2—

- 10:30 to 11:30 a. m.—Sunshine Hour. Sermon and prayers for the sick by Anita Hopper.
- 11:30 a. m. to 12:30 p. m.—Organ recital by B. Earnest Ballard. Amanda Garden, reader. Felecia Lavender Black, soprano. Eleanor Maegle, violinist.
- 2:30 to 5:30 p. m.—Regular Divine Healing Service by Aimee Semple McPherson.
- 6:30 to 7:30 p. m.—Angelus Hour. Program presented by Angelus Temple Ukulele Band

### THURSDAY, DECEMBER 3—

- 10:30 to 11:30 a. m.—Sunshine Hour. Sermon by Anita Hopper. Prayers for the sick by Rev. Bert Bruffett. Fanny Ashby, Radio Girl. Helen Stanhope, soprano
- 11:30 a. m. to 12:30 p. m.—Organ recital by Esther Fricke Greene.
- 3:30 to 4:30 p. m.—Organ recital by B. Earnest Ballard.
- 7:30 to 9:15 p. m.—Regular Water Baptismal Service conducted by Aimee Semple McPherson.
- 9:15 to 10:00 p. m.—Gray Studio program by Ruth Frances Thomas.
- 10:00 to 11:00 p. m.—Organ recital by Esther Fricke Greene.

### FRIDAY, DECEMBER 4—

- 10:30 to 11:30 a. m.—Sunshine Hour. Sermon and prayers for the sick by Anita Hopper.
- 11:30 a. m. to 12:30 p. m.—Organ recital by Esther Fricke Greene.
- 3:30 to 4:30 p. m.—Organ recital by Esther Fricke Greene. Organ numbers.
- 7:30 to 9:30 p. m.—Crusader Rally. Address by Aimee Semple McPherson. Live-wire program arranged by the young people for the young people.
- 9:30 to 10:30 p. m.—Gray Studio program presented by the Temple Silver Band,

### SATURDAY, DECEMBER 5—

- 10:30 to 11:30 a. m.—Sunshine Hour. Sermon and prayer for the sick by Rev. Gladwyn N. Nichols. Fanny Ashby, Radio Girl. Helen Stanhope, soprano and accompanist.
- 11:30 a. m. to 12:30 p. m.—Organ recital by Esther Fricke Greene. Clyde Umhey, baritone.
- 3:30 to 4:30 p. m.—Children's Orchestra directed by Helen McNaughton.
- 7:30 to 9:30 p. m.—Divine Healing Service conducted by Aimee Semple McPherson.

## PENETROLA

TEST No. 1.—Los Angeles: Receiver dials set at 300 meters. Tuning broad. Interference without Penetrola severe from both KNX and KFSG. Nothing else audible but static. Throwing Penetrola switch on without another adjustment faded all interference and gave KSL every word clear and distinct with good loud speaker volume.

Important: For California tests or further information phone RADIO MOVIE SERVICE, ATLantic 5025, VAndike 8576, or WESTmore 6504, or write A. C. Moyne, Sec'y, Associated Technicians, Box 757, Station C, Los Angeles. We were the first in California to retail the marvelous PENETROLA, now nationally known and advertised, written up in the November (1925) Radio News, pages 624, 625 and 713. Penetrola is the ideal gift to any radio enthusiast, or for the home or family, and it is guaranteed. But phone early. Already the demand, nationally, is heavy, East and West. MAIL ORDERS: We conduct a mail order business and are now prepared to ship to any address prepaid upon receipt of price.

**PRICE \$35.00**

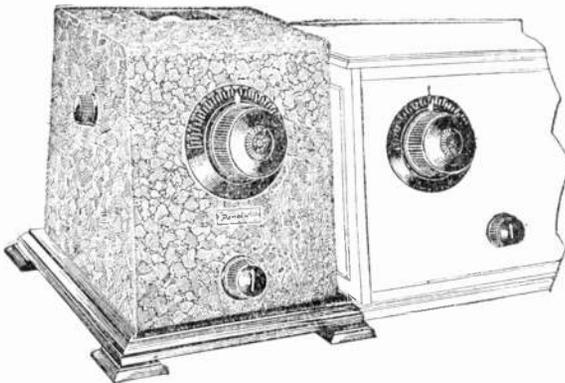
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Absolutely inaudible stations brought to speaker volume with PENETROLA. Yet shorter aerials are actually possible, delivering greater signal intensity with much less static. Overwhelms interference. Picking stations with uncanny acuteness. Stabilizes circuit. Keeps your set from radiating, no matter how strong the tendency to oscillate.

PENETROLA is a permanent asset. May be used with any subsequent receiver.



PENETROLA is made in two types: (a) for antenna sets; (b) for loop sets. Equipped with standard WALBERT parts including UNIVERNIER, UNIVERNIER SLF CONDENSER, HIGH EFFICIENCY INDUCTION SOCKET, and ISODON

PENETROLA will add more in performance than many times its cost invested in a new set. In most cases the resulting combination will out-perform the best set on the market.

**\$35.00**

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RECEIVER	Station to which set was tuned	Interfering station
3-Tube Regenerative Less Penetrola....	WOC, Davenport 0	WQJ, Chicago 2,000*
With Penetrola....	900	0
5-Tube Tuned R.F. Less Penetrola....	CNRW, Winnipeg 0	WGN, Chicago 150
With Penetrola....	1,300	0
6-Tube Super....	WBZ, Boston 0	WLS, Chicago 350
Less Penetrola....	2,000*	0
With Penetrola....		

\*Maximum reading on audibility meter.

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750 WATTS—1020 KILOCYCLES  
 MR. M. E. CARRIER, Manager Phone ME. 6701 PROF. H. G. TOVEY, Director of Programs  
 WEEK COMMENCING SUNDAY, NOVEMBER 29, 1925

**SUNDAY, NOVEMBER 29—**  
 10:45 a. m. to 12:30 p. m.—Regular morning services of the Church of the Open Door.  
 6:00 to 6:45 p. m.—Radio Vesper service. Sermon by Rev. E. E. Ford.  
 7:15 to 9:30 p. m.—Regular evening services of the Church of the Open Door.  
**MONDAY, NOVEMBER 30—**  
 8:00 to 9:00 p. m.—Musical program featuring Winnifred Pennell, organist; Clifford Lilyquist, bass soloist; Leland Green, saxophone soloist; Miss Thelma Grene and Miss Helen Yeths, accompanists.  
**TUESDAY, DECEMBER 1—**  
 8:00 to 9:00 p. m.—Salvation Army Citadel Band under the direction of H. A. Gooding.  
**WEDNESDAY, DECEMBER 2—**  
 8:00 to 9:00 p. m.—Program arranged by the Alhambra Community Broadcasters.  
**THURSDAY, DECEMBER 3—**  
 8:00 to 9:00 p. m.—Exposition of the Whole Bible Sunday School lesson  
**FRIDAY, DECEMBER 4—**  
 7:00 to 8:00 p. m.—International Sunday School lesson taught by Rev. J. A. Hubbard.

## K F W O—The Island Station—211.1 Meters

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 AVALON, SANTA CATALINA ISLAND, CALIFORNIA  
 MAJOR LAWRENCE MOTT Owner-Operator MISS FRANCES HEWITT Studio and Program Director  
 Power 250 Watts—Western Electric Equipment  
 WEEK COMMENCING MONDAY, NOVEMBER 30, 1925

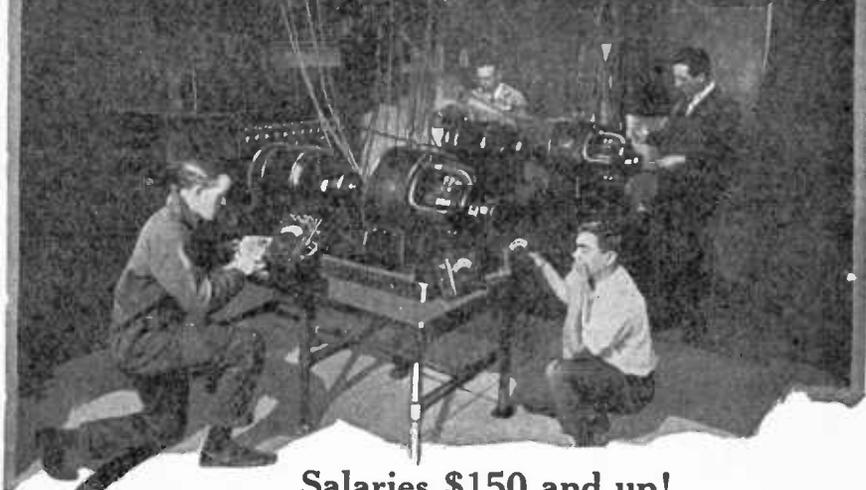
**DAILY—**  
 12:30, to 1:30; 6:30 to 7:45 p. m.—Hotel St. Catherine Orchestra and Studio.  
**TUESDAY, DECEMBER 1—**  
 5:00 to 6:00 p. m.—Miss Hewitt's "Golden Hour."  
 7:45 to 8:30 p. m.—Studio and Mrs. C. B. Parker, the only woman fish taxidermist in the world, in weekly talks on "Game Fish of the Pacific."  
**THURSDAY, DECEMBER 3—**  
 7:45 to 8:30 p. m.—Judge Ernest Windle, studio discussion on Psychology.  
**FRIDAY, DECEMBER 4—**  
 5:00 to 6:00 p. m.—Miss Hewitt's "Golden Hour" and the Rev. LaRue C. Watson.  
 7:45 to 9:00 p. m.—"Overseas Night" and K F W O Quartette. (Miss Hewitt, soprano; Mrs. Williams, contralto; Mr. C. E. Patterson, tenor; Mr. Williams, bass.)  
**SUNDAY, DECEMBER 6—**  
 5:00 to 6:00 p. m.—Miss Hewitt's "Golden Hour."  
 8:15 to 9:15 p. m.—Hotel St. Catherine Concert Orchestra in lobby of hotel.

## K N R C—Kierulff & Ravenscroft Co.—208 Meters

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R. E. CROWLEY, Program Arranger  
 Subject to Change. EKKO Verified Reception Stamps Issued  
 WEEK COMMENCING SUNDAY, NOVEMBER 29, 1925  
**SUNDAY, NOVEMBER 29—**  
 5:00 to 6:00 p. m.—Classical program by Kennedy Orchestra.  
 7:00 to 9:00 p. m.—Dance program by Kennedy Orchestra.  
**MONDAY, NOVEMBER 30—**  
 12:00 to 1:00 p. m.—Owen Fallon's California Orchestra.  
 1:00 to 3:00 p. m.—"Happy Dodge," the KNRC minstrel, and his Blue Monday musical.  
 7:00 to 9:00 p. m.—Rod Loring and his Oaks Tavern Orchestra, Betty Abbott, the girl baritone, assisting.  
**TUESDAY, DECEMBER 1—**  
 3:30 to 4:30 p. m.—Matinee dance musical.  
 7:00 to 8:00 p. m.—Norman Harvery's Orchestra, courtesy of King's Dance Palace, Ave. 28th and Dayton.  
 8:00 to 9:00 p. m.—Chesterfield Syncopaters dance hour.  
**WEDNESDAY, DECEMBER 2—**  
 3:30 to 4:30 p. m.—Matinee dance program by Geo. Lane Orchestra.  
 7:00 to 9:00 p. m.—Jack Smith's KNRC Orchestra.  
**THURSDAY, DECEMBER 3—**  
 3:30 to 4:30 p. m.—Matinee dance program of Kennedy Orchestra.  
 7:00 to 9:00 p. m.—Mosby's Blue Blowers, courtesy Fred Solomon, "Dance King," of Los Angeles.  
**FRIDAY, DECEMBER 4—**  
 3:30 to 4:30 p. m.—Greenwich Village Orchestra, courtesy of Greenwich Village, Hotel Christie, Hollywood.  
 7:00 to 9:00 p. m.—Limmy Tighe Orchestra, assisted by entertainers of Sutton Cafe.  
**SATURDAY, DECEMBER 5—**  
 3:30 to 4:30 p. m.—Matinee musical furnished by the Figueroa Music Shop of Los Angeles.  
 7:00 to 9:00 p. m.—Dance program, courtesy Beach Amusements.

