

### What Was Accomplished

T HE Third Annual Radio Conference, which has recently ended its labors in Washington, has accomplished more constructive recommendations than any previously put forth.

The fact that, in its final report to Secretary Hoover, its recommendations were unanimous speaks for itself.

In dealing with puble broadcasting and the troubles of interference, both from the proximity of wave-lengths, radiotelegraph signals and outside electrical sources, the conference have recommended an increase of assigned wave-lengths, bringing the total up to 100, and includes all bands from 200 to 545 meters.

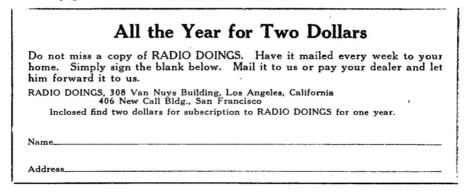
New classifications of stations is also dealt with, creating four in place of three classes.

Wave lengths assigned to the Marine Radio Service are 660, 730, 875 and 706 meters. Six hundred meters is reserved for signals of distress.

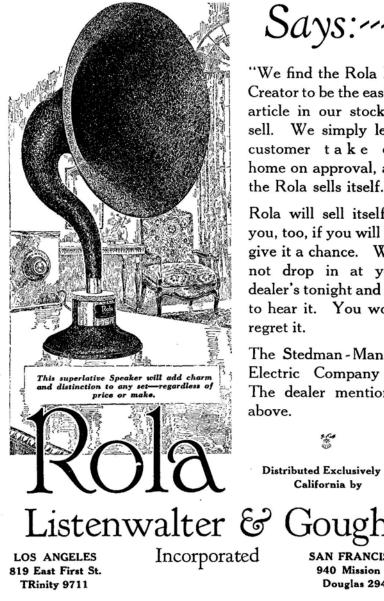
Amateurs were assigned practically the same band heretofore used, namely, those below 150 meters.

Regarding the so-called "higher power" stations, which the smaller stations were fearful would "hog" the air, the conference went on record as being against any monopoly in broadcasting, however, they were in favor of experiments along these lines, as they had no data that could guide them. It is only after such experiments are carried out that it will be possible to determine if these "superpower" stations would interfere with others of less power.

A full report of the recommendations of the conference will be found on another page.



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### **Report of Third National Radio Conference**

To the Hon. Herbert Hoover, Secretary of Commerce, Washington, D. C.

The Third Annual Radio Conference respectfully submits its report to you upon its deliberations:

The Conference convened at Washington on October 6 and has been in continuous session until today. The work was divided among subcommittees upon important subjects, and the recommendations of these subcommittees have been co-ordinated into a whole and they are submitted herewith as the unanimous report of the Conference.

The Conference has kept constantly before it the thought that its only purpose is to devise ways for the betterment of all phases of radio and the elimination of all possible impediments to its full realization of public service. The art is one of continuous flux due to the rapidity of progress through scientific discovery and invention. It requires constant revision in the relationships between different members and in the relationships of the Government and its regulation. We have given consideration to the progress of development and to the needs of the service.

For better understanding of the reports upon special subjects, which are necessarily of a highly technical character, the following summary of the outstanding recommendations is given:

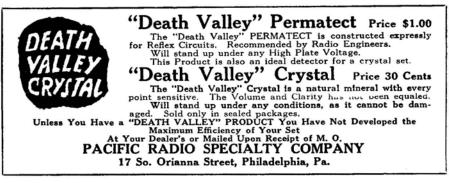
#### PUBLIC BROADCASTING

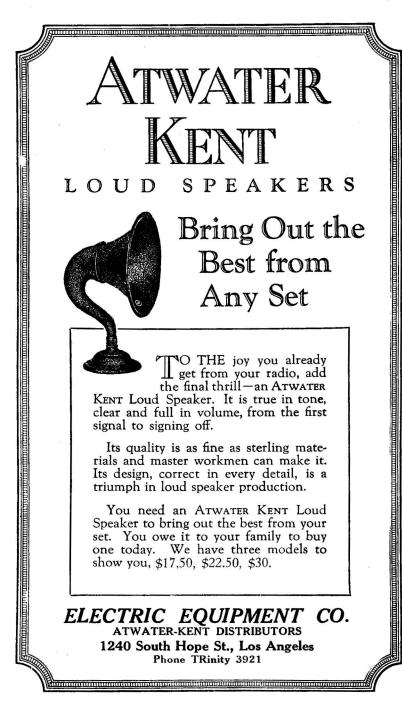
The great problem in broadcasting is that of interference. It may arise in several ways, either by direct interference of one station by another, because of too close proximity of frequency, interference by radiotelegraph signals, and interference from outside electrical sources.

In dealing with the first of these causes, the Conference has been successful in providing additional channels so that stations may not conflict with one another. To accomplish this the present broadcasting band has been extended so as to include all wave lengths from 200 to 545 meters. Furthermore, a new system of zoning has been worked out by which it is possible to obtain still additional channels. The net result will be that instead of the number of wave lengths now used by general broadcasting stations, there will be an increase of 30 wave bands or channels, bringing the total up to 100.

In order to do away with the interference with broadcasting by radio-telegraph signals, used chiefly in marine communication, the Conference recommends that the use of the 300 meter wave length, which fell within the above band. this wave length being left exclusively for broadcasting. The 450 meter wave length which up to a short time ago was likewise used for marine communication. has already been discontinued. The Conference recommends that the 600 meter wave length, which is close to the upper end of the broadcasting band, be limited to distress signals and used as a calling wave, which means that general marine communication will not be carried on in this wave length. This effectually clears the general broadcasting band as above of code signals.

As to interference from outside electrical sources, the Conference took affirmative action in recommending that there be a general co-operation with the





#### Pacific Coast Edition

producers and users of electrical energy by which this interference is now caused. The Conference is glad to be able to say that with very few exceptions there has been manifested the greatest desire on the part of such interests to minimize this interference.

#### DESIGNATION AND ALLOCATION OF STATIONS

The Conference recommends a new classification for stations. Present Class B stations are hereafter to be known as Class 1; Class A stations as either Class 2 or 3, and Class C stations to go either into Class 1, 2 or 3, according to their character.

The Conference recommends that the Class C stations still remaining on a wave length of 360 meters be assigned new wave lengths. This, of course, does not mean the abolition of Class C stations, but merely that instead of all of them operating on one wave length as at present and interfering with each other they shall have separate assignments and be distributed through the broadcasting band.

The details as to the allocation of wave lengths to the particular stations under the new zoning system are being worked out by a continuing committee in co-operation with the Radio Supervisors of the various districts. The report will be completed within a few days.

The marine communication interests willingly accepted the recommendation of the Department for the abandonment of their use of the 450 meter wave. Their representatives at this Conference should receive our thanks for the fine spirit of co-operation they have shown in further removing their operations from the broadcasting band.

#### MARINE RADIO SERVICE

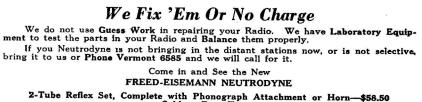
While providing additional channels for broadcasting, the Conference has been able likewise to provide additional channels for marine use. This has been done by specifically designating for ship communication the wave lengths of 660, 730, 875 and 706, with the 600 meter wave length as a calling and distress wave. This provides five channels instead of the two now in use and means a vast improvement in the present congestion near our coasts, while at the same time the interference with broadcasting will be, it is hoped, largely eliminated.

The question of reports giving the positions of ships was considered by the Marine Communications Committee. It declined to recommend the prohibition of free TR reports, but indicated its approval of the voluntary efforts to reduce the number of unnecessary reports. This action was taken in the hope that it would eliminate interference much complained of by broadcasting stations.

#### AMATEURS

The Conference has allocated to amateurs substantially the same frequency bands that are now in use, with some minor changes in their location. The temporary allocation of waves below 150 meters made by the Department to the amateurs some months ago is given definite approval with some slight changes in the bands.

The net result of this is to give to amateurs an increase over what they had at the end of the Conference a year ago, and to allow them a much greater area for operation.



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#### CENSORSHIP

The Conference thoroughly discussed all angles of program directing and heard a great many arguments on this important subject. As a result it recommends that the policy of the Department of non-interference in programs sent out by broadcasting stations should be upheld. Any other attitude would necessarily involve censorship in some degree.

#### INTERCONNECTION

The interconnection of stations so as to provide for simultaneous broadcasting has been the most important development of the last eighteen months. It has now made possible a wide extension in knowledge of national events. It means a vast improvement in program. It makes the talent of our great cities available everywhere. It has reached the point where a few stations are now thus interconnected as a matter of routine and regular procedure. There have been very recently several actual demonstrations of the possibility of nationwide simultaneous broadcasting by interconnection. The Conference affirmatively finds that simultaneous broadcasting of national events is today practicable over a large portion of the United States. It believes that nationwide broadcasting by interconnection of stations deserves every encouragement and stimulation, and to that end recommends the appointment by the Secretary of Commerce a continuing committee which will give consideration to the working out of the necessary plans for its full accomplishment.

#### HIGHER POWER FOR BROADCAST STATIONS

Some confusion has arisen from the general use of the term "higher power," while as a matter of fact there is a sharp distinction in its significance in two entirely different fields; one, the increase in power in all stations, the other the so-called "superbroadcasting" stations.

The Conference has been impressed with the necessity of placing broadcasting upon such a basis that it may be of continued service at all tmes of the year and all time of the day, its signals reaching with proper intensity and clarity all classes of our people. We must have at all times a special thought

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for the owners of small sets and for those whose homes are far from great centers of population. The true mission of broadcasting will not be realized until its service is available to each one of them at all times as it is now available in our larger cities. It has been conclusively demonstrated by experimental work during the past year that by the use of higher power only can static and other kinds of interference be overcome, and that some general increase over the 1000 watt limitation now imposed is therefore very desirable. This is especially true as to transmission during the summer and day time. Many listeners have crystal sets and many located in the agricultural regions who are largely dependent upon radio for their immediate contact with the markets, weather reports and news, are not able to receive any such signals continuously. In order that they may have a continual and dependable service an increase of power should be allowed to the stations upon which they are dependent with due regard to distance and interference with other stations.

This, however, presents entirely different considerations from those involved in the so-called "superpower" stations which contemplate the use of power up to 50,000 watts. The Conference has been strongly urged to recommend the abolition of all limitation on power but it refuses to do so. There has been no experience in this country and little anywhere else in the world with broadcasting by stations of such power. In the absence of actual knowledge of their effect or usefulness, the Conference refuses to recommend any authorization of the general use of licenses for stations of this character. The Conference does recommend that experimentation should be allowed but that this experimentation be carried on under strict limitation, so that it be without inerference with the service of any other stations or with the reception now enjoyed by listeners. Only after such experiments have been made will it be possible to determine whether such broadcasting will interfere with the existing system or whether it will be in public interest.

The Conference is unalterably opposed to any monopoly in broadcasting. The funds appropriated for the enforcement of the radio law by the Department have become wholly insufficient. The inspection districts are so large and radio activities within them have multiplied so rapidly that it is a physical impossibility for the inspectors to cover their districts in the most efficient manner. Complaints come to them from all parts of the district which require their personal attention. We strongly recommend to Congress an increase in the appropriations made for the enforcement of the radio laws by the Department of Commerce.



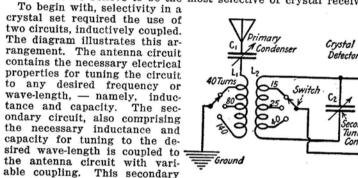
E, F. DOIG

5176½ West Adams

LOS ANGELES

With the increasing number and power of broadcasting stations, many broadcast listeners seem to have the idea that they will be forced to purchase expensive receiving sets to continue to enjoy radio. Such is not the case, however. It is a matter of efficiency, not price. The cheapest crystal set may be highly efficient, combining sensitiveness and selectivity in a high degree and give satisfaction, even though there may be a large number of local stations on the air.

Radio receivers are something like automobiles,-there is a wide range of prices, and while they all get you over the ground, some do it with greater comfort and satisfaction than others. But all of them, if efficiently constructed and operated will do all that can be expected of them. A crystal radio set is capable of selectivity, and to encourage popular belief in this fact we are describing this week what we believe to be the most selective of crystal receivers.



Tuning

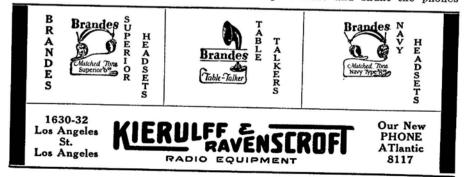
Condense

circuit supplies energy to the crystal detector and headphones circuit.

The reason that the usual two-circuit crystal set is lacking in selectivity is that the shunting of the crystal and phones across the condenser C2 absorbs energy so rapidly that the oscillations are dampened and the tuning broadened. In this arrangement shown in the diagram the detector and phones are shunted across but a portion of the secondary winding, and the fewer number of turns included in the detector circuit, the greater will be the selectivity. Taps are taken off the secondary winding and a switch provided so that the number of turns included in the detector circuit may be decreased until the desired selectivity is attained.

The primary consists of 140 turns of No. 26 double cotton covered wire. wound on a 3-inch tube, tapped as shown. The secondary consists of 50 turns of the same wire on a 21/2-tube or ball, tapped as shown and arranged to either slide or rotate inside the primary tube. The condensers are of a good low-loss type, 43 plates.

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with a .001 MF mica fixed condenser. The tuning of the primary is controlled by the tap switch on the winding and the variable condenser C1. The tuning of the secondary is controlled by the condenser C2. The selectivity is controlled by the degree of coupling between the primary and secondary, and the tap switch on the secondary winding. With the coupling close and with the secondary switch at 40 turns, the tuning will be broad. Reducing the coupling will increase the sharpness, and turning the secondary switch to 25 turns or to 15 turns will further greatly increase the selectivity. There will be a loss in volume when fewer turns of the secondary are used to supply energy to the crystal, but this is offst by the elimination of interference.

## "Radio" Bug Holds Up Baseball Returns

During the operation of the Washington Star radio score board in one of the World's Series games, and at a crucial point, the radio receiver suddenly became silent and as suddenly the assembled fans became noisy and frantic. For ten minutes not a word from Announcer McNamee came in. Back of the score board, radio operators strove to find out what was wrong with the set. Fearing that WCAP was off the air, one operator hooked in a crystal set, only to find that the announcements were going out, although the Star's regular loud speaking set continued to balk. Another of the staff was tearing the set apart and finally found the trouble.

