

RADIO DOINGS

THE RED BOOK OF RADIO

PROGRAMS AND TIME TABLES OF THE LEADING
BROADCAST STATIONS — LATEST RADIO NEWS



\$2⁰⁰ A YEAR

5 CENTS A COPY

NSE

Vol. VI

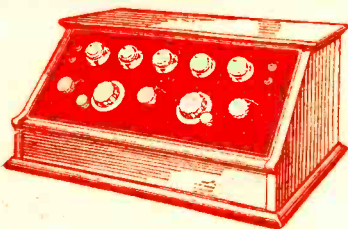
APRIL 5-11, 1925

No. 14

KENNEDY

The Royalty  of Radio

Model
XV
5 Tubes



Price
\$146.00
without
accessories

SHAKE HANDS With Distant Stations

A Kennedy will introduce you to the distant stations you've heard about. It will be a clear, sharp introduction—with no doubt at all as to whom you are listening to.

Any Kennedy dealer will, without obligation, demonstrate this wonderful set in your own home. You'll get a chance to do a little traveling via the air route under your own guidance. It will be a pleasing sensation. If there isn't a dealer near you, communicate with us.

We recommend Burgess Batteries with all Radio Equipment.

KIERULFF & RAVENSCROFT

RADIO EQUIPMENT



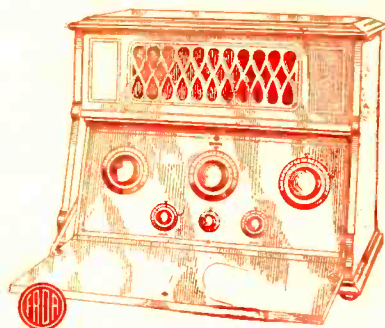
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KENNEDY WHOLESALE DISTRIBUTORS

(37)

FADA



A Complete Line of

NEUTRODYNES

\$75.00 to \$270.00

Tone quality, selectivity, beauty, simplicity; each an individual achievement; each the undisputed leader in its line. A demonstration will prove to you that all are to be found in the reproducer supreme, the Fada Neutrodyne

EXCLUSIVE DEALER PROPOSITIONS

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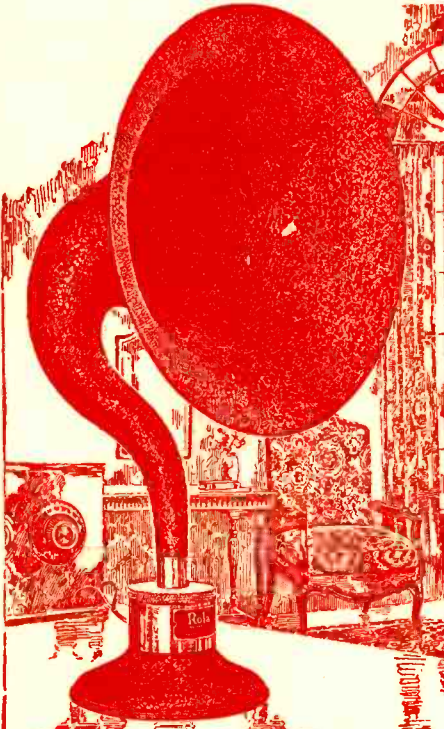
THE ELECTRIC CORPORATION

1050 Santee St.

LOS ANGELES

TRinity 5811

... There is Only ONE ROLA



*This superlative Speaker will add
charm and distinction to any set
—regardless of price or make.*

ROLA

Distributed by

Listenwalter & Gough

SAN FRANCISCO
940 Mission St.
Douglas 2940

INCORPORATED

LOS ANGELES
819 East First St.
TRinity 9711

It is said that imitation is the sincerest form of flattery. If that is true, we may well feel proud of the Rola ReCreator, for there are many who evidently feel that it is to their advantage to imitate it. But—as we said before—there is only one Rola. It can be imitated but never equaled.



Rola ReCreators are sold
in Oxnard by

Newcomb Radio
Co., Inc.

Radio Doings

The Red Book of Radio

Phone TUcher 8468

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LEE FELTSKOL

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Five Cents a Copy

Two Dollars a Year

Vol. VI

Los Angeles, April 4, 1925

No. 14

Wave Lengths Exhausted

RADIO broadcasting in the Sixth District has reached the saturation point. This bit of information was imparted to us by Colonel J. F. Dillon, radio supervisor of the district, who last week visited Los Angeles on his regular inspection tour. In other words, all available wave-lengths or frequencies have been assigned over the entire broadcast band, including both Class A and B. This means that there will be no new broadcast stations until after the next Washington conference of the radio heads, when it is probable that arrangements will be made to widen the band of wave-lengths set aside for broadcast purposes.

New stations can only be licensed under an arrangement of division of time with existing stations. Under this scheme two stations may be licensed to operate on the same wave-length, with a mutually agreeable division of time so that they do not attempt to operate at the same time. In the East recently two stations in the same city were assigned one wave-length, but were unable to come to an understanding as to time, so both went on the air together, and it was a case of the survival of the fittest until Uncle Sam took a hand.

In Los Angeles there are now six large stations,—four of 500 watts output, one of 750, and a super-station which, at present, operates on 1500 watts. In addition, there are several low powered stations on the shorter wave-lengths, and as far as this city is concerned, the owner of the average receiving set will agree with Colonel Dillon that the ether hereabouts is nicely saturated.

All the Year for Two Dollars

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

406 New Call Building, San Francisco
HORWOOD PUBLISHING CO., 500 Van Nuys Building, Los Angeles, California

Enclosed find two dollars for subscription to RADIO DOINGS for one year

Name _____

Address _____

They Cost More . . . But They DO More!

**UNITED STATES SHIP RELIEF
SHIP'S SERVICE**

Listenwalter & Gough, Inc.,
819 East First St.,
Los Angeles, Calif.

Gentlemen:

I want to tell you about the wonderful results we have been getting with our Super Zenith #7.

To fulfill the needs of this, the largest floating hospital in the world, we have 10 Rola loud speakers in use, and expect to have 200 head phone sets connected for bed patients in the near future. The loud speakers are all connected in parallel and located in the various living spaces and wards about the Ship and wired to the Super Zenith located in the Radio Room.

The results are far beyond our expectations. During the recent Fleet Maneuvers, when we were approximately 1500 miles Southwest of Los Angeles we received programs regularly from Chicago Stations, KYW, WEBH, and WQJ, over all ten loud speakers with perfect clearness and volume. We are very proud of the installation and believe it to be the best on the market.

Thanking you very kindly for your hearty co-operation and wishing your company the best of success, I am,

Sincerely,

Scott E. Peck, Lt. U. S. N.
Ship's Service Officer.

Recommended and Sold Throughout California by

Listenwalter & Gough

LOS ANGELES	Incorporated	SAN FRANCISCO
819 East First St.	<i>Exclusive distributors of fine Radio</i>	940 Mission St.
TRinity 9711	<i>and Electrical Equipment</i>	Douglas 2940

Scientific Study of X-Ray Interference Needed

Members of the medical profession belonging to the American Medical Association are hoping to prevent their X-ray machines from interfering with radio broadcast reception. To this end the executive secretary of the association applied to the Department of Commerce for information on methods of shielding electric medical apparatus.

Reviewing the situation, Director Burgess of the Bureau of Standards states in part as follows:

Interference to radio reception caused by electrical apparatus is nearly always due to spark discharges which set up oscillatory currents. The effects of these currents can cause trouble in two ways; they may be radiated into space, or may be carried by means of the electric power wires; and in either case may be picked up by radio receiving sets. Many types of diagnostic and therapeutic electrical apparatus operate on high-voltage direct current obtained by means of mechanical rectifiers in the high-voltage circuit, which method is nearly always accompanied by spark discharges. Other types employ induction coils which have interrupters in the low-voltage lines. Such apparatus is also often equipped with spark gaps to protect the apparatus against surges. In working this kind of equipment, there are many intentional or accidental spark discharges.

In order to prevent the radiation of the effects of the spark discharges into space and along power lines, it is necessary to surround the apparatus with metal screen and bypass the power lines with condensers. The metal screen should be well constructed and grounded, and completely enclose all apparatus producing spark discharges.

Types of apparatus which employ electron tube rectifiers, or which rectify the high voltage without mechanical contacts, probably do not produce interference to radio reception unless there are spark discharges occurring because of faults in the apparatus.

With respect to a scientific investigation of interference, diagnostic and therapeutic apparatus are only one type of potential sources of radio disturbances for which remedies are necessary. The bureau has been deterred from embarking upon the comprehensive study which the situation really demands by the lack of funds requisite to undertaking work additional to the numerous projects in hand. Solutions are gradually being worked out for the difficulties of this type in radio reception, but there is no doubt that such solutions could be greatly expedited by a scientific study of the causes and possible remedies for several types of interference.

In Spain

An unusual situation has arisen in Spain by the many requests of the listeners to have the various operas, or at least entire acts from them, broadcast direct from the theater. The empress has objected to this, claiming that the State will show partiality to some theaters.

DEALERS! ATTENTION!

*The New Marwol Baby Grand 5-Tube,
Tuned Radio Frequency Receiver— \$45.00*

Come in or write us for attractive proposition.

Special: New shipment of TELEVOCAL (bakelite base) tubes, 199 and 201A, now in stock.

We carry full line of Standard equipment, including The MADERA all wood Loud Speaker

HERBERT H. HORNE

WHOLESALE ONLY

1629 S. Hill St.

Phone WEStmore 1713

Los Angeles



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RAYNER
CORPORATION**

**WHOLESALE
DISTRIBUTORS
TO THE
RADIO
TRADE**

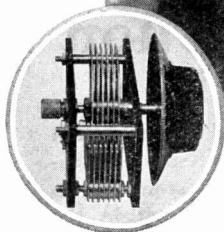
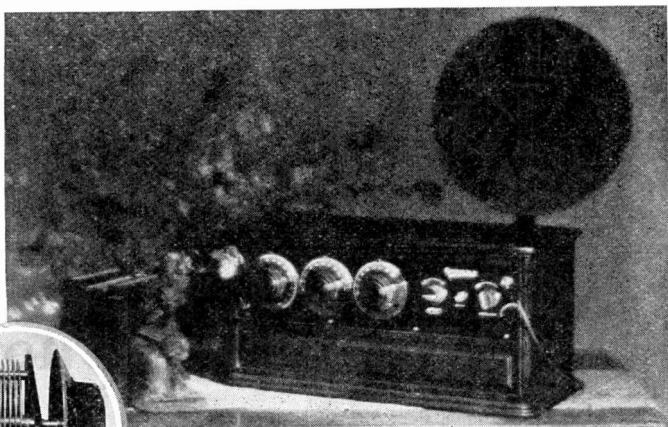
Speed and Accuracy

are our watchwords. With warehouses in Los Angeles and San Francisco, we can make quick deliveries to any point in the state.

Telephone ME. 6470

643 So. Olive St. Los Angeles + 86 Third St. San Francisco

RADIOGRAPH II



In the inset above is the "heart" of the RADIOGRAPH II, a "straight-line" condenser of new and exclusive design. With this condenser, stations of low and high wave lengths—near and far—can be brought in with ease.

3000 Miles Away

from your home on the Pacific Coast . . . across the continent . . . a virtuoso plays the Meditation from Thais.

Rich, vibrant, the singing tones of melody reach you exactly as they are created under the skilled fingers of the violinist at KDKA, the broadcasting station of the Westinghouse Electric Company, Pittsburgh, Pennsylvania!

Now . . . turn out the center light in the room . . . switch on the table lamp, so that a warm glow plays over the beautiful polished mahogany of the RADIOGRAPH II and illuminates the dial . . . settle down for an "Arabian Night's Entertainment"!

The remarkable performance of the RADIOGRAPH II is due to:

- (1) A new exclusive circuit—eliminates the usual detector tube and uses a regular "hard" tube with its superior tone quality.
- (2) A "straight-line" condenser of new design.
- (3) An Antenna Change Switch.

Ask your radio dealer to show you this remarkable set.

Price without Accessories, \$150.00

Dealers will be interested in the merchandising and advertising campaign for the RADIOGRAPH II which will be announced shortly. Get in touch with your distributor.

Northern California Distributors:

SAN FRANCISCO: SLOSS & BRITAIN, FREDERICK H. THOMPSON, ROY B. JONES
OAKLAND: UNION ELECTRIC SUPPLY CO.

Distributed Through the Wholesale Trade Only by the

ED. JONES AGENCIES
NATIONAL DISTRIBUTORS
640 NATOMA ST • SAN FRANCISCO, CALIF.

ATWATER KENT

R A D I O

Eddie Maier says—
"I get Perfect Reception"!



*Atwater Kent
Model 20, Cabinet
Set, \$110.*

*Model L, Loud
Speaker, \$22.50.*

Ed. R. Maier, owner of the Vernon Baseball Club and a Radio enthusiast, said: "My home seems to be located in the worst spot in the world for radio reception, as I have tried at least twenty different sets for distance and the best I could do was to pull in Oakland and Hastings, if I was exceptionally lucky. My Atwater Kent pulls Oakland, San Francisco, Portland, Calgary, Hastings, Salt Lake City, Denver and other stations as far distant as these through local broadcast, clearly and with plenty of volume, making other so-called high-power sets look like ten-dollar crystal sets.

"At my Santa Susana Ranch I very often pulled the five-watt Santa Rosa Station during last summer."

ELECTRIC EQUIPMENT CO.
(Radio Division)
WHOLESALE DISTRIBUTORS
1248 So. Hope St. TRinity 3921

"There is an ATWATER KENT dealer near you"

Radio and Jazz

Many broadcast listeners already bored with the great amount of musical entertainment known popularly as jazz, are scared stiff, of future broadcasts. There is small wonder, when it is realized that there are schools and colleges of popular music advertising that they can teach beginners how to render "radio-jazz" in twenty lessons. Some of these organizations link jazz definitely with radio, asserting that their instructors can teach all the modern tricks and stunts the radio artists use in "breaks and fill-ins" on broadcasting programs. The ads state that they instruct in the operation of saxophones, cornets, ukeleles, violins, drums and practically all instruments, as well as teach syncopation and popular piano playing. A number of radio artists are said to be instructors.

Fans wonder how soon these embryo performers will be turned loose on the air, hoping that broadcast managers will require a test before the tyros are permitted to make the ether worse than it is today.

The Department of Commerce is also linking jazz and radio, claiming that they are aiding commerce. Our exports of radio equipment, as well as phonographs and records, and music and musical instruments, are increasing trade it seems.

Inquiries from abroad during the past week include inquiries on exports of radio to the Canary Islands, Canada and Egypt. Radio equipment is fast becoming an established article of world trade, the Department points out.

This statement is borne out when it is noted that during January radio exports, which totaled \$784,619, went to fifty-seven different countries. Canada led in value of imports with a total for the month of \$358,573, and Mexico was second with \$73,923. Australia, Brazil, Spain, United Kingdom, Argentina and Japan imported over \$25,000 worth each.



The Radio Queen "B" Battery

remarkable in performance and appearance

The growing popularity of this battery is due to

1. *Increased Life* (6 months without recharging).
2. *Increased Power* (every battery tests 50 volts or over at factory).
3. *No "Shorts"* (contacts securely fastened).
4. *Adaptability* (change in voltage from 2 to 48 volts by handy detector clip).
5. *Beautiful Appearance* (fitted in polished *Mahogany Case* with hinged cover of exclusive design).

See one at your radio dealer's today.

Price complete \$22.50.

Distributed through the Wholesale Trade only by the

ED. JONES AGENCIES

NATIONAL DISTRIBUTORS

640 NATOMA ST. • SAN FRANCISCO, CALIF.

Southern California Distributor

UNION HARDWARE & METAL Co., 411 East First St., Los Angeles, Cal.

Nine New Class "A" Broadcasting Stations

Call	Station	Frequency Keys	Wave Lengths Meters	Power Watts
WGBL	Elyria Radio Association (Albert H. Ernst), Elyria, Ohio.....	1320	227	10
WHBS	Edward Wm. Locke, Mechanicsburg, Ohio.....	1440	208.2	10
WSMH	Shattuck Music House, Owosso, Mich..	1250	240	10
WHBQ	St. John's M. E. Church South, Memphis, Tenn.....	1290	233	10
WHAP	H. Alvin Simmons, 290 Flatbush, Ave., Brooklyn, N. Y.....	1250	240	50
WHBR	Scientific Electric & Mfg. Co., 3664 Vine St., Cincinnati, Ohio.....	1390	215.7	20
WLAL	First Christian Church, Tulsa, Okla....	1200	250	150
KFVC	Bensberg's Music Co., Camden, Arkansas	1240	242	10
KFVD	McWhinnie Electric Co., San Pedro, California.....	1460	205.4	50

A NEW CLASS "B" BROADCASTING STATION

KFRU	Ethelred Radio Co., 115 West Sixth St., Bristow, Okla.....	760	394.5	500
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TRANSFERRED FROM CLASS "C" TO CLASS "A"

KLS	Warner Bros.' Radio Supplies Co., 2201 Telegraph Ave., Oakland, Calif.....	1240	242	250
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Radio Electrician—New Navy Grade

A new grade for radiomen in the Navy has been created—radio electrician, formerly gunner, radio. The first examination to be held for appointment to this rank, which is that of a warrant officer, will be held October 19. All enlisted men holding rates as chief radiomen or radiomen first class, who have served a year as such, are eligible. The candidates must be competent radiomen, familiar with all kinds of radio equipment, generators, gas engines, storage batteries, etc.; be able to repair and operate same, together with testing apparatus. These candidates must be operators capable of handling messages in international codes via radio telegraph, and must also be "expert listeners."

Previously all radio warrant officers were rated as Gunners Radio, because most of the electrical force came up through that branch of artificers, and there were no electrical warrant officers. With the great development of electricity and radio, in naval operation the new grade radio electrician has been created.

R - E - M - E - M - B - E - R

We Fix 'Em or No Charge

THAT this is the Only place that will guarantee you East of Rockies on your Super-Heterodyne or Neutrodyne.

THAT this is Not an Ordinary Radio Shop—it is a Radio Laboratory.

THAT we have Laboratory Equipment and Know how to Use It.

THAT if we do not make your Radio Play Distance, there will be no labor Charge.

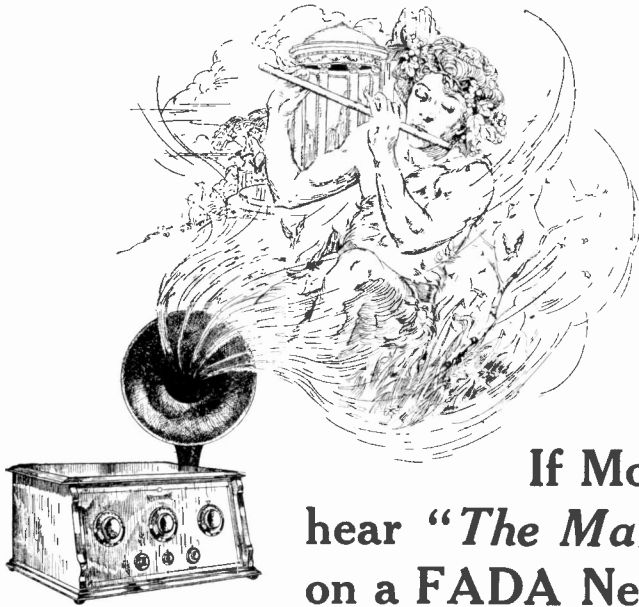
PALMER RADIO CO.

Open Till 9 P. M.

4529 So. Vermont Ave.

Vermont 7883

Los Angeles, Cal.