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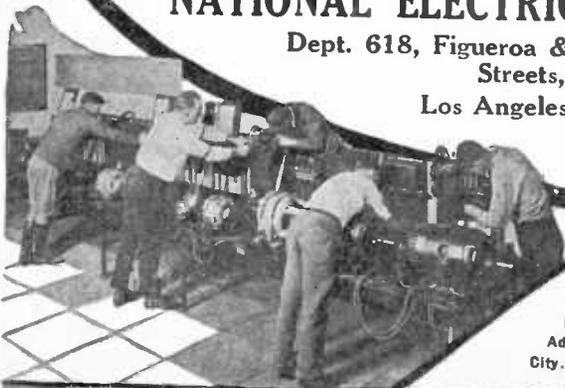
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"DAD" KING, Announcer

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Daily except Sunday, at 9:00 a. m.—Postal Telegraph Time Signal.

**DAILY EXCEPT SUNDAY—**

- 9:00 a. m.—"Dad's Hour," by Dad King.
- 10:00 a. m.—Educational hour.
- 2:00 p. m.—Turner radio program.
- 2:30 p. m.—Easy Chair program.

**WFEK COMMENCING MONDAY, NOVEMBER 30, 1925****MONDAY, NOVEMBER 30—**

- 1:00 p. m.—Chester Baake, nurseryman, "Gardening and Flowers."
- 1:30 p. m.—E. Wynn Boyden, grandson of A. I. Root, will talk on "Bees."
- 5:00 p. m.—Home Hour, conducted by Georgia Simmons, with Walter Benson, Helen Levy, and the Ukulele Kids.
- 7:15 p. m.—Program through the courtesy of the Los Angeles Y. M. C. A.
- 8:00 to 10:00 p. m.—KMTR Concert Hour, presenting the Turner Orchestra, Loren Powell, director.

**TUESDAY, DECEMBER 1—**

- 9:30 a. m.—Sylvia Szymanski, "The Blind Cook."
- 3:00 p. m.—Rev. S. J. Skevington, pastor of Hollywood Baptist Church.
- 4:00 to 5:00 p. m.—Tryout Hour. (Not broadcast.)
- 5:00 p. m.—Home Hour, conducted by Georgia Simmons, with Billy Lord, Margaret Bond and neighborhood children.
- 7:30 p. m.—E. P. Barclay, lecturer and explorer, will talk on the diamond mines of Central Africa.
- 8:00 to 10:00 p. m.—KMTR Concert Hour, presenting the Turner Orchestra. Loren Powell, director. Tom Mitchell, baritone.

**WEDNESDAY, DECEMBER 2—**

- 12:00 to 1:00 p. m.—Luncheon program by the Windsor Ensemble.
- 3:00 p. m.—Mr. F. J. Schwankowsky on "Art Appreciation."
- 5:00 p. m.—Home Hour, conducted by Georgia Simmons, with pupils of Geraldine Kasal.
- 7:00 p. m.—Dr. Dain T. Tasker, vice-president of the Osteopathic Sanitarium Hospital, will talk on "Health."
- 8:00 to 10:00 p. m.—KMTR Concert Hour, presenting the Turner Orchestra, Loren Powell, director. Rondeau Male Quartette.

**THURSDAY, DECEMBER 3—**

- 9:30 a. m.—Sylvia Szymanski, "The Blind Cook."
- 10:30 a. m.—Willie Martin, D.D., pastor of First Methodist Church, Hollywood.
- 2:30 p. m.—Easy Chair Hour, presenting Charles G. Milham, secretary of the All-Year Club, on "The Future of Los Angeles."
- 5:00 p. m.—Home Hour, conducted by Georgia Simmons, presenting pupils of Carter Weaver's School of the Drama and Pantomime.
- 7:15 p. m.—University of California, Southern Branch, "Campus Nite."
- 8:00 to 10:00 p. m.—KMTR Concert Hour, presenting the Turner Orchestra, Loren Powell, director.

**FRIDAY, DECEMBER 4—**

- 1:00 p. m.—Turner Radio program. Tryouts. (Not broadcast.)
- 5:00 p. m.—Home Hour, conducted by Georgia Simmons, with neighborhood children.
- 7:00 p. m.—Charles W. Beam on "Color Photography."
- 7:30 p. m.—Prof. Alfred Cookman, president of the Los Angeles Nature Club, on "The Wonders of Nature," birds and animal life.
- 8:00 to 10:00 p. m.—KMTR Concert Hour, presenting the Turner Orchestra, Loren Powell, director.

**SATURDAY, DECEMBER 5—**

- 1:00 p. m.—Dr. F. P. Woelner, Associate Professor of Education of the University of California, Southern Branch, will talk.
- 1:30 to 1:45 p. m.—G. Gordon-Whitnall, director-manager of City Planning Commission.
- 8:00 to 10:00 p. m.—KMTR Concert Hour, presenting the Turner Orchestra, Loren Powell, director.

**KPPC—Pasadena Presbyterian Church—229 Meters**

PASADENA, CALIF.

50 WATT—1310 KILOCYCLES

REV. ROBERT FREEMAN, D.D., Pastor

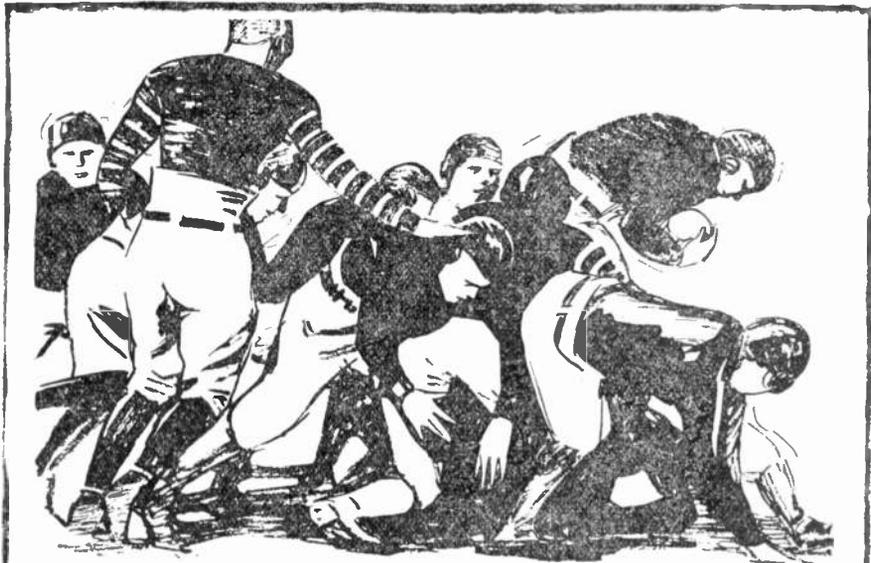
G. ANTON POHLMAN, Announcer

**WEEK COMMENCING SUNDAY, NOVEMBER 29, 1925****SUNDAY, NOVEMBER 29—**

- 10:30 a. m.—Tower chimes by Samuel L. Allen, and announcements.
- 11:00 a. m.—Sermon by Rev. Robert Freeman, D.D. Music by church quartet.
- 7:00 p. m.—Organ recital.
- 7:30 p. m.—Sermon by Rev. Robert Freeman, D.D., Galata Tower, Constantinople—The Religion of the Green Turban. Music by church quartet.

**WEDNESDAY, DECEMBER 2—**

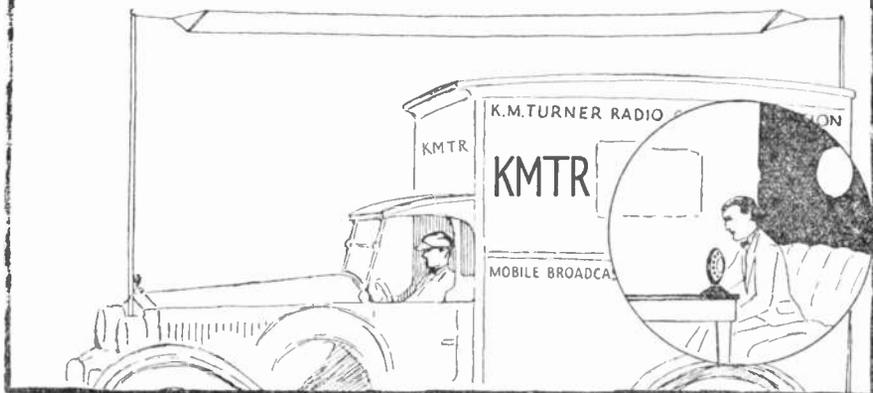
- 7:00 p. m.—"The Religion of the Bible in the World Today," last of series of supper lectures by Dr. Freeman.
- 7:30 p. m.—Prayer meeting, led by Dr. Freeman. Discussional question, If you had your life to live over again, what main changes would you make?



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DAILY EXCEPT SUNDAY—

10:00 a. m.—Daily shopping tour.

DAILY EXCEPT THURSDAY AND SUNDAY—

9:00 to 10:00 p. m.—Echophone Radio Entertainers.

DAILY EXCEPT SUNDAY AND FRIDAY—

10:00 to 11:00 a. m.—Morning shopping tour.

4:00 to 4:30 p. m.—Press-Telegram late news reports.

4:30 to 5:00 p. m.—Amusement bulletin.

6:00 to 6:30 p. m.—Organ recital at Brayton's Theater.

WEEK COMMENCING SUNDAY, NOVEMBER 29, 1925

SUNDAY, NOVEMBER 29—

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

4:00 to 4:30 p. m.—Amusement bulletin.

6:00 to 6:30 p. m.—Organ recital at Brayton's Theater.

8:00 to 9:00 p. m.—Services from First Church of Christ, Scientist.

MONDAY, NOVEMBER 30—

8:00 to 9:00 p. m.—Press-Telegram program presenting the Juvenile Symphony Orchestra's fourteenth annual concert at the Municipal Auditorium.

9:00 to 10:00 p. m.—Ardys Anderson, musical hour.

TUESDAY, DECEMBER 1—

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

8:00 to 9:00 p. m.—Press-Telegram program directed by William Conrad Mills.

9:00 to 11:00 p. m.—Long Beach Aero Club Midnight Hi-Jinks.

WEDNESDAY, DECEMBER 2—

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

8:00 to 9:00 p. m.—Press-Telegram program directed by L. D. Frey.

THURSDAY, DECEMBER 3—

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

7:30 to 9:00 p. m.—Long Beach Municipal Band.

9:00 to 9:30 p. m.—Concert at Holder's Studio Auditorium.

FRIDAY, DECEMBER 4—

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

4:00 to 4:30 p. m.—Press-Telegram late news reports and James H. Harvery, deep sea fishing.

4:30 to 5:00 p. m.—Amusement bulletin.

6:00 to 6:30 p. m.—Organ recital at Brayton's Theater.

6:30 to 7:00 p. m.—Captain's Inn Orchestra, Seal Beach, in dinner dance program.

8:00 to 9:00 p. m.—Press-Telegram program.

11:00 p. m. to 1:00 a. m.—Long Beach Elks No. 888 Midnite Frolic.

SATURDAY, DECEMBER 5—

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

4:00 to 4:10 p. m.—Address by Miss Marie C. Brehm, author and lecturer, on "Trees and the City Beautiful," under Woman's City Club auspices.

7:30 to 9:00 p. m.—Long Beach Municipal Band Concert.

9:00 to 11:00 p. m.—Echophone Entertainers' Frolic.