A common office building variety of water bug was found stuck between two plates of a variable condenser. It is believed that in his interest to get the returns first hand, this demented bug had shorted the set. At any rate, as soon as he was removed and the set hooked up again, the voice of WCAP came in as usual.

Wondering what was wrong, but blaming radio temporarily, the fans eagerly lent their ears to the announcements but never knew it was another radio bug which stopped their entertainment.





### Third Radio Conference Makes for Better Radio Service

The third annual radio battle is over and the clean-up squad of supervisors and technical experts finished its work re-zoning stations and re-allocating wave lengths late Saturday afternoon. Unlike the World Series, it was not a very bloody battle, and few casualties have been reported. Practically everything went through and in general the radio public and. in fact, the whole industry, will be better served in the future

Although the Government refused to take off the lid in regard to power limitations. experimental licenses for high-power broadcasting are assured and it is up to the radio engineers to show the radio supervisors and the listening public the benefits of high-power broadcasting. The engineers of the Radio Cor-poration, who propose to erect a 40 to 50 KW station outside of New York in the near future. are going forward with their plans and will request the first super-power broadcasting license under a revised Class D or development permit. As soon as the technicians work out the details of minimum interference and set up the station the public, within a range of a thousand miles of New York. at least, will have an opportunity of listening in on the R. C. A. super-broadcaster. No doubt it will also carry to Europe and South America as well as all over the United States. If the inspectors or the public find that this station interferes with the reception of other stations seriously, the Department will cause the experimenters to close down the station, since this is a requirement of the special permit. But if the station becomes as popular as KDKA and WGY, engineers feel sure it will stay on the air.

It is also probable that nine smaller broadcasters will also apply for permission to broadcast with 5KW sets under the same conditions, and, as was pointed out. a broadcasting system of pure radio may soon be competing for radio popularity with the chain of the interconnected stations served by the

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LOS ANGELES

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Among the important decisions reached were: The addition of 30 wave channels for broadcasting stations, bringing the total to 100; the removal of the marine sparks on 300 meter from the broadcast band, and the designation of 600 meters for distress calls only, clearing the air programs of code interference. A re-classification of broadcasters and the transfer of all Class C stations from 360 meters, improves the situation further, while the re-zoning of the country into six zones will further aid broadcast operation. This it is planned will provide a separate zone for the New England States, including New York City and part of New Jersey: Zone Two will comprise the rest of the Atlantic states, Pennsylvania, West Virginia and the western part of New York; Zone Three, Michigan, Ohio, Illinois, Kentucky, Tennessee, West Georgia, Alabama and Mississippi; the Central states are divided horizontally, the southern states forming Zone Four, and the northern, Zone Five; all the Pacific states with Idaho, Utah and Arizona, constitute the Sixth Zone. When assigning experimental stations power higher than now permitted, the Department intends to use this system and in assigning new Class 1 station waves.

Marine communications will be handled on 660, 730, 875 and 706 meters, giving the ships five channels instead of two, also removing coastwise interference and congestion. Amateurs retain substantially the same wave bands as heretofore, but benefit by low wave lengths assigned temporarily by the Department recently; all of which assures the amateurs an increase in channels over what they had a year ago, and permits greater latitude in 24-hour operation.

The Conference voted not to interfere with broadcast programs, discouraging censorship definitely. The conferees found that simultaneous broadcasting of national events is practical over a large area and believes that nation-wide broadcasting by interconnecting stations deserves encouragement.

Additional funds for the administration of matters radio were urged of Congress in a special plea of the whole conference.

In closing the last session of the Third Radio Conference, Secretary Hoover said: "This has been the most constructive and most effective of all three national conferences that we have held. I do not say that in depreciation of the fine efforts which they put forth, but today we were faced with problems more complex than hitherto, and I consider it most remarkable, in face of the unusual technical difficulties, that you gentlemen have found such unanimity of solution. This conference represents every phase of the industry—the listener, broadcaster, manufacturer, and all elements, and there has been a fine feeling of compromise and willingness to make sacrifice to contribute to the advancement of the art. I wish, therefore, to express my personal appreciation of all that you have done.

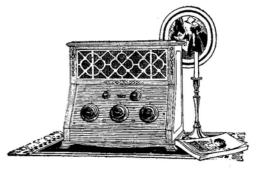
"I have no doubt that if we survive, we shall have another conference next year, and I have no doubt that it will be faced again with more complex problems, because there never has been an advent in the history of science that has produced such a great change as is going on here, and I think that in these conferences we have found a way in which the great thing could be given to

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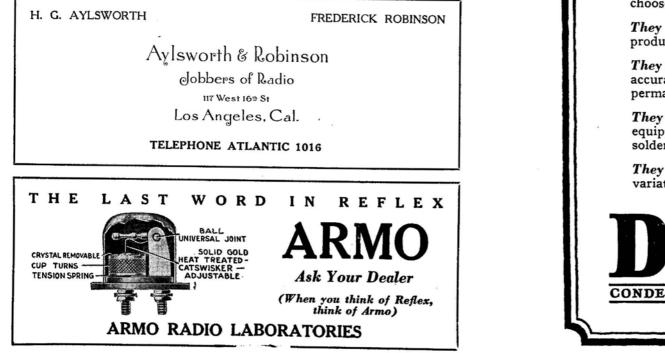


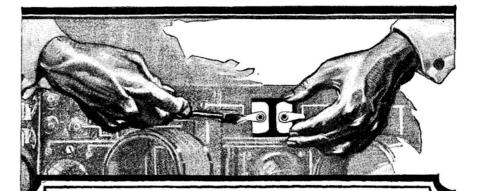
public service. I wish to thank you for your attendance and hope that you will be back with us next year and that we shall have as successful a time as we had on the present occasion."

Previous to his remarks, Secretary Hoover had been thanked personally for his service to radio science, on motion of Earle C. Anthony, of California, who said: "Mr. Hoover has practically given up his time day and night to this work, and it shows the interest our Secretary has in radio. I would, therefore, like to call for a vote of thanks to Mr. Hoover for his personal interest." The motion was seconded and carried with applause.

A reading of the recommendations of the drafting committee, composed of subcommittee heads, followed, and by practically a unanimous vote the many paragraphs were adopted. During the noon hour the drafting committee went over the report of the co-ordinating committee, made up of members of the seven subcommittees, foregoing luncheon and also the last game of the world's series in an effort to report Friday afternoon. Previously, the seven reports of the subcommittees had been filed with the co-ordinators, in the form of a mass of papers including much technical data. This job was in itself a day's work, but the coordinating body worked fast in order that the drafting committee might proceed in rounding out a final report.

All that was left of the conference on Saturday was a continuing committee which worked out re-zoning and re-allocation of wave lengths, under the direction of Chief Supervisor of Radio W. D. Terrell. The continuing committee, including the nine supervisors, together with Elam Miller, of the American Tel. & Tel. Co.; Raymond Asserson, W. N. Y. C., New York; John Campbell, Edison Electric Co., Boston; Dr. J. H. Dellenger, Bureau of Standards; A. N. Goldsmith, Tropical Radio Co., New York; H. E. Campbell, Detroit News; C. P. Edwards, Canadian Radio Service; L. B. Henson, Dallas News; F. A. Kolster, Federal Tel. Co.,San Francisco; C. M. Jansky, Jr., University of Minnesota; Lamden Kay, Atlanta Journal, and C. W. Horn, Westinghouse Co., Pittsburgh.





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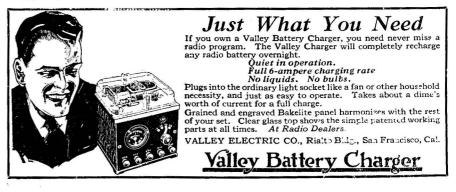


A Decision of Interest REMICK VS. GENERAL ELECTRICAL CO.

I take pleasure in handing you herewith the opinion of United States District Judge Knox, just released this morning in the Federal Court for the Southern District of New York, denying the motion of the American Society of Composers, Authors and Publishers, made in the name of Jerome H. Remick & Co., to enjoin the General Electric Company from broadcasting the music of the Society played under authorization of members of the Society by the orchestra at the New Kenmore Hotel in Albany. The point of the decision is this, to-wit: That whether or not radio broadcasting of musical compositions can under any circumstances, be a public performance for profit, it is not an infringement where the playing of the musical composition, which is being broadcasted, is itself authorized by the owner of the copyright, or by anyone representing him. In other words, it is no infringement for a broadcasting station to broadcast performances of musical compositions by orchestras in hotels or elsewhere, when the playing of the piece by the orchestra is itself authorized. On this subject Judge Knox says:

"By means of the radio art he (the broadcaster) simply makes a given performance available to a great number of persons who, but for his efforts, would not hear it. So far as practical results are concerned, the broadcaster of the authorized performance of a copyrighted musical selection does little more than the mechanic who rigs up an amplifier or loud speaker in a large auditorium to the end that persons in remote sections of the hall may hear what transpires upon the stage or rostrum. Such broadcasting merely gives the authorized performer a larger audience and is not to be regarded as a separate and distinct performance of the copyrighted composition upon the part of the broadcaster. When allowance is made for the shrieks, howls and sibilant noises attributable to static and interference, the possessor of a radio receiving set attuned to the station of the broadcaster of an authorized performance hears only the selection as it is rendered by the performer. The performance is one and the same whether the 'listener in' be at the elbow of the leader of the orchestra playing the selection, or at a distance of a thousand miles."

You will readily perceive the importance of this decision. It overrules the claim, constantly made by the American Society, that broadcasting was a performance in itself, distinct and separate from the performance which was being broadcast. Thus, "an end is put to the claim, constantly made by the Society, that it has a right to tax the playing of a musical composition before an assembled audience, and again to tax the presentation of that very same performance by artificial means with a larger audience." The boon to the public from this decision is obvious, for it has always been evident that if the claims of the Society were, in the end, judicially upheld, radio broadcasting, as at present conducted on a basis of complete freedom to the public, would either have to be discontinued, or a way would have to be found to compel the "listeners in" to pay. This decision goes far to prevent the copyright law from being used in a way never intended by the Congress which enacted it, to deprive the public of the blessing which the freedom of the air now affords.



## **Eight New Broadcasters Licensed**

Light How Elements	Fre-	Wave		
	uency Keys 1060	Lengths Meters 283	Power Watts 500	
wwwo-Michigan College of Mines, Houghton, Mich	1230	244	<b>250</b>	
WEBU — DeLand Piano & Music Co., 139 Boulevard St., DeLand, Fla	1160	258	· 5	
WEBT The Dayton Co-op. Industrial High School, E. Fifth at Eagle St., Dayton, O	1110	270	5	
WIAS —Home Electric Co., 315 N. Third St., Burling- ton, Iowa	1200	<b>283</b> 250	<b>100</b> 10	
KFRI —The Reynolds Radio Co., Inc., Portable Station, 1534 Glenarm St., Denver, Colo Transferred Class C to Class A	1340	224	5	
WNAD—University of Oklahoma, Dept. of Elec. Engr., Norman, Okla Class B Station	1190	254	100	
WEEI —The Edison Electric Illuminating Co. of Boston, 39 Boylston St., Boston, Mass	990	303	500	

That citizens who wish to listen to State-supported operas over the radio have as good a right to do so as have those who pay to get in is the contention of the Combiegne Radio Club in France. This club has just issued a resolution calling upon the French Government to arrange for all State-operated or Statecontrolled theaters, such as the Paris Opera, the Opera Comique, and others, to be broadcast regularly. The club asks, also, that a microphone be installed on the floor of the Chamber of Deputies, so that every one can hear the oratorical accompaniment of all official ceremonies. The Government has not yet acted.

## THE DUODYNE

Greatest Value in a Five-Tube Tuned Radio Frequency Receiver Ever Offered

The price is \$125.00, complete and installed

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#### Nothing else to buy

Two-Tube Reflex Sets-Improved, Up-to-Date Model Prices from \$65.00 up according to cabinet style ThreeTube Reflex \$90.00 and up

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**Both Must Be Musical Instruments** 

If you are to enjoy the rich resonance of an old Cremona violin, your loud speaker must also be a true musical instrument. So designed and powered as to respond as faithfully to the inspiring crescendos of a Wagner opera as to the whispers of a Moonlight Sonata.

The new Bristol AUDIOPHONE does

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Model S Audiophone \$25 ·

Non - metallic horn 141/2 inch diameter. Velvet mat finish of mottled bronze and gold classic base.

favorite station. In addition to Model S, shown above, the Bristol line includes Model J. \$20; Baby Grand, \$15, and the "Baby," at \$12.50. Send for bulletins Nos. 3011 and 3017-X, mentioning name of your dealer.

The Bristol Company





## **Esperanto International Communication Tongue**

Esperanto has been adopted as the auxiliary international language in telegraphic intercourse by the League of Nations, according to a cablegram from International Esperanto headquarters at Geneva. This is interpreted as applying to radio and cable communication, as well as purely telegraphic, by those familiar with the plans for its use in international communication. Recently the American Radio Relay League recommended this universal language as the most suitable for world wide communications by radio.

At a cost of three million dollars, the Atwater-Kent Company have just completed a magnificent factory covering twelve solid acres of floor space, every inch of which will be devoted to the manufacture of their radio receiving sets, according to Ray Thomas, president of the Electric Equipment Company, who has just returned from a trip to the Atwater-Kent plant. "There were two thousand people working in the plant when I was there, and there will be four thousand at work inside another month," said Thomas. "Public interest in radio in the East is higher this year than ever before. I went over to the New York radio show at Madison Square Garden. It pulled an attendance of more than 175,000 in a week's time and shattered all records for any attraction ever staged in the history of the famous show place. People were lined up in front of the doors waiting every morning for them to open. Afternoons and evenings the place was jammed inside until you could hardly move around. It is not surprising that millions are being poured into radio manufacture when you see the tremendous interest the public is taking in it today."

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### CONVENIENT CREDIT TERMS

**Oliver S. Garretson** 

Alan Goodan

28         Radio Doings           6-3 A. M. PACIFIC TIME         RADIO TIME TABLE         7-9 Mountain Time 9-10 Central Time 9-11 Eastern Time 9-11 Eastern Time           SUN.         MON.         TUES.         WED.         THUR.         FRI.         SAT.           STATION         E         CITY         E         GALL         GAL         GAL         GAL         <																												
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1338-1342 San Julian St.

A-1 Kadlo **Cabinets** 

Prices on unfinished cabinets. Finish them yourself to match your furniture.