If Mozart could hear "The Magic Flute" on a FADA Neutrodyne

—his trained ear would approve the tonal fidelity to the original in his famous old opera. The peculiar charm of this woodwind instrument is caught in all its purity by the famous Fada Neutrodyne. With equal tonal truth, Fada reproduces the deep rolling bass of the pipe-organ.

The Fada Neutrodyne has the range of the 88-key pianoforte. McCormack's pure tenor, Bori's delicious soprano, create the illusion of standing beside the actual artists when you hear them on a Fada set. Bass and baritone voices are reproduced with equal fidelity. Nor does Fada create those raucous distortions that have kept many discriminating folks from investing in radio.

Fada selectivity is one of its chief charms. Turn the dials to predetermined numbers, and in rolls the very

station you want to hear—provided the waves from that station are reaching your neighborhood. Fada also excels in distance and volume. In short, Fada is radio at its very, very best.

There are six models to meet every taste and pocketbook. \$75 to \$270. Fada is adapted to either dry-cell or storage-battery tubes, and either indoor or outdoor aerial. Hear Fada. It will be a revelation in radio! Buy your Fada now and be ready to hear the world's famous artists whenever they sing or play for you over the radio.

F. A. D. ANDREA, INC.

1581 Jerome Avenue, New York

326 West Madison St., Chicago, Ill.

5 Third St., San Francisco, Cal.



FADA

Radio

C. A. S. H.

broadcasting to dealers
who have sold Brunsw-
wick receiving sets

Every Brunswick owner can be sold the Connell Booster Box. Your list of Brunswick purchasers is a gold mine that opens up with a single demonstration of the Connell Booster Box for Brunswick receiving sets. Increased volume, greater selectivity and from 1,000 to 2,000 miles more distance are supplied by this remarkable Booster Box at a twist of the wrist. The Connell Booster Box is as fine in appearance as it is in performance. Beautifully finished to match the most expensive Brunswick instruments. Hangs on the door of the cabinet. Try it on your demonstrator. Show it to the first three Brunswick owners who enter and sell every one of them. That's what others are doing. Brunswick Dealers are invited to write or phone for a sample and demonstration. It sells for \$12.00.

The Connell Booster Box is made for Super-Heterodyne, De Forest and other loop aerial sets. Sold through dealers only. Write for proposition.

SUPER-AMPLIFIER COMPANY

806 Valencia Street

Los Angeles, Cal.

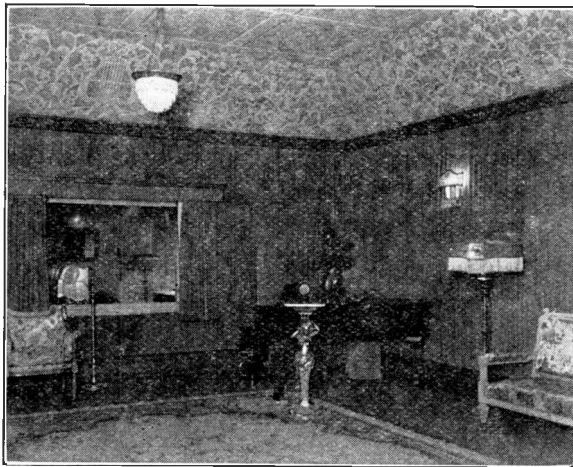
Fitzroy 4411

KFWB, Warner Bros. Studio "Movieland"

"KFWB" is termed the model studio. Nothing has been spared in the way of comfort and convenience for the artists and visitors.

The acoustical value of the studio is perfect and its furnishings very elaborate. The lighting system is artistically arranged and adds further to the studio's elegance.

The reception room is separated from the studio by a double plate glass window, making it sound-proof. The visitors can easily see the artists at work and can hear them via radio, this being furnished by a magnificent super-heterodyne



Interior of Studio

tuned perfectly to 252 meters. This also affords the personnel of the studio the opportunity of hearing their artists and, therefore, any adjusting as to position of microphone, artists or musical instruments may be quickly obtained for perfect reception.

One point also must not be overlooked, and that is the perfect ventilating system in the studio, making an entire change of air every five minutes. This system allows all doors and windows to be closed, adding further efficiency to the acoustical value of the studio.

The programs presented by "KFWB," Warner Bros., are varied. It is the

***If You Buy a Cut-Rate Radio Set, You Buy Cut-Rate
Service With It!***

OUR SETS ARE STANDARD

So Is Our Service

The Sets We Recommend

**The Gilfillan 4-Tube Neutrodyne, \$91.00 (Complete)
Radiolas (All Models), The Kennedy (All Models), and the
De Forest (All Models)**

FLETCHER RADIO MUSIC CO.

4713 South Vermont Ave., Los Angeles, Cal.

Phone UNiversity 1991

Constant Voltage an Essential to Good Reception

Volume and clearness of tone is desired by every Radio set owner, and the thing most necessary to insure clearness and volume is constant voltage from "A" and "B" Batteries.

WILLARD "A" and "B" Batteries

are especially built for Radio work. Their construction is such that internal or external current leakage does not take place—yet, the voltage is constant. This even flow, which can be maintained month in and month out by recharging at home, insures the best possible reception.

All These Dealers Sell Willard Batteries

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

Long Beach—A. C.
Walker

Santa Ana, Orange,
Fullerton — Orange
County Ignition
Works

Monrovia—Emil Lind-
strand

San Bernardino—C. H.
Stickel

Whittier — Whittier
Auto Electric Co.

Pasadena—F. W. Bir-
nie.

Riverside — Mission
Auto Electric Co.

Anaheim—A. Bevillard

Glendale—E. W. Cizek
Co.

Santa Monica — Guy
Hammond

Gardena—Gardena
Battery & Ignition

San Pedro—Auto Elec-
tric Service

Alhambra—Alhambra
Auto Electric Co.

Torrance—Torrance
Auto Electric

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

San Francisco—Julius Brunton & Sons Co.



ambition of Warner Bros. and the personnel of "KFWB" to lend variety to the programs so as to please everyone.

The personnel of the studio is Norman Manning, manager; Charlie Wellman, announcer; Harry Seymour, entertainment.

The broadcasting hours are 7:45 p. m. to 1:00 a. m. The studio program signs off at 11:00 p. m., and dance music is then broadcast by remote control until 1:00 a. m. The last hour from 10:00 to 11:00 p. m. is taken with Warner Bros. hour, conducted by Harry Seymour.

A definite rule which keeps Warner Bros. programs up to standard is that all entertainment must first be heard in the studio at rehearsal before going out on the air for the public.

Sunday evening, from 9:00 p. m. to 11 p. m., is termed Motion Picture Studio Night, and these two hours constitute a rapid-fire entertainment. The cast includes many famous motion picture stars. This Sunday night frolic is especially popular, not only among local listeners-in but also with far distant receivers.

United States Civil Service Examination

The United States Civil Service Commission announces the following open competitive examination:

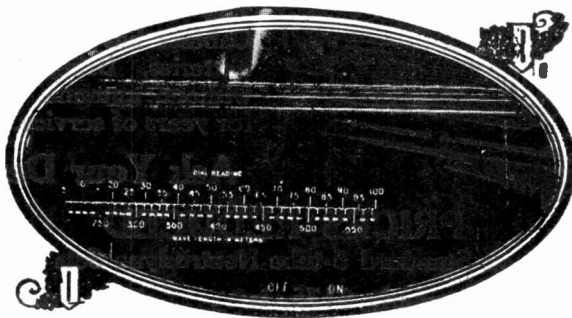
JUNIOR PHYSICIST

Receipt of applications for junior physicist will close April 25.

The examination is to fill vacancies in the Bureau of Standards, Washington, D. C., at an entrance salary of \$1860 a year. Advancement in pay may be made without change in assignment up to \$2400 a year. Promotion to higher grades may be made in accordance with the civil service rules.

Applicants must select at least one of the following optional subjects: Electricity, heat, mechanics, optics, physical metallurgy, and radio.

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PFANSTIEHL

OVERTONE RECEIVER

A New Stage in Radio Reception

Pfanstiehl is making Radio History in the Intermountain States. Send for descriptive booklet and name of nearest dealer.

Dealers—Write or wire for our exclusive proposition.

THE F. RONSTADT COMPANY : : Tucson, Arizona

Distributors for Arizona and West Coast of Mexico

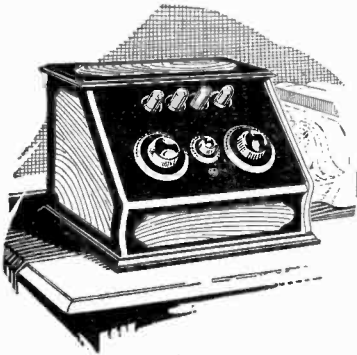


GILFILLAN NEUTRODYNE

The NEW 4-tube, Dry Cell Set

Low in Price — Big in Results !

Here is the set many have been waiting for! A genuine Neutrodyne of Gilfillan expert workmanship. It guarantees unflinching operation without howls, squeals or distortion. It has power to bring in the distant or local station EXCLUSIVELY with beauty of tone and ample volume. The PRICE is popular and most reasonable for the many features and big value built into the handsome Cabinet. See it—hear it, and convince yourself!



\$65

without accessories

The handsome Walnut Cabinet has space for all batteries. Brings in locals without antenna. Good for years of service.

Ask Your Dealer

PRICES REDUCED

on Standard 5-tube Neutrodyne Sets

The G-N 1, formerly \$175, is now \$150
 The G-N 2, formerly \$140, is now \$120

These Sets are regular Stock and NOT discontinued patterns!

GILFILLAN BROS. INC.

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

NEW YORK
 KANSAS CITY

OAKLAND, CAL.
 LOS ANGELES, CAL.



European Press Seeks Protection for Radio News

Recognizing radio as a modern means of transmitting news, the members of about twenty-five press associations in Europe have taken steps to protect their property when it is en route through the air. Resolutions signed by such well-known news agencies as Havas of France, Continental of Germany, Fabra of Spain, Reuters of Great Britain, Stefani of Italy and Rosta of Russia have been filed with the International Telegraphic Union at Berne. Other suggestions will be submitted to the International Convention for the protection of Industrial Property, which meets at the Hague in October. The news representatives also recommend that each home government submit certain propositions to the next radio conference in Washington.

What amounts to radio censorship is suggested, broadcast transmission would be controlled, receiving sets limited and many phases of radio operation definitely regulated, if the plan is carried out internationally.

Essentially the foreign press associations insist on etherial property rights, patent protection, and punishment when their copy is picked up and used without permission. They recommend that a technical means which will prevent the reception and use by unauthorized persons of press matter transmitted by radio, be developed, implying separate exculsive radio channels or apparatus which insures secrecy. Simple methods of ciphering and deciphering insuring rapidity of handling have been devised, and partially secret radio apparatus has been perfected, but not adopted generally. In Europe the Governments control and operate radio as they do practically all communication systems, therefore, it might be a practical possibility, but in the United States, where private companies handle communications great difficulties would be encountered in this connection.

It was also recommended that national governments agree not to authorize the establishment or maintenance of any private radio receiving stations until the authorities have taken all precautions to strictly limit the capacity of the receiving set. That is, receivers would be constructed or set so as to pick up only matter broadcast on certain wave bands and not on those channels carrying news. This sealing of sets has been attempted in some countries unsuccessfully, it is understood, and certainly would be a tremendous undertaking in the United States with several million unlicensed receiving sets to locate and adjust, even if it became a law.

Positive legislation against violation of secrecy and illicit use of press matter is urged. As penalties for the use of unauthorized radio news, these organizations desire imprisonment, confiscation and damages, as well as forfeiture of licenses, if illicit use is proven. International press regulations they insist should insure protection to press clients, under uniform laws providing for one broadcast transmission to several subscribers by collective addresses if desired. Some countries, it was asserted, have neither regulations nor scruples covering property rights of this class of message. Other nations have no fixed rate for this class of transmission, insisting on charging full press rates for each addressee

WELL! What Do You Think Now?

RADIOLAS

Super-Heterodyne complete.....	\$267.00
Radiola X complete.....	160.00
UZ 1325 Speaker.....	18.00
Radiotrons (Tubes).....	3.00

Golden State Electric Co.

826 South Flower

TRinity 4671

included in the collective address, which seems unfair, unless relaying is required.

Reduced telegraph rates for press matter are asked, and assurance that delayed messages still go forward at press rates, despite the lapse of time fixed for press rates to apply.

Further, the signatories ask that if broadcast concessions are made the concessionaires be required not to send out political, commercial, financial or other news except that which is submitted and filed by recognized news agencies. This is a curious reversal of the situation in the United States, where the Associated Press has refused to permit its news items to be broadcast. The property value of press news has never been established internationally, it is pointed out, except that in some instances protection after publication is afforded, which would not benefit the news collecting and distributing agencies. In other countries, only what are considered literary works are protected by law.

The members of the foreign press associations claim that radio broadcasting is a menace to them as well as to the public on account of "the case thereby given to the spread of uncontrolled news." This suggestion will hardly be acceptable to the interests here, where freedom of speech is upheld and censorship is taboo even on the air.

It is problems of this sort which the conferees of the press propose to submit to the International Property Conference. In this connection, Secretary Hoover stated recently, that he would refer some of the patent problems of the United States to this body, possibly having in mind radio press matter along with other copyright references. The European Press associations also suggest a revision of the existing copyright laws to include the protection of press news used without authority for gain, specifying news of the day, political, commercial, economic and financial news.

How these suggestions will affect the news associations and the private communication companies in this country, as well as the broadcasters and listeners, is unknown, but, as American representatives will be present at the conferences, it is assumed that all interests will be protected in the event international agreements are drawn up.

Difficulties From Bent Wire

Wire that has been bent is apt to break if an attempt is made to straighten it out, and even if it does not break it will be weak where the bend occurred or, due to crystallization at this point, it may cause high resistance.

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THE RADIO ELECTRIC

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The Best in Radio

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35% to 100% Better Reception



For Only \$12

You pay from \$75 to \$500 for a radio set. You can add 35% to 100% to the value of that investment by paying only \$12 for—

The Super-Booster

It greatly increases distance and volume, sharpens selectivity and doubles the life of batteries and tubes. Effective with any of these sets—

All models of Radiolas, including Brunswick Radiolas; Atwater Kent, De Forest, Freed-Eisemann, Ware Neutrodyne, Gilfillan Neutrodyne, Angelus and Echophone.



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Radio News
and KNX Testing
Laboratories

Ask your dealer to demonstrate to your complete satisfaction the genuine Super-Booster, stamped with that name and the Radio News approval mark. Don't bother with imitations.

In case your dealer cannot supply you, we will mail direct C. O. D. or upon receipt of money order for \$12.

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No. 55 Knock Down Kit



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Manufactured by

Lee Electric & Manufacturing Co.

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? Let Our Question and Answer Department ? Solve Your Problems

Question—Have a Model 10, Atwater Kent. It comes with the cables attached, and I would like to know if the yellow wire should be attached to the 22½ or 45-volt B battery terminal. In their instructions and diagram they use 4 22½-volt batteries, and it looks like this wire is attached to the 22½-volt tap, that is at the end of the first battery. I have tried it both on 22½ and 45, and it don't seem to make any difference, but was wondering if I left it on the 22½ tap, would I save any battery juice? Can a C battery be attached?

J. E. CLARKE, Santa Paula, Calif.

Answer—The wire in question should go to the 22½-volt tap, as this is the proper plate voltage for the detector tube. Using the 45-volt tap, not only wastes battery current, but is apt to cause distortion. To equip this set with a C battery, it is necessary to break into the audio unit. Would not advise doing this unless you are familiar with circuits and have built a set or two. It is necessary to open up the grid return of both audio tubes, and insert a 4½-volt C battery. This is done by connecting together the filament terminals of the secondaries of the two audio transformers, and then connecting this bridge to the negative terminal of the C battery. The positive terminal of the C battery then goes to the filament circuit, where the transformer grid return leads were formerly connected.

Question—We have had a five-tube neutrodyne for about two months. When we first had it, it worked beautifully, in fact, we could get music and talks so loudly that it would almost run us out of the room.



New-Tone Headset \$3

“New Tone Value is given by the New-Tone Headset”

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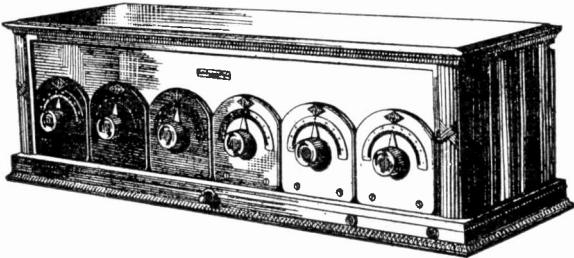
Portland, Ore.
166 Lowndale St.

SELECTIVITY!

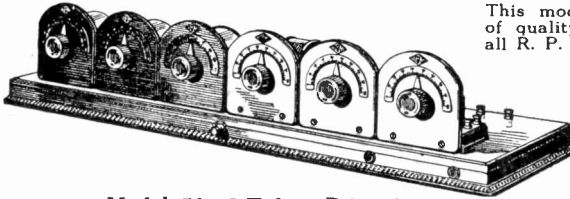
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The Selective Receiving Set

Here's an instrument that will compare with the most expensive made so far as selectivity, tone quality and volume are concerned. Enclosed in a beautiful, hand-rubbed and carved Walnut Cabinet with plate glass front, it represents an unusual value for the money.



Model 52, 6-Tube. Price \$135.00



Model 51, 6-Tube. Price \$110.00

4-TUBE MODEL \$50.00

This model exhibits every mark of quality that can be found in all R. P. M. products. Its design is one of strict simplicity, yet there is a note of beauty even in the details. For example, the set is mounted on an attractive, hand-rubbed and carved base with packs. The working parts of Model 52 are duplicated in this set.

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SEATTLE

Terminal Sales Bldg.

Main 1052

? Let Our Question and Answer Department ? Solve Your Problems

But lately we haven't the same results. When we turn on the rheostat the voices and music are distorted, or, in other words, does not come in clearly. If we want it to come in clearly, we must turn down the rheostat until we can hardly hear the entertainment. We have a Sonora horn. We have an 85 ampere-hour A battery constantly charged to 1280. Five 20-volt B batteries.

RENE BAKER, Bell, Calif.

Answer—The first thing that suggests itself is that the B batteries are low. You are apparently using the small blocks, which run down fairly rapidly on a 5-tube set, especially with the large tubes. Would suggest that you equip with two of the big heavy duty 45-volt blocks, and then insure maximum life by the use of a C battery.

Question—I would like to ask a couple of questions: (1) Is this hookup a good one for distance and volume if one step is added? (2) I have a Harkness receiver, and wish to know if there is anything I can hook up with it to make it more selective? I have received the following stations: KFI, KHJ, KNX, KFWB, KFSG, KJS, KFON, KPO, KOA and KGO, with the loud speaker. Are by results, satisfactory?

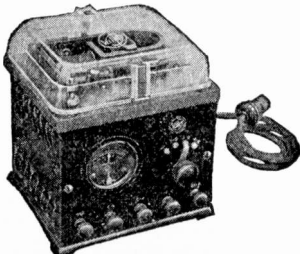
L. TABER, Los Angeles.

Answer—The diagram enclosed and referred to in question No. 1 shows an ordinary three-circuit regenerative hookup. The grid and plate circuits being tuned with variometers, variable coupling between the grid circuit and the antenna, and the antenna tuned. Yes, this is a good circuit for distance. It also possesses a fair degree of selectivity. (2) You are getting good results with your set. If it is of the two-tube reflex type, the selectivity may be increased as well as the sensitiveness by converting it to the 3-tube counterflex. If of the counterflex type, the selectivity may be increased by reversing the primary winding of the second counterformer. This, however, will reduce the sensitiveness, and hence the range.