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OLIVER W. TUTTLE, Managing Director. MRS. FREDERICK CROWE, Program Director.  
CLAIR E. MORRISON, Technical Director

## DAILY EXCEPT SUNDAY—

7:00, 7:30, 8:00 a. m.—Daily dozen exercises given under the direction of the Y. M. C. A.  
10:30 a. m.—"Ye Towne Cryer" and amusement information service. U. S. weather forecast.  
12:00 noon—Time signals. Scripture reading.  
1:00 to 2:00 p. m.—Rudy Seiger's Fairmont Hotel Orchestra.  
2:30 p. m.—A short talk appropriate for Constitution Day, which opens Educational Week.

## WEEK COMMENCING SUNDAY, NOVEMBER 29, 1925

### SUNDAY, NOVEMBER 29—

9:45 to 10:45 a. m.—Undenominational and non-sectarian church service. Talk, "Thanks-giving and Thanksliving," by Dr. W. A. Phillips, pastor St. John's Presbyterian Church.  
10:45 a. m.—"Ye Towne Cryer" and amusement information service.  
5:00 to 6:00 p. m.—Organ recital by Marshall W. Giselman  
6:00 to 6:30 p. m.—Waldemar Lind and the States Restaurant Orchestra.  
6:30 p. m.—"Ye Towne Cryer."  
6:35 to 7:30 p. m.—Palace Hotel Concert Orchestra, Cyrus Trobbe, director.  
8:00 to 8:30 p. m.—Palace Hotel Concert Orchestra, Cyrus Trobbe, director.  
8:30 to 10:00 p. m.—Rudy Seiger's Fairmont Hotel Orchestra.

### MONDAY, NOVEMBER 30—

2:30 to 3:30 p. m.—Program given by the trio from the Truett-George Studio.  
5:30 to 6:15 p. m.—Children's hour stories by Big Brother  
6:15 to 6:30 p. m.—A. A. Housman stock market quotations.  
6:30 to 6:40 p. m.—"Ye Towne Cryer" and amusement information service.  
6:40 to 7:00 p. m.—Waldemar Lind and the States Restaurant Orchestra.  
7:00 to 7:30 p. m.—Rudy Seiger's Fairmont Hotel Orchestra.  
8:00 to 8:45 p. m.—Uda Waldrop Night. Organ recital by Uda Waldrop.  
8:45 to 9:00 p. m.—Talk by Wiley Winsor, director of the Daily Dozen.  
9:00 to 10:00 p. m.—Program featuring baritone solos by Austin Black, trio selections by the Philharmonic Trio from Modesto, with Uda Waldrop as accompanist  
10:00 to 11:00 p. m.—Waldemar Lind and the States Restaurant Orchestra.

### TUESDAY, DECEMBER 1—

2:30 p. m.—Studio matinee program.  
3:30 to 4:30 p. m.—Cyrus Trobbe's Palace Hotel Concert Orchestra.  
5:30 to 6:15 p. m.—Children's hour stories by Big Brother  
6:15 p. m.—A. A. Housman stock market quotations.  
6:30 p. m.—"Ye Towne Cryer" and amusement information service.  
6:40 p. m.—Waldemar Lind and the States Restaurant Orchestra.  
7:00 to 7:30 p. m.—Rudy Seiger's Fairmont Hotel Orchestra.  
8:00 to 9:00 p. m.—Studio program.  
9:00 to 10:00 p. m.—Program given through the courtesy of the Mona Motor Oil  
10:00 to 11:00 p. m.—Jack Coakley's Cabirians playing at Cabiria Cafe.

### WEDNESDAY, DECEMBER 2—

2:30 p. m.—Program of Hawaiian music by Duke Kamoku's Royal Hawaiians .  
5:30 to 6:15 p. m.—Children's hour stories by Big Brother  
6:15 p. m.—A. A. Housman stock market quotations.  
6:30 p. m.—"Ye Towne Cryer" and amusement information service.  
6:40 to 7:00 p. m.—Waldemar Lind and the States Restaurant Orchestra.  
7:00 to 7:30 p. m.—Rudy Seiger's Fairmont Hotel Orchestra.  
8:00 to 9:00 p. m.—Program by the Atwater Kent Artists  
9:00 to 10:00 p. m.—Program of dance music by the Goodrich Silvertown Cord Orchestra.  
10:00 to 11:00 p. m.—Waldemar Lind and the States Restaurant Orchestra.

### THURSDAY, DECEMBER 3—

2:30 to 3:30 p. m.—Studio matinee program.  
3:30 to 4:30 p. m.—Cyrus Trobbe's Palace Hotel Concert Orchestra.  
5:30 to 6:15 p. m.—Children's hour stories by Big Brother of KPO.  
6:15 p. m.—A. A. Housman stock market quotations.  
6:30 p. m.—"Ye Towne Cryer" and amusement information service.  
6:40 to 7:00 p. m.—Waldemar Lind and the States Restaurant Orchestra.  
7:00 to 7:30 p. m.—Rudy Seiger's Fairmont Hotel Orchestra.  
8:00 to 9:00 p. m.—Program given through the courtesy of the Don Lee Cadillac Co.  
9:00 to 10:00 p. m.—Studio program.  
10:00 to 11:00 p. m.—Jack Coakley's Cabirians playing at the Cabiria Cafe.

### FRIDAY, DECEMBER 4—

12:45 p. m.—Talk from the Commonwealth Club luncheon at the Palace Hotel.  
5:30 to 6:00 p. m.—Big Brother's Uncle Jack in entertainment for the children.  
6:00 to 6:10 p. m.—"Ye Towne Cryer" and amusement information service.  
6:10 to 6:20 p. m.—A. A. Housman stock market quotations.  
7:00 to 7:30 p. m.—Cyrus Trobbe's Concert Orchestra from the Palace Hotel.  
8:00 to 11:00 p. m.—Palace Hotel Concert Orchestra, Cyrus Trobbe, director.

### SATURDAY, DECEMBER 5—

2:30 p. m.—Program under the direction of Lincoln Batchelder.  
3:30 p. m.—Palace Hotel Concert Orchestra, Cyrus Trobbe, director.  
6:15 p. m.—Football scores. A. A. Housman stock market quotations.  
6:30 p. m.—"Ye Towne Cryer" and amusement information service.  
6:35 to 7:30 p. m.—Waldemar Lind and the States Restaurant Orchestra.  
8:00 to 12:00 p. m.—Cabiria Cafe Orchestra, Jack Coakley, director .

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 That old transformer hum is gone!  
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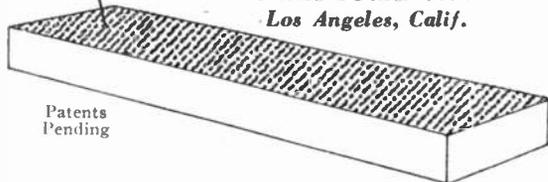
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SAN FRANCISCO, CALIFORNIA

LANSING TEVIS, Manager

HARRISON HOLLIWAY, Station Master

WEEK COMMENCING SUNDAY, NOVEMBER 29, 1925

**SUNDAY, NOVEMBER 29—**

- 5:30 to 6:30 p. m.—Program, courtesy of "Noah's Ark."  
 6:30 to 7:30 p. m.—Concert in Drury Lane, Hotel Whitcomb, by Stanislaus Bem's Little Symphony Orchestra:  
 8:00 to 10:00 p. m.—Overture, Die Fledermaus, Strauss; Wintersturme, Waltz, Fucik; Selections from Die Bajadere, Kalman; Dreams, Wagner; L'Arlesienne Suit, Bizot.  
 10:00 to 12:00 p. m.—Dance music from Il Trovatore Cafe, by Paul Kelli's Orchestra.

**MONDAY, NOVEMBER 30—**

- 10:00 a. m.—Household Hints by Mary Lewis Haines.  
 5:15 p. m.—Talks on Law, Marcus L. Samuels.  
 5:30 to 6:30 p. m.—"Mac and His Gang" and The Stamp Man, Mr. Morell.  
 6:30 to 7:00 p. m.—Jo Mendell and his Pep Band, Lido's Cafe.  
 7:15 to 7:30 p. m.—"Intakes and Exhausts," Gasoline George.  
 8:00 to 9:00 p. m.—"Mac" Round the Camp-Fire.  
 9:15 to 10:00 p. m.—Theatre Arts Club Players, directed by Talma Zetta-Wilbur.

**TUESDAY, DECEMBER 1—**

- 2:30 to 3:30 p. m.—James Lano's Hawaiian Orchestra.  
 5:30 to 6:30 p. m.—"Mac and His Gang."  
 6:30 to 7:00 p. m.—Fred McKinley of Bijin's, popular songs.  
 7:00 to 7:15 p. m.—Talk by J. M. Cunningham, Anglo-California Trust Company.  
 8:00 to 9:00 p. m.—Studio Program: Ruth Linrud Thompson, harp and voice.  
 9:00 to 9:30 p. m.—Feature Studio Program; Wayland Sisters, Paula George.

**WEDNESDAY, DECEMBER 2—**

- 10:00 a. m.—Household Hints, Mary Lewis Haines, S. F. "Call."  
 11:00 a. m.—"Marvel Ant Gelatin Company."  
 12:00 noon to 12:20 p. m.—Inspirational Talk, Mary Katherine Maule.  
 2:30 to 3:30 p. m.—James Lano's Hawaiians.  
 5:30 to 6:30 p. m.—"Mac and His Gang."  
 6:30 to 7:30 p. m.—Concert from Drury Lane, Hotel Whitcomb.  
 8:00 to 9:00 p. m.—Bem's Little Symphony. Intermission solos, Edythe West, soprano.  
 8:15 p. m.—University of California Extension Lecture. Intetrmisyon Health Talk.  
 9:00 to 10:00 p. m.—Studio program.

**THURSDAY, DECEMBER 3—**

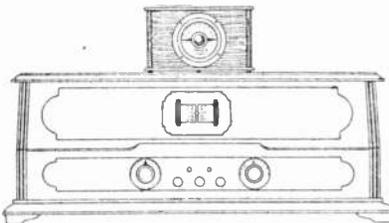
- 12:00 noon to 12:20 p. m.—Inspirational Talk, Mary Katherine Maule.  
 4:00 to 5:00 p. m.—Rex Glissman's Orchestra, Taverne De Paris.  
 5:15 to 5:30 p. m.—Talks on Law, by Marcus L. Samuels.  
 5:30 to 6:30 p. m.—"Mac and His Gang."  
 6:30 to 7:00 p. m.—Dance music, Norman Woodsides Metropolitan Orchestra from Roberts-at-the-Beach.  
 7:00 to 7:30 p. m.—"Answers to Radio Queries" by Gerald Best.  
 8:00 to 8:30 p. m.—Feature Studio Program.

**FRIDAY, DECEMBER 4—**

- 12:00 noon to 12:20 p. m.—Inspirational Talk, Mary Katherine Maule.  
 5:30 to 6:30 p. m.—"Mac and His Gang."  
 6:30 to 7:30 p. m.—Concert in Drury Lane, Hotel Whiteomb.  
 8:00 to 9:00 p. m.—Bem's Little Symphony. Intermission solos, Marcella Knier, soprano.  
 9:00 to 10:00 p. m.—Studio program: Lorelei Quartette, Flora Howell Bruner, Blanche Hamilton Fox, Easton Kent, Harry Truax.  
 10:00 to 10:30 p. m.—Cressy Ferrar-Sollmon.

**SATURDAY, DECEMBER 5—**

- 12:00 noon to 12:20 p. m.—Inspirational Talk, Mary Katherine Maule.  
 4:00 to 5:00 p. m.—Tea hour music, Stanislaus Bem's Little Symphony Orchestra.  
 5:30 to 6:30 p. m.—"Mac and His Gang."  
 6:30 to 7:30 p. m.—Wilt Gunzendorfer's Band, playing in Drury Lane, Hotel Whitcomb.  
 8:00 to 1:00 a. m.—Wilt Gunzendorfer's Band.