Hand Rubbed Finish \$2.00 Extra Panel Panel

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

TERMS: Cash with Order All prices F. O. B. Los Angeles

"A-1" Radio Cabinets are made of selected, kiln dried Philippine mahogany thruout. The lid is hinged and cleated to prevent warping. The ends are grooved to slide panel in. Tops and bases nicely moulded all around. These cabinets are first class in design and workmanship and will make a creditable appearance in any room.

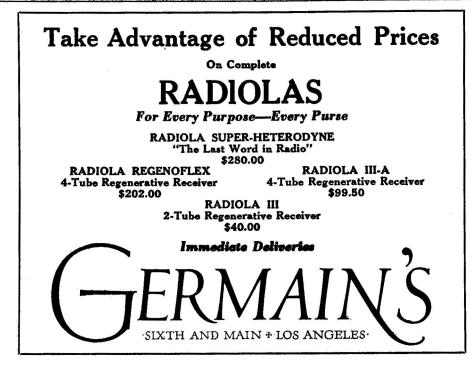
A-1 WOODWORKING CO.

Los Angeles, Cal.

Pacific Coast Edition

11-1 Mountain Time 12-2 Central Time 1-3 Eastern Time **RADIO TIME TABLE** 

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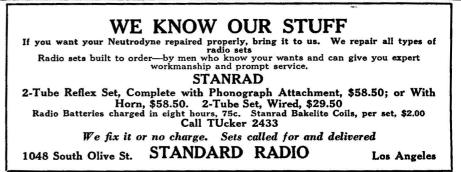


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Pacific Coast Edition

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#### 6-8 P. M. PACIFIC TIME RADIO TIME TABLE

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

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#### RADIO TIME TABLE 9-11 Mountain Time 10-12 Central Time 11- 1 Eastern Time

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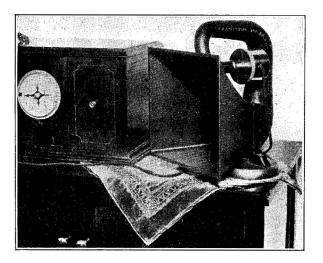
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2:30 te 3:30 p.m.

6:30 to 7:30 p.m.

8:00 to 9:00 p.m.

9:00 to 10:00 p.m.

10:00 to 11:00 p.m.

2:30 to 3:30 p.m.

6:30 to 7:30 p.m.

8:00 to 10:00 p.m.

10:00 to 11:00 p.m.

SATURDAY, NOVEMBER 12:30 to 1:30 p.m.



42

Pacific Coast Ed	ition 43
KHJ-L	os Angeles Times—395 Meters
Times Building, First and B	roadway, Los Angeles. Owned and Operated by Los Angeles Times John S. Daggett, Announcer and Manager
Daily, except Sunday Orchestra from the Biltmor from 6 to 6:30, we will br 2:30 to 3:30 p.	and Monday, from 10 to 11 p. m., we will broadcast Art Hickman's e Hotel. Sunday from 6:30 to 7:30 p. m. and daily except Monday, oadcast Art Hickman's Concert Orchestra from the Biltmore Hotel. m. daily except Sunday and Monday, Matinee Musicale.
	COMMENCING SUNDAY, OCTOBER 26, 1924
SUNDAY, OCTOBER 26- 10:00 a.m.	Sermon from KHJ studio by Dr. Henry M. Radlin, principal of the
10:30 to 12:30 p.m.	Congregation Talmud Torah Hebrew School. Organ recital and entire religious service from the First Methodist Episcopal Church; Arthur Blakeley, organist, and Rev. Elmer E.
6:30 to 7:00 p.m.	Helms, pastor. Art Hickman's Concert Orchestra from the Biltmore Hotel; Edward Fitzpatrick, director.
7:00 to 7:30 p.m.	Organ recital from the First Methodist Episcopal Church; Arthur
8:00 to 10:00 p.m.	Blakeley, organist. Program presented through the courtesy of the Martin Music Co., arranged by J. Howard Jchnson.
MONDAY, OCTOBER 27-	
12:30 to 1:30 p.m.	Program of news items and music.
TUESDAY, OCTOBER 28- 12:30 to 1:30 p.m.	Program presenting the Rendezvous Ballroom Orchestra.
2:30 to 3:30 p.m.	Matinee musicale.
6:30 to 7:30 p.m.	Children's program presenting Prof. Walter Sylvester Hertzog tell- ing stories of American history. The weekly visit of the Sandman and Queen Titania. Bedtime story by Uncle John.
8:00 to 10:00 p.m.	Program presented through the courtesy of the Globe Ice Cream Co., arranged by A. K. Berkland.
10:00 to 11:00 p.m.	Art Hickman's dance orchestra from the Biltmore Hotel; Earl Burtnett, director.
WEDNESDAY, OCTOBER 12:30 to 1:30 p.m.	29-
12:30 to 1:30 p.m.	Program presenting Abe Perluss and his Rose Room Orchestra play- ing through the courtesy of the Rose Room, Wm. Leder, mgr. Fred C. McNabb of Aggeler & Musser Seed Co.
2:30 to 3:30 p.m.	Matinee musicale.
6:30 to 7:30 p.m.	Children's program presenting Prof. Walter Sylvester Hertzog telling stories of American history. Dick Winslow, screen juvenile and reporter. Baby Muriel MacCormac, screen juvenile. Bedtime story by Uncle John.
7:30 to 8:00 p.m.	Program presented by the University of Southern California.
8:00 to 10:00 p.m.	Program prosenting Dr. Mars Baumgardt, lecturer. The Gaylord Trio; Lorena Wade, manager.
10:00 to 11:00 p.m.	Art Hickman's dance orchestra from the Biltmore Hotel; Earl Burtnett, director.
THURSDAY, OCTOBER 3	0— Program presenting Coy Barkley and his Palace Ballroom Orchestra
12:30 to 1:30 p.m.	from Ocean Park. Carl Brandenburg, "Shorty," tenor.
2:30 to 3:30 p.m. 6:30 to 7:30 p.m.	Matinee musicale. Children's program presenting Prof. Walter Sylvester Hertzog tell-
	ing stories of American history. Screen juveniles. Bedtime story by Uncle John.
7:30 p.m.	Program presenting Harold Swartz of the faculty of the Otis Insti- tute, who will talk on "Art."
8:00 to 9:00 p.m.	Program presenting the Piggly-Wiggly Girls. Ruth Florence, so- prano. George Hood, reader.
9:00 to 10:00 p.m.	Program presented through the courtesy of Robert Marsh & Co., arranged by Thorlief Olsen.
10:00 to 11:00 p.m.	Art Hickman's dance orchestra from the Biltmore Hotel; Earl Burtnett, director.

12:30 to 1:30 p.m. Program of news items and music.

Silent.

Children's program presenting Prof. Walter Sylvester Hertzog tell-

ing stories of American history. The weekly visit of Richard Head-rick, screen juvenile. A Hallowe'en sketch, "Waiting for the Ghost,"

Program presented through the courtesy of Rogers' Book Shop. The

Art Hickman's dance orchestra from the Biltmore Hotel; Earl

Children's program presenting Prof. Walter Sylvester Hertzog tell-

ing stories of American history. Helene Pirie, screen juvenile.

Art Hickman's dance orchestra from the Biltmore Hotel; Earl Burtnett, director.

presented by the pupils of Edythe McGrath.

Isbell Trio. A. Fernandez, dramatic tenor.

Special Hallowe'en program.

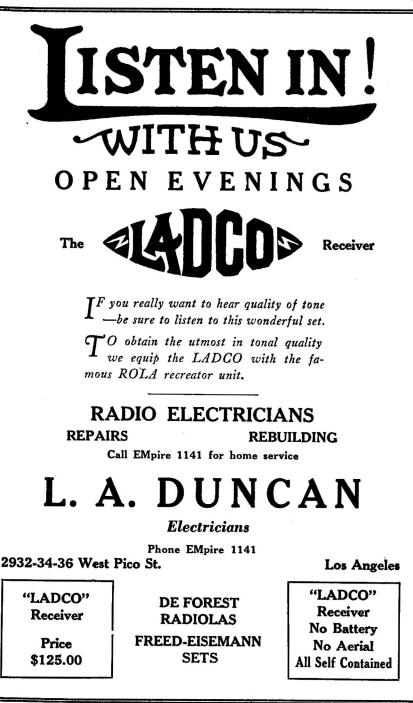
Program of news items and music.

Bedtime story by Uncle John.

Burtnett, director.

Matinee musicale.

De luxe program.



#### K F I. Radio Central Station of Earle C. Anthony. Inc. Packard Building, 1000 South Hope St., Los Angeles, California. Class "A" 500 Watt Western Electric Station, Operating on 469 Meters PAUL REESE, Program Announcer **Remote Control Stations:** Daily except Sunday Monday, Wednesday, Friday 5:00 to 5:30 p.m. Los Angeles Evening Herald: 8:00 to 9:00 p.m. 5:30 to 6:00 p.m. Los Angeles Examiner: Daily except Sunday Daily 9:00 to 10:00 p.m. Hotel Ambassadors 8:00 to 9:00 p.m. Sunday, Tuesday, Thursday 10:00 to 11:00 p.m. Monday 11:00 to 12:00 p.m. Wednesday, Friday, Saturday 7:00 to 8:00 p.m. Metropolitan Theatre: Sunday. SUNDAY, OCTOBER 26-L. A. Church Federation Service. 10:00 to 10:45 a.m. Vesper services. 4:00 to 5:00 p.m. 6:45 to 7:00 p.m. Paul Reese-Musical Appreciation Talks. 7:00 to 8:00 p.m. Metropolitan Theatre Program. Ambassador Hotel Concert Orchestra. Program from Examiner Studio. 8:00 to 9:00 p.m. 9:00 to 10:00 p.m. Theron Bennett's Dance Orchestra. 10:00 to 11:00 p.m. MONDAY, OCTOBER 27-5:30 to 6:00 p.m. Examiner News Bulletins. 9:00 to 10:00 p.m. Program from Examiner Studio. 10:00 to 11:00 p.m. Ambassador Hotel Cocoanut Grove Orchestra. **TUESDAY, OCTOBER 28-**5:30 to 6:00 p.m. Examiner News Bulletins. Aeolian Organ Recital. 6:45 to 8:00 p.m. Hotel Ambassador Cocoanut Grove Orchestra. 8:00 to 9:00 p.m. 9:00 to 10:00 p.m. **Program from Examiner Studio.** 10:00 to 11:00 p.m. Popular Ballad Hour. WEDNESDAY, OCTOBER 29-5:30 to 6:00 p.m. Ex. 6:45 to 7:30 p.m. Nic **Examiner News Bulletins.** Nick Harris Detective Stories and Orchestra. 7:30 to 8:00 p.m. Harry Baxter in Recital. 9:00 to 10:00 p.m. Program from Examiner Studio. Special dramatic program with Harry James and Georgia McCrone 10:00 to 11:00 p.m. Fifield. 11:00 to 12:00 p.m. A THURSDAY, OCTOBER 30-Ambassador Hotel Cocoanut Grove Orchestra. 5:30 to 6:00 p.m. Examiner News Bulletins. Y. M. C. A. Lecture. Norman Kelch, baritone, arr. concert. 6:45 to 7:00 p.m. 7:00 to 8:00 p.m. 8:00 to 9:00 p.m. Hotel Ambassador Concert Orchestra. 9:00 to 10:00 p.m. **Program from Examiner Studio.** Gertrude Childs Huntington, dramatic soprano, in concert. 10:00 to 11:00 p.m. FRIDAY, OCTOBER 31-5:30 to 6:00 p.m. **Examiner News Bulletins.** 6:45 to 8:00 p.m. Aeolian Organ Recital. 9:00 to 10:00 p.m. **Program** from Examiner Studio. 10:00 to 11:00 p.m. Vocal concert. 11:00 to 12:00 p.m. Ambassador Hotel Cocoanut Grove Orchestra. SATURDAY, NOVEMBER 5:30 to 6:00 p.m. Examiner News Bulletins. 6:45 to 8:00 p.m. Dance Orchestra. 8:00 to 9:00 p.m. Special Recital. Program from Examiner Studio. 9:00 to 10:00 p.m. 10:00 to 11:00 p.m. Packard Radio Club. 11:00 to 12:00 p.m. Ambassador Hotel Cocoanut Grove Orchestra.

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Echo Park, Los Angeles, Calif. EVANGELIST AIMEE SEMPLE McPHERSON, Pastor Class "A" 500 Watt Western Electric Station. G. N. Nichols, Program Announcer.