Question—I have a super-hetrodyne, using external loop antenna. I have four pairs of headphones connected to the set in this way: 125 feet of wire is stretched from the set to the other side of the house, one headset is attached at the far end, one at the set, and the other two at points between dropped from the main line by short wires. Since using four phones, both volume and distance have been cut down considerably. For instance, Chicago used to come in strong.

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**Distributors Valley Battery
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RADIOS REBUILT AND REPAIRED
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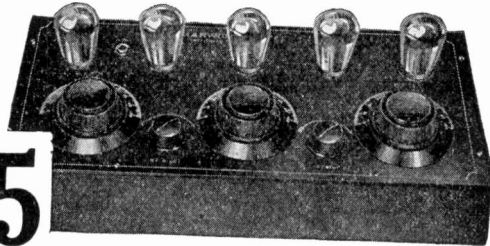
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FIVE TUBE TUNED RADIO FREQUENCY

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three radio frequency
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front panel, sub panels
and wiring diagram.

\$15.00

DOLLAR FOR DOLLAR RADIO VALUE

? Let Our Question and Answer Department ? Solve Your Problems

using one headset, and now comes in weak, and points beyond Chicago, which formerly came in good now don't come in at all.

H. E. HINES, Tucson, Ariz.

Answer—You must expect a loss in volume and distance with this arrangement. For best results, the four sets of phones should be of the same make and type, and would suggest connecting them all in series. Your description does not say what connection you used, but if you have them in parallel, try the series arrangement. In a pinch, you may offset the loss in volume by adding a stage of amplification, preferably of the push-pull type.

Question—I have a three-tube Westinghouse regenerative receiver type RC, arranged for storage battery operation. Please advise me through your valued department what changes will be necessary to operate on dry cells, what tubes to use, where to connect the C battery, etc. Would it be advantageous to use UV-199 tubes and socket adapters instead of WD-12 tubes, on account of lower power consumption?

L. A. STEWART, Morenci, Arizona.

Answer—If you desire to change to dry battery operation, we would suggest the use of WD-12 tubes, which fit in your present sockets. In this case, you might use 6 dry cells, connected in parallel. The current consumption from each cell would be $\frac{1}{8}$ ampere, and you will get fairly good battery life. If using 90 volts on the plates of the amplifier tubes, connect in a $4\frac{1}{2}$ volt C battery. Connect together the filament side of the secondaries of the two audio transformers and to the negative terminal of the C battery, and the positive terminal of the battery goes to the filament circuit where the transformer wires were before.

Question—I have a super-hetrodyne, 6 tubes in a console. I get Oakland, but have not been able to get Denver or Portalnd on it, and have been told 6 tubes was a poor arrangement, 7 tubes being necessary for good results. One party wants to add more audio. I really know nothing about it and would like some advice.

H. W. TRAVIS, Los Angeles, Calif.

Answer—You neglected to tell us the make of the set. We assume it is a Radiola. If such is the case, the six tubes are plenty, and you should be able to pull in other distant stations besides KGO, providing you have good tubes. The success of the set depends almost entirely upon the selection of 6 tubes, which are suited to the requirements of each position they occupy in the circuit. Would suggest that you have an expert who knows what he is doing and is properly equipped, balance up your set for you.

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A complete line of standard parts

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LOS ANGELES

10-12 A. M.
PACIFIC TIME

RADIO TIME TABLE

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

STATION	WATTS	CITY	METERS	CALL	SUN		MON		TUES		WED		THUR		FRI		SAT		
					10 00-10 30	10 30-11 00	11 00-11 30	11 30-12 00	10 00-10 30	10 30-11 00	11 00-11 30	11 30-12 00	10 00-10 30	10 30-11 00	11 00-11 30	11 30-12 00	10 00-10 30	10 30-11 00	11 00-11 30
L. A. Times	500	Los Angeles	405	K H J	X	X	X	X											
Earl C. Anthony	1500	Los Angeles	468	K F I	X	X	X	X											
Bible Institute	750	Los Angeles	294	K J S	X	X	X	X											
Angelus Temple	500	Los Angeles	277	K F S G	X	X	X	X											
Express	500	Los Angeles	337	K N X				X	X	X	X	X	X	X	X	X	X	X	X
Pasadena Pres. Ch.	50	Pasadena	229	K P P C	X	X	X												
Echophone Radio	100	Long Beach	233	K F O N	X	X	X												
Hale Brothers	500	San Francisco	429	K P O	X	X													
J. Brunton & Sons	5	San Francisco	236	K F U Q			X	X						X	X			X	X
General Elec.	1090	Oakland	361	K G O			X	X					X						X
Tribune	500	Oakland	508	K L X					X	X									
Warner Bros	250	Oakland	360	K L S	X	X			X				X						X
Holy City	100	Holy City, Calif	234	K F Q U			X	X						X					X
Gen. Elec. Co.	1500	Denver	323	K O A	X	X													
Rhodes Co.	100	Seattle	270	K D Z E			X		X				X						X
First Pres. Church	750	Seattle	272	K T W			X	X											
Meier & Frank	50	Portland	248	K F E C							X	X	X	X					X
Oregonian	500	Portland	492	K G W							X	X	X	X					X
Reynolds Radio	250	Denver	283	K L Z			X	X		X			X						X
News and Journal	500	Dallas	476	W F A A			X	X		X			X	X					X
Star-Telegram	1000	Fort Worth	476	W B A P			X	X		X			X	X					X
Palmer School	500	Davenport	484	W O C			X	X		X			X	X					X
Oregonian	500	Portland	485	K G W			X	X		X			X	X					X
Federal Tel. Co.	500	Buffalo	319	W G R			X	X		X			X	X					X
Sears-Roebuck	500	Chicago	345	W L S			X	X		X			X	X					X
Arlington Hotel	500	Hot Springs, Ark	375	K T H S	X	X	X												X

If you are considering building a

Remler Superheterodyne

Or any other kind, get your parts where you can get authentic information.

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

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GERMAIN'S

SIXTH AND MAIN • LOS ANGELES

12-2 P. M.
PACIFIC TIME

RADIO TIME TABLE

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

STATION	WATTS	CITY	METERS	CALL	SUN		MON		TUES		WED		THUR		FRI		SAT		
					12.00-12.30	12.30-1.00	1.00-1.30	1.30-2.00	12.00-12.30	12.30-1.00	1.00-1.30	1.30-2.00	12.00-12.30	12.30-1.00	1.00-1.30	1.30-2.00	12.00-12.30	12.30-1.00	1.00-1.30
L. A. Times	500	Los Angeles	405	K H J	X				X	X				X	X			X	X
Bible Institute	750	Los Angeles	294	K J S	X	X								X	X			X	X
Angelus Temple	500	Los Angeles	277	K F S G										X	X			X	X
Express	500	Los Angeles	337	K N X			X	X		X	X			X	X			X	X
Pasadena Pres. Ch.	50	Pasadena	229	K P P C	X														
Warner Bros.	250	San Francisco	360	K L S			X	X		X	X			X	X			X	X
Hale Bros.	500	San Francisco	429	K P O			X	X		X	X			X	X			X	X
General Elec.	1000	Oakland	361	K G O			X	X		X	X			X	X			X	X
Oregonian	500	Portland	492	K G W						X	X			X	X			X	X
Rhodes Co.	100	Seattle	270	K D Z E						X	X			X	X			X	X
Honolulu Adver.	500	Honolulu	360	K G U				X	X					X	X			X	X
Reynolds Radio	250	Denver	283	K L Z						X				X				X	
Gen. Elec. Co.	1500	Denver	323	K O A					X	X				X	X			X	
News and Journal	500	Dallas	472	W F A A		X	X				X	X		X	X			X	
Star-Telegram	1000	Fort Worth	472	W B A P		X	X				X	X		X	X			X	
Palmer School	1500	Davenport	484	W O C		X	X				X	X		X	X			X	
Star	500	Kansas City	366	W D A F		X	X				X	X		X	X			X	
News	500	Detroit	353	W W J		X	X				X	X		X	X			X	
Radio Corp. of Am.	500	New York	456	W J Z		X	X				X	X		X	X			X	
Herald	1000	Calgary	430	C F A C		X	X				X	X		X	X			X	
Federal Tel. Co.	500	Buffalo	319	W G R		X	X				X	X		X	X			X	
Woodmen of W.	500	Omaha	526	W O A W		X	X				X	X		X	X			X	
Sears-Roebuck	500	Chicago	346	W L S		X	X				X	X		X	X			X	
Calumet B. Pdr.	500	Chicago	448	W Q J		X	X				X	X		X	X			X	
Arlington Hotel	500	Hot Springs, Ark.	375	K T H S	X	X	X												

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834 South Broadway, Los Angeles

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PACIFIC TIME

RADIO TIME TABLE

4-6 Central Time
5-7 Eastern Time

STATION	WATTS	CITY	METERS	CALL	SUN		MON		TUES		WED		THURS		FRI		SAT	
					2.00-2.30	3.00-3.30	2.00-2.30	3.00-4.00	2.00-2.30	3.00-3.30	2.00-2.30	3.00-3.30	2.00-2.30	3.00-3.30	2.00-2.30	3.00-4.00	2.00-2.30	3.00-3.30
L. A. Times	800	Los Angeles	405	K H J					X	X	X	X	X	X	X	X	X	X
Angelus Temple	500	Los Angeles	277	K F S G	X	X					X	X	X	X	X	X	X	X
Express	500	Los Angeles	337	K N X					X	X	X	X	X	X	X	X	X	X
Echophone Radio	100	Long Beach	233	K F O N	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Hale Bros	500	San Francisco	429	K P O					X	X	X	X	X	X	X	X	X	X
Tribune	500	Oakland	508	K L X							X	X						
General Elec. Co.	1000	Oakland	361	K G O			X											
Portable Wireless	100	Stockton	360	K W G	X	X												
First Pres. Church	750	Seattle	368	K T W		X	X											
Rhodes Co	100	Seattle	270	K D Z E				X	X	X	X	X	X	X	X	X	X	X
Leese Eros	20	Everett, Wash.	224	K F B L	X	X												
Oregonian	500	Portland	492	K G W														
Boise High School	150	Boise, Ida.	275	K F A U				X			X		X					
Newhouse Hotel	50	Salt Lake City	245	K D Y L			X	X	X	X	X	X	X	X	X	X	X	X
Reynolds Radio	250	Denver	283	K L Z				X		X		X		X				X
Star-Telegram	1000	Fort Worth	472	W B A P	X	X	X											
Palmer School	1500	Davenport	484	W O C					X									X
Daily News	500	Chicago	448	W M A O				X		X			X	X				
Star	500	Kansas City	366	W D A F	X	X	X		X	X			X	X				
Free Press	500	Detroit	517	W C X	X	X	X		X	X	X		X	X	X		X	X
News	500	Detroit	353	W W J	X	X	X		X	X	X		X	X	X		X	X
Radio Cor. of Am.	500	New York	465	W J Z				X	X	X	X		X	X	X		X	X
Herald	1000	Calgary	430	C F A C				X	X	X	X		X	X	X		X	X
Federal Tel. Co.	500	Buffalo	319	W G R				X	X	X	X		X	X	X		X	X
Westinghouse	1000	Pittsburgh	309	K D K A			X				X	X						
Westinghouse	1000	Springfield	331	W B Z														
Sears-Roebuck	500	Chicago	345	W L S				X		X		X		X		X		X
Rhodes Dept. St.	500	Seattle	454	K F O A				X		X		X		X		X		X

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Longer Distance, Greater
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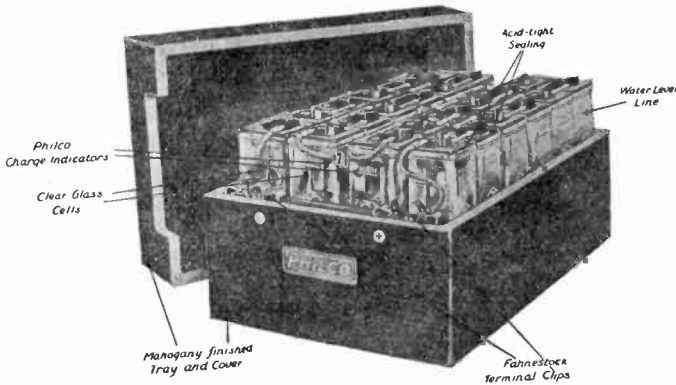


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4-6 P. M.
PACIFIC TIME

RADIO TIME TABLE

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

STATION	WATTS	CITY	METERS	CALL	SUN		MON		TUES		WED		THUR		FRI		SAT	
					4:00-4:30	4:30-5:00	5:00-5:30	5:30-6:00	4:00-4:30	4:30-5:00	5:00-5:30	5:30-6:00	4:00-4:30	4:30-5:00	5:00-5:30	5:30-6:00	4:00-4:30	4:30-5:00
E. C. Anthony	1500	Los Angeles	468	KFI	X	X												
Angelus Temple	500	Los Angeles	277	KFSG	X	X												
Express	500	Los Angeles	337	KFNX	X	X												
Echophone Radio	100	Long Beach	233	KFON														
General Electric	1000	Oakland	361	KGO	X													
Hale Bros.	500	San Francisco	429	KPO														
Oakland Tribune	500	Oakland	508	KLX														
Berkeley Gazette	500	Berkeley	275	KRE														
Portable Wireless	100	Stockton	380	KWG														
Radio Den.	10	Santa Ana	280	KFAW														
Newhouse Hotel	50	Salt Lake	245	KDYL														
Rhoades Dept. St.	500	Seattle	454	KFOA														
Star Electric	100	Seattle	263	KFHR														
Firat Pres. Church	750	Seattle	360	KTW	X	X												
Northwest Radio	100	Seattle	385	KJR														
Meler & Frank	50	Portland	248	KFEC														
Oregonian	500	Portland	492	KGW														
Star-Telegram	1000	Fort Worth	472	WBAP														
News and Journal	500	Dallas	472	WFAP	X	X												
Southern Egr. Exp.	500	San Antonio	395	WOAI														
Palmer School	1500	Davenport	484	WOC														
Post Dispatch	500	St. Louis	545	KSD														
Gen. Elec. Co.	1500	Denver	323	KOA														
Daily News	500	Chicago	448	WMAQ														
Free Press	500	Detroit	517	WCX	X	X												
News	500	Detroit	353	WVJ														
Star	500	Kansas City	366	WDAF	X	X												
Crosley Mfg. Co.	1500	Cincinnati	423	WLW														
Radio Cor. of Am.	500	New York	455	WJZ	X	X	X											
John Wanamaker	500	Philadelphia	509	WOO														
Federal Tel. Co.	500	Buffalo	319	WGR														
Westinghouse	1000	Pittsburgh	309	KDKA	X	X												
Westinghouse	1000	Springfield	331	WBZ														
Westinghouse	1000	Chicago	535	KYW														
Woodmen of W.	500	Omaha	526	WOAW														
Willard Battery	1500	Cleveland	390	WTAM														
Canadian Nat. Ry.	500	Ottawa	436	CKCH														
Sears-Roebuck	500	Chicago	346	WLS	X	X	X											
Calumet B. Pdr.	500	Chicago	448	WQJ														
Tribune	1000	Chicago	370	WGN														
Edg. B. Hotel	1000	Chicago	370	WEBH	X	X	X											
Honolulu Advertiser	500	Honolulu	360	KGU														

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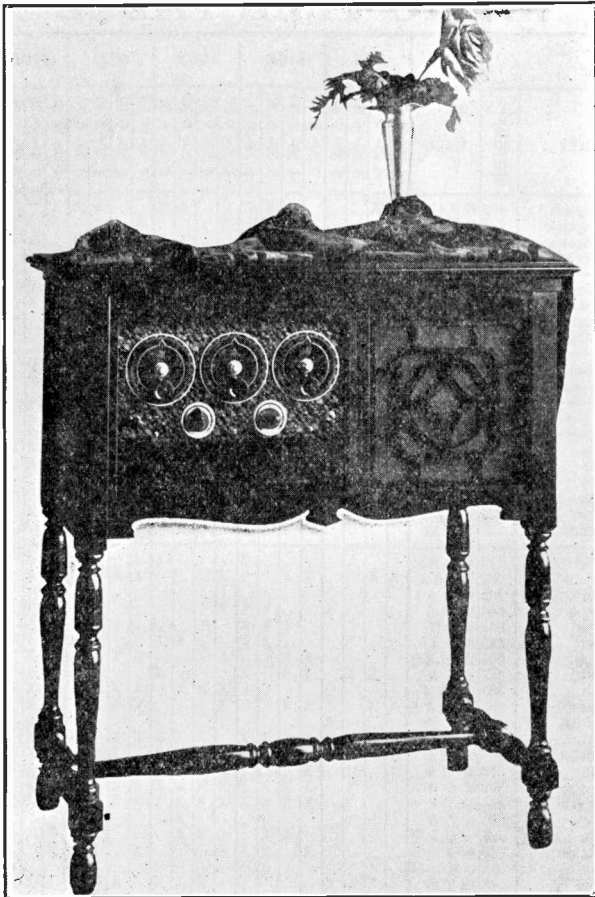
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Telephone EMpire 3483