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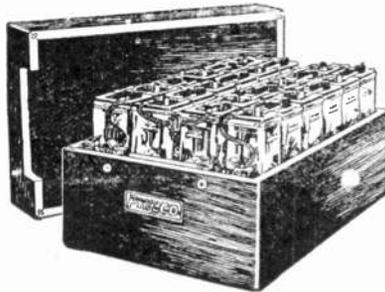
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OAKLAND, CALIFORNIA  
1000 WATTS—900 KILOCYCLES  
ADA MORGAN O'BRIEN, Director

WEEK COMMENCING SUNDAY, NOVEMBER 29, 1925

**SUNDAY, NOVEMBER 29—**

9:45 to 10:45 a. m.—Bible Lecture by Prof. E. G. Linsley.  
11:00 a. m. to 12:30 p. m.—Church Service.  
7:45 to 9:00 p. m.—Church Service.  
9:30 to 11:00 p. m.—After-Service concert.

**MONDAY, NOVEMBER 30—**

9:00 to 9:30 a. m.—Prayer Service by Rev. E. L. Spaulding.  
4:00 to 5:00 p. m.—Women's Club notes.  
8:00 to 10:00 p. m.—Program by Western States Life Insurance Company.

**TUESDAY, DECEMBER 1—**

9:00 to 9:30 a. m.—Prayer Service by Rev. G. W. Phillips.  
8:00 to 10:00 p. m.—Program by Mutual Stores.

**WEDNESDAY, DECEMBER 2—**

9:00 to 9:30 a. m.—Prayer Service by Rev. G. W. Phillips.

**THURSDAY, DECEMBER 3—**

9:00 to 9:30 a. m.—Prayer Service by Rev. G. W. Phillips.  
8:00 to 10:00 p. m.—Studio program.

**FRIDAY, DECEMBER 4—**

9:00 to 9:30 a. m.—Prayer Service by Rev. E. L. Spaulding.  
8:00 to 10:00 p. m.—Program by Breuner's.

**SATURDAY, DECEMBER 5—**

9:00 to 9:30 a. m.—Prayer Service by Rev. E. L. Spaulding.

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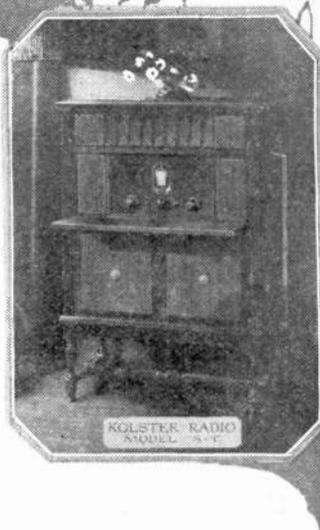


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**K G O—Pacific Coast Station—361.2 Meters****3000 WATTS—830 KILOCYCLES****GENERAL ELECTRIC COMPANY, OAKLAND, CALIFORNIA****DAILY EXCEPT SUNDAY—**

- 7:15 to 7:30 a. m.—Health Training Exercises.
- 7:45 a. m.—"Pep" class.
- 8:15 to 8:30 a. m.—Health Training Exercises.
- 8:30 a. m.—Daily Strength, "Cherio."
- 11:30 a. m. to 1:00 p. m.—Luncheon concert, courtesy Pacific States Commercial Co.
- 12:00 noon—Time signals.
- 12:30 p. m.—U. S. weather reports.
- 1:30 p. m.—N. Y. and S. F. stock reports.

**WEEK COMMENCING SUNDAY, NOVEMBER 29, 1925****SUNDAY, NOVEMBER 29—**

- 11:00 a. m.—Service of Calvary Presbyterian Church, San Francisco; Rev. Ezra Allen Van Nuys, D.D., minister.
- 3:30 p. m.—Concert by KGO Little Symphony Orchestra. Hymn to the Sun, orchestra.
- 7:30 p. m.—Service of the Calvary Presbyterian Church, San Francisco.

**MONDAY, NOVEMBER 30—**

- 3:00 to 4:00 p. m.—Musical program.
- 5:30 to 6:00 p. m.—Aunt Betty stories and KGO Kiddies' Klub, Ruth Thompson.
- 6:00 to 7:00 p. m.—Dinner concert from Sherman, Clay & Co. studio, San Francisco.
- 7:00 p. m.—News items.
- 7:10 p. m.—Weather Bureau report.
- 7:13 p. m.—New York stock reports (closing).
- 7:20 p. m.—San Francisco stock reports (closing).
- 8:00 p. m.—Educational program.
- 8:10 p. m.—"Physical Culture for the Family," Hugh Barrett Dobbs.
- 8:25 p. m.—"Chats About New Books," Joseph Henry Jackson.
- 8:45 p. m.—"Spanish Names in California," Dr. John T. Grant.
- 9:05 p. m.—"All About Some So-called Bad Children," Dr. Albertine Richards Nash.
- 9:30 p. m.—"The San Francisco Bay Chemical Industries," Norwegian Dance, Arion Trio.
- 9:45 p. m.—National Farm Radio Council. Poor Butterfly, Arion Trio.

**TUESDAY, DECEMBER 1—**

- 1:40 p. m.—San Francisco stock reports.
- 1:45 p. m.—Weather Bureau reports.
- 4:00 to 5:30 p. m.—Concert Orchestra of the Hotel St. Francis, San Francisco.
- 5:30 p. m.—"As a Woman Thinketh," Louise Landis, newspaper woman's page writer.
- 6:00 to 7:00 p. m.—Dinner concert from Sherman, Clay & Co.
- 7:00 p. m.—News items.
- 7:10 p. m.—Weather Bureau report.
- 7:13 p. m.—New York stock reports (closing).
- 7:20 p. m.—San Francisco stock reports (closing).
- 8:00 p. m.—"Radio Breezes" by K C B, famous newspaper columnist.
- 8:10 p. m.—Oakland studio program. Concert by KGO Little Symphony Orchestra.
- 9:30 p. m.—"Auction Bridge Feature."
- 10:00 to 11:00 p. m.—Dance music program from the Hotel St. Francis, San Francisco.

**WEDNESDAY, DECEMBER 2—**

- 1:40 p. m.—San Francisco stock reports.
- 1:45 p. m.—Weather Bureau reports.
- 3:00 to 4:00 p. m.—Oakland High School Orchestra program.
- 4:00 to 5:30 p. m.—Concert Orchestra of the Hotel St. Francis, San Francisco.
- 5:30 p. m.—Mr. Fix-it.
- 7:00 p. m.—News items.
- 7:10 p. m.—Weather Bureau report.
- 7:13 p. m.—New York stock reports (closing).
- 7:20 p. m.—San Francisco stock reports (closing).

**THURSDAY, DECEMBER 3—**

- 1:40 p. m.—San Francisco stock reports.
- 1:45 p. m.—Weather Bureau reports.
- 4:00 to 5:30 p. m.—Concert Orchestra of the Hotel St. Francis, San Francisco.
- 5:30 to 6:30 p. m.—George W. Ludlow, "Friend to Boys."
- 8:00 p. m.—Oakland studio program.
- 10:00 p. m. to 12 midnight—Dance music program by Ben Black's Orchestra.

**FRIDAY, DECEMBER 4—**

- 1:40 p. m.—San Francisco stock reports.
- 3:30 to 4:00 p. m.—"Magazine Article Digest" by Literary Service Bureau.
- 4:00 to 5:30 p. m.—Concert Orchestra of the Hotel St. Francis, San Francisco.
- 5:30 to 6:00 p. m.—Girls' Half Hour.
- 6:00 to 7:00 p. m.—Dinner concert from Sherman, Clay & Co. studio, San Francisco.
- 7:00 p. m.—News items.
- 7:10 p. m.—Weather Bureau report.
- 7:13 p. m.—New York stock reports (closing).
- 7:20 p. m.—San Francisco stock reports (closing).

**SATURDAY, DECEMBER 5—**

- 4:00 to 5:30 p. m.—Concert Orchestra of the Hotel St. Francis, San Francisco.
- 8:00 p. m.—Weekly "Sport Review" by Al Santoro.
- 8:10 p. m.—National Carbon Co. program, San Francisco studio. "The Merry Widow," comic opera by Franz Lehár, presented under the direction of Carl Anderson;
- 10:00 p. m. to 12 midnight—Dance music program from the Hotel St. Francis,

**K L X—Oakland Tribune Radiophone—508.2 Meters**

508 METERS—500 WATTS

OAKLAND, CALIFORNIA

WEEK COMMENCING MONDAY, NOVEMBER 30, 1925

**MONDAY, NOVEMBER 30—**

- 4:00 to 5:00 p. m.—Women's hour.  
 5:00 to 5:30 p. m.—Aunt Elsie's Sunset Matinee.  
 7:00 to 7:30 p. m.—News broadcast.  
 8:00 to 9:00 p. m.—Program through courtesy of Piggly Wiggly stores.  
 9:00 to 10:30 p. m.—Meeting of the Protective Order of Lake Merritt Ducks. Special guest night: Knights of Pythias.

**TUESDAY, DECEMBER 1—**

- 7:00 to 7:30 p. m.—News broadcast.  
 Silent after 7:30 p. m.

**WEDNESDAY, DECEMBER 2—**

- 4:00 to 5:00 p. m.—Women's hour.  
 5:00 to 5:30 p. m.—Aunt Elsie's Sunset Matinee.  
 7:00 to 7:30 p. m.—News broadcast.  
 8:00 to 9:00 p. m.—Educational program.  
 9:00 to 10:00 p. m.—Program broadcast through the courtesy of Olin S. Grove Radio Store.  
 10:00 to 11:30 p. m.—Sweet's ballroom; Tom Gernovich and his entertainers.

**THURSDAY, DECEMBER 3—**

- 7:00 to 7:30 p. m.—News broadcast.  
 Silent after 7:30 p. m.

**FRIDAY, DECEMBER 4—**

- 4:00 to 5:00 p. m.—Women's hour.  
 5:00 to 5:30 p. m.—Aunt Elsie's Sunset Matinee.  
 7:00 to 7:30 p. m.—News broadcast.  
 8:00 to 9:45 p. m.—Special program.  
 9:45 to 10:30 p. m.—Sweet's ballroom; Tom Gernovich and his entertainers.

**SATURDAY, DECEMBER 5—**

- 7:00 to 7:30 p. m.—News broadcast.  
 Silent after 7:30 p. m.

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- 7:30 a. m.—Good Thought Service for Today. (Conducted by Rev. Chas. Nott.)  
11:15 a. m.—Physical Exercises for Women.  
7:00 p. m.—Current news by leased wire.

## WEEK COMMENCING SUNDAY, NOVEMBER 29, 1925

### SUNDAY, NOVEMBER 29—

- 10:00 to 11:00 a. m.—Church service conducted by the University Christian Church of Berkeley, California, Rev. Chas. E. Watson, pastor.  
6:30 to 7:30 p. m.—Dinner concert by the California Trio of San Francisco.  
8:15 to 9:00 p. m.—Social concert by the California Trio and assisting vocalists.  
9:00 to 10:00 p. m.—Hour of Sacred Music

### MONDAY, NOVEMBER 30—

- 8:00 to 10:00 p. m.—(Play Night.) Studio program.

### TUESDAY, DECEMBER 1—

- 9:00 p. m.—(Educational Night.) Studio program: Part I—Travelogue Talk, "A Trip to the Filipino Islands," by B. L. Stetson, of Crabtree's Travel Office, Berkeley.  
9:15 p. m.—Studio program: Part II—Musical program arranged and sponsored by the Twentieth Century Club of Berkeley, Calif., Mrs. G. A. Mattern, president.  
10:15 to 11:00 p. m.—Dance program.

### WEDNESDAY, DECEMBER 2—

- 5:00 to 6:00 p. m.—Kiddies' Hour with Big Brother. Stories and reading of letters.  
5:30 p. m.—Kiddies' Entertainment by pupils from the John Muir Elementary School  
12:00 midnight—Dance program by Horace Heidt and his Hotel Claremont Dance Orchestra  
6:30 p. m.—Studio program: Special entertainment by artists from the Berkeley Theaters  
10:00 p. m.—Studio program.