SUNDAY, OCTOBER 26-

10:30 to 12:30 p.m. Complete morning service broadcast from the main auditorium. Aimee Semple McPherson to preach. Music by the revival chorus, male guartet and soloists. Esther Fricke Green at the organ. 2:30 to 4:30 p.m. Auditorium service of praise and worship with dispensational ser-mon by the pastor. Music by the Silver Band and Temple Choir under the direction of G. N. Nichols. Roy Reid Brignall at the organ. 7:00 to 9:45 p.m. Evening service opening with special musical hour, featuring the Temple Choir, Silver Band, Sarah Karcher with her violin, and visiting artists. Esther Fricke Green at the organ. Musical hour followed by great salvation sermon of Aimee Semple McPherson, with altar call and after service. 10:00 to 11:00 p.m. Organ recital of Roy Reid Brignall with assisting artists. **TUESDAY, OCTOBER 28-**10:30 to 11:30 a.m. Sunshine Hour program personally conducted by Aimee Semple McPherson, with prayer for the sick and afflicted of Radioland. 3:30 to 4:30 p.m. Organ recital of Esther Fricke Green, assisted by Elizabeth Wilson-Corning, soprano, and Sarah Karcher, violinist. Organ numbers will include: (1) Andante Cantabile, by Rea; (2) Offertoire in A Flat, by Batiste; (3) The Harmonious Blacksmith, with chimes, by Handel; (4) O Star of Eve, by Wagner; (5) Sweet Hour of Prayer. 6:30 to 7:30 p.m. Gray Studio Kozy Hour program presented by Cousin Jim, beloved friend of the children. Harry James Beardsley will be assisted by Eugene Lamb, pianist, and other associates. WEDNESDAY, OCTOBER 29-10:30 to 11:30 a.m. Sunshine Hour of comfort and cheer presented by Mrs. McPherson, closing with prayer for those of the Church of the Air in need of Heavenly aid. Auditorium service. Songs, testimonies and sermon on the subject of "Divine Healing." Aimee Semple McPherson to preach. Altar call. Music by the Ladies' Revival Chorus. Ruth Thomas at the 2:30 to 4:30 p.m. piano. Esther Fricke Green, organist. Gray Studio childrens' program presented by Mrs. Edward Hughes of Eagle Rock, assisted by Helen Edwina and Mary Elizabeth Hughes. Mrs. Rose, pianist. 6:30 to 7:30 p.m. THURSDAY, OCTOBER 30-10:30 to 11:30 a.m. Sister McPherson's personal hour with the mothers, housewives, sick and afflicted folk, hospitals and prisons. 3:30 to 4:30 p.m. Afternoon organ recital program of Roy Reid Brignall, assisted by G. N. Nichols in cornet solos and readings.
 7:30 to 9:15 p.m. Autorium service. Water baptism and sermon by the pastor-evangelist. Music by the Temple Choir and Silver Band. Esther Fricke Green at the organ. Gray Studio program featuring the Temple Choir and the Sierra 9:15 to 10:00 p.m. Trio of Pasadena. 10:00 to 11:00 p.m. Organ recital program of Esther Fricke Green, assisted by Alfred C. Green, lyric tenor. Organ numbers will include: (1) Larghetto. Capocci; (2) The Swan, by Saint-Saens; (3) Pastorale, by Handel; (4) Adeste Fideles. Mr. Green will sing "Comfort Ye" and "Every Valley Shall Be Exalted." FRIDAY, OCTOBER 31-10:30 to 11:30 a.m. Sunshine Hour program presented by the pastor-evangelist, assisted by students of the Evangelistic and Missionary Training Institute. Organ recital program of Roy Reid Brignall, with assisting artists. 3:30 to 4:30 p.m. G. N. Nichols, cornetist. Auditorium service. "Crusaders' Rally." Ten-minute talk of 7:30 to 9:15 p.m. Judge Carlos S. Hardy. Evangelistic sermon of Aimee Semple McPrerson. Temple Silver band and special music. Gray Studio program presenting the Silver Band, under the direction of G. N. Nichols. Marjorie Nell Snider, 14 years of age, in readings. N. E. Brown, electrical engineer, in his weekly talk on "Radiology." 9:15 to 10:00 p.m. Organ recital program of Roy Reid Brignall, with assisting artists. 10:00 to 11:00 p.m. G. N. Nichols, cornetist. SATURDAY, NOVEMBER 1-10:30 to 11:30 a.m. Sunshine Hour program. Mrs. McPherson and students of the Bible School in a cheery program and prayer for the sick. 3:30 to 4:30 p.m. Gray Studio program. Impromptu. Roy Reid Brignall, accompanist and soloist. Auditorium Service. Divine Healing service of Aimee Semple Mc-7:30 to 9:30 p.m. pherson. Testimonials of those who have been healed through the

prayer of faith. Special music.

Evening Herald, Los Angeles

Phone MEtropolitan 5100 134 So. Broadway

Evening Herald Programs Via Radio Central Station KFI 5:00 to 5:30-Daily except Sunday-Evening Herald Table Talk and News Items

#### **PROGRAM FOR WEEK OCTOBER 25-NOVEMBER 1**

Subject to Change

MONDAY	, OCTOBER	27
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8:00 to 9:00 p.m. Evening Herald's Radiolans popular dance music. C. E. Hillis, enlaist

WEDNESDAY, OCTOBER 29-

8:00 to 9:00 p.m. Kennedy broadcasters of Long Beach. William McDougall, Scotch Baritone.

FRIDAY, OCTOBER 31-8:00 to 9:00 p.m. Hi Moulton's Orchestra. Judge Hugh J. Crawford, traffic talk.

#### KJS-Bible Institute Radiophone-360 Meters

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

PROF. J. B. TROWBRIDGE, Director of Programs M. E. CARRIER, Manager

- SUNDAY, OCTOBER 26-
  - 10:45 to 12:30 noon. Regular services of the Church of the Open Door, including sermon by Dr. French E. Oliver. Mrs. Irvin S. Fallis, soprano soloist. Mr. A. A. Butler, organist.
  - Radio Vesper Servce with sermon by Rev. John A. Hubbard. Mrs. 6:00 to 6:45 p.m. Fern Barton, organist. Mr. Sam Carlson, baritone soloist. Sermon by Dr. French E. Oliver. Mr. C. M. Brooks, baritone solo-8:00 p.m.
    - ist. Mr. Alfred A. Butler, organist.

TUESDAY, OCTOBER 28-

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

THURSDAY, OCTOBER 30-

8:00 to 9:00 p.m. Prof. A. Lowinsky, violinist, director of the Glendale Symphony Orchestra, assisted by Mrs. Irvin S. Fallis, soprano, and Mrs. Rich-ard Parks, pianist and accompanist. Violin numbers: Traumerei (Schumann); Consolation (Mendelssohn); Nearer, My God, to Thee; Jesus, Lover of My Soul; There Is a Green Hill Far Away (Gounod); Berceuse, from "Jocelyn" (Godard).

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## K N X-Los Angeles Evening Express-337 Meters

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Guy Earl, Manager, Announcer "Town Crier"

Carrie P. Rittmeister, Program Manager

SUNDAY, OCTOBER 26-

8:00 p.m. Feature program.

MONDAY, OCTOBER 27-

		10:00	a. m.	And every hour until 5:00 p .m.—Town Crier.
			a. m.	
6:00	to	7:30	p. m.	
			p. m.	Program sponsored by the Western Auto Supply Company, intro- ducing the Western Auto Orchestra and Gladys Blackwell Picker-
10:00	to	11:00	p. m.	ing, soprano, with other features. "Night Hawks."
TUESDAY	, 0	СТОВ	ER 28-	_
		10:00	a. m.	And hourly—"Town Crier."
				Kate Brew Vaughn.
		11:00	a. m.	Estelle Lawton Lindsay, "The Skipper," of L. A. Express Editorial Staff.
6:00	to	7:30	p. m.	Herbert's Cafe of Los Angeles Arion Trio.
8:00	to		p. m.	
9:00	to	10:00	p. m.	Paul G. Hoffman's Studebaker Orchestra.
10:00	to	11:00	p. m.	Dance program by Hollywood Serenaders.
WEDNESD	AY	, ост	OBER	29—
		10:00	a. m.	And hourly—"Town Crier."
				Kate Brew Vaughn.
				Dinner Hour.
7:30	to	8:00	p. m.	Herbert Hoover.
8:00	to	10:00	p. m.	Carson-Baruch Baking Company, sponsoring.

10:00 to 11:00 p.m. Dance program by Hollywoodland Orchestra.

#### THURSDAY, OCTOBER 30-

10:00 a.m.	And hourly—"Town Crier."
10:30 a.m.	Kate Brew Vaughn.
	Dinnar Hour program enoncored by Harbort's Caf

- Cafe of Los Angeles. 7:45 p.m. J. R. Douglas will deliver "Security Business Message." 8:00 to 9:00 p.m. Sponsored by Dr. A. Zimmerman. 9:00 to 10:00 p.m. Dance Program by Paul G. Hoffman's Studebaker Orchestra. 10:00 to 11:00 p.m. • Original Hollywood Californians.
- FRIDAY, OCTOBER 31-
  - And hourly—"Town Crier." Dinner Hour program. 10:00 a.m.
  - 6:00 to 7:30 p.m.
  - 8:00 to 9:00 p.m. Program sponsored by Guaranty Building and Loan Association. 10:00 to 11:00 p.m. Dance program by Johnny Ogden's Orchestra.

SATURDAY, NOVEMBER 1-10:30 a.m. "Radio Talk to Radio Fans," Forbes Van Why. Program sponsored by Herbert's Cafe of Los Angeles. 8:00 to 10:00 p.m. Motor Car Dealer's Association presenting Russian String Quartet. 10:00 to 11:00 p.m. Dance program.

#### A MESSAGE FROM M.A.R.S.

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### KLX-Oakland Tribune Radiophone-509 Meters

DAILY-7:00 to 7:30 p. m. (except Sunday). News items, United States Weather Bureau bulletin, market and financial news. SUNDAY, OCTOBER 26-

Silent. MONDAY, OCTOBER 27-

8:00 to 10:00 p.m. Program broadcast through KLX from the campus at the Univer-

TUESDAY, OCTOBER 28-

6:00 to 7:00 p. m. Aunt Elsie's Sunset Matinee. WEDNESDAY, OCTOBER 29-DNESDAY, OCTÓBER 29—
8:00 to 10:20 p. m. Studio program: "La Traviata," an opera in three acts, by Giuseppe Verdi. Under the direction of Gregorio Artieda. Characters: Violetta Valery, soprano, Teresina Monotti; Flora Bervoix, mezzo soprano, Grace Gilbert; Annina, soprano, Beatrice L. Sherwood; Alfredo Germont, tenor, Gregorio Artieda; Giorgio Germont, baritone, Marion Vecky; Gaston, tenor, Dixon A. Ervin; Baron Douphol, baritone, E. Arnold; Marquis D. Obigny, bass, C. Alibertina; Dr. Grenvil, bass, L. Leimbach. Augustus Serantoni, pianist. Chorus: I. Frimont, Lena Beccf, Elma Otte, Grace S. Gilbert, Wanda Frentrup, B. J. Marhevich, E. Arnold, P. Alexeeff, A. Ervin, Elynore Benton., First Act—Scene: Drawing room in the home of Wanda Frentrup, B. J. Marhevich, E. Arnold, P. Alexeeff, A. Ervin, Elynore Benton. First Act—Scene: Drawing room in the home of Violetta. Act Two—First scene: A room on the ground floor of a country house near Paris; second scene: Richly furnished apart-ment in Flora's mansion. Act. Three—Scene: Violetta's bedroom. Following the opera the controls of KLX will be shifted to the American Theater for incidental music by the American Theater Orchestra, Owen Sweeten directing. At 10:10 o'clock Clement Barker, American Theater organist, will broadcast a short organ recital. recital.

sity of California by the Associated Students of the University of California, under the direction of the A. S. U. C. Publicity Bureau.

THURSDAY, OCTOBER 30-

Silent after 7:30 p.m. FRIDAY, OCTOBER 31-8:00 to 10:20 p.m. Studio program. Instrumental selections by Less Capp's Diablo **Country Club Orchestra.** 8:50 to 9:05 p.m. Overture by the American Theater Orchestra, Owen Sweeten directing. 9:05 to 10:10 p.m. Studio program. Studio program. Instrumental selections by Less Capp's Diablo Country Club Orchestra. 8:00 to 8:50 p.m. 8:50 to 9:05 p.m. Overture, American Theater Orchestra, Owen Sweeten director. 9:05 to 10:10 p.m.

Overture, American Theater Orchestra, Owen Sweeten director. Studio program. 1. Flute solos: (a) Serenade; (b) Hungarian Dance, Prof. Sam Schildkret; Elenore Hale, accompanist. 2. Vocal solos: (a) Des Hold My Hands Tonight (Bond); (b) Sing to Me, Sing (Bischoff), Ada Robey Barton...3. Violin solos: (a) Souvenir (Drdla); (b) Kuiaksaw (Wieaniawski), Celeste Bellarie; Kathryn Brown Palmer, accompanist. 4. Vocal solos: (a) Sonny Boy (Cur-ran); (b) I Know (Spross); (c) A Disapointment (Harris), Ada Robey Barton. 5. Flute solos: (a) Serenade (Schubert); (b) Wink-ing, Blinking Moon (Roberts). 6. Piano solos: (a) Selected; (b) Romance (Rubenstein), Kathryn Brown Palmer. 7. Violin solos: Romance (Rubenstein), Kathryn Brown Palmer. 7. Violin solos: (a) Humoresque (Dvorak); (b) The End of a Perfect Day (Bond): Organ recital by Clement Barker, American Theater organist.

10:10 p.m. SATURDAY, NOVEMBER 1 2:30 p.m.

Broadcasting of University of California vs. University of Southern California football game at Memorial Stadium, at Berkeley, play by play.



### KGO-Pacific Broadcasting Station-312 Meters

GENERAL ELECTRIC COMPANY (312 Meters), OAKLAND, CALIFORNIA

**Pacific Time** 

		1:30 p.m.	Daily except Sunday—Stock reports.
			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 Saturday and Sunday-Stock reports, weather reports
			news items.

#### SUNDAY, OCTOBER 26-

11:00 a.m. Church service.

Concert by the KGO Little Symphony Orchestra, Carl Rhodehamel conducting; assisted by soloists and speaker. Waltz, The Charmers (Caryll); overture, Light Cavalry (Suppe); selection from "Mar-tha" (Tavan). Soprano solos: (a) The Wings of the Morning (Rigby); (b) Father in Heaven (Doun); (c) Lord, Thou Hast Been Our Dwelling Place (Phillips), Daisy O'Brien. Piano solos: (a) Waltz in E major (Moszkowski; (b) Dance of the Dwarfs (Grieg), Edna Dwan Carlson Travelorue fifth in series "Pound Abut 3:30 p.m. Waltz in E major (Moszkowski; (b) Dance of the Dwarfs (Grieg), Edna Dynan Carlson. Travelogue, fifth in series "Round About Jerusalem," Ford E. Samuel. Piano solos: (a) Pastorale (Scar-latti); (b) Capriccio (Scarlatti), Edna Dynan Carlson. Three old songs with guitar accompaniment: (a) Afterward (Molloy); (b) Past and Future (Molloy); (c) Love's Old Sweet Song (Molloy), Daisy O'Brien. Menuet Pastel (Paradis), musical comments by Arthur S. Garbett, of "Radiocast Weekly." Slavonic Dance No. 1 (Dvorak); Mazurka Japanese (Ganne); March, The Forester (Jarno). 7:30 p.m. Church service.

#### MONDAY, OCTOBER 27-

- 8:00 p.m. Educational program with musical numbers by the Arion Trio. Courses in Agriculture, Economics, English, and Book Reviews. Pilgrim Chorus (Wagner); By the Sea (Schubert-Wilhelmy); Blue Lagoon (Millocker); Melody (Dawes); Juanita, a Serenade (Gar-bett); Raindrop Prelude (Chopin).
- 10:00 to 1:00 a.m. Dance music program by Henry Halsted's Orchestra and soloists, Hotel St. Francis, San Francisco.