6-8 P. M.
PACIFIC TIME

RADIO TIME TABLE

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

STATION	WATTS	CITY	METERS	CALL	SUN		MON		TUES		WED		THUR		FRI		SAT.	
					6.00-7.00	7.00-8.00	6.00-7.00	7.00-8.00	6.00-7.00	7.00-8.00	6.00-7.00	7.00-8.00	6.00-7.00	7.00-8.00	6.00-7.00	7.00-8.00	6.00-7.00	7.00-8.00
Bible Institute.....	750	Los Angeles.....	294	K J S	X	X												
L. A. Times.....	500	Los Angeles.....	405	K H J	X	X												
E. C. Anthony.....	1500	Los Angeles.....	468	K F I	X	X												
Angelus Temple.....	500	Los Angeles.....	277	K F S G			X	X										
Express.....	500	Los Angeles.....	337	K N X	X	X												
Warner Bros.....	500	Los Angeles.....	252	K F W B			X	X										
Echophone Radio.....	100	Long Beach.....	233	K F O N			X	X										
Pasadena Pres. Ch.....	50	Pasadena.....	229	K P P C	X	X												
Hale Brothers.....	500	San Francisco.....	429	K P O			X	X										
Radioart Studio.....	50	San Francisco.....	267	K F R C	X	X												
Berkeley Gazette.....	50	Berkeley.....	259	K R E														
Tribune.....	500	Oakland.....	508	K L X			X	X					X					
General Electric.....	1000	Oakland.....	361	K G O			X	X					X					
Western Radio Inst.....	50	Oakland, Cal.....	241	K Z M			X	X					X					
Radio Den.....	10	Santa Ana.....	280	K F A W					X				X					
Nelson Radio Sup.....	10	Phoenix.....	238	K F C B		X				X			X					X
McArthur Bros.....	100	Phoenix.....	360	K F A D					X	X			X					X
Wash State Col.....	500	Pullman.....	349	K F A E				X					X					X
Love Elect Co.....	10	Tacoma.....	250	K M O			X	X					X					X
Mullens Elect Co.....	60	Tacoma.....	250	K G B					X	X			X					X
Radio Broad Stn.....	1000	Seattle.....	233	K F O X			X	X					X					X
Excel Motor Cy.....	100	Seattle.....	273	K H O					X	X			X					X
Rhoades Dept. St.....	500	Seattle.....	454	K F O A			X	X					X					X
Star Electric.....	50	Seattle.....	263	K F H R	X	X			X	X			X					X
Leese Bros.....	200	Everett, Wash.....	224	K F B L		X	X						X					X
Oregonian.....	500	Portland.....	492	K G W	X	X	X		X	X			X	X				X
Moler & Frank.....	50	Portland.....	248	K F E C				X					X					X
Boise High School.....	150	Boise, Ida.....	275	K F A U				X	X				X					X
Bunkerhill-Sul Co.....	10	Kellogg, Ida.....	233	K F E Y			X						X					X
Newhouse Hotel.....	50	Salt Lake.....	245	K D Y L			X	X		X			X					X
N M Coll Agricul.....	500	Sta Col N M.....	349	K O B			X	X		X			X					X
Reynold's Radio.....	250	Denver.....	283	K L Z					X				X					X
Gen. Elect. Co.....	1500	Denver, Colo.....	323	K O A	X	X			X	X			X					X
Westinghouse EI.....	1000	Hastings, Neb.....	288	K F K X					X				X					X
News and Journal.....	500	Dallas.....	472	W F A A			X	X		X			X	X				X
Star-Telegram.....	1000	Fort Worth.....	476	W B A P			X	X		X			X	X				X
Palmer School.....	1500	Davenport.....	484	W O C	X	X			X	X			X	X				X
W. O. W.....	500	Omaha.....	526	W O A W			X	X		X			X	X				X
Daily News.....	500	Chicago.....	448	W M A Q			X	X		X			X	X				X
Post Dispatch.....	500	St. Louis.....	545	K S D		X	X		X	X			X	X				X
Westinghouse.....	1000	Chicago.....	535	K Y W			X	X		X			X	X				X
Sweeney School.....	500	Kansas City.....	366	W H B	X	X			X	X			X	X				X
Star.....	500	Kansas City.....	366	W D A F			X	X		X			X	X				X
Tribune.....	1000	Chicago.....	370	W G N	X	X			X	X			X	X				X
Crosley Mfg. Co.....	1500	Cincinnati.....	423	W L W	X	X			X	X			X	X				X
Albertan Pub. Co.....	250	Calgary, Can.....	410	C H B C			X	X		X			X	X				X
Detroit Free Press.....	500	Detroit.....	517	W C X			X	X		X			X	X				X
Radio Cor. of Am.....	500	New York.....	455	W J Z	X	X			X	X			X	X				X
John Wanamaker.....	500	Philadelphia.....	509	W O O			X	X		X			X	X				X
Federal Tel. Co.....	500	Buffalo.....	319	W G R E			X	X		X			X	X				X
El Buen Tono.....	500	Mexico City.....	440	C Y B			X	X		X			X	X				X
El Universal.....	500	Mexico City.....	500	C Y L			X	X		X			X	X				X
Willard Battery.....	1000	Cleveland.....	390	W T A M			X	X		X			X	X				X
Westinghouse.....	1000	Pittsburgh.....	398	K D K A			X	X		X			X	X				X
Canadian Nat. Ry.....		Ottawa.....	425	C K C H			X	X		X			X	X				X
Trinity Meth Ch.....	50	El Paso.....	288	W D A H			X	X		X			X	X				X
Calumet B. Pdr.....	500	Chicago.....	448	W O J	X	X			X	X			X	X				X
General Elec.....	1500	Schenectady.....	365	W G Y			X	X		X			X	X				X
Mexican Gov't.....	250	Chihuahua.....	325	C Z F			X	X		X			X	X				X
Arlington Hotel.....	500	Hot Springs, Ark.....	375	K T H S	X	X			X	X			X	X				X
So. Equip. Co.....	500	San Antonio, Tex.....	396	W O A I			X	X		X			X	X				X

Day-Fan

Log of Principal Western Stations

Call Signal	Location	Power (Watts)	Wave Length	-Dial Setting-		
				1	2	3
KFI	Los Angeles.....	1,500	468	58	58	58
KFOA	Seattle	500	454	54	54	54
KFON	Long Beach.....	100	233	4	4	4
KFPT	Salt Lake.....	500	261	9	9	9
KFQX	Seattle	500	233	4	4	4
KFRC	San Francisco....	50	278	12	12	12
KFSG	Los Angeles	500	275	11	11	11
KFWB	Hollywood	500	252	7	7	7
KGO	Oakland	2,000	361	28	28	28
KGW	Portland	500	492	66	66	66
KHJ	Los Angeles.....	500	405	38	38	38
KJS	Los Angeles.....	500	294	14	14	14
KLS	San Francisco....	250	360	27	27	27
KLX	Oakland	500	508	71	71	71
KNX	Hollywood	500	337	23	23	23
KOA	Denver	1,000	323	20	20	20
KPO	San Francisco....	500	429	46	46	46
KPPC	Pasadena	50	229	3	3	3

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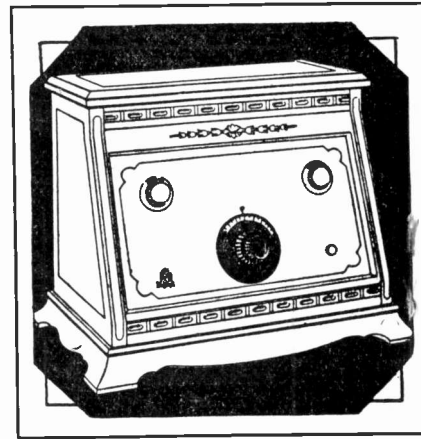
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IN SAN DIEGO, WHERE THE "LOCAL" STATIONS ARE IN LOS ANGELES, OVER 100 MILES DISTANCE, YOU HAVE THE EXTREME TEST FOR PERFECT TONE PURITY.

READ WHAT THE SAN DIEGO UNION OF MARCH 5 HAS TO SAY:

- 1 *Simplicity*
- 2 *Selectivity*
- 3 *Volume*
- 4 *Tone Purity*
- 5 *Beauty*



* * * "In San Diego, 3000 odd miles from the National Capitol, the people stood in the streets, just as they stood on Pennsylvania Avenue in front of the Capitol, and heard the President's voice as clearly, if not MORE CLEARLY, THAN IF THEY HAD BEEN IN WASHINGTON. * * *"

* * * THE MOHAWK ONE DIAL 5-tube receiving set with special loud speaker, installed by THE RADIO SHOP, WORKED PERFECTLY, and every word was DISTINCTLY AUDIBLE. The occasional passing of a street car on Broadway disturbed the listening crowd probably less than the similar interference and noise in Washington disturbed the crowd that stood before the Capitol.

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10-12 P. M.
PACIFIC TIME

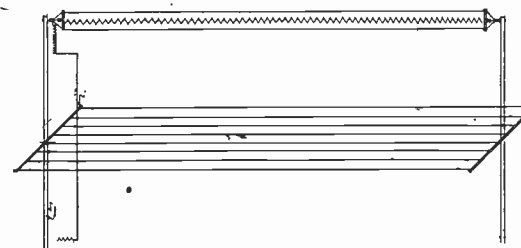
RADIO TIME TABLE

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

STATION	WATTS	CITY	METERS	CALL	SUN		MON		TUES		WED		THUR		FRI		SAT	
					10.00-10.30	10.30-11.00	11.00-11.30	11.30-12.00	10.00-10.30	10.30-11.00	11.00-11.30	11.30-12.00	10.00-10.30	10.30-11.00	11.00-11.30	11.30-12.00	10.00-10.30	10.30-11.00
L. A. Times	500	Los Angeles	405	KHJ	X	X			X	X			X	X			X	X
E. C. Anthony	1500	Los Angeles	468	KFI	X	X	X		X	X			X	X			X	X
Angelus Temple	500	Los Angeles	277	KFS G	X	X			X	X			X	X			X	X
Express	500	Los Angeles	337	KNX	X	X	X		X	X			X	X			X	X
Warner Bros.	500	Los Angeles	252	KFWB	X	X	X		X	X			X	X			X	X
Eschophone Radio	100	Long Beach	233	KFON	X	X	X		X	X			X	X			X	X
Hale Bros.	500	San Francisco	429	KFO	X	X	X		X	X			X	X			X	X
Radioart Studio	50	San Francisco	267	KFR C	X	X	X		X	X			X	X			X	X
Oakland Tribune	500	Oakland	508	KLX	X	X			X	X			X	X			X	X
Holy City	100	Holy City, Calif	234	KFOU	X	X			X	X			X	X			X	X
Herald	1000	Calgary	430	CFAC			X	X					X	X			X	X
Oregonian	500	Portland	492	KGW			X	X	X	X			X	X			X	X
Radio Broad. Stn	1000	Seattle	233	KFOX			X	X	X	X			X	X			X	X
W. W. Grant	500	Calgary	440	CFCN			X	X					X	X			X	X
Westinghouse	1000	Chicago	335	KYW					X	X			X	X			X	X
Sweeney School	500	Kansas City	366	WHB	X	X			X	X			X	X			X	X
Edgewater Beach	1000	Chicago	370	WEBH					X	X			X	X			X	X
General Elec. Co.	1000	Oakland	361	KGO			X	X	X	X			X	X			X	X
Honolulu Advtr.	500	Honolulu	260	KGU	X	X			X	X			X	X			X	X
Calumet B. Pdr.	500	Chicago	448	WQJ			X	X	X	X			X	X			X	X
Tribune	1000	Chicago	370	WGN					X	X			X	X			X	X
Sears-Robuck	500	Chicago	345	WLS					X	X			X	X			X	X
Star	500	Kansas City	366	WDAF			X	X					X	X			X	X
U.S. Playing Card	500	Cincinnati	328	WSAI					X	X			X	X			X	X
Kaufman & Baer	500	Pittsburgh	462	WCAE					X	X			X	X			X	X
Outlet Co.	500	Providence	308	WJAR			X	X					X	X			X	X
Rhodes Dept. St.	500	Seattle	454	KFOA					X	X			X	X			X	X
Arlington Hotel	500	Hot Springs	375	KTHS					X	X			X	X			X	X

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Reduces
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other noises
due to
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installation
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Antennae.



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Class "B" 5000 Watt Western Electric Station Operating in 1500 Watts
PAUL REESE, Program Manager

DAILY—

6:00 to 6:15 p. m.—Radiatorial Period including James F. McDaniels' "Nightly Doings" and Amusement Information.

DAILY EXCEPT SUNDAY—

5:00 to 5:30 p. m.—L. A. Evening Herald news bulletins.
5:30 to 6:00 p. m.—L. A. Examiner program.

DETAILED PROGRAM WEEK OF APRIL 5 TO 11, INCLUSIVE

SUNDAY, APRIL 5—

- 10:00 to 10:45 a. m.—Morning services presented by the L. A. Church Federation; speaker will be Rev. Donald E. Henley, pastor of First Friends Church. The Choir of this church will furnish the music.
- 11:00 a. m. to 12:00 noon—Third Church of Christ Scientist services.
- 4:00 to 5:00 p. m.—Vesper services. A sacred and secular concert arranged by Paul Haupt—"Message from the Cross." St. James Episcopal Church choir.
- *7:00 to 8:00 p. m.—Program from stage and studio of the Metropolitan Theatre. Arranged by Albert Kaufman, presenting the Artists on the current bill, with Creatore directing the Metropolitan Theatre Orchestra of forty-five members.
- 8:00 to 9:00 p. m.—Classic Hour presented by Franz Hoffman, Dutch bass baritone, Italian, French and German.
- 9:00 to 10:00 p. m.—Los Angeles Examiner program.
- 10:00 to 11:00 p. m.—Hour of popular dance music by "Bill" Hennessy and his famous Packard Eight Orchestra.

MONDAY, APRIL 6—

- 12:10 to 12:50 p. m.—Christian Science lecture from Philharmonic Auditorium.
- 6:45 to 7:00 p. m.—KFI Radiatorial Period.
- 7:00 to 8:00 p. m.—Los Angeles Evening Herald program.
- 8:00 to 9:00 p. m.—Los Angeles Evening Herald program.
- *9:00 to 10:00 p. m.—Walter M. Murphy Motors Co. Arranged program displaying their usual excellent taste in the portrayal of delightful entertainment.
- 10:00 to 11:00 p. m.—Los Angeles Examiner program.

TUESDAY, APRIL 7—

- 7:00 to 8:00 p. m.—Aeolian Organ Recital, Dan MacFarland at the Console.
- 8:00 to 9:00 p. m.—Los Angeles Examiner program.
- 9:00 to 10:00 p. m.—American Glee Singers in a program of popular music interspersed with Folk songs.
- *10:00 to 11:00 p. m.—Packard Ballad Hour, including Way Watts, Billy Hall, Polly Grant Hall, Harry Humo and Dorothy Cleveland.

WEDNESDAY, APRIL 8—

- 7:00 to 7:30 p. m.—Nick Harris Detective Stories.
- *7:30 to 8:00 p. m.—Goodwin, Klinger and MacKay Ins. Company arranged program.
- *8:00 to 11:00 p. m.—Program presented by Beverly Hills Shrine Club—Radio Contest.

THURSDAY, APRIL 9—

- 7:00 to 8:00 p. m.—Gardens Music Shop, Hawaiians, instrumentalists.
- *8:00 to 9:00 p. m.—Standard Oil Co. (California) arranged program.
- 9:00 to 10:00 p. m.—Patrick-Marsh Orchestra. Betty Patrick soloist.
- 10:00 to 11:00 p. m.—Program presented by the Los Angeles Examiner.

FRIDAY, APRIL 10—

- 7:00 to 8:00 p. m.—Los Angeles Examiner program.
- 8:00 to 11:00 p. m.—Program presented by Beverly Hills Shrine Club—Radio Contest.

SATURDAY, April 11—

- 7:00 to 7:45 p. m.—Lake Arrowhead Orchestra in a program of popular request selections.
- 7:45 to 8:00 p. m.—The Bookshelf.
- 8:00 to 9:00 p. m.—Los Angeles Examiner program.
- *9:00 to 10:00 p. m.—Aeolian Trio. Marie Whitmore, violin; Catherine Nelson, piano; Nellie Winslow, cello.
- 10:00 to 11:00 p. m.—Packard Radio club, featuring Starr Russell, Dorothy Cleveland, Way Watts, Melville Irwin, Billy Hall, Polly Grant Hall and Varsity Trio.

Programs marked * are the best bet of the day.

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The New (Low Loss) Two-Tube Neutroflex Is Now On the Market

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Ask your Dealer for a demonstration. If he has not the set in stock, write us for the name of your local Neutroflex Dealer.

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John S. Daggett, Announcer and Manager

Daily, except Sunday and Monday, from 10 to 11 p. m., we will broadcast Art Hickman's Orchestra from the Biltmore Hotel. Sunday, from 8:30 to 7:30 p. m. and daily except Monday, from 6 to 6:30, we will broadcast Art Hickman's Concert Orchestra from the Biltmore Hotel.

2:30 to 3:30 p. m. daily, except Sunday and Monday, Matinee Musicale.

7 to 7:15 a. m. daily, except Sunday—"Setting-Up Exercises" by Dr. Barclay L. Severns.

PROGRAM WEEK COMMENCING SUNDAY, APRIL 5, 1925

SUNDAY, APRIL 5—

10:00 a. m.—Sermon from KHJ studio.

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.

6:30 to 7:00 p. m.—Art Hickman's Concert orchestra, from the Biltmore Hotel, under the direction of Edward Fitzpatrick.

7:00 to 7:30 p. m.—Organ recital from the First Methodist Episcopal Church, Arthur Blakeley, organist.

7:30 to 8:15 p. m.—Program through the courtesy of the International Bible Students' Association, presenting the Orpheus Four and Claire Forbes Crane, concert pianist.

8:15 to 9:30 p. m.—The Los Angeles Flute Club will present a program in honor of Dr. Dayton C. Miller, eminent scientist and head of department of physics, Case School of Applied Science.

9:30 to 11:00 p. m.—Program through the courtesy of the Martin Music Company, arranged by J. Howard Johnson.

MONDAY, APRIL 6—

12:30 to 1:30 p. m.—Program presenting the Piggly Wiggly Girls. Paul Omar Campbell, tenor. James William McComas, baritone.

7:00 to 8:00 p. m.—Program sponsored by the El Encanto Apartments, arranged by Uncle John.

8:00 to 10:00 p. m.—Program through the courtesy of Rain Water Crystals Company, arranged by G. Allison Phelps.

TUESDAY, APRIL 7—

12:30 to 1:30 p. m.—Program to be presented from the Biltmore Hotel. Children's Day at the Ad Club luncheon, featuring fifteen youngsters from KHJ and Uncle John.

2:30 to 3:30 p. m.—Matinee musicale through the courtesy of the Pacific States Electric Company, presenting Russian Gypsy Trio.

6:30 to 7:30 p. m.—Children's program presenting Prof. Walter Sylvester Hertzog, in a story of American History. Weekly visit of the Radio Fairies, Queen Titania and her Sandman. Louis F. Klein, auto harp and harmonica. Floryane Thompson, soprano. Charles Leslie Hill, 4-year-old reader.

7:30 to 8:00 p. m.—Passover sermon by Rabbi Dr. Mayer Winkler of Sinai Congregation.

8:00 to 10:00 p. m.—Program through the courtesy of Henley & Scott, insurance, arranged by Uncle John.

WEDNESDAY, APRIL 8—

12:30 to 1:30 p. m.—Program presenting Tommy Tibbetts and his Rendezvous Ballroom Orchestra from Crystal Beach, Santa Monica.

1:30 p. m.—Fred C. McNabb of Aggeler & Musser Seed Company, will give his weekly Garden Talk.

2:30 to 3:30 p. m.—Program presented through the courtesy of the Parent-Teacher Association of the First District, Los Angeles county.

6:30 to 7:30 p. m.—Children's program presenting Prof. Walter Sylvester Hertzog, in a story of American History. Dick Winslow, screen juvenile reporter. Baby Muriel MacCormac, screen juvenile. Mickey McBan, screen juvenile. Aaron Blackman, 8-year-old pianist.

7:30 to 8:00 p. m.—Program through the courtesy of the University of Southern California.

8:00 to 10:00 p. m.—Program through the courtesy of William H. Hyatt, building contractor, arranged by J. Howard Johnson.

10:00 p. m.—Program presenting the Piggly Wiggly Girls, through the courtesy of the Piggly Wiggly Stores.

THURSDAY, APRIL 9—

12:30 to 1:30 p. m.—Program presenting White's Californians.

2:30 to 3:30 p. m.—Matinee musicale through the courtesy of the Pacific States Electric Company.

3:30 to 4:00 p. m.—Reading by S. E. Mellonino.

6:30 to 7:30 p. m.—Children's program presenting Prof. Walter Sylvester Hertzog, in a story of American History. Mabel Hunt, 7-year-old reader, pupil of Mrs. Leland Moore. Dickie Brandon, screen juvenile. Jane Hughes, screen juvenile.

7:45 p. m.—Weekly "Care of the Body" talk by Dr. Philip M. Lovell.

8:00 to 10:00 p. m.—De Luxe program.

FRIDAY, APRIL 10—

12:30 to 1:30 p. m.—Program presenting Coy Barkley and his Palace Ballroom Orchestra.

2:30 to 3:30 p. m.—Matinee musicale through the courtesy of the Pacific States Electric Company.

6:30 to 7:30 p. m.—Children's program presenting Prof. Walter Sylvester Hertzog in a story of American History. Richard Headrick, screen juvenile. Vyola Von, screen juvenile. Mary Gertrude Gallagher, child reader. Piggly Wiggly Hawaiian Trio.

7:30 p. m.—Weekly talk by Gladys De Witt of the Santa Fe Railway on "The Romance of the Santa Fe Trail."

8:00 to 10:00 p. m.—Program through the courtesy of John Wright, the Right Tailor, arranged by Uncle John.

SATURDAY, APRIL 11—

12:30 to 1:30 p. m.—Program presenting Warner's Southern Californians. Kathryn Von Stein, violinist.

2:30 to 3:30 p. m.—Matinee musicale through the courtesy of the Pacific States Electric Company.