### THURSDAY, DECEMBER 3—

- 8:00 to 10:00 p. m.—(Community Night.) Studio program arranged  
10:00 to 11:00 p. m.—Dance program.

### FRIDAY, DECEMBER 4—

- 9:00 to 12:00 p. m.—Dance program  
9:30 p. m.—Studio program: Intermission solos by members of the orchestra.

### SATURDAY, DECEMBER 5—

- 8:00 to 1:00 a. m.—Dance program  
9:00 p. m.—Studio program:  
10:00 p. m.—Studio program:

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RHODES DEPARTMENT STORE, ARCADE SQUARE, SEATTLE, WASHINGTON  
(Pacific Time)

CARL E. HAYMOND, Station Director

WEEK COMMENCING MONDAY, NOVEMBER 30, 1925

**MONDAY, NOVEMBER 30—**

- 12:45 to 1:30 p. m.—The Lions Club luncheon program  
6:00 to 6:45 p. m.—Pacific States Electric Co., presenting the Hoffman Concert Orchestra  
4:00 to 5:15 p. m.—The Times "Afternoon at Home" program. Today's recipe.  
6:00 to 6:45 p. m.—Pacific States Electric Co.,  
6:45 to 8:15 p. m.—Sherman, Clay & Company studio program.  
8:30 to 10:00 p. m.—The Times dance program by Goodrich Silvertown Cord Orchestra.

**TUESDAY, DECEMBER 1—**

- 12:30 to 1:30 p. m.—Kiwanis Club luncheon program  
4:00 to 5:15 p. m.—The Times, Wm. F. Hoffman's Olympic Hotel Concert Orchestra.  
6:00 to 6:45 p. m.—Pacific States Electric Co., presenting the Hoffman Concert Orchestra  
6:45 to 8:15 p. m.—Rhodes Department Store program,  
8:15 p. m.—Weather report and Special Announcements.  
9:30 to 11:30 p. m.—Eddie Harkness Dance Orchestra !

**WEDNESDAY, DECEMBER 2—**

- 12:30 to 1:30 p. m.—The Rotary Club luncheon program  
4:00 to 5:15 p. m.—The Times, Wm. F. Hoffman's Olympic Hotel Orchestra.  
6:00 to 6:45 p. m.—Pacific States Electric Co., presenting the Hoffman Concert Orchestra  
6:45 to 8:15 p. m.—Hopper Kelly Company studio program.  
8:30 to 10:00 p. m.—The Times Organ Recital from the Elk's Club.

**THURSDAY, DECEMBER 3—**

- 12:30 to 1:30 p. m.—Young Men's Business Club Luncheon program  
4:00 to 5:15 p. m.—The Times, Wm. F. Hoffman's Olympic Hotel Concert Orchestra.

**FRIDAY, DECEMBER 4—**

- 12:30 to 1:30 p. m.—Seattle Chamber of Commerce program from C. of C. Building.  
4:00 to 5:15 p. m.—The Times, Wm. F. Hoffman's Olympic Hotel Concert Orchestra.  
6:00 to 6:45 p. m.—Pacific States Electric Co., presenting the Hoffman Concert Orchestra  
6:45 to 8:15 p. m.—Sherman, Clay & Company studio program.  
8:30 to 10:00 p. m.—The Times studio program.  
10:00 to 11:30 p. m.—Eddie Harkness Dance Orchestra.

**SATURDAY, DECEMBER 5—**

- 4:00 to 5:15 p. m.—The Times, Wm. F. Hoffman's Olympic Hotel Concert Orchestra.  
6:00 to 6:45 p. m.—Pacific States Electric Co., presenting the Hoffman Concert Orchestra  
9:30 to 11:30 p. m.—Eddie Harkness Dance Orchestra.

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**Utility**—Mica Diaphragm—Black Crackle—\$14.00.

All above, as well as Loud Speaker Units, Phono-Speakers and Head Sets  
*Carried in Stock by*

*Southern California Distributors*

MYERS ELECTRIC SUPPLY CO., INC.,  
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*Catalog mailed on request*

**K G W—Morning Oregonian—491.5 Meters**

PORTLAND, OREGON  
500 WATTS—810 KILOCYCLES

**DAILY EXCEPT SUNDAY—**

- 7:15 a. m.—Physical Culture Exercises.  
10:30 a. m.—Town Crier, weather reports, news items and shopping guide.  
12:30 to 1:30 p. m.—Rose City Trio, courtesy Pacific States Commercial Company.  
7:30 to 7:45 p. m.—Weather, market, police reports, sporting results and news items.

**WEEK COMMENCING SUNDAY, NOVEMBER 29, 1925****SUNDAY, NOVEMBER 29—**

- 10:55 a. m. to 12:00 noon—Services by wire telephony from St. Stephens Pro-Cathedral.  
7:55 to 9:00 p. m.—Services by wire telephony from First Church of Christ, Scientist.

**MONDAY, NOVEMBER 30—**

- 6:00 to 7:00 p. m.—Dinner concert, courtesy Olds, Worthman & King.  
9:00 to 10:00 p. m.—Concert.

**TUESDAY, DECEMBER 1—**

- 6:00 to 7:00 p. m.—Dinner concert, courtesy Olds, Worthman & King.  
7:45 to 8:00 p. m.—Talk, Oregon Bankers' Association.  
8:00 to 10:00 p. m.—Educational program. Talk, "Sound Investments," courtesy George H. Burr. Conrad & Broom, Auction Bridge Lessons. "Style" Talk, by the Sage of Yamhill County, courtesy of Charles F. Berg. Music by McElroy Quartette.  
10:00 to 12:00 p. m.—Concert. Dance music by wire telephony from Indian Grill of Multnomah Hotel.

**WEDNESDAY, DECEMBER 2—**

- 6:00 to 7:00 p. m.—Dinner concert, courtesy Olds, Worthman & King.  
8:00 to 9:00 p. m.—Band concert, Seventh U. S. Infantry Band.  
10:00 to 11:00 p. m.—Concert from Sherman, Clay & Co. Studio.

**THURSDAY, DECEMBER 3—**

- 2:30 p. m.—Football game by direct Western Union wire from Seattle, Washington. University of Oregon vs. University of Washington.  
6:00 to 7:00 p. m.—Dinner concert, courtesy Olds, Worthman & King.  
7:45 to 8:00 p. m.—Lecture, Catholic Truth Society. Silent after 8:00 p. m.

**FRIDAY, DECEMBER 4—**

- 6:00 to 7:00 p. m.—Dinner concert, courtesy Olds, Worthman & King.  
9:00 to 10:30 p. m.—Concert from Sherman, Clay & Company Studio.  
10:30 to 12:00 midnight—Hoot Owls.

**SATURDAY, DECEMBER 5—**

- 6:00 to 7:00 p. m.—Dinner concert, courtesy Olds, Worthman & King.  
9:00 to 12:00 p. m.—Dance music by wire telephony from Indian Grill of Multnomah Hotel.

# MICRO-TUNER

IS GUARANTEED TO GIVE YOU

**SELECTIVITY AND IMPROVED RECEPTION**

*"Only One Station at a Time"*

(LOCAL OR DISTANT)

Ask Your Dealer, or

**FORREST MANUFACTURING CO.**

3560 Dover St.

OLympia 4464

Los Angeles, Cal.

## SALESMEN WANTED

*We need a few high grade Radio Salesmen familiar with the Radio Corporation of America products. A permanent position. Must have own transportation and not afraid to dig up prospects. Commission basis to start. A real opportunity for right parties to have permanent position with a national organization. Call between 9 and 11 or 2 and 4,*

**EASTMAN KODAK STORES, Inc.**

510 So. Broadway, Los Angeles

## K O A—Rocky Mountain Broadcasting Station

322.4 METERS—830 KILOCYCLES—2000 WATTS  
GENERAL ELECTRIC COMPANY, DENVER, COLORADO  
Pacific Standard Time

### DAILY EXCEPT THURSDAY, SATURDAY AND SUNDAY—

- 11:45 a. m.—Weather, stock, market and produce reports.
- 12:15 p. m.—Rialto Theatre music.
- 3:15 p. m.—Relaxing and corrective exercises.
- 3:30 p. m.—Matinee for housewives.
- 4:00 p. m.—Culinary hints.
- 4:15 p. m.—Fashion Review.
- 6:00 p. m.—Stock reports and news bulletin.

### WEEK COMMENCING SUNDAY, NOVEMBER 29, 1925

#### SUNDAY, NOVEMBER 29—

- 10:00 a. m.—Service of Augustana Lutheran Church, Denver.
- 2:00 p. m.—Afternoon music hour: Thanksgiving program featuring Highlander Boys' First band, John S. Leick, director, Denver municipal auditorium.
- 6:30 p. m.—Service of Augustana Lutheran Church, Denver: Young People's rally of all Lutheran Churches, Denver.

#### MONDAY, NOVEMBER 30—

- 10:45 a. m.—Weather; road reports; stocks, markets; livestock and produce.
- 11:15 p. m.—Rialto Theater musicale.
- 5:00 p. m.—Stocks; markets; livestock; produce and news bulletins.
- 5:30 p. m.—Dinner concert, Brown Palace String Orchestra, Howard Tillotson director.
- 6:30 p. m.—Sandman's hour.
- 7:00 p. m.—Studio program, courtesy Hattie Louise Sims vocal studios, featuring a wide variety of solos and duets. Artists taking part will be Pearl Grace, Mrs. Harry E. Belamy, Mrs. Maria Louisa Burns, Mrs. Anna Bliss Odium, Mrs. L. O. Scott and Mrs. Hannah Berry, sopranos; Bert Dueringer and Richard Hynes, tenors.

#### TUESDAY, DECEMBER 1—

- 3:00 p. m.—Culinary hints.
- 5:30 p. m.—Dinner concert, Brown Palace String Orchestra, Howard Tillotson director.
- 6:30 p. m.—News-Times concert. Silent Night.

#### WEDNESDAY, DECEMBER 2—

- 5:30 p. m.—Dinner concert, Brown Palace String Orchestra, Howard Tillotson director.
- 6:30 p. m.—Book of Knowledge.
- 7:00 p. m.—Studio program: Part one, miscellaneous presentation of instrumental selections by the KOA Orchestra; harp solos by Frances Cornwall and piano solos by Edna May Crothers. Also there will be a KOA book chat, and a short talk, "Insurance for Women," by Vena Allen Bryan. Members of the choir of First United Presbyterian Church, Denver, will present the cantata, "A Joyful Thanksgiving," during the second part of the program. This will be given under direction of Erle E. Faber.
- 9:00 p. m.—Dance program, Harmony Peerless Orchestra, Colburn Hotel, Denver.

#### THURSDAY, DECEMBER 3—

- 9:30 a. m.—Thanksgiving Day. Public Thanksgiving service, speakers and appropriate music, Denver municipal auditorium.
- 5:30 p. m.—Dinner concert, Brown Palace String Orchestra, Howard Tillotson director.
- 6:00 p. m.—Football finals.
- 6:30 p. m.—Farm question box. Silent Night.

#### FRIDAY, DECEMBER 4—

- 3:30 p. m.—Dinner concert, Brown Palace String Orchestra, Howard Tillotson director.
- 6:30 p. m.—Preview of International Sunday school lesson.
- 7:00 p. m.—Studio program, featuring Central Christian quartet; Bertha van Norman Jones, humorous readings; Mrs. Lloyd C. Fulenwider, contralto solos; Mrs. Edith K. Rindquest and Mrs. Thos. P. Campbell, piano duet numbers and the KOA orchestra in classical selections. Another feature will be a KOA book chat.

#### SATURDAY, DECEMBER 5—

- 10:45 a. m.—Weather road reports; stocks; markets; livestock and produce.
- 6:00 p. m.—Football finals.
- 8:00 p. m.—Wurtzbach's Orchestra, Best Cafeteria, Denver.
- 11:15 p. m.—Rialto Theater musicale.