TUESDAY, OCTOBER 28-

8:00 p. m. Studio program. Concert by the KGO Little Symphony Orchestra, Carl Rhodehamel conducting; assisted by Edilberto G. Anderson, baritone, and Mrs. J. E. Bowersmith, contralto. Waltz, Poudree (Francis Popy); Overture, Carnival of Venice (Thomas). Contralto solos: (a) My Heart at Thy Sweet Voice, from "Samson and Delilah" (Saint-Saens); (b) Sittin' Thinkin' (Fisher), Mrs. J. E. Bowersmith. The "Unfinished Symphony" (Schubert); musical description of Schubert's "Unfinished Symphony," illustrated by short passages by the orchestra, furnished by Arthur S. Garbett, musical editor of "Radiocast Weekly," San Francisco. Baritone solos: (a) Ay, Ay, Ay (Freire); (b) J'Ai Pleure En Reve (George Hue), Edilberto G. Anderson. Suite, Lyric Pieces (Grieg); Menuet, Pastel (Paradis); Dance of the Gnomes (Ilynsky). Soprano solos: (a) Intermezzo (Ave Maria), from "Cavalleria Rusticana" (Mascagni); (b) I Hear a Thrush at Eve (Cadman), Mrs. Herschell L. Hagen. "Humorous Transcriptions of an Old Folk Song" (Ochs); Kamenoi Ostrow (Rubinstein). Ostrow (Rubinstein).

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

WEDNESDAY, OCTOBER 29-

8:00 p.m. Studio program. "TARNISH," Gilbert Emery's drama in three acts, presented by the KGO Players, under the direction of Wilda Wilson presented by the KGO Players, under the direction of Wilda Wilson Church. Music by the Cremona Trio—Rey Marchant, violin; Jo-ziena Von der Ende, 'cello; Doris Olsen, piano. Cast: Josephine Lee Tevis, Mary Harper; Mrs. Healy. Jean Hansen; Apolline Stutz, Florence Palmer; Letitä Tevis, Leonore Everett; Emmet Carr, Bert Horton: Adolph Tevis, Fred Thomas; Nettie Dark, Jean Hansen; Aggie, Bertha Spring. The entire action of the play takes place in New York, on a New Year's Eve, between 5 o'clock and midnight. Time: The present. Meditation from "Thais" (Massenet), Cre-mona Trio. Act. I—The sitting room of the Tevis flat at 189th Street West. Overture from "Carmen" (Bizet), Cremona Trio. Act III—Nettie Dark's apartment. A Dream (Bartlett), Cremona Trio. Act III. The sitting room of the Tevis flat. Allegro from "Symphony Cantate" (Mendelssonn), Cremona Trio.

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

## KGO—Pacific Broadcasting Station

GENERAL ELECTRIC COMPANY (312 Meters), OAKLAND, CALIFORNIA (Pacific Time)

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FRIDAY, OCTOBER 31-	
1:30 p.m.	New York stock reports.
1:40 p.m.	San Francisco stock reports.
1:45 p.m.	Weather Bureau reports.
3:00 p.m.	Studio musical program and speaker.
4:00 to 5:30 p.m.	Concert Orchestra of the Hotel St. Francis, San Francisco, Vinton
_	La Ferrera conducting.
6:45 p.m.	New York stock reports, closing.
6:55 p.m.	San Francisco stock reports, closing.
7:00 p.m.	Weather Bureau report.
7:05 p.m.	San Francisco produce news.
7:10 p.m.	Baseball scores.
7:15 p.m.	News items. Silent Night.
SATURDAY, NOVEMBER	1
12:30 noon	Final reading, New York Stock reports.
12:40 p.m.	Final reading, San Francisco Stock reports.
12:45 p.m.	Weather Bureau reports.
4:00 to 5:30 p.m.	Concert Orchestra of the Hotel St. Francis, San Francsico, Vinton
	La Ferrera conducting.
8:00 p.m.	Studio program. Yerba Buena Minstrels and Olio: Given by Yerba
	Buena Lodge F. & A. M. No. 403, Oakland, Calif.; John S. Blowski,
	Master; George W. Ludlow, Secretary; D. P. Scudder, Director of
	Minstrels. Part One-Yerba Buena Minstrels. End Men, Richard
	H. Glissman, Ernest W. Stenberg, Lloyd D. Barzee, A. E. Evers,
	Sydney H. Hansen and Harry Roach. Interlocutor, George W.
	Ludlow. Soloists, Carl Anderson, Clarence H. Oliver, R. J. Bishop,
	A. H. Arneson, E. C. Dowdle, A. C. Kroeger, Chris Hampton and
	Willard B Zimmerman Part Two-Oliot Piano Solo I F White

Willard B. Zimmerman. Part Two—Olio: Piano Solo, J. E. White-head; Comic Song, Chas. W. Reynolds; Clarinet Solo, A. L. Bangle; Monologue, A. E. Evers; Violin Solo, Sydney T. Maar; Reading, George W. Ludlow; Organ Solo, Chas. T. Besserer; Bass Solo, New-ton Deprez; Piano Solo, Howard Tremble; Monologue, Anson Bilger; Saxophone Solo, Wiley R. Martin; Vocal Duet, Carl Anderson and Clarence Oliver; Piano Duet, Mr. and Mrs. Wm. W. Carruth. 10:00 p. m. to 1:00 a. m. Dance music program by Henry Halstead's Orchestra and soloists, Hotel St. Francis, San Francisco.



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PROGRAMS	FROM OCTOBER 26th TO NOVEMBER	
DAILY EXCEPT SUNDA	Y— Time signals from the Naval Observa	tory Reading of the Scripture
12:00 noon. 1:00 to 2:00 p.m		tra broadcast by wire telephony.
MONDAY, TUESDAY, W	EDNESDAY, THURSDAY, FRIDAY-	
11:45 a.m	Market report on poultry, eggs, butt pices of the Poultry Producers of Cen	ter and cheese, under the aus-
SUNDAY, OCTOBER 26	Additional 1942 (construction of the	
11:00 to 12:00 noon		church services. The speaker
	will be Dr. Albert E. Kelly, pastor San Francisco. The soloist will be	Mabel Turner Payne. Organ
	selections by Theodore J. Irwin.	
8:30 to 10:00 p.m	. Concert by Rudy Seiger's Fairmont wire telephony.	Hotel Orchestra, broadcast by
MONDAY, OCTOBER 27		· · · · · · ·
4:30 to 5:30 p.m	. Rudy Seiger's Fairmont Hotel Urchest	ra, broadcast by wire telephony.
5:30 to 6:30 p.m	Book of Knowledge.	
8:00 to 8:30 p.m	. Organ recital by Theodore J. Irwin,	official organist, at the Wur-
8:30 to 10:00 p.m	litzer. . Navy Day program by the members	s of the Naval Reserve, under
-	the management of Carl Nunan.	planing in the Dalage Base
10:00 to 11:00 p.m	. E. Max Bradfield's Versatile Band, Room Bowl.	playing in the ratace Rose
TUESDAY, OCTOBER 2	8	
5:30 to 6:30 p.m	. Children's hour stories by Big Bro	ther of KPO, taken from the
7:00 to 7:30 p.m	Book of Knowledge. . Rudy Seiger's Fairmont Hotel Orchest	ra, broadcast by wire telephony.
8:00 to 10:00 p.m	. Program by the Olympic Club of San	Francisco.
10:00 to 11:00 p.m	. E. Max Bradfield's Versatile Band, Room Bowl.	playing in the Falace Rose
WEDNESDAY, OCTOBE	R 29—	
2:30 to 3:30 p.m	. Garry Fisher's Amphians of the Cabin	ria Cafe.
5:30 to 6:30 p.m 7:00 to 7:30 p.m		
8:00 to 11:00 p.m	. E. Max Bradfield's Versatile Band, pl	aying in the Palace Rose Room
	French course lesson. Male quarter	t selections by the San Fran-
MUNDOD IN OCTODED	cisco Police Quartet.	
THURSDAY, OCTOBER 5:30 to 6:30 p.m		ther of KPO, taken from the
	Book of Knowledge.	
7:00 to 7:30 p.m 8:00 to 9:00 p.m		official organist. at the Wur
B.00 to 5.00 p. h	litzer.	
9:00 to 10:00 p.m	. Program under the management of I	I. B. Passmore, pianist.
FRIDAY, OCTOBER 31- 12:45 p.m	. Talk broadcast from the Commonwe	alth Club luncheon at the Pal-
	ace Hotel	
4:30 to 5:30 p.m SATURDAY, NOVEMBE	. Rudy Seiger's Fairmont Hotel Orchest	ra, broadcast by wire telephony
12:00 noor	Time cignals from the Naval Ubserva	tory. Reading of the Scripture
1:00 to 2:00 p.m	. Rudy Seiger's Fairmont Hotel Orchest	ra, broadcast by wire telephony
3:30 to 5:30 p.m	Palace Rose Room Bowl.	
8:00 to 12:00 p.m	. Art Weidner's dance orchestra, pla	aying in the Fairmont Hotel
	Soprano solos by May Clark Burns.	
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#### K F R C-Radioart Studio-280 Meters

	ADQUARTERS, HOTEL WHITCOMB SAN FRANCISCO, CALIF.
SUNDAY, OCTOBER 26-	
6:30 to 7:30 p.m.	
8:00 to 9:00 p.m.	Overture, "Tannhauser" (Wagner). Waltz, "Wedding Dance"
	(Lincke). Selection, "Only Girl" (Victor Herbert). "Ballet Suite"
	(Lacombe): (a) Carnival March; (b) Harlequin and Columbine,
9:00 to 9:05 p.m.	Late news items.
9:05 to 10:00 p.m.	Four Indian Love Lyrics (Woodforde-Finden): "The Temple Bells,"
ondo to rondo prim	"Less Than the Dust," "Kashmiri Song," "Till I Wake." Inter-
	mezzo from Opera La Fianceedu Tzar (Rimsky-Kersakoff.) Grand
	Opera Selection, "Madame Butterfly" (Puccini).
10.00 4. 12.00	
10:00 to 12:00 p.m.	Dance music played in the roof garden of the Hotel Whitcomb by
MONDAN ACTORED DE	Frank Taylor's El Camino Orchestra.
MONDAY, OCTOBER 27-	
6:30 to 6:45 p.m.	Stock news and complete bond quotations
6:45 to 7:00 p.m.	Late news bulletins by direct wire from The San Francisco Bulletin.
<b>TUESDAY, OCTOBER 28-</b>	
6:30 to 6:45 p.m.	Stock news and complete bond quotations
6:45 to 7:00 p.m.	Late news bulletins by direct wire from The San Francisco Bulletin.
WEDNESDAY, OCTOBER	
6:30 to 6:45 p.m.	Stock news and complete bond quotations
6:45 to 7:00 p.m.	Late news bulletins by direct wire from The San Francisco Bulletin.
7:00 to 7:30 p.m.	Popular concert by Bem's Little Symphony Orchestra
8:00 to 9:00 p.m.	Concert by Bem's Little Symphony Orchestra, playing in Drury
	Lane, Hotel Whitcomb, San Francisco. "Kamino Ostrow" (Ruben- stein). "Der Rosenkavalier Waltz" (Strauss). 'Cello solo, "Broken
	stein), "Der Rosenkavalier Waltz" (Strauss), 'Cello solo, "Broken
	Melody" (Von Bien). Selection, "You're in Love" (Friml).
9:00 to 10:00 p.m.	KFRC Health Service. Answers to questions. Address: "Making
	Normal Minds of Childhood," by William P. Lucas, professor of
	children's diseases, University of California, and during the World
	War in charge under Herbert Hoover of feeding the children of
	Northern France and Belgium. Baron Keyes singing and playing
	his own compositions. KFRC educational course in radio, given by
	members of the technical staff of the Radioart Studio.
THURSDAY, OCTOBER 30	
6:30 to 6:45 p.m.	Stock news and complete bond quotations
6:45 to 7:00 p.m.	Late news bulletins by direct wire from The San Francisco Bulletin.
FRIDAY, OCTOBER 31-	Late news bulleting by direct wire from the San Flancisco Bulletin.
6:30 to 6:45 p.m.	Stock news and complete bond guotations
	Late news bulletins by direct wire from The San Francisco Bulletin.
8:00 to 9:00 p.m.	Selection, "Katinka" (Friml). Waltz, "Apple Blossoms" (Kreisler).
0.00 1. 10.00	"Egyptienne Ballet" (Luiginini). Selection, "Rigoletto" (Verdi).
9:00 to 10:00 p.m.	Dance music, with Baron Keyes playing and singing his own com-
CATURDAN NOVELED	positions during the dance intermission.
SATURDAY, NOVEMBER	
6:30 to 6:45 p.m.	Stock news and complete bond quotations
6:45 to 7:00 p.m.	Late news bulletins by direct wire from The San Francisco Bulletin.
7:00 to 7:30 p.m.	Dance music by Elmer Ohlsen's Hotel Whitcomb Dance Orchestra.

#### KGW-The Morning Oregonian-492 Meters PORTLAND, OREGON

(PACIFIC TIME)

- SUNDAY, OCTOBER 26---6:00 p.m. Church services sponsored by Portland Council of Churches. MONDAY, OCTOBER 27---
  - 5:00 p.m. Children's Roosevelt program; story by Mrs. W. R. Scott.
  - 8:00 p.m. Concert by The Oregonian Concert Orchestra.
- TUESDAY, OCTOBER 28-
  - 5:00 p.m. Children's program. Story by Aunt Nell.
    - 12:30 p.m. Concert.
  - 8:00 p.m. Agricultural lecture provided by Oregon Agricultural College extension service.
- 8:30 p.m. Concert by Portland Civic Music Club Artists.
- WEDNESDAY, OCTOBER 29-
  - 12:30 p.m. Concert by Bill Darby's Orchestra of Cotillion Hall. 5:00 p.m. Children's program. Story by Mrs. Edw. Guiver.

  - 8:00 p.m. Concert program arranged by Hanna Davis.
- Dance music by George Olsen's Metropolitan Orchestra of the Hotel Portland. 10:00 p.m. (Two hours.) THURSDAY, OCTOBER 30-
- 12:30 p.m. Concert sponsored by Civic Music Club of Portland. 5:00 p.m. Children's program. FRIDAY, OCTOBER 31-
- - 12:30 p.m. Concert by Multnomah Hotel Strollers, Dwight Johnson, director.
  - 5:00 p.m. Children's Hallowe'en program. Story by Aunt Nell and music provided by Ethel Rand.
  - 8:00 p.m. Popular lecture provided by University of Oregon extension division.
- 10:30 p.m. Hoot Owls, with George Olsen's Hoot Owl Orchestra, Pantages Theater. SATURDAY, NOVEMBER 1-
  - 10:00 p.m. Dance music by George Olsen's Metropolitan Orchestra of the Hotel Portland.