7:00 to 11:00 p. m.—Uncle John's KHJ "Catalina Easter Caravan" presenting diversified program at Avalon Theatre, free to the public, and featuring KHJ artists.

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SUNDAY, APRIL 5—

- 10:30 to 12:30 p. m.—Temple service radiocast from the pulpit. Music by the Choir, male quartet, and soloists. Sermon by Aimee Semple McPherson. Esther Fricke Green, organist.
- 2:30 to 4:30 p. m.—Afternoon service with dispensational sermon of the pastor-evangelist. Music by the Choir, Band and soloists.
- 7:00 to 9:45 p. m.—Complete evening service. Special Musical Hour program, featuring the Choir and Band under the direction of Gladwyn N. Nichols. Helen Stanhope, soprano; Sarah Karcher, violinist, special features. Followed by the evangelistic sermon of Aimee Semple McPherson, with Altar Call and After Service.
- 10:00 to 11:00 p. m.—Organ recital program of Esther Fricke Green, assisted by the Angelus Temple Girls' Quartet, and Gladwyn Nichols, trumpeter. Organ numbers will include (1) Hour of Devotion (Bossi); (2) Palm Sunday (Mailley); (3) Reverie (Dubois).

TUESDAY, APRIL 7—

- 10:30 a. m. to 12:00 noon.—Sunshine Hour program of song, music, sermon and prayer, conducted by Gladwyn N. Nichols. Musical program arranged by Essie Binkley Locey.
- 3:30 to 4:30 p. m.—Afternoon organ recital program of Esther Fricke Green, assisted by Sarah Karcher, violinist, and Helen Stanhope, soprano. Organ numbers will include: (1) A Lenten Meditation (Albert Ketelbey); (2) Passion Chorale (Max Reger); (3) Prayer (Lemaigre).
- 6:30 to 7:30 p. m.—Angelus Hour program presented by Edward La Miller, baritone and assisting artists.

WEDNESDAY, APRIL 8—

- 10:30 a. m. to 12:00 noon.—Sunshine Hour program personally conducted by Aimee Semple McPherson. Margaret Kennedy, soprano; Maude Irvin, pianist and violinist; John Kennedy, baritone; Fanny Ashby, soprano; Alfred Stark, baritone. Amanda Garden, reader.
- 2:30 to 4:30 p. m.—Auditorium service. Sermon on Divine Healing by Aimee Semple McPherson. Testimonials of healing. Music by the Ladies Revival Chorus and soloists. Esther Fricke Green at the organ.
- 6:30 to 7:30 p. m.—Angelus Hour radiocast from the Gray Studio. Ruth Thomas, pianist; John Kennedy, baritone; Mildred Kirtley, singing evangelist; Ruth Russell, soprano; Helen Bigley, reader; Frances Mehl, whistler; Carol Nelson, age 11.

THURSDAY, APRIL 9—

- 10:30 a. m. to 12 noon.—Radio Bible School, Sunshine Musical program and prayer for the sick and afflicted of Radioland. Mrs. McPherson's own hour. Music by the Boys' Quartet, Helen Elliott and Sidney Drew in duets; Essie Binkley Locey, cornetist, and Margaret Kennedy, soprano.
- 3:30 to 4:30 p. m.—Afternoon organ recital program of B. Earnest Ballard, assisted by Margaret Kennedy, soprano.
- 7:30 to 9:15 p. m.—Auditorium service. Water Baptism and evangelistic sermon of Aimee Semple McPherson. Music by the choir and soloists.
- 9:15 to 10:00 p. m.—Gray Studio program featuring the Temple Choir under the direction of G. N. Nichols, with assisting soloists.
- 10:00 to 11:00 p. m.—Organ recital program of Esther Fricke Green, assisted by Gladys Imla, soprano; Gladwyn Nichols, trumpeter, and Edna Joyce Meisener, soprano. Organ numbers will include (1) Gethsemane (Malling), (2) Our Father Who Art in Heaven, Chorale from the 6th Sonata (Mendelssohn); (3) A Lenten Supplication (Rudolph Dittich).

FRIDAY, APRIL 10—

- 10:30 a. m. to 12:00 noon.—Radio Bible School, Sunshine Musical program and prayer for the sick and afflicted of Radioland, conducted by Aimee Semple McPherson. Music by the Girls' Quartet, Saxophone quartet; Mr. and Mrs. Wahner, duets; Fanny Ashby and Margaret Kennedy, sopranos.
- 3:30 to 4:30 p. m.—Organ recital program of B. Earnest Ballard, assisted by Miss Flora Fields, soprano.
- 7:30 to 9:15 p. m.—Auditorium service. Easter Cantata, "The Crucifixion," by the Angelus Temple Choir. Alfred C. Green, tenor; Earl Houk, baritone, assisting.
- 9:15 to 10:00 p. m.—Judge Carlos S. Hardy of the Superior Court speaking on "Some Incidents and Experiences in My Criminal Court Room." Music by the Silver Band and Esther Fricke Green, piano soloist.
- 10:00 to 11:00 p. m.—Organ recital program.

SATURDAY, APRIL 11—

- 10:30 a. m. to 12:00 noon.—Sunshine Hour conducted by Gladwyn Nichols. Margaret Kennedy, soprano; Lorine and Margaret Cederquist in duets; Hilda Fatland, harpist; Ruth Russell, soprano; Mr. and Mrs. Anderson in duets; Inglewood String Trio.
- 3:30 to 4:30 p. m.—Studio program and organ recital. B. Earnest Ballard, Blanche Clay, Gladwyn Nichols and others. Impromptu.
- 7:30 to 9:30 p. m.—Auditorium service. Divine healing testimonies. Special Music. Sermon by Aimee Semple McPherson. Altar Call.

K N X—Los Angeles Evening Express—337 Meters

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PROGRAM FOR WEEK OF APRIL 4-10

DAILY EXCEPT SUNDAY—

- 7:30 a. m.—Setting-up exercises by J. C. Casey, physiotherapist.
- 8:00 a. m.—Inspirational talk and morning prayer.
- 9:10 a. m.—"Hired Hand's Morning Message, Birthday Notices and News."
- 10:30 a. m.—Kate Brew Vaughn, director Household Economics, Evening Express.
- 11:00 a. m.—News of 25 and 50 years ago and K N X temporary program.
- 12:00 m. to 1:00 p. m.—Time signals from Washington, D. C., followed by Wurlitzer organ concert from Wurlitzer Studio.
- 2:00 to 4:00 p. m.—K N X temporary program.
- 5:00 p. m.—Market reports.
- 5:45 p. m.—Organ recital from Wurlitzer Studio and Sid Ziff "Sport Talk."

SATURDAY, APRIL 4—

- 1:00 p. m.—Forbes Van Why Radio Talk.
- 3:00 p. m.—Hired Hand and His Pals.
- 6:15 to 7:30 p. m.—Dinner hour program.
- 7:30 to 8:00 p. m.—Wurlitzer organ recital from Wurlitzer Studios.
- 8:00 to 9:00 p. m.—El Encanto Apartments courtesy program.
- 9:00 to 10:00 p. m.—Courtesy program by Ross M. Boggs, president and manager Hotel Van Nuys; Amme Ebert, violiniste; Fordice Hunter, pianist; Fred Gutterson.
- 10:00 to 11:00 p. m.—Hotel Ambassador, Abe Lyman's Coconut Grove Orchestra.
- 11:00 p. m. to 2:00 a. m.—Hollywood Nite.

SUNDAY, APRIL 5—

- 10:00 a. m. to 12:00 m.—First Presbyterian Church of Hollywood.
- 5:00 to 6:15 p. m.—Radio Sunset Service, Wilshire Congregational Church, conducted by Rev. Charles F. Asked, D.D., LL.D., and Rev. Frank Dyer, D.D.
- 7:00 to 8:00 p. m.—First Presbyterian Church of Hollywood.
- 8:00 to 9:00 p. m.—Ambassador Concert Orchestra, Josef Rosenfeld leader.
- 9:00 to 11:00 p. m.—Courtesy program by R. C. Durant.

MONDAY, APRIL 6—

- 4:00 p. m.—Joe Lyons, tenor.
- 6:30 to 7:30 p. m.—Dinner hour program sponsored by El Encanto Apartments.
- 7:30 p. m.—Columbia Outfitting Company courtesy program.
- 8:00 to 10 p. m.—Feature program.
- 10:00 to 11:00 p. m.—Silvertown Orchestra and Lillian May Challenger, soloist. Courtesy of B. F. Goodrich Company, Akron, Ohio.
- 11:00 to 12:00 p. m.—Hotel Ambassador, Abe Lyman's Coconut Grove Orchestra.

TUESDAY, APRIL 7—

- 9:00 a. m.—State Board of Education.
- 1:00 p. m.—Beverly Hills Nurseries, by Mr. Chenowith.
- 4:00 p. m.—Helen's Household Hints.
- 6:30 to 7:30 p. m.—Courtesy program by Globe Ice Cream Company.
- 7:30 p. m.—Style talk by Myer Siegel, Jr., of Myer Siegel & Co.
- 7:45 p. m.—Talk on health by Dr. Robert T. Williams.
- 8:00 to 9:00 p. m.—Elite Catering Co. courtesy program.
- 9:00 to 10:00 p. m.—Independent Furniture Manufacturing Co.
- 10:00 to 12:00 p. m.—(Movie Night) Hotel Ambassador, Abe Lyman's Orchestra.

WEDNESDAY, APRIL 8—

- 6:15 to 7:00 p. m.—Dinner hour program.
- 7:00 to 8:00 p. m.—Ambassador Concert Orchestra—Josef Rosenfeld, leader.
- 8:00 to 9:00 p. m.—Security Trust and Savings Bank courtesy program.
- 9:00 to 10:00 p. m.—Clear Lake Beach Co. courtesy program.
- 10:00 to 12:00 p. m.—Hollywoodland Dance Orchestra.

THURSDAY, APRIL 9—

- 4:00 p. m.—Estelle Lawton Lindsay's Travel Talk.
- 6:30 to 7:30 p. m.—Los Angeles County Assn. of Optometrists—Ziegler's Orchestra.
- 8:00 to 10:00 p. m.—Atwater Kent Radio Co. present Timmner Trio.
- 10:00 to 11:00 p. m.—Hotel Ambassador—Abe Lyman's Coconut Grove Orchestra.
- 11:00 to 12:00 p. m.—Campus Night—Students of University of California, Southern Branch.

FRIDAY, APRIL 10—

- 11:30 a. m.—Estelle Lawton Lindsay's Talk to Women.
- 1:00 p. m.—Mr. A. Peters of Germain Seed Co.
- 4:00 p. m.—Veda Knapp, Music Appreciation.
- 6:15 to 7:30 p. m.—Beverly Ridge Co. courtesy program.
- 7:30 p. m.—Eastern Outfitting Co. courtesy program.
- 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.—Feature program.
- 11:00 to 12:00 p. m.—Hotel Ambassador—Abe Lyman's Coconut Grove Orchestra.
- 12:00 to 2:00 a. m.—Wurlitzer Studio—Night Hawks.

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 5:00 to 5:30 Daily except Sunday: Table Talks by Alice Irwin, Stock Reports and News Bulletins
 "Hastings," Program Director and Announcer
 (Subject to Change)

MONDAY, APRIL 6—

7:00 to 8:00 p. m.—Parry's orchestra.

8:00 to 9:00 p. m.—Janet McDonald's Co-Eds. Clarabelle Wood Beck vocalist.

WEDNESDAY, APRIL 8—

Silent.

FRIDAY, APRIL 10—

Silent.

K J S—Bible Institute Radiophone—293 Meters

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SUNDAY, APRIL 5—

10:45 a. m. to 12:30 p. m.—Regular service of the Church of the Open Door, including sermon by Dr. John M. MacInnis. Musical program in charge of Mr. J. B. Trowbridge assisted by Mr. A. J. Greeves, soloist; Mr. Alfred A. Butler, organist, and Chorus Choir of 100 voices.

6:00 to 6:45 p. m.—Radio Vesper service with sermon by Rev. John A. Hubbard. Mrs. Marian Muller, soprano soloist; Miss Mary Bishop, organist.

7:15 to 9:30 p. m.—Sermon by Dr. John M. MacInnis. Musical program under the direction of Mr. J. B. Trowbridge, assisted by Mr. Alfred A. Butler, organist; Bible Institute Glee Club, and Chorus Choir.

TUESDAY, APRIL 7—

8:00 to 9:00 p. m.—Musical program given by the Salvation Army Band.

THURSDAY, APRIL 9—

8:00 to 9:00 p. m.—Exposition of the Whole Bible Sunlay School lesson by Miss Winifred Rouzee. Organ prelude.

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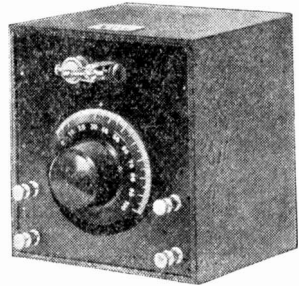
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PROGRAM FOR WEEK OF APRIL 4 TO APRIL 11 (Inclusive)
 Subject to Change

SATURDAY, APRIL 4—

7:45 to 9:00 p. m.—Seven Rag Pickers. Dean Bruce. Georgia Stark.
 9:00 to 10:00 p. m.—Cora Thorn Bird. Kitty Rogers and Betty Mathews ukelele, piano and songs. Hawaiian Night Hawks. Humoresque Trio. Leonard M. Van Berg, singer. Jeanette Dace, pianist.
 10:00 to 11:00 p. m.—Warner Bros. program, conducted by Harry Seymour.
 11:00 p. m. to 1:00 a. m.—Montmartre Cafe.

SUNDAY, APRIL 5—

9:00 p. m.—Moving Picture Studio Night.

MONDAY, APRIL 6—

7:45 to 9:00 p. m.—John A. Evans Corporation program: 1, Brown's Orchestra. 2, Gamut Male Quartette.
 9:00 to 10:00 p. m.—Cheek Neal Coffee Company's program: 1, Maxwell House Coffee Stringed Quartette, Harry Jackson leading. 2, Humoresque Trio. 3, Salvador Ordowy.
 10:00 to 11:00 p. m.—Warner Bros. program, conducted by Harry Seymour.
 11:00 p. m. to 1:00 a. m.—Montmartre Cafe.

TUESDAY, APRIL 7—

7:45 p. m.—L. W. Stockwell Company's program (manufacturers of Stockwell Never-Stretch mattresses): 1, W. S. Horton, singer. 2, Titian Trio. 3, Miller International Trio.
 9:00 to 10:00 p. m.—Merton Goddard, popular singer. Original Hollywood Californians.
 10:00 to 11:00 p. m.—Warner Bros. program, conducted by Harry Seymour.
 11:00 p. m. to 1:00 a. m.—Montmartre Cafe.

WEDNESDAY, APRIL 8—

7:45 to 9:00 p. m.—Arrowhead Springs Water Company's program: 1, Arrowhead Springs Orchestra. 2, Myranna Richards, singer.
 9:00 to 10:00 p. m.—Billy Lynn. Bill Hatch. Dot Street. Charlie Wellman. Billie Dunn.
 10:00 to 11:00 p. m.—Warner Bros. program, conducted by Harry Seymour.
 11:00 p. m. to 1:00 a. m.—Montmartre Cafe.

THURSDAY, APRIL 9—

7:45 to 9:00 p. m.—Varsity Trio. Charles Rumsey, baritone. Brownie's Orchestra.
 9:00 to 10:00 p. m.—Elite Radio Company's program.
 10:00 to 11:00 p. m.—Warner Bros. program, conducted by Harry Seymour.
 11:00 p. m. to 1:00 a. m.—Montmartre Cafe.

FRIDAY, APRIL 10—

7:45 to 9:00 p. m.—Ina Mitchell Butler, singer. Kitty Rogers and Betty Mathews.
 9:00 to 10:00 p. m.—Merryland Ball Room Orchestra. Also singers.
 10:00 to 11:00 p. m.—Warner Bros. program, conducted by Harry Seymour.
 11:00 p. m. to 1:00 a. m.—Montmartre Cafe.

SATURDAY, APRIL 11—

7:45 to 9:00 p. m.—Seven Rag Pickers. Leonard M. Van Berg. Jeanette Dave, pianist.
 9:00 to 10:00 p. m.—Bradley Wright. Margaret Kernan, singer. Cora Thorne Bird. Kitty Rogers and Betty Mathews.
 10:00 to 11:00 p. m.—Warner Bros. program, conducted by Harry Seymour.
 11:00 p. m. to 1:00 a. m.—Montmartre Cafe.

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PROGRAM FOR WEEK COMMENCING SUNDAY, APRIL 5, 1925

SUNDAY, APRIL 5—

- 10:45 to 12:00 noon—Service, sermon and music of the First Congregational Church, Dr. Henry Kendall Booth, D. D., pastor. The Press-Telegram Sunday church broadcast.
- 6:00 to 6:30 p. m.—Amusement Bulletin.
- 6:30 to 7:00 p. m.—The Virginia Hotel Ladies Trio.
- 7:00 to 7:30 p. m.—The Builders Exchange Trio.
- 8:00 to 9:00 p. m.—The Echophone Radio Company, broadcasting the Service, sermon and music of the First Church of Christ, Science.
- 9:00 to 11:00 p. m.—The Echophone Radio Company program, featuring the Jack Rabbit Racer Versatile Players' Orchestra.

MONDAY, APRIL 6—

- 5:30 to 6:00 p. m.—Press-Telegram late news radiocast from Press-Telegram Building.
- 6:00 to 6:30 p. m.—Amusement Bulletin.
- 6:30 to 7:00 p. m.—Hotel Virginia Ladies Trio.
- 7:00 to 7:30 p. m.—Long Beach Builders' Exchange program.
- 7:30 to 8:00 p. m.—Echophone Radio Company's Musical Half Hour, featuring the Cinderella Ballroom Orchestra, under the direction of Jack Levine.
- 8:00 to 9:00 p. m.—The Press-Telegram program, featuring the Community Service program, at the Municipal Auditorium.
- 9:00 to 11:00 p. m.—The Virginia Hotel Ballroom Orchestra, under the direction of Ted Henkle.

TUESDAY, APRIL 7—

- 2:30 to 4:00 p. m.—The Long Beach Municipal Band, under the direction of Herbert L. Clarke. Soloists today: Saxophone Quartet, Messrs. Harold B. Stephens, Eddie Klein, Leon E. Weir, James E. Son, "Can't You Hear Me Calling, Caroline?" (Caro Roma); Herbert L. Clarke, world's premier cornet soloist and director of the band, "Roberto Toi Que J'Amie" (Meyerbeer).
- 5:30 to 6:00 p. m.—The Press-Telegram late news radiocast from new Press-Telegram Building.
- 6:00 to 6:30 p. m.—Amusement Bulletin.
- 6:30 to 7:00 p. m.—Virginia Hotel Ladies Trio.
- 7:00 to 7:30 p. m.—The Long Beach Builders' Exchange Trio.
- 7:30 to 8:00 p. m.—The Echophone Company, featuring the first half of the Long Beach Municipal Band program.
- 8:00 to 9:00 p. m.—The Press-Telegram program, under direction of Miss Phyllis Randall, violin soloist.
- 9:00 to 11:00 p. m.—The Virginia Hotel Ballroom Orchestra.