## The New Radiola 8 Tube Super Heterodyne

*Wonderful distance guaranteed*

Phone for Home Demonstration

Small down payment—Easy terms—Liberal allowance for your old radio.

Expert Radio Service—Aerial Installations Our Specialty

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Los Angeles, Calif.

**K F W A—Browning Bros. Co.—261 Meters**

OGDEN, UTAH  
500 WATTS—1150 KILOCYCLES

**DAILY EXCEPT SUNDAY—**

4:45 p. m.—Market reports.

4:00 to 5:00 p. m.—Ogden Radio Dealers' program.

**WEDNESDAY, DECEMBER 2—**

8:00 to 9:00 p. m.—Studio program.

**FRIDAY, DECEMBER 4—**

8:00 to 9:00 p. m.—Musical program presented by the Lion Coal Co. and Ellis Fuel Co.

**SATURDAY, DECEMBER 5—**

8:00 to 11:00 p. m.—Dance music by Olie Reeves and his orchestra, playing at the Berthana Ball Room.

**C F A C—The Calgary Herald—435.8 Meters**

2000 WATTS—CALGARY, CANADA—688 KILOCYCLES  
FRED CARLETON, Announcer

**DAILY EXCEPT SUNDAY—**

12:00 noon—United Grain Growers' program.

12:15 p. m.—Grain and cattle markets and weather reports.

**MONDAY, NOVEMBER 30—**

7:00 to 8:00 p. m.—Dean Bros. of Dean's Music House.

**TUESDAY, DECEMBER 1—**

7:00 to 8:00 p. m.—Ladies' Concert Trio, under the direction of Gladys Webb Foster.

**WEDNESDAY, DECEMBER 3—**

3:00 p. m.—Red Cross address.

7:00 to 8:00 p. m.—Studio program arranged by Alice Thurston.

**THURSDAY, DECEMBER 3—**

6:00 p. m.—Bedtime story by the Radio Lady.

8:00 to 10:00 p. m.—Canadian National Railways program. Andy Davison, tenor; Mrs. E. L. Tucker, pianist; assisted by the C. N. R. Orchestra.

**FRIDAY, DECEMBER 4—**

6:00 to 7:00 p. m.—Salon broadcast under the direction of Gladys Webb Foster.

**SATURDAY, DECEMBER 5—**

11:00 a. m.—United Grain Growers' program.

12:00 noon—Grain and cattle markets and old country football results.

**\$45****Model 5****\$45****“The Batteryless Receiver”**

Operates entirely on light circuit, with A and B  
Battery Eliminators

Tone quality equal to any battery operated set.  
Extreme selectivity with single dial control and  
more volume than you can use.

Set complete and ready to operate (less speaker), in  
genuine mahogany cabinet with 7x18 Bakelite panel—

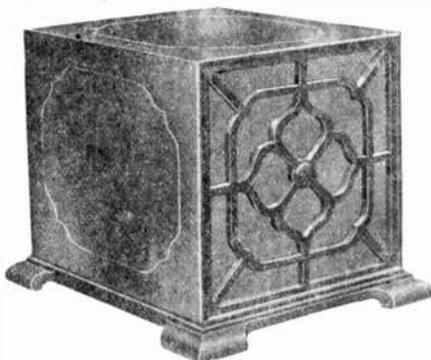
**\$45****PENNELL RADIO CO.**

804 South Vermont Ave.  
Tel. Filtzroy 1532 Los Angeles

**\$45**

*"Speaking of Speakers"*  
**THE A-1 RADIO REPRODUCER**

Patent Pending



At last a cabinet speaker that has all the volume of a horn type speaker, with none of the hollow and metallic sounds so often found in other horn and cabinet speakers.

PRICE: \$22.50 at your Dealer's. If your Dealer cannot supply, send us his name and \$22.50 and speaker will be sent upon receipt of same.

**A-1 WOODWORKING CO.**

1338-1342 San Julian St.

Los Angeles, Cal.

WHAT  
**PITTS—**  
**Underground Antenna**  
**WILL DO**

- 1—It eliminates static formerly picked up by an outside antenna.
- 2—It greatly improves tone quality.
- 3—It greatly increases selectivity of your set.
- 4—It does away with the unsightly outside aerial.
- 5—It eliminates fire and lightning hazard of outside antenna.
- 6—It works equally well in all directions.
- 7—It enables you to get distance clearly.
- 8—It is easy to install.
- 9—It gives adequate volume.

Call us or phone for installation of Pitts Underground Antenna. We guarantee perfect installation, the factory guarantees the device. All prices C. O. D.

Price completely installed.....\$12.50  
 Price delivered without installation..... 10.00  
 Price installed with lead covered lead-in and counterpoise. 17.50

**ANTENNA SERVICE COMPANY**

Phone GRanite 8744 for Immediate Service

Prompt Mail Order Service to Any Address. Enclose Check or Request C. O. D. Delivery

## The Why of Radio—Continued

(Continued from Page 21)

a definite speed of the wheel each train of light waves which pass through the open spaces in the wheel at F outward bound, will be obstructed by a tooth on the return trip and therefore no light will be seen at E. This speed is accurately determined in the experiment, and from the figures of the number of teeth, speed of the wheel, and distance from F to M, it is a simple mathematical problem to calculate the speed of light.

For example, Fizeau found that with a wheel of 720 teeth and hence 1440 equal divisions, his eclipse of the light occurred at 12.6 revolutions per second. Therefore, a space was replaced by a tooth in 1-18144 part of a second. Measuring his distance from F to M and back again, and multiplying this by 18,144 he arrived at a result of 300,400,000 meters per second as the speed of light.

Michelson and Newcomb used a more complicated and more accurate method, and determined a speed of 299,860,000 meters, plus or minus 30,000 meters. For all general purposes 300,000,000 meters is used as the speed of light.

Now since radio waves are in the ether, they have the same speed as light, since all waves in a common medium travel at the same speed, regardless of frequency of vibration or wave-length. The fact that radio waves are of a different frequency than light makes no difference in the speed.

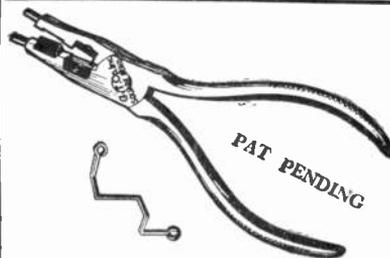
This latter fact is true of ordinary sound waves in air, the bass drum sounds traveling with the same speed as the high notes of a violin. Sound waves in air travel at about 1100 feet per second, which is exceedingly slow in comparison to ether waves, and therefore very easy of measurement. Strange as it may seem, when you are listening to an artist in a distant broadcasting studio, you are hearing each note sung or played BEFORE the people actually in that studio hear it! For while sound is travel-

ling but a few feet, the speeding ether waves have covered a thousand miles!

An interesting example of the production and transmission of sound waves in air on a gigantic scale occurred in 1883 when the Krakatoa eruption culminated in an explosion so terrific that it was clearly audible for 2000 miles, but more than that effected barometers throughout the world to such an extent that half way round the earth from Krakatoa the barometers indicated the air waves 18 hours later, showing a speed of 700 miles per hour. The waves continued, three more complete circles of the earth being recorded every 36 hours. Therefore, the sound waves produced by the terrific eruption lasted for 126 hours and travelled more than 88,000 miles.

Next week—REGENERATION.

### SQUARE BEND PLIERS



### SET BUILDERS

DID YOU ever notice in a magazine, a picture of the back of a set? All nice and neat and square? Looks trim and business-like.

WELL—You can wire and rewire a set as often as you want to and get the same effect. Takes less time—less cussing—less wire—less mistakes and you get a lot more fun out of it.

The fact is, like one user says: "They do everything but read the diagram."

The pliers are made of drop forged steel. Have round tips for just the sizes of loops you want—Automatic forming die bends 45° or 90° angles—Cutter in proper position—Knurled handles—fully machined—Highly polished—Guaranteed. They fill a long-felt want for Radio Experimenters.

Ask your dealer to show you a pair. If he can't supply them, order direct from factory. \$1.75 Postpaid. Here is a fine Christmas present for your boy.

**GENERAL TOOL CO.**

6430 E. 14th St. Oakland, Cal.

Dealers write for proposition



# A BATTERY CHARGER

*That Keeps Batteries Fit Without Any Extra Work For You*

Here is a Battery Charger that is as convenient to use as any modern electrical household appliance. As simple, safe and easy to use as an electric iron—connect to the electric light socket, slip on the battery terminals and turn the switch—nothing more!

Nothing to get out of order—no liquids to replenish—no lamps to replace—no confusing array of terminals.

The Model 19 Rectifier charges either A or B battery. When charging the B battery there is absolutely no drain on the A battery. The charging rate for either A or B battery is conducted at a safe rate, as shown by the combination meter.

Made in open and closed models for A battery charging; and combination types for A and B batteries.

Prices \$17.50 to \$26.50.

Manufactured by

**The Sterling Manufacturing Co.**  
Cleveland, Ohio

Jobbing Representatives

**DETSCH & COMPANY**  
3217 South Figueroa Street  
Los Angeles, California

# Sterling

**RECTIFIER**

*The Little Service Station  
in Your Home*



# The Ideal Gift

Is the AUTOMATIC RADIO LOG CHART. Every Radio fan wants one. It is the simplest, most complete and compact Radio log ever manufactured.

Measures 8 inches in diameter, handsomely finished in two colors, adds pleasure and charm to any radio set.

There is no better Radio Log Chart at any price.

**SPECIAL PRICE UNTIL  
XMAS**

**One Chart    Two Charts**  
**\$1.00            \$1.50**

Postage paid to any address.  
Order Early—Do It Today.

**PACIFIC RADIO MFG. CO.**

8-10 Centralia Bank Bldg.,  
Centralia, Washington

Pacific Radio Mfg. Co.	RD
8-10 Centralia Bank Bldg.,	
Centralia, Wash.	
Gentlemen—Enclosed is \$.....	
Send..... Automatic Radio Log Charts to	
Name .....	
Street .....	
City..... State.....	

## Trade Notes

C. C. Longevan, Pacific Coast representative of the General Radio Co., announces several new items now ready for delivery from this company. Mr. Longevan is now visiting the trade in Los Angeles.

Retail Radio Dealers of So. California are being asked by Secy. Glass of the Pacific Retail Radio Dealers Association if it is advisable to compile a value sheet on used radios, the same to be used as a basis where "trade-ins" are necessary in making sale of new sets.

"Accurate trade-in values of used radio sets is hardly possible, but it will give something 'to shoot at'—per se the automotive trade—and, in a measure, valuable.

"We sincerely trust every Retail Radio Dealer in the territory will voice his sentiments on this matter, and shoot a letter or postal contributing same."

All mail should be addressed to J. D. Glass, Secy., 318 Union Oil Building, Los Angeles, Calif.

The largest addition to membership since the formation of the Pacific Retail Radio Dealers Association, last June, was for the week closing November 21 when 47 dealers were added to the honor roster.

The determination of the Executive Board of the P. R. R. D. not to cease the

vigor of the campaign until 80%, or more, of the 600 Retail Radio Dealers in So. California are enrolled, has significance.

Ernest Walker Sawyer has moved his office from the Chapman Building to 1915 Santa Fe Avenue, Los Angeles.

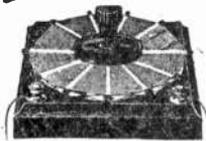
Sawyer last year was vice-president and general manager of Electrad and previously was well known for his activities in the formation of the Chas. Freshman Company and others.

The latest development known as Pitts Underground Antenna is now being successfully put on the market in the Los Angeles district. Sawyer is factory representative on this device which is being manufactured by the Osborne-Kelsey Company of Los Angeles.

During 1925, Radio in Sweden has progressed at an exceedingly rapid rate. The number of official licenses for receiving sets granted in Sweden on January of this year was 39,800. This, by August 1, had jumped to 102,500. During July the increase was over 3,100.