### KDPT—The Union-Tribune and Southern Electrical Company-244 Meters

Owned and Operated by the Radio Department of the Southern Electrical Company, Located at 3rd and "E" Street, San Diego, California. Phone Main 4730. WILLIAM O. HEATHCOTE, Program Director and Announcer J. W. SCHRADER, Operator PROGRAM FOR THE WEEK OF OCT. 26 TO NOV. 1 MONDAY, OCTOBER 27-1:30 to 2:30 p.m. Popular program furnished by the Thearle Music Co. TUESDAY, OCTOBER 28-

Program of late popular music. 1:30 to 2:30 p.m.

Special "Nick Harris Program" under the direction of F. R. Settle, 8:00 to 9:00 p.m. Special Nick flarris frogram under the direction of F. K. Settle, featuring Sam Kinella and his Royal Hawaiian Entertainers De Luxe. Talk by District Attorney on "Why Crime Does Not Pay." Bess Wilson and her Dear Nell letters. A Detective Dodo Fable for the children, and vocal numbers.

WEDNESDAY, OCTOBER 29-

Program of instrumental and vocal numbers thru the courtesy of 1:30 to 2:30 p.m. Thearle Music Co.

- Regular Wednesday De Luxe program under the direction of F. R. 8:00 to 9:45 p.m. Settle thru the courtesy of the Nick Harris Detectives. Featuring Willis Slee and Lewis Crescenzo, popular Stell and Standard Guitar Team, with solos and vocal interpolations. Marion MacCleod's Orchestra, playing and dance program. Miss Chelsea Mills of the San Diego Conservatory of Music, singing soprano solos. And short talk by Lewis J. Utt of the Better Business Bureau of San Diego, Calif.
- THURSDAY, OCTOBER 30-1:30 to 2:30 p.m.
  - Program of old fashioned numbers. Program by artists from the Thearle Music Co. Studios.
  - 6:00 to 6:45 p.m.
- FRIDAY, OCTOBER 31-1:30 to 2:30 p.m.
  - Instrumental program. Classical program under the direction of Paul Scott. Featuring 6:00 to 6:45 p.m. Miss Ella Palmer, dramatic soprano, protege of Maestro Sully and Professor Albert Hustler, concert pianist. "Moment Musical," Scharwennka piano solo by Paul Scott. Berceuse, Godard vocal solo by Miss Palmer. Prelude in C Sharp Minor, Rachmaninoff piano solo by Professor Albert Hustler. Where Drowsy Waters Steal, Lierance tenor solo by Paul Scott, with Prof. Hustler at the piano.

SATURDAY, NOVEMBER Silent.

## K F A U-Boise High School-270 Meters

BOISE, IDAHO

(Pacific Time)

Market reports, weather reports, health talk, and educational features by Home Economics and Agricultural Departments on Monday, Tuesday, Wednesday, Thursday and Friday from 2:30 to 3:15 P. M.

MONDAY, OCTOBER 27-

- 7:00 p.m. Mrs. Jones, soprano. Mrs. Luarel Elam on the Methodist Church organ. FRIDAY. OCTOBER 31-
  - 7:00 p.m. Mrs. Fred Rosene, contralto, accompanied by Miss Freda Brown on the flute. Mr. Fred Rosene, whistler.



### KFAE-State College of Washington-330 Meters

(State College of Washington, Pullman, Wash. Miss Alice L. Webb, News Editor.)

MONDAY, OCTOBER 27-

Contralto solos, Mrs. LaVerne Kimbrough. Piano numbers, Miss Mary Cameron. Making the Water Supply Ready for Winter, A. B. Crane. Health Talk. Causes of Failure in Concrete Construction, 7:30 to 9:00 p.m. I. J. Smith.

WEDNESDAY, OCTOBER 29-

Cello and saxophone solos, Vincent Hiden, Rochester. Baritone solos. 7:30 to 9:00 p.m. Harry Isaacs, Seattle. Poultry Management in November, W. D. Buchanan. Results of State College Leaf Roller Experiments. A. Spuler. Readings, Speech Department.

FRIDAY, OCTOBER 31-

7:30 to 9:00 p.m. Banjo solos, George Hunt, Spokane. Piano numbers, Jean Fulmer, Pullman, White Pine Blister, E. H. Steffen. Some New and Unusual Lines of Washington Horticulture, M. D. Armstrong. Book Reviews, Miss Alice L. Webb.

## K F O A-Pacific Northwest Station-455 Meters

RHODES DEPARTMENT STORE-ARCADE SQUARE, SEATTLE, WASH. (Pacific Time)

CARL E. HAYMOND, PROGRAM ANNOUNCER

#### MONDAY, OCTOBER 27-

- 8:30 p.m. The Seattle Post Intelligencer by remote control. TUESDAY, OCTOBER 28-
- - 12:30 to 1:30 p.m. The noonday luncheon program of the Seattle Advertising Club. 8:30 p.m. The Seattle Post Intelligencer by remote control.
- WEDNESDAY, OCTOBER 29-
- 12:30 to 1:30 p.m. The noonday luncheon program of the Seattle Rotary Club.
  - The first of a series of monthly concerts to be given by the 116th Medical Regiment Band of the Washington National Guard, Willis 8:30 p.m. A. Calder, band leader. Lt. Harvey M. Dingby, Exec. Off. An ad-dress will be given by Col. J. B. W. Corey. 20 minutes of Hawaiian and popular music by Michal P. Bell and Allen Hinton, Seattle guitar artists. This is the first Medical Band in the United States to be recognized by the War Department.

- 8:30 p.m. The Seattle Post Intelligencer by remote control. FRIDAY, OCTOBER 31-
- - 12:30 to 1:30 p.m. The noonday luncheon program of the Members' Council of the Seattle Chamber of Commerce.
    - Seattle Chamber of Commerce Night, featuring the newly organized Seattle City Quartet, which is sponsored by the Chamber. Marion 8:30 p.m. London Milholin, soprano, and organizer of the quartet, has enjoyed a very interesting dramatic career in the principal cities of the East. Other members of the quartet are Winifred Parker, contralto, Law-rence Mayer, bass, Herbert Williams, tenor, and John Sundsten, accompanist.

SATURDAY, NOVEMBER

Play by play returns of the University of Washington and Univer-2:30 p.m. sity of Oregon football game being played at Eugene.

#### KOB—New Mexico State Agricultural College

LOCATED AT STATE COLLEGE, NEW MEXICO. 360 METERS-500 WATTS

PACIFIC TIME
DAILY-
10:55 a.m. to 12:00 noon. Standard Mountain Time.
11:00 a.m. to 12:02 p.m. U. S. W. B. Reports.
11:02 to 12:15 p.m. Road Reports, News Briefs.
8:55 to 10:00 p.m. Standard Mountain Time.
9:00 to 10:02 p.m. U. S. W. B. Reports.
MONDAY, OCTOBER 27—
6:30 to 7:30 p.m. Radio Talk: Professor J. C. Overpeck, "Selection and Testing of Farm Seeds." Musical program.
WEDNESDAY, OCTOBER 29-
6:30 to 7:30 p.m. Radio Talks: L. H. Hauter, "Conditions Affecting Farm Profits in New Mexico." Professor O. C. Cunningham, "Food Value of Milk." Music: College Male Chorus; College Male Quartettes.
FRIDAY, OCTOBER 31-
6:30 to 7:30 p.m. Dr. Asa Brunson, Tuberculosis Specialist, on "Tuberculosis." Radio Talk: Professor H. W. Titus, "Nutrition Fads." Music, College Girls' Glee Club.

#### WBAD Fort Worth Star-Telegram\_476 Meters

WDARrort	WOrth Star Telegram To Meters
(PACIFIC TIME) FORT WO	RTH. TEXAS (Class B Station)-1000 Watts-476 Meters
FEATURES-	
8:00 a.m. C	Opening market quotations.
9:00 a.m. L	Jnited States weather forecast. Liverpool reports by Department of Agriculture leased wire. Cotton and grain quotations.
	Market quotations.
11:00 a.m. M	Market quotations.
5	Close on cotton, grain and cottonseed oil. Fort Worth, Kansas City, St. Louis and Chicago livestock markets by Department of Agri- culture leased wire. Dun's and Bradstreet's financial reviews on Saturday only.
4:00 p.m. H	Port of Missing Men. Baseball scores.
	Sport review.
SATURDAY ONLY-	
5:00 p.m. H	Review of the interdenominational Sunday School lesson by Mrs. W. F. Barnum.
SUNDAY ONLY-	
	Services of the First Methodist Church, Rev. J. W. Bergin, pastor.
	Concert from the Rialto Theater.
ores to worke prime	Concert.
MONDAY, OCTOBER 27-	and the state of the state of the second state of the second
	Moments from the Majestic Theater, featuring stars of the week, organ recital and Majestic Theater orchestra.
The is start prime	Concert by the Euterpean Club.
TUESDAY, OCTOBER 28-	
	Concert of Old Time Fiddle Music.
	Butcher School of Hawaiian Music.
WEDNESDAY, OCTOBER 2 5:30 to 6:30 p.m.	Concert of dance music.
	Dance program by the Texas Hotel orchestra.
THURSDAY, OCTOBER 30-	
5:30 to 6:30 p.m.	Ouartet Music Company.
7:30 to 8:45 p.m.	Chamber of Commerce program broadcast by remote control from Marlin. Texas.
FRIDAY, OCTOBER 31-	
	Musical program offered by Mrs. H. E. Nash of Mart, Texas.
7:30 to 8:45 p.m.	Walter Collins Fiddlers of Cleburne, Texas.

## Stop - Look - Listen

Here is an opportunity to get a standard radio set at a very low price. We have only one of each, so hurry!

No. 220 Kennedy with No. 525 Amplifier, complete with tubes, batteries and Manhattan Junior Loud Speak-
er; specially priced\$151.50
C R 9 Grebe, complete with batteries, tubes and Man-
hattan Junior Loud Speaker 102.00
Cabinet Type Teledyne, complete with tubes, batteries
and Manhattan Junior Loud Speaker
Radiola II, complete
Teledyne Portable, complete 57.50

## ACME ELECTRIC CO.

2807 West Pico Street (at Normandie)

Telephone 710-05

Los Angeles

**DEALERS**: The demand for Cosmopolitan Physiformers is exceeding our fondest anticipation. Deliveries are being pro-rated. Get your orders in now for The Cosmopolitan Phusiformer \$9.50 I. No oscillation. 2. Non-radiating. 3. Sensitive to dis-The tant stations. Missing Link 4. Freedom from hand capacity. in Radio 5. Synchronized and calibrated tuning. 6. Simple operation and construction. A FIVE TUBE SET USING PHUSIFORMERS IS ON DISPLAY AT OUR STORE **Opinion** of Experts "YEAR'S GREATEST INVENTION"...... New Yor'- Mail "BEST YET".....Chicago Tribune "SUPERIOR TO NEUTRODYNE".....Literary Digest "NEW RADIO ACHIEVEMENT"..., St. Louis Post-Dispatch "SELECTIVE & FREE FROM NOISE". Chicago Daily News "TRULY REMARKABLE - CALIFORNIA AND MASSA-CHUSETTS STATIONS WITH GREAT VOLUME ON LOUD SPEAKER. BUILDING PHUSIFORMER SET FOR USE IN OUR OPERATING ROOM".... 

**Phusiformers in Stock for Immediate Delivery** 

## **RADIO SUPPLY COMPANY**

Open Evenings till 9 p. m. Telephone VAndike 6063

920 South Broadway

Los Angeles, Calif.

WGR-	-Fe	eder	al Telephone Mfg. Corp.—319 Meters
			HOTEL STATLER, BUFFALO, N. Y. (Pacific Time)
DAILY, EXCE	PT SI	JNDAY	
Drilli, Litel		a. m.	Weather forecast for Western New York and Marine and Aviation
			interests.
	9.00	a. m.	Produce and live stock market reports (except Saturday).
		a. m.	Organ recital, Prof. George Albert Bouchard.
		a. m.	Concert through the courtesy of Buffalo Courier & Enquirer.
3:00 to			Tuesday, Thursday and Saturday, Hallpryd String Quartet.
5.00 10		p. m.	Monday, Wednesday, Friday, Vincent Lopez Hotel Statler Orchestra.
		p. m.	Digest of the day's news.
6:00 to		p. m.	Monday, Wednesday, Friday, Concert Program (see below)
0:00 10			Monday, Wednesday, Friday, Concert Program (see below). Monday, Wednesday, Friday, Vincent Lopez Hotel Statler Orchestra.
SUNDAY-	0:00	p. m.	Monday, Wednesday, Friday, Vincent Lopez Hotel Statier Orchestra.
SUNDAI-			Weather forecast for Western New York and Marine and Aviation
	1:45	a. m.	
			interests.
		noon	Vesper services.
		p. m.	Pre-service organ recital, Wm. Wall Whiddit, organist.
	4:30	p. m.	Evening service, Central Church, R. J. McAlpine, D.D.
SUNDAY, OCT	<b>FOBE</b>	R 26-	
		noon	Vesper services, Buffalo Council of Churches, W. W. Shannon and
			C. H. Wieand.
	4:15	p. m.	Pre-service organ recital, Wm. Wall Whiddit, organist.
		p. m.	Musical service, direct from Central Presbyterian Church.
MONDAN OC		and the second	· · · · · · · · · · · · · · · · · · ·
MONDAY, OC			Concert, courtesy Buffalo Courier and Enquirer.
		a. m.	
		p. m.	Vincent Lopez Hotel Statler dinner music.
		p. m.	Navy Day speaker.
	5:00	p. m.	Address by Judge I. R. Wilfley, former attorney-general of the
1.0	-		Philippine Islands.
		p. m.	Malie and Little, Cameo Record artists.
	6:00	p. m.	Program for the J. N. Adam Memorial Hospital.
TUESDAY, OC	TOBE	ER 28-	
		a. m.	Concert, courtesy Buffalo Courier and Enquirer.
3:00 to	4:30	p. m.	Hallpryd String Quartet dinner music.
WEDNESDAY.			
		a.m.	Concert, courtesy Buffalo Courier and Enquirer.
			Vincent Lopez Hotel Statler dinner music.
		p. m.	"Puter Lopez Hoter and Canale" by Cornich Stailey Secretary of
	5:00	p. m.	"Buffalo Harbors and Canals," by Cornish Stailey, Secretary of Rivers and Harbors Congress, Washington, D. C.
	E.1E		
0.00.1		p. m.	Malie and Little, Cameo Record artists. Recital, Isabelle Wheaton Stranahan, accompanied by Miss Ethel
6:00 to	1:00	p. m.	
-	~~		McMullen.
			rogram by Miss Eleanor Taft and W. H. F. Tenny.
THURSDAY, O	OCTO	BER 30	)
	11:30	a. m.	Concert, courtesy Buffalo Courier and Enquirer.
3:00 to	4:30	p. m.	Hallpryd String Quartet dinner music.
FRIDAY, OCT	OBER	31_	
		a. m.	Concert, courtesy Buffalo Courier and Enquirer.
		p. m.	Vincent Lopez Hotel Statler dinner music.
		p. m. p. m.	Readings by John Dodsworth.
		p. m.	
7.20 +-			Program courtesy Buffalo Trust Co., direction Cecile Kertz.
7:30 to			
SATURDAY.	NOVE	MBER	1

11:30 a.m. Concert, courtesy Buffalo Courier and Enquirer. 3:00 to 4:30 p.m. Hallpryd String Quartet dinner music.