WEDNESDAY, APRIL 8—

- 2:30 to 4:00 p. m.—The Long Beach Municipal Band. Soloists today: Cecil E. Tozier, clarinet, "Concertino" (Von Weber); Donald E. Ellis, euphonium, "I Hear You Calling Me" (Marshall).
- 5:30 to 6:00 p. m.—The Press-Telegram late news radiocast from the new Press-Telegram Building.
- 6:00 to 6:30 p. m.—Amusement Bulletin.
- 6:30 to 7:00 p. m.—The Virginia Hotel Ladies Trio.
- 7:00 to 7:30 p. m.—The Long Beach Builders' Exchange Trio.
- 7:30 to 8:00 p. m.—The Echophone Company, featuring the first half of the Long Beach Municipal Band program.
- 8:00 to 9:00 p. m.—The Press-Telegram program, under the direction of L. D. Frey, director of music at the First Christian Church.
- 9:00 to 11:00 p. m.—The Virginia Hotel Ballroom Orchestra.

THURSDAY, APRIL 9—

KFON Silent, Afternoon and Evening.

FRIDAY, APRIL 10—

- 2:30 to 4:00 p. m.—The Long Beach Municipal Band. Soloists today: Harold B. Stephens, saxophone, "Yvonne" (Wiedoeft); Charles E. Seeley, xylophone, "The Westerner" (Gill).
- 5:30 to 6:00 p. m.—The Press-Telegram late news radiocast from the new Press-Telegram Building.
- 6:00 to 6:30 p. m.—Amusement Bulletin.
- 6:30 to 7:00 p. m.—The Virginia Hotel Ladies Trio.
- 7:00 to 7:30 p. m.—The Long Beach Builders' Exchange Trio.
- 8:00 to 9:00 p. m.—The Press-Telegram, featuring a special Easter program.
- 7:30 to 8:00 p. m.—The Echophone Company, featuring the first part of the Long Beach Municipal Band program.
- 9:00 to 11:00 p. m.—The Virginia Hotel Ballroom Orchestra.

SATURDAY, APRIL 11—

- 2:30 to 4:00 p. m.—The Long Beach Municipal Band. Soloists today: August H. Neumann, piccolo, "Souvenir de Liege" (Demare); Herbert L. Clarke, world's premier cornetist and director of the band, "My Love For You" (Clarke).
- 5:30 to 6:00 p. m.—The Press-Telegram late news radiocast from the new Press-Telegram Building.
- 6:00 to 6:30 p. m.—Amusement Bulletin.
- 6:30 to 7:00 p. m.—The Virginia Hotel Ladies Trio.
- 7:00 to 7:30 p. m.—The Long Beach Builders' Exchange Trio.
- 7:30 to 9:00 p. m.—The Press-Telegram, presenting the entire program of the Long Beach Municipal Band, under the direction of Herbert L. Clarke.
- 9:00 to 11:00 p. m.—The Virginia Hotel Ballroom Orchestra.

K F R C—The Radioart Corporation—267.7 Meters

SAN FRANCISCO

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SUNDAY, APRIL 5—

6:30 to 7:30 p. m.—Concert by Stanislas Bem's Little Symphony playing in Drury Lane, Hotel Whitcomb.

7:30 to 8:00 p. m.—KFRC silent for distance period.

8:00 to 10:00 p. m.—Concert by Bem's Little Symphony.

10:00 to 12:00 p. m.—Dance music by Paul Kelli's Orchestra playing at Il Trovatore Roof Garden Cafe, Broadway and Kearny Streets, and broadcast by direct wire through KFRC. Special studio program during intermissions.

MONDAY, APRIL 6—

10:00 a. m.—"Household Hints for the Housewife," talk by Mary Lewis Haines, domestic science editor of the Call.
Silent night.

TUESDAY, APRIL 7—

8:03 to 10:00 p. m.—Dance music by Paul Kelli's Orchestra playing at Il Trovatore Roof Garden Cafe and broadcast by direct wire through KFRC. Intermission studio program featuring Mort Harris, soloist.

WEDNESDAY, APRIL 8—

10:00 a. m.—"Household Hints," talk by Mary Lewis Haines of the Call.

6:30 to 7:30 p. m.—Concert in Drury Lane, Hotel Whitcomb by Stanislas Bem's Little Symphony, Eugenia Bem, conducting: Serenade (Toselli); (a) Mattinata (Leoncavallo); (b) Because (d'Hardelot); Voice of the Chimes (Luigini); From Italy (Langey).

7:30 to 8:00 p. m.—KFRC silent for distance period.

8:00 to 9:00 p. m.—Concert by Bem's Little Symphony.

9:00 to 9:30 p. m.—Studio program: Soprano Solo—Elegie (Massenet); (b) Sing Me to Sleep (Grene), Agnes Rustigian, Grace Mosier, accompanist. Baritone Solos—(a) Gypsy Sweetheart, from the "Fortune Teller"; (b) Smilin' Through, "The Builder," Wylie Doran, Madelein Wolff Haury, accompanist. Tenor Solos—(a) Less Than the Dust (Finden); (b) Till I Wake (Finden), Fred B. Snook, Mrs. Fred B. Snook accompanist. KFRC Health Service address under auspices San Francisco County Medical Society.

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

11:00 p. m. to 1:00 a. m.—Dance music by Paul Kelli's Orchestra.

THURSDAY, APRIL 9—

8:03 to 10:00 p. m.—Dance music by Paul Kelli's Il Trovatore Roof Garden Cafe Orchestra.

FRIDAY, APRIL 10—

6:00 to 6:30 p. m.—Half hour of dance music by Ken Dogan's Hotel Whitcomb Dance Orchestra.

6:30 to 7:30 p. m.—Concert in Hotel Whitcomb by Stanislas Bem's Little Symphony Orchestra.

7:30 to 8:00 p. m.—KFRC silent for distance period.

8:00 to 9:00 p. m.—Concert by Bem's Little Symphony.

9:00 to 10:00 p. m.—Studio Program—Tenor solos—Selected, George Olmo, Vernon Haun, accompanist. Soprano solos—(a) Rendezvous, (b) Mighty Lonesome, Henriette Bruse, O. C. Stelling accompanist. Tenor solos—Selected, George Olmo. Violin solo—Sonata (Greig), Thomas Jussuf Dermott, Mme. Paula Angermuende accompanist. Tenor solos—Selected, Robert Baxter Todd. Violin solos—Tone Poem: Les Illusiones Perdues (Dermott); (b) Romance (Svendsen), Thomas Jussuf Dermott. Soprano solos—Sweet Dreams (Keyes), Old Pal, Henriette Bruse. Tenor solos—Selected, Robert Baxter Todd. "Vocational Talk," George F. DeKay Jr., employment director of the Y. M. C. A. Book Review by Lionel Houser of "The Wasp."

10:00 to 11:00 p. m.—Dance music by Paul Kelli's Orchestra. Intermission studio program featuring Paul Nelson, pianist.

SATURDAY, APRIL 11—

6:15 to 6:30 p. m.—Boob McNutt and Elmer Tuggle, the Call's Funny page characters will entertain the children.

6:30 to 7:30 p. m.—Dance music from Hotel Whitcomb by Ken Dogan's Hotel Whitcomb dance orchestra.

Silent night.

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OLIVER W. TUTTLE, Managing-Director, Radio KPO**DAILY EXCEPT SUNDAY—**

7:00 a. m.—"Daily Dozen" (health exercises) by Bernard Drury; piano accompaniment by Mel Lyons.

10:30 a. m.—"Ye Town Cryer" News Bulletins of the World.

10:40 a. m.—"What is playing at the various theatres."

11:50 a. m.—Market report on eggs, butter, cheese and poultry under the auspices of California Poultry Producers Association.

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

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

SUNDAY, APRIL 5—

11:00 to 12:00 noon—Undenominational and non-sectarian church services. The speaker is Dr. C. O. Lindquist, pastor, Ebenezer Evangelical Swedish Church. Soloist, Mrs. Gynn Jones Tebaulty contralto. Violin selections by Fonmin Cardona. Organ selection by Theodore J. Irwin.

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

MONDAY, APRIL 6—

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

5:30 to 6:30 p. m.—Children's hour stories by Big Brother of KPO

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

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

9:00 to 10:00 p. m.—San Francisco Conservatory of Music program of Easter music. Due to the fact that this is Holy Week, the Palace dance music will not be broadcast.

TUESDAY, APRIL 7—

10:00 a. m.—Chat for the housewives on "Home Making" by Prudence Penny of the San Francisco Examiner.

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

5:30 to 6:30 p. m.—Children's hour stories by Big Brother of KPO

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

8:00 to 10:00 p. m.—Program by the U. S. Army Band. Due to the fact that this is Holy Week, the Palace Hotel dance music will not be broadcast.

WEDNESDAY, APRIL 8—

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

5:30 to 6:30 p. m.—Children's hour stories by Big Brother of KPO, taken from the Book of Knowledge. "What Is Playing at the Local Theatres."

7:00 to 7:30 p. m.—Program by the Conn Band Instrument Co., Reg Code, director.

8:00 to 9:00 p. m.—Program by Atwater Kent artists, presented by the Atwater Kent Radio Co.

9:00 to 10:00 p. m.—Program of instrumental and vocal music under the auspices of the Merrill & Merrill Musical Instrument Brokers.

THURSDAY, APRIL 9—

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

5:30 to 6:30 p. m.—Children's hour stories by Big Brother of KPO

6:30 p. m.—"What Is Playing at the Local Theatres."

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

8:00 to 10:00 p. m.—Program under the management of Dean Gross, baritone.

FRIDAY, APRIL 10—

10:00 a. m.—Chat for the housewives on "Home Making" by Prudence Penny of the San Francisco Examiner.

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

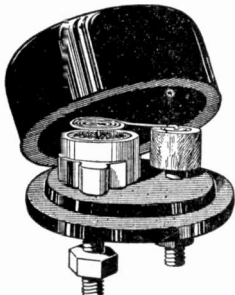
4:30 to 5:30 p. m.—Rudy Seiger's Fairmont Hotel orchestra, by wire telephony.

8:00 to 10:00 p. m.—The Oratorio "Seven Last Words of Christ," under the direction of R. C. Brown.

SATURDAY, APRIL 11—

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

8:00 to 10:00 p. m.—Program by the St. Michaels Choir.



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(Pacific Time)

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

SUNDAY, APRIL 5—

10:15 a. m.—Annual Communion and Breakfast, Knights of Columbus, San Francisco Council No. 615, held at the Hotel St. Francis. Toastmaster: Edward F. Jones. Speakers: Archbishop E. J. Hanna, Rev. John W. Sullivan, Hon. Thomas P. White, Rev. Charles Carroll, F. J.
3:30 p. m.—Concert by the KGO Little Symphony Orchestra, Carl Rhodehamel conducting; assisted by Arthur S. Garbett and guest artists. Orchestra: Waltz—Romantic Fancies (Ganne). Overture—Paragraph III (Suppe). Suite—Peer Gynt (Grieg). Guest artist: Tenor solos—(a) If With All Your Hearts (Elijah) (Mendelssohn); (b) Nirvana (Adams), Gwynfi Jones. Orchestra: Two Old Favorites—(a) The Secret (Gautier); (b) Serenata (Moszkowski). Guest artist: Piano solos—(a) Egeria (Kroeger); (b) Waltz in A Flat (Brahms); (c) Romance (Rebikoff), Cecil Hollis Stone. Tenor solos—(a) The Lord Is My Light (Allitson); (b) Mate o' Mine (Elliott), Gwynfi Jones. Orchestra—Danse Macabre (Saint-Saens). Comment by Arthur S. Garbett. Yaksha (Dance of Hundo Gnomes) (Berge), Menuet (Paderewski).
7:30 p. m.—Service of the First Congregational Church, San Francisco, Rev. James L. Gordon, D.D., pastor.

MONDAY, APRIL 6—

8:00 p. m.—Educational program. Selection from "Tanhauser" (Wagner). Calm as the Night (Gotze), Arion Trio. Agricultural Course—"The Origin, Formation and Development of Soil" C. F. Shaw, Professor of Soil Technology. College of Agriculture, University of California. Invitation to the Dance (Weber), Arion Trio. "A Lesson in English" Wilda Wilson Church. Piano solo—If I Were a Bird (Henselt), Joyce Holloway Barthelson. "How to Get Out of a Rut" Albertine Richards Nash, Consulting Psychologist. 'Cello solo—Arioso (Bach), Margaret Avery. "Chats About New Books" Joseph Henry Jackson, Literary Editor, Sunset Magazine.
10:00 p. m. to 1:00 a. m.—Dance music program by Henry Halstead's Orchestra and soloists, Hotel St. Francis, San Francisco.

TUESDAY, APRIL 7—

8:00 p. m.—Studio program. Program by the KGO Little Symphony Orchestra, Carl Rhodehamel conducting; assisted by Arthur S. Garbett, musical interpretative writer; Mrs. Clarence W. Page, contralto, and Miriam Bubb, pianist. Valse Lente—Memories (Duvall). Grand Fantasia—Faust (Gounod). Musical discussion—"Auber, Humorist and Musician" Arthur S. Garbett. (Listeners are requested to write their opinions.) Overture—Fra Diavolo (Auber). Woodland Sketches (MacDowell). To a Wild Rose, Will o' the Wisp, At an Old Trysting Place, In Autumn, From an Indian Lodge. Contralto solos—(a) Psyche (Paladilhe); (b) Romeo in Georgia (Prindle Scott), Mrs. Clarence W. Page, Mrs. Alice Otto, accompanist. Three Old Favorites—(a) Melody in F (Rubinstein); (b) Polish Dance (Scharwenka); (c) Spring Song (Mendelssohn). Contralto solos—(a) A Memory (Ellingham); (b) Leaves and the Wind (Leoni); (c) Beautiful Land of Nod (Alice Otto), Mrs. Clarence W. Page.
10:00 p. m. to 1:00 a. m.—Dance music program by Henry Halstead's orchestra and soloists, Hotel St. Francis, San Francisco.

WEDNESDAY, APRIL 8—

Silent Night.

THURSDAY, APRIL 9—

8:00 p. m.—Studio program. "Civilian Clothes." A drama in three acts, presented by the KGO players under the direction of Wilda Wilson Church. Music by the Arion Trio. Characters—Billy Arkwright, General McKinnery, Jack Rutherford, Mr. Lanham, the father; Mrs. Lanham, the mother; Florence Lanham, Elizabeth Lanham, daughters; Sam McGinnis, McGinnis Sr., Sam's father; Bess Henderson, Nora, the maid, Bell Boy (colored), Sack Hart. Kamemno Ostrow (Rubinstein), Arion Trio. Act I—The Lanham Library, Louisville, Kentucky. A winter afternoon in 1919. Mazurka (Wieniawski), Arion Trio. Act II—Scene I—The Lanham Dining Room, one month later. Scene II—Same as Scene I. Meditation (Massenet), Arion Trio. Act III—Scene I—The Parlor of the Grunewald Hotel, New Orleans. After dinner, three days later. Scene II—Sam's room in the Grunewald Hotel, the same night.
10:00 p. m. to 1:00 a. m.—Dance music program by Henry Halstead's Orchestra and soloists, Hotel St. Francis, San Francisco.

FRIDAY, APRIL 10—

Silent Night.

SATURDAY, APRIL 11—

8:00 p. m.—Studio program. "The Marriage of Figaro." Forbidden to be played in Paris when first written, because of its political background, the Opera Marriage of Figaro, by Mozart, was an instant success at "private rehearsals." No less prominent personages than Marie Antoinette herself patronized it on the initial showings. A comedy role for the landlord and limes extolling the servant were then objectionable. But today's radio audience will hardly notice all of that and will love the work for its sheer beauty and artistry. Laid out into four acts, and told by eight characters in the plot, "The Marriage of Figaro" is preceded by a beautiful overture keenly alive with the wit and spirit of the comedy which is to follow. Given in concert form under the direction of George Von Hageel, through the courtesy of the Magnavox Company. Reader, John C. Manning; Susanna, Janet Malbon; Countess, Beatrice B. Heim; Cherubino (the page), Mrs. Herman Lissauer; Marcellina, Carrie Eulass; Figaro, Harold Dana; Count, Jack Edward Hillman; Dr. Bartola, Frederick Levin; Antonio, Horace Hirschler; Don Basilio, Frederick Hirschler.
10:00 p. m. to 1:00 a. m.—Dance music program by Henry Halstead's Orchestra and soloists, Hotel St. Francis, San Francisco.

KLX—Oakland Tribune Radiophone—508.2 Meters**DAILY EXCEPT SUNDAY—**

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

PROGRAM WEEK APRIL 5 TO 11**SUNDAY, APRIL 5—**

Silent all day and evening.

MONDAY, APRIL 6—

6:00 to 7:00 p. m.—Dinner Concert by Clement Barker, American theatre organist.

8:00 to 9:30 p. m.—Educational program: 1. Violin solo, Harriet French, Wilhelmina Wolthus, accompanist. 2. Interpretation of the national and international news of the past week, Ad Shuster, editor of the Tribune. 3. A talk on music and musicians, Roy Harrison Danforth, music editor of the Tribune. 4. Instrumental selection, KLX Trio. 5. "Communicable Disease and Summer Outings," vacation health hints, Dr. W. M. Dickie, State Board of Health. 5. "Textiles," a talk for women, Miss A. Swainson, University of California. 6. Instrumental selection. 7. "Military Training Camps," a talk on military training for the citizen. 8. Americanization, a talk by Captain S. N. Dancey. 9. Instrumental music.

9:30 to 10:00 p. m.—American Theatre Orchestra, John Wharry Lewis, conducting.

10:00 to 10:30 p. m.—Regular meeting of the Protective Order of Lake Merritt Ducks.

TUESDAY, APRIL 7—

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

Silent after 7:30 p. m.

WEDNESDAY, APRIL 8—

6:00 to 7:00 p. m.—Dinner concert by Dorothy Hawley, American Theatre organist.

8:00 to 8:45 p. m.—Studio program broadcast through the courtesy of the Piggy Wiggly company.

8:45 to 9:00 p. m.—Overture from the American Theatre by the American Theatre Orchestra.

9:00 to 10:00 p. m.—Americanization program broadcast under the auspices of Oakland Post No. 5 The American Legion.

10:00 to 12:00 p. m.—Music by Ted Gerunovich's Ballroom Entertainers.

THURSDAY, APRIL 9—

KLX silent after 7:30 p. m.

FRIDAY, APRIL 10—

6:00 to 7:00 p. m.—Dinner concert by Dorothy Hawley, American Theatre organist.

8:00 to 10:00 p. m.—Sacred Cantata, "Alleluja" (Stultz), sung by the Sunset Glee Club, under the direction of Walter H. Bundy.

10:00 to 10:30 p. m.—Music by Ted Gerunovich's Ballroom Entertainers.

SATURDAY, APRIL 11—

7:00 to 7:30 p. m.—News items, United States weather bureau forecast, market and financial news.

KLX silent after 7:30 p. m.

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The Times.....	4:00 to 5:15 p.m.—Daily except Sunday
Sherman, Clay & Co.....	8:30 to 10:00 p.m.—Daily except Thursday and Sunday
Hopper Kelly Co.....	6:45 to 8:15 p.m.—Monday and Friday
The Olympic Hotel.....	6:45 to 8:15 p.m.—Wednesday
	12:30 to 1:30 p.m.—Tuesday and Wednesday
	10:00 to 11:00 p.m.—Tuesday, Friday and Saturday
Seattle Chamber of Commerce.....	12:30 to 1:30 p.m.—Friday
Pacific States Electric Co.....	6:00 to 6:45 p.m.—Daily except Thursday and Sunday

SUNDAY, APRIL 5—
Silent.

MONDAY, APRIL 6—
12:45 to 1:30 p. m.—The Lions' Club luncheon program from the Olympic Hotel.
8:15 p. m.—Weather report.

TUESDAY, APRIL 7—
12:30 to 1:30 p. m.—Kiwanis Club luncheon program from the Olympic Hotel.
4:00 to 5:15 p. m.—The Times, Wm. F. Hoffman's Olympic Hotel Concert Orchestra.
6:45 to 8:15 p. m.—Program given by the Metropolitan Bldg. Co.
8:15 p. m.—Weather report.
10:00 to 11:00 p. m.—Eddie Harkness and his orchestra playing from the Marine Room of the Olympic Hotel.