Canada led in radio imports from the United States in September, taking \$411,321 worth of radio apparatus out of total exports aggregating \$785,337. Canada's imports were over twice the value of her August imports.

### Steinite LOW LOSS Interference Eliminator



Assembled complete; attach to aerial in two minutes. No tools. Doesn't disturb present log. No additional tubes or batteries.

50,000 Sold First 8 Weeks. No Radio Set Complete Without It.

**\$1** Better reception or your money refunded. Bank guarantee.

NOTICE—If your dealer cannot supply you, send a One Dollar Bill direct and we will send Eliminator prepaid.

### Select Station at Will

Cut out interference and undesired stations. Tune in loud and clear. Results amazing with any make tube or crystal set using any kind of aerial except loop antenna.

### Absorbs Static—Increases Volume

You can now enjoy real reception—get the station you want—do away with interference.

**STEINITE LABORATORIES**  
814 S. Olive St., Los Angeles, Calif.  
Phone TUcker 7262

## Out of the Air

KNX, "The Voice of Hollywood," will broadcast play-by-play the following schedule of the University of Southern California, playing in the huge bowl of the Los Angeles Coliseum:

Nov. 28—Washington vs. U. S. C.

Dec. 5—Oregon Aggies vs. U. S. C.

Dec. 12—St. Marys vs. U. S. C.

The big East vs. West inter-sectional game held annually in the Pasadena Rose Bowl on New Year's day will also be broadcast.

6XA, a 100-watt mobile transmitter licensed to broadcast on 110 meters, goes direct to the field where Loyal Underwood of the KNX staff broadcasts the plays as they are made. The signals from 6XA are picked up in the KNX studio and rebroadcast on 337 meters.

Radio listeners of the west will have their first opportunity of hearing another world-famous artist on Sunday, December 6, when Toscha Seidel, violinist, appears before the microphones of KPO, San Francisco, Calif.

He will be assisted in his broadcast by Arthur Looser, pianist.

The broadcast will be on the air from 9 to 10 p. m., Pacific time, and is expected to be the forerunner of similar appearances of famous musical stars in the west during the winter.

More than 550,000 farms in the United States are now equipped with Radio, the department of agriculture estimates, following a nation-wide survey through county agricultural agents. A similar survey last year showed 365,000 farms on which there were sets, and in 1923 only 145,000 farms.

WGY's 379.5-meter wave will carry another exceptional musical treat to the listeners, Saturday evenings during the winter. The Philharmonic Society's student concerts will be broadcast by WGY in co-operation with WJZ of New York on the following dates: November 28, December 19, January 2 and 30, February 6 and 13, March 20 and 27, and April 3.

To find the positive and negative posts on a storage battery, dip the wires in a diluted solution of salt in water. The most bubbles will form on the wire attached to the negative terminal of the battery.

An hour and a half of music, Tuesday night, December 1, between 8 and 9:30 o'clock, will be broadcast by the KGO Little Symphony Orchestra, under the baton of Carl Rhodehamel. Three guest artists will assist the orchestra: Arthur S. Garbett, musical interpretative writer; Ruth Waterman, contralto; and Josephine Holub, violinist.

### WE FIX 'EM OR NO CHARGE

We can make your Remler Super Het just twice as sharp tuning as it is at present. Are you playing IOWA, ILLINOIS AND CANADIAN STATIONS on your REMLER SILVER MARSHALL SUPER OR RADIOLA SUPER HET? If not see us. We will guarantee you these stations or NO LABOR CHARGE.

### PALMER RADIO LABORATORY

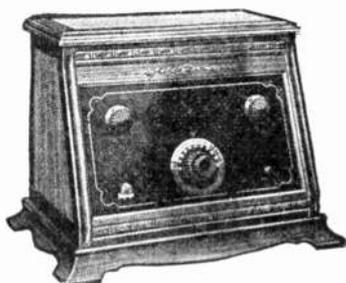
Open Evenings Till 9 O'clock Except Saturday and Sunday.

4529 So. Vermont Ave. VERmont 7883.

Los Angeles, Calif.

# Announcement

We are very glad to announce that we have resumed the distribution of the MOHAWK 5-tube Radio Receiver. The Zinke Sales Co. of Chicago has entire charge of sales in the U. S. and Canada, and we are pleased to say that an entirely new National sales policy has been established.



## MOHAWK MODEL 100

5 tubes. Just one dial to tune. Retail price, without accessories, \$100.

## Mohawk Console Model 110

Retail price, without accessories, \$175.00

## MOHAWK CONSOLE MODEL 115

Retail price, without accessories, \$225.00

Mohawk Portable Set with Loop, without accessories, \$135.00



# COOK-NICHOLS CO.

411 S. San Pedro Street

Los Angeles, Calif.

FABer 4487 — TUCKer 6659

PASADENA  
Fair Oaks 1578

LONG BEACH  
657-129

**EVEREADY HOUR  
EVERY TUESDAY  
AT 9 P. M.**

*Eastern Standard Time*  
For real radio enjoyment tune in the "Eveready Group," Broadcast through stations—

- WEAF New York
- WJAR Providence
- WEEL Boston
- WFR Philadelphia
- WGR Buffalo
- WCAE Pittsburgh
- WSAI Cincinnati
- WWJ Detroit
- WCCO { Minneapolis
- { St. Paul
- WOC Davenport
- WCTS Worcester

# ALWAYS RELIABLE

EVEREADY Radio Batteries are always uniform and reliable! Evereadys perform the same, everywhere, for everybody, needing no skill, calling for no experimentation, wasting no time, saving you money. Trouble-proof, wonderful Evereadys. There is an Eveready dealer nearby.

*Manufactured and guaranteed by*

NATIONAL CARBON CO., Inc.  
New York San Francisco  
Canadian National Carbon Co., Limited  
Toronto, Ontario

# EVEREADY Radio Batteries

*— they last longer*



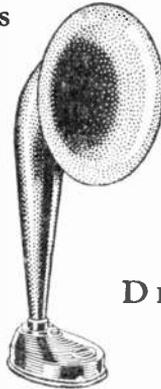
*Eveready  
Columbia  
Ignitor  
"A"  
Battery,  
the  
proven  
dry cell  
for all  
radio  
dry cell  
tubes  
1½ volts*

*No. 766  
22½-volt  
Large  
Horizontal  
Price  
\$2.00*



*No. 486  
45-volt  
Layerbilt  
Extra-  
Large  
Vertical  
Price  
\$5.50*

... **W**HEN attaching a DICTOGRAND Loud Speaker to your radio set, you can turn back your rheostat, save your battery current and not overload your tubes ... Yet the volume will be sweeter and more pleasing.



At good  
DEALERS

Just try a  
DICTOGRAND

A / DICTOGRAPH / PRODUCT

MARSHANK SALES COMPANY

926 Insurance Exchange Bldg., Los Angeles, Calif.; 1217 Hearst Bldg., San Francisco, Calif.

*"You Might as Well  
Have the Best"*

# Marathon Long Distance Tube

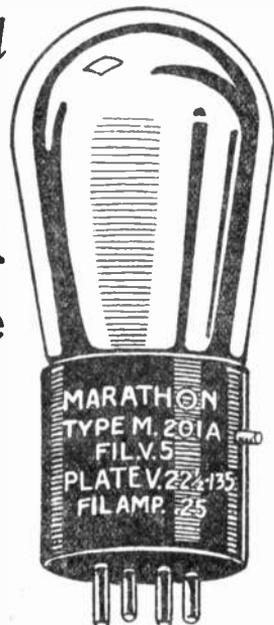
You can pick Marathons from a case at random and you will have a set of Matched Tubes.

*Distributed in Los Angeles by*

Union Hardware & Metal Co.  
Reiman Wholesale Electric Co.  
C. W. Smith Co.

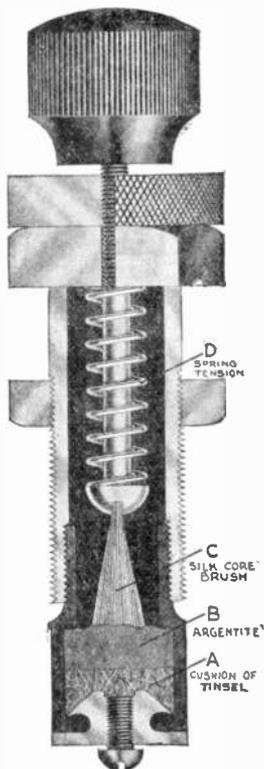
California Wholesale Electric Co.  
413 E. 11th St., Los Angeles

Northern Mfg. Co., Newark, N. J.  
Makers



*Both Types*

# Thousands of owners declare it "the best"



THOUSANDS of satisfied owners of Harkness Reflex Sets, Acme-four-tube sets, Premier sets and *all other types* of Reflex sets have written us, expressing their surprise and delight with the efficiency of the

## G&S Silk Core—crystal DETECTOR

Every one reports sharper tuning—greater volume—improved clarity—sweeter tone. The answer lies in forty points of contact on the Argentite as against a single cat-whisker—with special brush adjustment that works. Burn-out of crystal is impossible.

Get one today. It's unconditionally guaranteed. \$1.50 at your dealers. *Not sold by mail.*

Manufactured by  
G&S RADIO RESEARCH LABORATORY  
1269 Cochran Avenue · Los Angeles

*Marketed Nationally through Jobbers by*

**BAKER-SMITH CO. Inc.**  
NEW CALL BUILDING · SAN FRANCISCO

*Branch Office Addresses*

New York City, 1270 Broadway	Chicago, 30 N. Dearborn Street
Los Angeles, 443 S. San Pedro Street	
Denver, McClintock Building	Salt Lake City, Atlas Building
Vancouver, B. C., 179 Pender Street, West	
Portland, Ore., Henry Building	Seattle, I. C. Smith Building

Tested and approved by  
**Radio News Laboratories.**  
Test it!

**Guaranteed!**  
Money back, without quibble, if not satisfied.  
Try it!

**B** U Y A B R A N T **B** S U R E I T ' S A B R A N T **B**

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# There Is No Substitute For Pure Direct Current

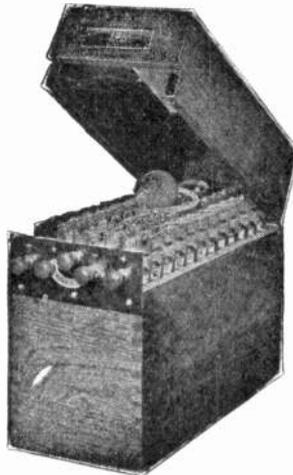
A Constant, Even Flow CANNOT Be  
Produced Without the Use of  
GOOD STORAGE BATTERIES

## The Brant B Battery

**\$26<sup>00</sup>**

**\$26<sup>00</sup>**

100 Volts  
In  
One  
Compact  
Unit



Guaranteed  
TWO  
YEARS

*As Good as It Looks  
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**BRANT BATTERY CO.**

Phone BEacon 0899

1622 W. 16th St., Los Angeles

**B** G L A D T O G I V E Y O U T R I A L

**B** E C O N O M I C A L G E T I T N O W

**B** C O N V I N C E D W I T H **B** R A N T T R I A L O F F E R **B**

# For Christmas... WILLARD RADIO Batteries



You'll make him glad with a Willard 'A' or 'B' Battery for his set. There's a complete line to pick from . . . . at attractive prices. Willard Batteries last for years . . . . they end frequent battery buying.

See the Willard WTAM, . . . a new 'B' battery in mahogany-finished case. Also other 'B' batteries at lower prices.

## All These Dealers Sell Willard Batteries

LOS ANGELES—Western Auto Electric Co., any Radio Jobber or Dealer, or any Willard Service Station.

### SAN DIEGO—

Western Auto Electric Co.

ALHAMBRA —  
Alhambra Auto Elec. Co.  
ANAHEIM —  
Anaheim Willard & Elec.  
BURBANK —  
John Null  
GARDENA —  
Gardena Bat. & Ignition  
GLENDALE —  
E. W. Cizek Co.