## "THE RADIO DOCTORS"

#### Service that Satisfies

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

OUR SPECIALTY.—Custom-built sets to fit your Console, Phonograph, Book Case, Automobile and bank account. Our sets are doing distance now. Is yours?

If not, Phone AX. 7294. Consultation Free.

**R. O. GORDON** 

N. P. JACK

Laboratory 510 East Saturn St., Huntington Park, Calif. Phone DElaware 3978

# **Five Tube A-C Dayton Receiver**



Type XL-5-Price \$120.00

(With Low Loss Condensers) Engineered by R. S. Copp

> Ask Your Dealer

# Southern California Distributors **Globe Accessories Corp.**

LOS ANGELES

**307-309 West Jefferson Street** 

Pacific Coast Edition

## Letters to the Editor

October 6, 1924.

Editor Radio Doings.

Dear Sir: In the current issue of Radio Doings you speak of the national advertisers broadcasting and ask for opinions.

What would the newspapers do without advertisements? What magazine is there without them? If radio were something to read instead of listen to, it would be full of "ads." What would become of business if the business man could not advertise? And these "ads" cost money.

I do not see how anyone could object to listening in on a program broadcast by some firm that is paying for the privilege of mentioning its name in the way of advertising. The names of hotels are mentioned in broadcasting music, as Yours for radio, well as the name of the leader. MRS. O. A. METZ.

Hollister, Calif.

October 13, 1924.

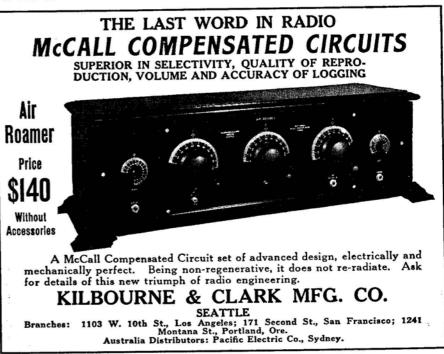
#### Radio Doings.

Dear Editor: On Saturday morning, October 11, between the hours of 1:00 and 3 o'clock, I picked up a station that was broadcasting jazz music and songs. After the music and songs there was an announcement of names (of people from different parts of the United States), saying that these persons had been given such radio equipment as ear-phones, loud speakers, etc. I did not get the call letters and I would like to know what station was broadcasting at this time. I have a five-tube Atwater-Kent set and my dials were set around 20. I do not Yours truly. know what wave meter length that is.

Crockett. Calif.

JACK DIAZ.

This was KNX, the new 500-watt station of the Los Angeles Evening Express, 337 meters.



## Letters to the Editor

October 13, 1924.

Editor of Radio Doings.

Dear Sir: I would appreciate it greatly if any of your readers could tell me what station we heard last Saturday evening, October 11, broadcasting on a wave length of about 280 meters, beginning around 6 P. M. (Pacific time). It was from a convention hall in an eastern city. We heard speaker after speaker, but no announcement was made regarding the station up to 7:20, at which time we were compelled to leave our set. They had hoped to have President Coolidge address the meeting, but not being able to be present, he talked to them over the telephone from Washington, "400 miles away," the speaker announced.

We would be lost without your valuable little magazine, and enjoy the "Letters to the Editor" section, which contains many helpful points.

Yours very truly,

GEORGE McCORD.

1520 Manhattan Ave., Hermosa Beach, Calif.

P. S.-We vote for a silent night for all local stations, not because our Los Angeles programs are not of the finest, but because there is a real fascination in trying to pick up distant stations.

October 12, 1924.

Editor Radio Doings.

Gentlemen: Will you or some of your readers kindly inform me what station was broadcasting football scores about 12:40 o'clock Sunday morning? Yours truly,

E. BECK.



To the Thousands Who Are Buying Radio Receivers:

ADIO PRODUCT

You should select a Receiver which has-

- (1) Extreme simplicity of the tuning operation.
- (2) Pure and natural tones.
- (3) Selectivity.
- (4) Acute sensitiveness and ease of long distance reception.
- (5) Freedom from body capacity effects.

You get all of these features and more in the

## PARAGON

### \$50.00 to \$300.00

**Complete**, Installed in Your Home

In 1915 the first Paragon was manufactured. Since then Paragon has established many records, and today thousands of Paragons are furnishing as many homes with entertainment.

### **RADIO DEALERS:**

The sales franchise on this wonderful line may be open in your territory. If it is, you have an opportunity to make a host of friends and a lot of money. Our sales plan is unique. Write us now for full details.



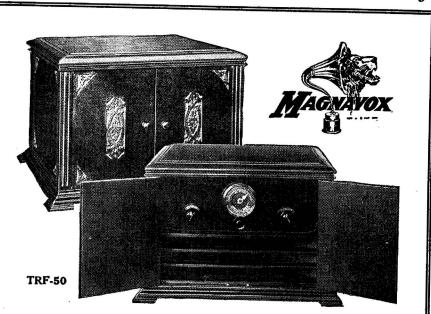
## WALTER W. BIDDICK, Inc.

PARAGON

1316 South Grand LOS ANGELES Phones: AT. 1301 AT. 1503

116 East Fifth SANTA ANA Phone 2525

......



## MAGNAVOX Radio

The Long-Awaited Broadcast Receiver combining supreme efficiency, convenience and beauty, produced at a low cost which brings it within reach of all.

THE BROADCAST RECEIVERS here shown possess three decisive advantages: unequalled simplicity of control; reproduction of exceptional clearness, and handsomely carved period cabinets.

Their unequalled simplicity of control is provided by the Magnavox Unit Tuner which does away with all complicated dialing, and places the novice on the same footing as the radio expert.

Magnavox Receiving Sets, Tubes and Reproducers are sold by reliable dealers everywhere

### THE MAGNAVOX COMPANY OAKLAND

San Francisco Office, 274 Brannan Street

IOR

#### **TRF-50**

is a 5-tube tuned radio frequency receiver with built-in Magnavox Reproducer unit which consumes no battery. Cabinet measures: height, 14<sup>3</sup>/<sub>4</sub> in.; length, 20<sup>1</sup>/<sub>2</sub> in.; depth, 18<sup>3</sup>/<sub>4</sub> in.

Without tubes or batteries, \$150.00

#### TRF-5

is identical with the above but encased in smaller cabinet without built-in Repro ducer. Cabinet measures: height, 95% in.; length, 201/2 in.; depth, 143/4 in.

Without tubes, batteries or reproducer - \$125.00

## Letters to the Editor

Radio Doings.

October 13, 1924.

Gentlemen: Relative to Radio Doings as of October 4, regarding our opinion, just have this to say: The letter Mr. Ray Higginson of Del Mar wrote you and published in yours of the 11th hits the nail on the head and expresses our sentiments exactly. I believe if it is handled properly, as Ray points out, it will be a good thing and beneficial all the way round. The broadcast station in this way gets a "lift," the advertiser is benefited, and we of radio land have the pleasure of listening to a variation of programs of high class entertainment.

In closing, wish to compliment you on our little Red Book—Radio Doings. Haven't been missing a copy of it since I ran on it, and expect to get it regularly through the mail shortly, as I have taken a year's subscription. You know I feel as though my radio would not be complete without it.

Perris, Calif.

Sincerely yours. PAUL V. FOX.

Radio Doings.

October 15, 1924.

Gentlemen: I have come to a problem which does not appear to be answered in "Radio Doings."

Tuesday night, October 13, at about 9:30 o'clock, we heard someone broadcasting "air routes" and mentioning "radio miles." The meter length was 360, and when he signed off about 9:35 P. M. all we could understand was KAQ, but could not hear the location. Have you any idea who it might have been?

On our Neutrodyne we have received 52 stations and have not had it during the winter as yet.

We enjoy Radio Doings and would like to know if the Middle West edition of Radio Doings is for sale in San Francisco.

San Francisco, Calif.

Yours very truly, T. B. GRIFFITH, JR.

## Camco Loud Speaker \$10.50

The Black Fibre Camco Loud Speaker pictured here will be a Family friend and a very pleasant one. It will bring you the finest music and the best speaking radiocast with such a natural reproduction as to delight the most particular people. Its beauty will at once appeal to you. Twentytwo inches tall, ten-inch bell, black enamel base and six-foot black cord.

The unit is the non-adjustable type and has a clear, mellow tone.

CANNON & MILLER CO., INC., Springwater, N. Y. Manufacturers of Cannonball Headsets, \$3.50 Grand Headsets, \$4.75 W. J. PLATT, Distributor Glendale, Cal. SOLD BY FIRST CLASS DEALERS AND JOBBERS

# FAN OR FAMILY

Some dealers tell you distance hasn't begun to come in even yet. Note the date on this unsolicited letter. Mr. Jordan constructed his own Neutroflex from our kit of parts, and since this letter has a long new list of distant stations.

> Spal Beach, California, September 26-1924.

Mr. C. D. Tanner, 528 W. Washington St., Los Angeles, Calif.

Dear Sir:

Please note the following list of stations received on one of your Neutroflex Sets. These stations have all been heard on a loud speaker, as we do not even own a set of Head "Phones":

ĸ.	F.	0.	N.	-	Long Beach, Calif.	ĸ.	L.	z.	- De	enver, Colorado.
K.	D.	P.	т.		San Diego, "	K.	F.	Ρ.	T.	Salt Lake, Utah.
ĸ.	F.	A.	w.		Santa Ana, "	ĸ.	F.	ĸ.	x.	Hastings, Neb.
ĸ.	F.	s.	G.		Los Angeles "	E.	D.	¥.	L.	Salt Lake, Utah.
ĸ.	G.	0.			Oakland "	ĸ.	F.	A.	в.	Pullman, Wash.
ĸ.	J.	s.			Los Angeles "	ĸ.	z.	<b>X.</b>		Oakland, Calif.
K.	н.	J.			Los Angeles *	ĸ.	0.	B.		New Mexico
K.	P.	0.			San Francisco "	ĸ.	D.	ĸ.	A.	E. Pittsburg, Pa.
K.	F.	1.			Los Angeles "	¥.	L.	s.		Chicago, Ill.
K.	G.	¥.			Portland, Oregon.	W.	в.	A.	Ρ.	Fort Worth, Texas.
K.	L.	x.			Oakland, Calif.	W.	F.	A.	A.	Dallas, Texas.

R. C. Jordan.

Remember that the Neutroflex has unapproached fidelity of tone and freedom from static.

One set with distance for the fan and music for the family-the Neutroflex.

There is only one Neutroflex, the product of the

### C. D. TANNER CO.

Phone ATlantic 4548

528 W. Washington St., Los Angeles

## Letters to the Editor

Dear Editor:

I am writing a few more lines that may help some one who is tearing his or her hair in an effort to get the most out of their set.

In the Harkness reflex set the whole thing pivots on the crystal detector. I am quite sure that the Honorable Harkness himself did not use the fixed crystal for his set. Best results were found with the semi-fixed crystal and greater distance resulted. The fixed crystal is fine for local reception, but I'll bet two-thirds of the fans don't get distance outside of Oakland with their sets. (Of course there are exceptions to every rule.) I use a Lincoln detector, but not their crystal. For 25c you can get a crystal that comes in a little transparent envelope, two inches square. (I don't remember the name, but it is easy to locate.) I have tried them all and find this the best. By careful testing I am sure you will find a long distance spot, but remember to use your 100 feet No. 14 insulated wire which I wrote about in the issue of October 12-17.

I have just hooked on to KFON, Long Beach, and they come in on the loud speaker and are heard all through the house. It seems that all the stations are waiting for you if you can but find them on the dial. It took me two weeks to find KFON, and then I thought it was Salt Lake.

I believe some sets would be more selective if they just took off the ground wire and didn't use any. It cuts the volume slightly and gives body capacity, but even then better results might be accomplished, also greater distance. Try it. If it is too weak to suit you, increase your antenna.

But please don't kill me if my suggestions don't pan out. Just remember I only intended to help.

Something tells me I had better ring off. Many thanks again. K. M. NELSON.

3358 Perlita Ave., Los Angeles, Calif. P. S.-This is intended for Harkness circuits only.

## HERE WE ARE! THE GLEN-AIRY RADIO STUDIO

S. N. WOOD, Mgr.

Phone 760-461

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Here's What You Have Been Waiting For

I have just figured out how I can do a lot of good and at the same time please and serve you.

#### NICK HARRIS

To every reader of the Radio Doings who will fill out the coupon below and mail it to me, I will send a copy of "In The Shadows," my book of thirty true Detective stories taken from the pages of the criminal history of California, and including the Bluebeard Murders, The Queen of Safecrackers, The Father Heslin Case, Witherell Kidnaping, The Mass of Golden Hair, Jimmy the Rat Stories, Exposing the Spanish Swindle, The Murder of Detective John Fitzgerald, and twenty-two other gripping and thrilling stories from true life; also one Nick Harris Official Police Whistle—a total value of \$3.00—all for the sum of \$1.98.

This is a special offer arranged for readers of the Radio Doings.

This book may save your boy or girl from the Penitentiary.

The Police Whistle might prevent a burglar entering your home, or a dastardly assault.

Every woman should have one.

#### RADIO DOINGS COUPON

#### Nick Harris Detectives,

900 Pantages Building, Los Angeles, California.

Enclosed find \$1.98. Mail me one personally autographed copy of "In The Shadows," and one Nick Harris Official Police Whistle.

Name.....

Address

City.....