WEDNESDAY, APRIL 8—
12:30 to 1:30 p. m.—The Rotary Club Luncheon program from the Olympic Hotel.
4:00 to 5:15 p. m.—The Times, Wm. F. Hoffman's Olympic Hotel Concert Orchestra.
6:45 to 8:15 p. m.—Hopper Kelly Co. program.
8:15 p. m.—Weather report.

THURSDAY, APRIL 9—
12:30 to 1:30 p. m.—Young Men's Business Club Luncheon program from the Olympic Hotel.
4:00 to 5:15 p. m.—The Times, Wm. F. Hoffman's Olympic Hotel Concert Orchestra.
6:00 to 7:00 p. m.—Studio program by the Moran School for Boys.
Evening silent.

FRIDAY, APRIL 10—
4:00 to 5:15 p. m.—The Times, Wm. F. Hoffman's Olympic Hotel Concert Orchestra.
6:45 to 8:15 p. m.—Sherman, Clay and Co. program.
8:15 p. m.—Weather report.
10:00 to 11:00 p. m.—Eddie Harkness and his orchestra playing from the Marine Room of the Olympic Hotel.

SATURDAY, APRIL 11—
4:00 to 5:15 p. m.—The Times, Wm. F. Hoffman's Olympic Hotel Concert Orchestra.
6:45 to 8:15 p. m.—Studio program by the Moran School for Boys.
10:00 to 11:00 p. m.—Eddie Harkness and his orchestra playing from the Marine Room of the Olympic Hotel.

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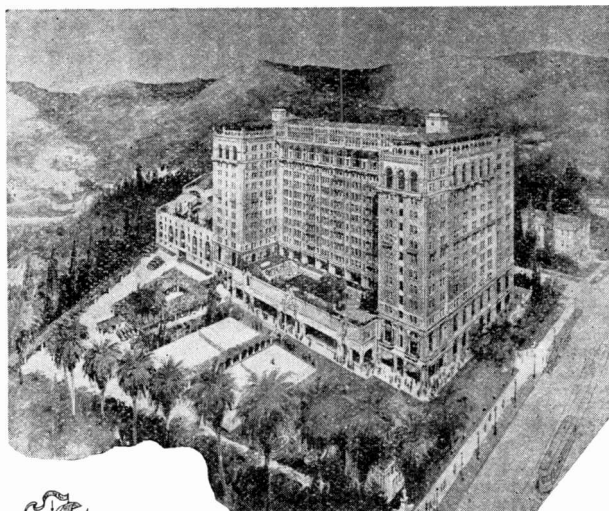
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12:30 to 1:00 p. m.—Market reports by A. A. Housman & Company.

1:00 to 1:30 p. m.—Post-Intelligencer musical.

6:00 to 6:30 p. m.—"What's Doing at the Theatres."

MONDAY, APRIL 6—

1:30 to 2:00 p. m.—Doris talk on styles.

8:30 to 10:00 p. m.—Post-Intelligencer studio program.

TUESDAY, APRIL 7—

1:30 to 2:00 p. m.—Bernice Redington, Home Economics talk.

WEDNESDAY, APRIL 8—

1:30 to 2:00 p. m.—Feature program.

8:30 to 10:00 p. m.—Post-Intelligencer Studio concert.

THURSDAY, APRIL 9—

1:30 to 2:00 p. m.—Bernice Redington, Home Economics expert of the Post-Intelligencer.

10:30 to 12:00 p. m.—Regular meeting of the "Keep Joy Radiating Order of 'The Bats' in their Belfry."

FRIDAY, APRIL 10—

1:30 to 2:00 p. m.—Book review by Raymond David Holmes, Post-Intelligencer Librarian.

8:30 to 10:00 p. m.—Post-Intelligencer studio recital.

SATURDAY, APRIL 11—

1:30 to 2:00 p. m.—Sports review by Royal Brougham, Sports Editor of the Post-Intelligencer.

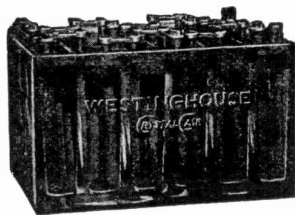
SUNDAY, APRIL 12—

11:00 a. m.—Church services of the First Methodist Episcopal Church, J. Ralph Magee, pastor.

7:00 p. m.—Evening vespers of the First Methodist Episcopal Church.

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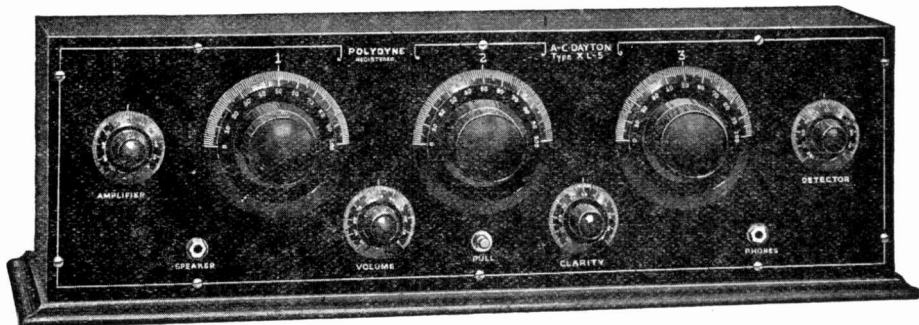
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Los Angeles, Calif.

W F A A—Dallas News-Journal—476 Meters

(PACIFIC TIME) DALLAS, TEXAS
PROGRAM FOR THE WEEK

REGULAR DAILY FEATURES—

- 10:30 a. m.—United States Weather Bureau report and forecast, highway condition bulletins, Dallas and general market reports.
 2:30 to 3:00 p. m.—Markets, bulletins.
 3:30 to 4:00 p. m.—Information, bulletins.
 4:30 to 5:00 p. m.—Sports, information.
 5:30 to 6:00 p. m.—Children stories by Miss Mary Carter Toomey.
 6:45 to 7:00 p. m.—Sports.
 9:30 p. m.—United States Weather Bureau report and forecast.

SPECIAL DAILY FEATURES—

MONDAY, APRIL 6—

- 10:30 to 11:00 p. m.—Address, Dr. J. D. Boon, professor of astronomy, Southern Methodist University.
 4:30 to 5:30 p. m.—Buddy's Blue Melody Boys Orchestra in vesper recital.
 6:30 to 7:30 p. m.—Magnolia Petroleum Company's Dallas Band, Paul E. Ashley directing.
 Station WFAA Conveys the Spirit of Texas to You and Invites You to Texas. All the Time Is Radio Time.

TUESDAY, APRIL 7—

- 10:30 to 11:00 a. m.—Address, health talk, by Charles E. Osborne, physical director of the Dallas Young Men's Christian Association; music.
 4:30 to 5:30 p. m.—Hauulea School of Hawaiian Music in faculty recital.
 6:30 to 7:30 p. m.—Musical recital by G. Haydn Jones and soloists from the choir of the First Presbyterian Church.
 9:00 to 10:00 p. m.—Organ recital at the Palace Theatre, Dwight Brown, solo organist, playing request numbers and original compositions.

WEDNESDAY, APRIL 8—

- 10:30 to 11:00 a. m.—Musical recital by Alex Hughes, pianist.
 Station WFAA will be silent for the remainder of the day.

THURSDAY, APRIL 9—

- 10:30 to 11:00 a. m.—Address, DeWitt McMurray, editor The Semi-Weekly Farm News, in a medley of humor, pathos and wisdom; music.
 4:30 to 5:30 p. m.—Lone Star Five's orchestra.
 6:30 to 7:30 p. m.—Opening of new organ and church building of East Dallas Christian Church.
 9:00 to 10:00 p. m.—Edward Cramer, first violinist at the Palace Theatre, in solo recital.
 10:00 to 11:00 p. m.—Hun't Imperial Orchestra, from Tulsa, Okla., playing at Lake Cliff Dancing Pavilion.

FRIDAY, APRIL 10—

- 10:30 to 11:00 a. m.—Address, Dr. Robert Stewart Hyer, president emeritus of Southern Methodist University, on the Sunday school lesson.
 2:30 to 3:00 p. m.—Woman's hour, Mrs. Bessie M. Tribble directing, in song, reading and instrumental music.
 4:30 to 5:30 p. m.—Paul Cretien and his banjo quintet, in vesper recital.
 6:30 to 7:30 p. m.—Trebble and Bass Clef Clubs, Mrs. Rosser Thomas directing.

SATURDAY, APRIL 11—

- 10:30 to 11:00 a. m.—Address, Epps G. Knight, business man and philosopher.
 1:30 to 3:00 p. m.—Musical recital, instrumental.
 4:00 to 5:00 p. m.—Henry Adler's orchestra in vesper recital.
 6:30 to 7:30 p. m.—Miss Evelyn Finty, soprano, and Mrs. Fred B. Ingram, pianist.
 9:00 to 10:00 p. m.—Adolphus Hotel Orchestra, playing in the junior ballroom.

SUNDAY, APRIL 12—(Easter)

- 4:00 to 5:00 p. m.—Radio Bible Class, Dr. William M. Anderson, pastor of the First Presbyterian Church, teacher; Bible study and Gospel singing.
 5:30 to 9:30 p. m.—Evening service of City Temple.
 7:30 to 9:00 p. m.—Alita Ladies' Band, Mort Herron directing, in sacred and secular recital.

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

FRIDAY, APRIL 3—

7:00 p. m.—Wm. Salisbury's Five Horsemen.

MONDAY, APRIL 6—

7:00 p. m.—Program under the auspices of the Evening Capital News.

FRIDAY, APRIL 10—

7:00 p. m.—Program through the courtesy of the Sampson Music Co.

K O B—New Mexico State Agricultural CollegeLOCATED AT STATE COLLEGE, NEW MEXICO—348.6 METERS—750 WATTS
PACIFIC TIME

DAILY PROGRAM—

11:55 a. m. to 12:00 noon—Standard Mountain Time signals.

12:00 to 12:02 p. m.—U. S. Weather Bureau weather reports.

12:02 to 12:10 p. m.—New Mexico Road Reports.

12:10 to 12:30 p. m.—News Briefs.

9:55 to 10:00 p. m.—Standard Mountain Time Signals.

10:00 to 10:02 p. m.—U. S. Weather Bureau weather reports.

10:02 to 10:10 p. m.—New Mexico Road Reports.

MONDAY, APRIL 6—

6:30 to 7:30 p. m.—Radio Talk: "Superstitions in Medicines, Part III," by Dr. McBride

WEDNESDAY, APRIL 8—

6:30 to 7:30 p. m.—International Code Course, Lesson No. 14, by Dean H. W. Goddard.

FRIDAY, APRIL 10—

6:30 to 7:30 p. m.—Popular Science Course, Lesson No. 14, by Dr. D. S. Robbins. Radio Talk:

"From the Stone Axe to the Band Saw," by D. M. Lang, Forest Service, U. S. D. A.

KFAE—State College of Washington—348.6 Meters

State College of Washington, Pullman, Washington.

(348.6 meter wave, 7:30 to 9 p. m., Pacific Time, Monday, Wednesday, Friday)

MONDAY, APRIL 6—

7:30 to 9:00 p. m.—Vocal Duets: Mrs. Herbert Kimbrough, contralto, and Miss Lusinn Barakian, soprano. 1—Duet of the Flowers, from Puccini's "Madame Butterfly." 2—Quis est Homo, from Rossini's "Stabat Mater." 3—When Twilight Weaves, Beethoven. Soprano solos—Miss Barakian. Violin solos—Dorothy Sage, Entiat; Concerto No. 2, DeBeriot. What to See in Venice, Prof. Carl M. Brewster. Our Moral Duty to Mental Defectives, Prof. F. W. Clower.

WEDNESDAY, APRIL 8—

7:30 to 9:00 p. m.—Soprano solos—Florence Lester, Seattle. 1—Looking-Glass River, by Carpenter. 2—The Birthday, by Woodman. 3—Robin, Robin, Sing Me a Song, by Stross. Piano solos—Thelma Johnson, Palouse. 1—Punch and Judy, Goosens. 2—Waltz, Chopin. 3—The Goldfish, Debussy. Marimbaphone Duets and Readings, Cooper Sisters, Pullman. (Clelah, Regina and Zora.) 1—Menuet, Beethoven; 2—Whispering Hope; 3— Sleepy Hollow Time.

FRIDAY, APRIL 10—

7:30 to 9:00 p. m.—Baritone solos—Prof. Heber Nasmyth. Piano solos—Mrs. Louise Nasmyth. Scotch Songs and Readings, Janet Rae, Tacoma: 1—When the Bonnie, Bonnie Heather is Blooming; 2—The Pipers o' Gordon's Men; 3—I'm Goin' to Marry 'Arry. Piano solos—Nathalia Balakshin, Tientsin, China; 1—Chopin's Funeral March; 2—Romance, Tchaikowsky.

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K O A—Rocky Mountain Broadcasting Station

323 METERS

GENERAL ELECTRIC CO., DENVER, COLORADO

Pacific Time

DAILY EXCEPT SUNDAY—

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

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

SUNDAY, APRIL 5—

10:30 a. m.—Palm Sunday service of the Augustana Lutheran church, Denver, Rev. E. G. Knock.

3:00 p. m.—Sunday afternoon music hour from Augustana Lutheran church, Denver. Organ—Festival Overture, F. Melius Christiansen. Shepherd Flute, F. Melius Christiansen. Hymn and Prayer, F. Melius Christiansen. Mrs. S. Clarence Trued. Cello solo—Les Rameaux (J. Faure), Luther Knock. Selections—Fond Memories (Zamecnik). Hope Eternal (Zamecnik), Augustana Orchestra. Violin Duet—Venetian Air (Kreisler), J. Albert Nyberg, Gladys Benson. Organ—The Unfinished Symphony (First Movement) (Schubert). Marche Militaire (Schubert). Cantilene Nuptiale (Dubois). The Lost Chord (Sullivan), Mrs. S. C. Clarence Trued.

6:30 p. m.—Service of the Augustana Lutheran church, Denver, Rev. E. G. Knock, pastor. Prelude—Supplication (Frysinger), Mrs. S. Clarence Trued. Hymn No. 61. Opening Service with Epistle Lesson and Creed. Oratorio—The Seven Last Words of Christ (Dubois). (Organ, piano and orchestral accompaniment.) Augustana Lutheran Choir. S. Clarence Trued, director; Mrs. S. Clarence Trued, organist; Fern Johnson, pianist; Mrs. Richard Osenbaugh, soprano; Ainslie C. Whyman tenor; Dr. Clyde Englund, basso. Sermon—The Glorious Humility of Christ, Rev. E. G. Knock, pastor. Offertory—Cavatina (Lawrence). Hymn No. 271. Closing Service. Benediction. Postlude—Kingdom of God (Rhys-Herbert).

MONDAY, APRIL 6—

7:10 p. m.—Studio program, arranged through the courtesy of the Pueblo, (Colo). Commerce club under direction of Thomas A. Christian. Mabel Stackus, accompanist. Choral Selections—(a) Rolling Down to Rio (German); (b) Song of the Vikings (Fanning). The Arion Chorus (16 voices.) Thomas A. Christian, director. Trombone solo—Il Belen Del Sou Sorrilo, from Il Trovatore (Verdi), H. C. Stillman. Soprano solo—Rose of My Heart (Lohr), Mrs. J. Vinson Adams. Choral Selection—Sailors' Chorus (Parry), Pueblo Male Octette. Accordion solos—(a) Gone (German); (b) Slovenian Waltz (German), Matt Jerman. Piano solo—Mephisto Minuet (Schwinger), Francis Schwinger. Baritone solo—Three for Jack (Squire), Thomas A. Christian. Piano solo—The Twelfth Hungarian Rhapsody (Liszt), Nellie Lina Long. Choral Selection—When Love Is Done (MacLean), Pueblo Ladies' Octette. Address—Out Where the West Begins, Frank S. Hoag, President Pueblo Commerce Club. Choral Selections—Slovenian Folk Songs, Songs of a Slavic People. Slovenian Double Male Quartet. Orchestra Selection—Hungarian Lustspiel (Keler-Bela), KOA orchestra, Lewis H. Chernoff, director. Soprano solo—Ave Maria (Gounod), Mrs. William J. Kidd. Violin Obligato by Roger Wheldon. Instrumental Trio—The Thunderbird Suite (Cadman). William O. Hauser, piano; M. D. Hospins, cello; Roger Wheldon, violin. Baritone solo—Until (Sanderson), Larry Hornung.

TUESDAY, APRIL 7—

Silent Night.

WEDNESDAY, APRIL 8—

7:10 p. m.—Studio program, arranged through the courtesy of the Denver Tourist bureau, Denver. Part I—Banjo solos—(a) Down South with My Banjo (Spencer); (b) El Princeps (Spencer), Charles Spencer. Soprano solo—Suicidio, from La Gioconda (Ponchielli), Ina Rains, Margaret Henderson, accompanist. Quartet—(a) Kerry Dance (Molloy); (b) Bill of Fare (Zollner), Olinger Male Quartet. Frank Farmer, first tenor; Royden S. Massey, second tenor; Everett E. Foster, first bass; Charles Reid, second bass. Tenor solos—(a) Fields O'Bally Clare (Mallet); (b) My Soul (Bond); (c) Irish Courtship (Lohr), Frank Farmer. Orchestra Selection—Menuet (Tanguay), KOA orchestra, Lewis H. Chernoff, director. Quartet—(a) Flag Without a Stain (White); (b) Ole Uncle Moon (Scott), Olinger Male Quartet. Bass solo—(a) The Armourer's Song (DeKoven); (b) The Big Bass Viol (Bohannon), Charles Reid. Quartet—Sunset (Van de Water), Olinger Male Quartet. Tenor solos—(a) Not Understood (Houghton); (b) Young Tom O'Devon (Russell), Frank Farmer. Soprano solo—There Is No Death (O'Hara), Ina Rains. Margaret Henderson, accompanist. Quartet—(a) Jenk's Vegetable Compound (Macy); (b) Drink to Me Only With Thine Eyes (Old English); (c) The Winds Are Hushed (Parks), Olinger Male Quartet.

9:00 p. m. to midnight—Dance music program by Joe Mann and his Rainbow-Lane orchestra, Shirley-Savoy Hotel, Denver.

THURSDAY, APRIL 9—

Silent Night.

FRIDAY, APRIL 10—

7:10 p. m.—Studio program, courtesy the Olinger Highlander Boys, band (75-pieces), John S. Leick, director. Instrumental—Overture, Lustpiel (Kela-Bela), Olinger Highlander Band. Cornet solo—Lucia (Bellstedt), Major Kenneth Gorsline. Orchestra selection—Extase. (Rubinstein), KOA orchestra, Lewis H. Chernoff, director. Address—Pep. Lance Corp. Milford Fletcher. Instrumental—Echoes from the Opera (Beyer), Olinger Highlander Band. Instrumental—(a) Trombone Blues (Jewel); (b) The Red, White and Blues (Barnhouse), Olinger Highlander Band. Reading—The Story of David and Goliath (Cheeley), Sgt. Charles Neel. Orchestra Selection—Sweet Memories (Calenti), KOA orchestra. Instrumental—The Hunting Scene (Buccalosi), Olinger Highlander Band. Instrumental—(a) Arabian Nights (Holmes); (b) The Blue and the Gray (Dalby), Olinger Highlander Band. Address—Why I am a Highlander (Cheeley), Major Chester Mighell. Orchestra Selection—African Moon (Earle), KOA orchestra. Instrumental—Selection from the Opera, Maritana (Wallace), Olinger Highlander Band. Instrumental—Songs of the U. S. A. (Arranged by Mackie), Olinger Highlander Band.