### SAN FRANCISCO—

Julius Brunton & Sons Co.

LONG BEACH —  
A. C. Walker  
MONROVIA —  
Emil Lindstrand  
ONTARIO — J. Tobey  
ORANGE —  
Orange Ignition Works  
PASADENA — F. W. Birnie  
RIVERSIDE —  
Mission Auto Elec. Co.

SANTA ANA, FULLERTON—  
Orange County Ign. Wks.  
SAN BERNARDINO —  
G. H. Stickel  
SANTA MONICA —  
Guy Hammond  
UPLAND —  
Upland Battery & Ignition  
WHITTIER —  
Whittier Auto Electric Co.



Marwol Jewel—\$39.50

## High Quality—Low Price

MARWOL Jewel offers the greatest dollar for dollar value in Radio today. Only high quality parts have been used in this refined and improved five-tube circuit.

There is a MARWOL Receiver to fit every purse, ranging from the MARWOL Baby Grand at \$36.50 to the MARWOL Console Grand with inclosed loud speaker and space for all batteries and charger, at \$130.

Investigate MARWOL today. It's the big opportunity of the radio season.

*You can't go wrong with the MARWOL Line!*

# MARWOL

RADIO CORPORATION

546-548 Broadway, New York

*Pacific Coast Representatives*

**MARSHANK SALES COMPANY**

926 Insurance Exchange Bldg.  
Los Angeles, Calif.

1217 Hearst Bldg.  
San Francisco, Calif.

## New York Precision Mica Fixed Condensers

form standard equipment with leading set manufacturers who know their use insures maximum volume, freedom from noise, natural undistorted musical quality and extreme DX reception.



Capacity is uniform and unchanging, regardless of operating conditions—YET THE PRICE IS PROBABLY LESS than you are now paying.

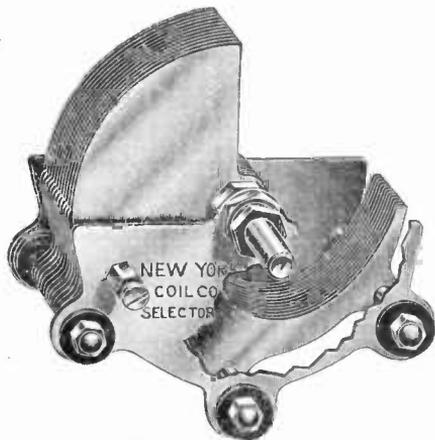
## Our New Process Midget By-Pass Condensers

affect a great saving when capacities run larger than .005. They are especially designed for By-Pass work and are **guaranteed** to be free from leakage, break-down and trouble of all kinds. Extremely small (1-inch square by 1/4-inch thick), and made in capacities of .005 to .1 MF.



## Our Selector STRAIGHT LINE FREQUENCY Variable Condensers

spreads stations evenly—without crowding at any point—over the entire dial. Leading radio engineers have—and you will—acclaim it superlative in **LOW PRICE, EFFICIENCY** and **APPEARANCE**.



List prices: .00025, \$2.75;  
.00035, \$3.10; .0005, \$3.50.

**NEW YORK COIL CO.,**

338 Pearl St., New York, N. Y.

Pacific Coast Representative:

**MARSHANK SALES CO.,**

926 Ins. Exch. Bldg., Los Angeles, Cal.

1217 Hearst Bldg., San Francisco, Cal.

# Radio Service Directory

The firms listed herein are recognized Radio Dealers, and in addition to carrying Receiving Sets and Parts, are equipped to render any form of radio service. They are pledged to give guaranteed service and charge reasonable rates.

**RADIO DOINGS.**

## ALHAMBRA, CALIF.

ALHAMBRA RADIO ELECT. CO.,  
1855 West Main St. Phone 2366.  
Open Evenings Until 9 O'clock.

LE ROY RADIO LABORATORIES,  
15 N. Garfield Ave. Ph. 1179. Radi-  
olas and Le Roy Sets. Evenings.

## BAKERSFIELD, CALIF.

JIM BAKER, "ELECTRIFIER," 1009  
Baker St. Phone 528. Everything  
in Radio. Consult Us.

## BELLINGHAM, WASH.

BELLINGHAM RADIO SHOP, 109  
Prospect St. Phone 143. Belling-  
ham, Wash., near City Hall. "Bel-  
lingham's Oldest Radio Store."

## BURBANK, CALIF.

PETERSON ELECTRIC-RADIO, 244  
E. San Fernando Blvd. Phone Bur-  
bank 35W. Open Nights.

## COMPTON, CALIF.

COMPTON ELECTRIC CO., 150 E.  
Main. Phone 1332. Radio and Sup-  
plies. Evenings.

MODEL ELECTRIC—"NYGAARD,"  
135 E. Main. Phone 1194. Every-  
thing in Radio. Open Evenings.

## GLENDALE, CALIF.

BROADWAY ELECTRIC, 202 E.  
Bdwy. Stewart-Warner and Day-  
Fan Radio Service. Glen. 3064.

BUDWIG RADIO COMPANY, Brand  
at Wilson. Radiola, Grebe, Crosley.  
Evenings. Glendale 1801.

## INGLEWOOD, CALIF.

O-K RADIO SHOP, 105 No. Com-  
mercial. Inglewood 313-J. Every-  
thing in Radio. Open Nights.

RELIABLE RADIO SALES AND  
SERVICE CO., Radio Specialists.  
Inglewood 993. Open Eves. 114 N.  
Market.

## LONG BEACH, CALIF.

"RADIOFAN," W. D. WHALLEY,  
1434 East 7th St. Phone 658-361.  
Open Nights. Sets and Supplies.

RELIABLE RADIO SHOP, 208 E.  
4th. Phone 636-450. "We Solve  
Your Radio Problems."

## LOS ANGELES, CALIF.

CHILDS & CLINE RADIO SHOP,  
1187 W. 24th St., Ph. BEacon 7445.  
Everything in Radio. Open Nights.

FORUM MUSIC CO., Pico and Nor-  
ton. Phone EMpire 6461. Sets,  
Parts, Repairs. Open Nights.

JENKINS RADIO STORE, 8450-52  
S. Moneta. Phone THornwall 4460.  
Sets, Parts, Repairs. Open Nights.



MONARCH RADIO CO., 2189 W.  
Washington. EMpire 3268. Open  
Nights Until 9 O'clock.

SMITH-KARLSON CORP., 2758  
Whittier Blvd. Ph. ANgelus 8220.  
Foremost in Radio Sets and Service.

SUPER RADIO SHOP, 2507 W.  
Slauson Ave. Ph. VERmont 6493.  
Sets, Supplies, Service. Open Nights.

TIVOLI RADIO SHOP, 4204 Cen-  
tral Ave. Ph. HUmbolt 2449. Open  
Nights. Service, Sets, Rebuilding.

## HOLLYWOOD DISTRICT

H. D. HATFIELD & SON, 1762  
Vermont Ave. Ph. OLYmpia 5220.  
Sales and Service. Open Evenings.

NORMANDIE RADIO SHOP, 5069  
Hollywood Blvd. Phone 597-673.  
Open Nights. Service and Supplies.

## WILSHIRE DISTRICT

BIMINI ELECTRIC & RADIO, 109  
So. Vermont. Phone DRexel 2990.  
Electric & Radio Service. Evenings.

**LOS ANGELES, CALIF.—Cont.**

HARDING & GOODAN, INC., 150 No. Larchmont Blvd. "Radio That Satisfies." HOLLY 5085. Open Nights.

WILSHIRE RADIO CO., 3867 W. 6th St. Phone WASHINGTON 8873. Delivery Service. Open Evenings.

WOLFE RADIO COMPANY, 543 S. Western. Ph. WA. 5711. Open Evenings. Radiolas—Supplies.

**OCEAN PARK, CALIF.**

OCEAN PARK RADIO-ELECTRIC, 122 Marine St. Phone 61407. Radios and Supplies. Open Nights.

**PASADENA, CALIF.**

EAST SIDE MOTOR SUPPLIES, 1026 E. Colorado. Colorado 855. Sets and Supplies. Open Nights.

LEE RADIO SHOP, 711 North Lake Ave. Phone Niagara 3506. Open Nights. Everything in Radio.

**SAN PEDRO, CALIF.**

PACIFIC RADIO STORE, 1102 Pacific Ave. Phone 429-W. Open Nights. Sets, Service, Supplies.

**SAWTELLE, CALIF.**

SAWTELLE ELECTRIC CO., 1130 So. Santa Monica Blvd. Ph. 236-58. Open Until 7. The Best in Radio.

**SOUTH PASADENA, CALIF.**

THE RADIO ELECTRIC, 1165 Fair Oaks Ave. Phone Sterling 0269. L. A. phone, ELiot 3397.

**TORRANCE, CALIF.**

DE BRA RADIO CO., Carson at Carbrillo. Phone 73J. "Atwater Kent" Line. Matchless Service.

**VENICE, CALIF.**

VENICE RADIO SHOP, 1227 Washington Blvd. Phone 63544. Every Radio Need. Evenings.

**WHITTIER, CALIF.**

WHITTIER RADIO DEN, 216 E. Philadelphia. Phone W. 14-106. Open Nights. Every Requirement.

**WILMINGTON, CALIF.**

WILMINGTON RADIO SHOP, 716 W. Anaheim St. Phone 209-J. Sets and Supplies. Open Nights.

# PITTS--

## Underground Antenna...

Gives a degree of selectivity, a perfection of tone quality, clarity in distance reception impossible to attain with an outside antenna.

Its selectivity enables one to go through and get such stations as KOA, KSL, KGO, KPO, KGW, KYW, KFON and others without interference while all locals are on the air.

Dealers, call us and arrange for a demonstration of this wonderful, new invention. It is a factory guaranteed product for which there is already a very large public demand.

**A Demonstration Will Convince**

**Price \$10.00 List**

**O. A. HERZOG & COMPANY**

WHOLESALE ONLY

1348 Vine Street

Tel. HO. 1732

Hollywood, Calif.

# Clear, Strong

*that's how  
Gilmore  
comes in*

Once you're tuned in on Gilmore and have enjoyed the clear, strong, natural power—you'll make it your favorite station.

There are good "quality reasons" behind Gilmore's increasing popularity. You'll notice that Gilmore users are not merely satisfied—they are enthusiastic!

See for yourself the reason for this loyalty. Next time you get the Gilmore station signal—

**TUNE IN!**



## **GILMORE OIL COMPANY**

2423 E. 28th Street

Los Angeles, Calif.

# Good Batteries

*Make a Good Set  
Better . . .*



The Master Ray-O-Vac  
No. 9303.  
Extra capacity, vertical  
type—45V.  
List price, \$4.75



Vertical type—  
22½V.  
List Price, \$2.00

Keep an eye on your batteries —they're the power plant that makes the whole thing go. When static crashes and the air is full of things you do not want to hear, equip your receiver with new RAY-O-VACS, fresh and full powered.

Ray-O-Vacs put your set at its best, and keep it at its best. There is a size and type built to give full service on every type of radio set.

*Equip with Ray-O-Vacs at your local dealer's and note the difference.*

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## **RAY-O-VAC** *Radio's Best Batteries . .*

Mfgd. by FRENCH BATTERY COMPANY, Madison, Wis.

*Also makers of Ray-O-Lite Flashlights and Batteries*

# FEDERAL ORTHO - SONIC



**Model A-10 — \$75.00**

*(Without Accessories)*

*Five Tubes—199's or 201-A's. Balanced tuned radio frequency.  
Federal Standard parts used throughout*

*Go to the nearest Federal Dealer and "LISTEN WITH CLOSED EYES." You'll swing into a new realm of tone reality. You'll join the hundreds of others who say, "THERE'S NOTHING LIKE FEDERAL FOR REALISM."*

**Other Ortho-Sonic Models from \$75.00 - \$350.00**

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*Exclusive Wholesale Distributor*

**YALE RADIO ELECTRIC CO.**

**1111 Wall St.  
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