SATURDAY, APRIL 11—

8:00 p. m. to midnight—Dance music program by Joe Mann and his Rainbow-Lane orchestra, Shirley-Savoy Hotel, Denver.

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CLARITY is improved due to the fact that the instrument will not let the receiving set pick up noise on waves not wanted.

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THE SUPER QUALITIES that the instrument possesses set up a strong magnetic field throughout the receiving set, so that signals are received **WITHOUT RADIO FREQUENCY TUBES**, which is not only a **TUBE and BATTERY SAVER**, but **ADDS GREATLY** to the **TONE QUALITY OF THE SIGNALS**.

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Malicious Radio Interference Will Be Prosecuted

Washington.—Malicious interference with radio reception of neighbors will be prosecuted vigorously, according to officials of the radio bureau of the department of commerce.

One such case has already developed. The inspector at New Orleans received a number of complaints of interference from Knoxville, Tenn. An investigation revealed that an amateur was using an unlicensed spark coil transmitter without a receiver, which, he admitted, was being done for the sole purpose of creating interference with a listener across the street.

Under the law, the penalty for operating an unlicensed transmitter is a fine not exceeding \$500 and the apparatus is forfeited to the government. The penalty for operating a transmitter without an operator's license is \$100 or imprisonment for two months or both. The penalty for malicious interference is a fine of \$500 or a sentence of one year or both.

Jurisdiction of Patent Office Changed

The executive order of President Coolidge recently transferring the United States Patent Office from the jurisdiction of the Department of the Interior to that of the Department of Commerce thereby placing it under control of Secretary Herbert Hoover was defined by Dr. Lee De Forest, "Father of Radio" today, as "the most forward looking step in the history of the Patent Office since its creation in 1790, especially in view of the vigorous campaign for the removal of present injustices toward American patentees and manufacturers that has been promised by Mr. Hoover."

The importance of the entire U. S. patent system Dr. De Forest pointed out is based on the First Article, Section 8, of the Constitution of the United States, and takes precedence over the clauses in the Constitution giving Congress the right to declare war, to raise and support an army and navy, or to constitute inferior Federal Courts below that of the United States Supreme Court.

"That indicates how important the framers of the Constitution considered the progress and protection of science and useful arts to authors and inventors. Now, if this Congress will take a similar recognition of the importance of the Patent Bureau; that it is pitifully undermanned and pitifully underpaid, it will have rendered a service to the advancement of science and art in this country the value of which is inestimable," Dr. De Forest said.

New Radio Station

A new radio broadcast station will soon be heard on the air coming from Pasadena. KPSN, operating on 1000 watts, will be the new station and will be one of three most powerful stations on the Pacific Coast. It is to be installed and operated by the Pasadena Star-News, local afternoon newspaper. The station will be put in operation when the paper moves into their new building on East Colorado street, according to an announcement made here today.

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International Broadcasting Brings London's Music to Millions Here

"Hello, America! This is the Hotel Savoy broadcasting from 5 Savoy Court, London, England, Station 5XX."

A moment later came the music, loud and clear, and apparently none the worse for its long and varied journey from the London ballroom, some three thousand miles away, to listeners in American cities, towns and villages as far west as Milwaukee. This epoch-making event took place last Saturday evening, and hundreds of thousands of radio listeners participated in the first successful experiment of its kind in international broadcasting.

Just how the London music was brought to the American receiving sets is a noteworthy example of radio engineering and co-ordination of radio facilities. Indeed, never before has a message or music been broadcast from one station to be picked up by another station, and rebroadcast from there to be picked up by a third station for rebroadcasting to the radio audience.

Last Saturday's concert from England had its origin in the Hotel Savoy, London. The signals were sent over land wires to the high-power station at Chelmsford, England, with call letters 5XX. There the signals were transferred to a 20,000-watt radio telephone transmitter for transmission on a 1600-meter wave. On this side of the great "pond," these signals were intercepted on a super-heterodyne receiver operating in conjunction with a ten-mile wave antenna, located at Belfast, Maine, thus spanning the Atlantic Ocean, or a distance somewhat less than 3000 miles. The Belfast Station is normally engaged in receiving long-wave radio signals from the high-power radio telegraph stations in various parts of Europe; but part of the equipment at Belfast had been temporarily converted for the purpose of receiving the 1600-meter radio broadcast signals.

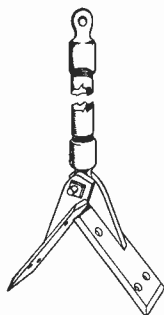
The greatly attenuated radio telephone signals reaching Belfast from Chelmsford had to be amplified almost countless times, before being fed into a short-wave transmitter for rebroadcasting. The next link in the chain was provided

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by short waves, which spanned the gap between Belfast, Maine, and the laboratory of the Radio Corporation of America, located at Van Cortlandt Park South and Saxon avenue, New York City. Here Belfast's wave was picked up on a modified Regenoflex circuit receiver designed especially for short-wave work, and again reinforced by means of special audio-frequency amplifiers.

Thus far our London signals were brought down as far as the outskirts of New York City. The next step was to relay the reinforced signals over land wires to the control room of Station WJZ in the Aeolian Hall Building, in the heart of New York City. Again the attenuated signals were rejuvenated by the audio-frequency process before they could be fed into the usual transmitting apparatus for retransmission on the usual wave-length of 455 meters. With the click of a switchboard key, WRC in Washington was cut in on the circuit and London's audience was proportionately enlarged.

Despite the distances spanned and the various links in the chain stretching from the Hotel Savoy in London to the receiving set in city apartment or the remote farm house in the United States. It is estimated by radio engineers that less than one-fiftieth of a second was consumed in the transmission. It can be said, therefore, that Europe and America are only one-fiftieth of a second apart during these experiments. In truth, the radio listeners in the United States heard the music from the London orchestra even before those same strains reached the audience in the Hotel Savoy, due to the relative sluggishness of sound waves as compared with the lightning swiftness of radio waves.

The recent tests have demonstrated what can be done, not only by means of short-wave radio relaying, but also comparatively long-wave, high-power relaying for bringing the concerts and speeches originating in Europe to our American radio audience.

If we consider the short time that radio relaying has come into actual use, and the increasing improvement in the quality of the programs that are thus relayed, we must admit that the radio engineers have already made considerable progress along the road toward international broadcasting.

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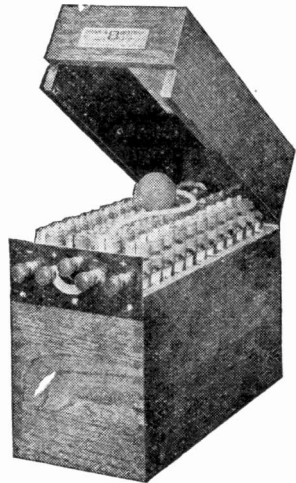
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SPECIAL “B” BATTERY SERVICE ON ALL MAKES

More British Broadcasts Probable

It is very likely that the rebroadcasting of British broadcast programs in the United States will soon become a regular feature of the Radio Corporation of America's service to fans who can pick up WGY, WRC and WJZ. Although no official announcement has been made by the corporation, due to the uncertainty of this trans-oceanic service and the complicated methods of relaying and broadcasting British programs, it is known that the corporation hopes to schedule frequent rebroadcasts of this type. A two-way program is the ultimate plan; as soon as the American super-power station is completed, English fans will be getting American programs in exchange.

During the recent successful tests, 5XX, the Chelmsford experimental station, associated with 2LO, London, transmitted 1600 meters and 25 Kws. This was picked up by the corporation's station at Belfast, Maine, on a three-mile antenna, rebroadcast on 115 meters to the stations in New York, Schenectady and Washington, each of which transmitted again on its own wave length. Interference from the Navy station at Bar Harbor, Maine, hampered the test and the Navy kindly shut down for a time. The retransmission on 115 meters by radio probably also brought in unnecessary static and other interference, which will eventually be eliminated when wires are strong from Belfast to New York, completing the wire relay links of the corporation's system. Fans are anticipating getting London soon as easily as the well-known American stations, and with good prospects for early anticipation with the completion of the wires connecting WRC, WJZ, WJY, WBZ and WGY.

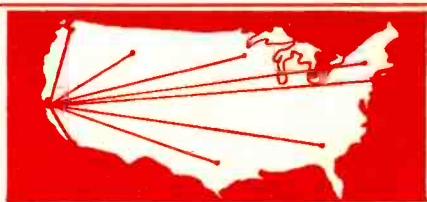
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BIG FREE BOOKLET tells the story. Calif. users of CROSS COUNTRY CIRCUIT hear Atlantic Coast, Canada, Mexico, Cuba and Hawaii. Our new plan makes this set easiest and cheapest to build. One hour puts in operation. One tuning control. No soldering. Any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

WHAT USERS SAY

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

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

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

SEND FOR FREE BOOKLET

VESCO RADIO CO.

BOX RD-117

OAKLAND, CALIF.

Radio Without the Horn

Goodbye to the
Old-Fashioned
Horn Speaker



\$42.50
Loudspeaker
Included

*Windsor Loudspeaker
Console.*

Patented Nov. 18, 1924

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

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

Ample Space for
All the Rest of
Your Outfit!



Room Inside
for Any
Home Radio
Outfit



Top Accom-
modates Any
Radio Set
Knee Room
Below

Clip This Coupon and Get the Facts

THE WINDSOR FURNITURE COMPANY

Inc., Chicago, 1885

917 Maple Avenue

Los Angeles, Calif.

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

Name.....

Address.....

32 (R.D.)

Radio Facts For Fans

MICA

Mica is used extensively in the radio industry. Perhaps you have seen it used in the "windows" of the old wood-burning stove. It is probably best known as "isinglass," although entirely different in texture. Isinglass is the form of gelatin which is obtained from large fish bladder, such as that of the sturgeon. Mica, which is used in many forms for commercial work and now extensively in radio apparatus as an insulating material, is a mineral silicate that readily separates into thin leaves and is more or less elastic.

Mica is mined with hand-picks in the smaller mines, while pneumatic drills are used (with great care) in the larger mines. When taken from the mines, mica ranges in size from a few inches to several feet in diameter, and the better quality has brought \$1000 a ton. Splitting knives are used to separate the mica into sheets of the required thickness. A good splitting for a day is about three and a half pounds.

Radio Listeners Urged to Inspect Their Aerials

If your radio receiver has not been giving you the best of results the past few weeks and your A and B batteries are up to their proper voltage and you want to be assured of good reception during the spring months, inspect your aerial.

Every fan should remove all the objectionable features, such as slack guys, unraveled rope ends, slanting poles, and everything with a make-shift appearance.

Take a can of white paint and give the pole a once-over, and also the spreaders, if you have more than one wire. Attention to these details will, perhaps, make the aerial a less unwelcome addition to the house tops.

Concerning the electrical efficiency, there is much to be done. All unsoldered contacts should be untwisted, cleaned of the accumulations of dirt, and respliced and taped. Soldering the joint will be done by the careful fan.

Insulators should be wiped clean of soot and one more inserted at each end of the aerial, making two in series. Keep this in mind and you will be glad some rainy night.

The lead-in should be guyed away from the side of the building at least three feet, otherwise much of the energy picked up by the aerial will be dissipated into walls, and where the aerial enters the building, it should be led through a rubber tube, or one of porcelain.

The wire to use in aerials and leads should be large, and always of copper. There is a special cable made for aerials, and consists of seven strands of bare copper wire each No. 20. Use this in preference to solid conductor.

The Charger With 10 Points of Superiority

For all
Radio
Batteries



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

At Radio Dealers

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

Valley Battery Chargers

Mr. Dealer:

Listed below are a number of lines which are in demand at this time, and we would advise that you stock up on this merchandise for immediate sales:

Marwol 5-Tube Receivers	Marwol Baby Grands
Linco Tubes	Timmons B-Limiters
Farrand Speakers	Franco Batteries
Handy Chargers	Crescent Chargers
Daven Kits	Lemco Kits
Erla Kits	Erla Sockets
Acme Condensers	Roberts Coils
Lincoln Detectors	Univernier Dials
Hoyt Meters	Cannonball Phones
Master Baldwin Speakers	Crescent Transformers
Somerset Sets	Claratone Sets
Morrison Units	Baldwin Units

ASK FOR OUR PRICE LIST. WE SELL TO DEALERS ONLY

Wholesale Distributors Southern California

Lincoln  Radio Co.

Los Angeles, Calif.

Wholesale Only

1151 Santee St.

FAber 0665

Trade Notes

Owing to their large increase in business, and in order to enable them to promptly supply the demand for their receiver, the Climax Airphone Co. of Culver City, Calif., have been compelled to seek larger quarters and will soon occupy their new building directly across from their present location. Owing to the many exceptional features of this receiver, one of which is its excellent tonal qualities, they are compelled to work their force 24 hours each day in order to keep up with their orders. This is another example of continued prosperity in this vicinity.

Henger-Seltzer Co., Los Angeles, are the factory representatives for the Hohawk Electric Corporation on the Pacific Coast, and not distributors as stated in our last issue.

Yale Radio Electric Co. reports that the new Federal receivers are creating a great deal of interest among the trade and that the Federal Telephone and Telegraph Co. plan to bring out shortly other models to round out their present line of sets.

Permission to broadcast speeches to be delivered at the twenty-first annual convention of the Associated Advertising Clubs of the World in Houston, Texas, May 9-15, has been granted the Houston Post-Dispatch by the General Program Committee, according to C. K. Woodbridge, chairman. The Post-Dispatch has just installed a new 500-watt station.

The Radiograph 11, which is being distributed nationally by the Ed. Jones Agencies of 640 Natoma St., San Francisco, is apparently going to be one of the top notchers, for wonderful demonstration possibilities are being claimed for it.

This set represents the work of C. W. Fenton, at one time a captain of radio work with the British army and now acknowledged to be one of the foremost radio experts of the country.

The national distribution of the Queen "B" radio battery has been taken over by the Ed. Jones Agencies of 640 Natoma St., San Francisco. It is claimed that this battery has certain new features in battery construction which promise to give it marked superiority. Its appearance in a Philippine mahogany cabinet is particularly attractive.

HAVE YOU TRIED NATIONAL REFILLS?

The guaranteed refilled tube at the new low price

Look For This Trade Mark

Providing you send us
your standard

Burnt Out Tubes



\$1.50

It is the mark of a RIGIDLY TESTED and GUARANTEED refilled tube

Ask your dealer. If he cannot supply you—send direct to us. Dealers: Write for our attractive proposition

NATIONAL RADIO TUBE CO.

748 14TH STREET

SAN FRANCISCO, CAL.

We buy and pay 15c each for Burnt Out Standard Tubes—(except W. D. 11's-12's)

"Out of the Air".

The second edition of the Radio Doings Call Book is now on sale, the first being completely exhausted. If you are unable to procure a copy at your regular radio store, send 25 cents to Radio Doings, 500 Van Nuys Building, Los Angeles, and we will mail one to you.

The Kodel Radio Corporation has just completed the purchase of broadcasting station WMH, from the Ainsworth-Gates Radio Company. The station, which has been operating on wave lengths of 325.9 meters and 422.3 meters, alternating each month with stations WSAI and WLW, will continue this arrangement.

However, power will be increased from 500 to 1000 watts, and additional equipment will be added from the Western Electric Company, which will make this station one of the best and programs will be among the most interesting in the country.

In recognition of his services in behalf of radio amateurs of the Second District, the Executive Radio Council presented to Edgar K. ("Jesse") James of Flushing, Long Island, a silver cup suitably inscribed, as a feature of the banquet of "hams," "BCLS," members of the Radio Relay League, and their admiring friends, held in connection with the big radio exposition of the Radio Council in the Hotel Pennsylvania, New York City, recently. For the past four years James has been actively assisting the council in its work, especially with regard to conventions. Previous to this he was widely known as a "ham." He is now associated with the Freed-Eisemann Radio Corporation, and is a familiar figure at radio shows throughout the country.

The Beverly Hills Shrine Club, which will have the honor of entertaining the visiting Shriners with a barbecue incident to the Shrine Convention in June, will have the co-operation of many leading Los Angeles firms in making a success of this unique contest, the results of which will be announced in all quarters of the radio world.

Completely eliminating the human element in the testing of radio receiving sets, a new device for accurately measuring efficiency and detecting the slightest defect has been put into use by Atwater-Kent and his engineers in his mammoth radio plant in Philadelphia.

Every set manufactured in the plant is now subjected to a number of tests with the new device. Its use supplants the former method of testing solely by ear—a practice which lacked scientific precision and which was dependent for its efficacy on the skill of the tester.

Radio fans who, for more than a year, listened to the announcing of Dr. Ralph L. Power as studio director for the Los Angeles Examiner programs through KFI (at that time, via remote control), will be glad to know of his appearance in a new role. Dr. Power, who was also for some time a professor in the University of Southern California, is now at Lake Arrowhead, in the San Bernardino mountains, where he will act as host throughout the summer months. The Lake Arrowhead Orchestra, the original Packard Six, is well known to radioland for their radio programs of the past three years.

PREST & DEAN RADIO CO.

ESTABLISHED 1918

The Best  in Radio

AMERICAN AT FOURTH PHONES 617-670 617-78

LONG BEACH, CALIFORNIA

Balkite "B"

*gives results unattainable
with "B" batteries*



ELIMINATES "B" BATTERIES. Balkite "B" eliminates "B" batteries of all types and furnishes unlimited current to both detector and amplifier tubes from the electric light socket.

IMPROVES PERFORMANCE. Balkite "B" gives results unattainable with "B" batteries. It will enormously increase the clarity, selectivity and power of your set. It gives tubes longer life. In many cases it also eliminates the need for an aerial.

FITS ANY SET. Balkite "B" fits any set [either storage battery or dry cell] of 1 to 10 tubes or more, without changes or additions. It needs no attention, and oper-

ates by merely turning on the light socket.

NO BULBS. Balkite "B" is a permanent piece of equipment that will outlive your set. It will not wear out or become obsolete. It has no bulbs to burn out, and nothing to replace. It cannot burn out tubes. It has no fire hazard. Its current cost is $\frac{1}{10}$ ¢ per hour.

GUARANTEED. Balkite "B" is guaranteed to give satisfaction. It has been tested and endorsed by leading set manufacturers. You cannot realize the results it gives until you have heard a set using it. *A demonstration at your dealer's will prove a revelation. Price \$55.*



BALKITE BATTERY CHARGER

For radio "A" batteries. Has no bulbs or moving parts. Entirely noiseless. The

only charger which can be used while the set is in operation. Price \$20.

FANSTEEL Radio Balkite Power Units

BALKITE BATTERY CHARGER—BALKITE "B" PLATE CURRENT SUPPLY

Factory Representative

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363 High St., Los Angeles

WESTERN RADIO, Inc.
1224 Wall St., Los Angeles

ELECTRIC CORPORATION
1050 Santee, at 11th, Los Angeles

THE YALE RADIO ELECTRIC CO.
1111 Wall Street, Los Angeles

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643 So. Olive St., Los Angeles

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LEADERS *in* Radioland

THE NEW FEDERAL RECEIVERS

THOMPSON NEUTRODYNE

BALKITE CHARGERS

MAJESTIC REPRODUCERS

WARREN'S SPEAKERS

GENUINE HARKNESS KITS

STERLING CHARGERS

DICTOGRAPH PRODUCTS

FRESHMAN SETS AND KITS

Watch for the New
PORTABLE RECEIVER

*Self-Contained Four-Tube Set, Loud Speaker Built in—
operates on practically any kind of an antenna*

Price Complete, \$110.00

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