Pacific Coast Edition

## ????

QUESTION—I am enclosing a diagram of my set which works very good with the exception of not being able to tune as close as I desire. My antenna is 125 feet long, including the lead-in. I have heard KLX, 509 meters, down to KFDD, 252 meters. I receive regularly KFKX, WBAP, KFOA, KFAU, KGW, KJS, KFI, KPO, KGO, KDYL, KHJ, WOAW, CNRC, CNRR, CFAC and CKCD. I have good volume, but sometimes I get two or three at once and cannot tune unwanted stations out. Radio Doings is the best yet. D. M. GRUBER, Meridan, Idaho.

ANSWER—The diagram you enclosed is that of the de Forest ultraudion, but of the single circuit type. Would suggest for improving selectivity that you use coupled circuits as shown in Radio Doings, issue of October 12 to 18, inclusive.

QUESTION—I wish to thank you for the information you gave me in a recent number of Radio Doings. As I have said before, I am not an electrician, and know ltitle about radio. Would you please explain to me what is meant by body canacity effects?

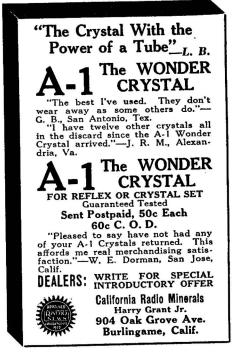
#### KENNETH WEAVER, Los Angeles, Calif.

ANSWER—When we speak of body capacity, we mean the effect which the close proximity of the hand and body of the operator has upon the electrical properties of the circuits of the receiver. The presence of your hand on the dial of a variable condenser, for example, serves to slightly increase the capacity of the condenser. You tune in a station under this condition, and then when you remove your hand the capacity automatically decreases a little, which detunes the station. Or if it is a regeneration control, when you take your hand away, the set may begin to howl, due to oscillation, because of the change in values. You get the idea? To prevent this, condensers are usually so connected that the rotor plates and shaft are grounded. In some cases a grounded metal shield is placed between the "touchy" parts of the circuit and the operator.

QUESTION-I have a five-tube Neutrodyne and it is impossible for me to get anything except KFON and KGO outside of Los Angeles. I have tried to get KPO and KLX, but in trying for KPO I have either KFI or KHJ and cannot get anything above KFI. My aerial is 50 feet long, east and west. It stretches from the eaves of the house to the garage (about 12 feet above the ground), lead-in about 20 feet and ground is to cold water pipe 10 feet away. I have had my set neutralized by an expert, and he says it is perfect from that score. Can you tell me what to do in order to make my set capable of picking up KLX and other stations on the coast? BERNARD HARRIS,

Los Angeles, Calif.

ANSWER—Your antenna is particularly good for long distance reception, being but 12 feet high. Would suggest that you raise it as high as possible, but do not increase the length.



70

QUESTION-How could we do without Radio Doings? I have read your answers to others' troubles during the past year, and now my time has come. I have lately finished a Harkness neutroflex, as per sketch inclosed, and think it is a good set when adjusted properly. This set was designed to use the Diode tube, but I replaced it with a crystal. My first trouble was no volume, and I remedied that by connecting a .00025 mf. condenser across the primary of the first A. F. transformer. Now, KJS, KFSG and KGO all stand out with about equal volume and I cannot separate them. Tried cutting down the antenna and taking turns off the primary of the first coil, but no good. Connected a crystal set in series with the antenna and it did the work O. K., but I cannot continue to use it. What can I do?

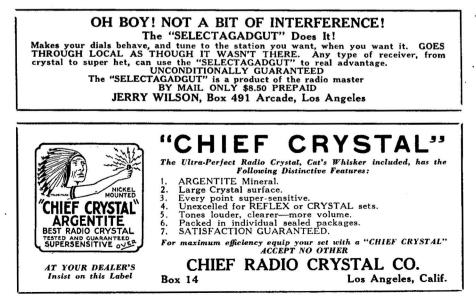
W. E. THEOBALD, Glendale, Calif.

ANSWER-The crystal set connected in the aerial lead served as a wave trap. You can construct a simple trap by shunting a 50 turn coil with a 23-plate condenser and hooking this combination in your antenna. Often, simply connecting a .00025 mf, in series with aerial greatly increases selectivity.

QUESTION---I picked up the "Shenandoah" Thursday at 12:40 p.m., calling KHJ. They were complaining about the aeroplanes flying too close to them. Could you give me their wave-length and the number of watts output? They came in on the loud speaker, and by the reading of my dials they were around 550 meters. Could you send me a diagram of how to connect a 25-watt lamp to protect my tubes from being burned out by wrong connection of the B battery? I am a booster for your wonderful little "Red Book."

CHRISTOPHER CLARKE, Santa Barbara, Calif.

ANSWER—The big navy airship operates on 1140 meters with an output of 100 watts. You were listening to their first lower harmonic. Their transmission was successfully re-broadcast by KHJ on the day you mention. (2) Simply connect an ordinary lamp socket holding the 25-watt Mazda in series with the negative B battery lead, for the protection of your tubes.



Pacific Coast Edition

variable condenser to hear local programs and hence become interested in your magazine, I venture to ask the following: (1) What is the best circuit for tapped coil and condenser crystal set for this locality. (2) What is the best length aerial? (The writer continues at length with description of antenna, etc., and concludes as follows): It is time for the chief engineer of this outfit to make remarks about, "Is that rat-cage going to keep you up all night, or will you come to bed?" She listens over it, too, but has no illusions about her husband being a genius of electricity.

#### E. D. COOKE, Los Angeles, Calif.

ANSWER-An efficient selective crytsal set is described elsewhere in this issue. Use about 75 feet antenna, including lead-in. Remind your better half that every great inventor once monkeyed with a cigar-box, a bit of string and a hairpin, and that your "rat-cage" already shows promise, being able to bring into your home the artistry of the Southland's greatest musicians, the latest in news, the best in sermons .- the symphony orchestra and the great organ.

NOTE-F. S. Klinker, C. F. Staples, Robert Hamlin, R. B. Conroy, and Arthur H. Collins requested a diagram of a selective crystal set. Elsewhere in this issue we have given the diagram and descripion of just such a set.

QUESTION-Would like to avail myself of your question and answer department. I have a 5-tube neutrodyne, and while I can get plenty of volume, we are bothered with a great deal of static. Can I use an indoor loop with this set? H. R. PHILLIPS, Arroyo Grande, Calif.

ANSWER-Static is seasonal, being at its worst during the summer months. It is abating considerably, and will soon be entirely absent for the winter. Your best move to eliminate some of the static is to cut your antenna down as much as possible, still retaining satisfactory volume on signals.

QUESTION-Having thrown together a bunch of wire, crystal, and 23-place

## - ATTENTION -Set Builders Dealers

I have just purchased the entire stock of a standard brand of radio "B" batteries from a local concern that went broke and am in position to give you advantage of an enormous saving in the purchase of "B" Batteries for installation in sets, etc. It will pay you to see me today. I am selling these batteries at a price that will make you sit up and take notice.

### Room 202, Radio Building LOS ANGELES

1111 Wall St.

## ????

QUESTION—As a reader of your wonderful little book, I would like to ask a few questions. I have a Teledyne receiver, using dry cell A and B batteries, and type C 299 tubes. When we bought the set amplifiers 1 and 2 worked perfectly, but now, no matter how far we turn them, they will not amplify at all. When we receive a distant station like KFKX, in order to bring them in louder, we have to turn the detector tube dial way over. I am using three  $1\frac{1}{2}$ -volt dry cells for A battery.

#### ERNEST GRAHAM, Glendale, Calif.

ANSWER—Either your A cells are nearly dead, or the tubes have decreased electron emission. Replace the A battery with new ones, and if you still have the same trouble, burn the tubes for half an hour with the B battery disconnected. Then replace the B battery connection, and you should have normal operation.

QUESTION—I have a radio freq., one stage, detector and two stages of audio freq. I am using one variocoupler on same. Can you tell me how I can cut out KFI and bring in KGW over them? I also have trouble with KGO and KFKX the same way,—I cannot separate them. (2) Will you please tell me how I can use regeneration in connection with this same hook-up, and will it make it more selective? I am using R. F. transformer coupling.

#### R. ST. CLAIR, E. San Diego, Calif.

ANSWER—To increase your selectivity I would suggest that you eliminate the transformer coupling and make your radio frequency stage of the tuned type. Use a type of coupling that makes the first tube incapable of oscillation, such as is used in the neutrodyne circuit. Then to further increase volume and selectivity make the detector tube regenerative by tuning its plate circuit by means of a variometer of high inductance value.



## SAM SHARPE RADIO ELECTRICALAND HARDWARE SELLS FOR LESS 101-103-W7THST@733-S-MAIN ST-L.A. HINE WATER 3000

## The Reason for No DX All the Time A New Theory

#### By WILLIAM D. HOPPE

You savey sometimes you get distance, and pronto gone, maybe soon comes back strong. There is a reason why we cannot get distance all the time, so I have formed a theory that probably will explain the reason.

The earth is a magnet, and is surrounded by a magnetic field. Some writers not knowing what to call this medium surrounding the earth have called it ether.

We all know that if a magnetic field is fluctuated in the presence of a conductor of electricity, that an electric current is set up in the conductor.

Now, in wireless transmission, we simply fluctuate our natural magnetic field, these fluctuations set up minute currents in the aerial and we receive them with our instrument.

with our instrument. At the transmitting station the aerial is rapidly charged to positive and negative, and this rapidly changing magnetic field at the aerial sets up a like change in the natural magnetic field as I have pointed out.

At certain times of the year, due to external influences, such as the action of other planets on the earth's magnetic field, the magnetic particles are forced farther apart, and when this condition exists, waves can not travel as far, or with the same force that they do when the magnetic particles are close together. You can demonstrate the above theory by an arrangement of magnets and

You can demonstrate the above theory by an arrangement of magnets and iron filings. You will find that iron filings will arrange themselves in a certain form when placed over a magnet, and then if you impose another magnetic field on them they will rearrange themselves.

You will also find that heat will weaken a magnetic field, and it is probable that at certain times of the year heat weakens the magnetic field surrounding the earth, and forces the magnetic particles farther apart, thus cutting down the distance that the waves can travel.

The magnetic field surrounding and penetrating the earth is influenced by other planets, and at times this external influence is of such nature that it makes it possible to transmit a great distance, and the waves come in strong, and at other times this external influence makes it almost impossible to transmit.

I think there are spots on the earth where it is impossible to either transmit or receive. These spots are places where external magnetic influences have divided the magnetic lines of our atmosphere making a void in it, and at such places there being no magnetic field, we can neither transmit or receive.

I believe the whole universe is a mass of magnetic fields, and that the planets are held in suspension and kept in rotation by magnetic force.

The Pacific Motor Supply Company, 926 South Main Street, Los Angeles, are the jobbers for the Royalfone and Royalfone Units.

## **MID-WEST EDITION RADIO DOINGS**

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The phenomenal "step-up" in popularity of Gilmore Gasoline is because its users recognize Gilmore as being consistently better.

Mouth-to-mouth advertising has "amplified" the demands with increased "frequency" until over 278 service stations are now required to supply those who desire to "tune in" on this higher quality gasoline.

> Look for the Lion's Head at your neighborhood Service Station and be convinced of Gilmore's superiority.



## GILMORE OIL COMPANY

LOS ANGELES

### Watch Your Batteries

Due to neglect to pass on to customers correct information as to the care of batteries, many radio dealers have necessarily lost good customers.

When it is considered that due to carelessness or inexperience some sets are being operated at home at a cost as high as 30 cents an hour, whereas others of equal range and performance cost but a few cents an hour. it becomes evident that batteries must be properly chosen and cared for if the receiver is to be operated economically.

The choice of proper batteries is usually left to the dealer. He should know how to choose so that his customers will get the greatest satisfaction. Likewise, is he responsible for making sure that the correct hook-up is used and that the right amount of "juice" is given the tubes.

Here are some pointers on batteries that the dealer should pass on to his customers:

1. Use the size battery adequate to the need of the particular set. It is impossible to get results from multiple-tube apparatus with the smallest size of "B" battery, and the experiment will also be costly because of the rapid depreciation of fuel supply and the consequent need for frequent renewals. The number and type of tubes, as well as the range sought, should determine the size of battery required.

2. Be sure that the "B" battery is not connected to "A" battery terminals, as the filament in the latter is designed to operate on low voltage, whereas, the voltage of "B" battery is many times that of the filament voltage rating.

3. Use no more tubes than are sufficient for the results desired. It frequently happens that inexperienced operators will have more tubes burning than are necessary, and then de-tune to lessen the volume of sound. For local stations. for instance, the first audio stage is sufficient.

4. Burn the tubes at the lowest point compatible with good reception. Excess filament current not only drains the batteries unduly, but reduces the life of the tubes. Once the rheostat is fixed at the proper point, it should not be touched again.

5. Turn off the filament the moment you stop listening. Current is flowing as long as the filament is lighted, regardless of whether or not you are receiving.

#### SITUATION WANTED

Radio executive, technical, thoroughly posted on sets, parts, buying and selling. Open after November 15th for proposition as manager radio department or factory representative.

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Your choice of either "Pay as you listen in"

Demonstrated in your home, no obligation

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SOUTHERN CALIFORNIA RADIO CO. 2135 West Pico St. LOS ANGELES



## Trade Notes

The Graham-Reynolds Electric Company, one of the oldest electrical wholesale houses on the Pacific Coast, is a very welcome addition to the jobbing branch of the Radio business. They have taken over Day-Fan line and have exclusive distribution for it in the Southern California territory.

Oliver S. Garrettson, formerly of the Radio Sales and Service, which organization he founded, has recently opened up a radio store at 4312 Beverly Blvd., Los Angeles. His associate in this new venture is Alan Goodan, formerly of Goodan-Jenkins Furniture Company. The feature of this new organization is immediate and efficient neighborhood service and convenient credit terms.

Carl A. Stone Company have moved to their new quarters at 429 Insurance Exchange Building, Los Angeles. They represent the following lines: Chas. A. Branston, Inc., Bremer-Tully Mfg. Co., Chelton Elec. Co., Gordon Elec. Mfg. Co., Hoosick Falls Radio Parts Mfg. Co., Ogden Mfg. Co., R-U-F Products Company, Rauland Mfg. Co., Shamrock Mfg. Co. and Trimm Mfg. Company.

The return of A. E. Ravenscroft of Kierulff & Ravenscroft with less than the limit, as a result of his recent hunting trip, was explained by him to be due to the fact that he could not forget radio long enough to leave his new Model XV and its delightful L. D. reception. Isn't it terrible that a hunter of Ravenscroft's fame should be furnished with such a fitting alibi?

The Wireless Shop have moved into their new building, 150 Glendale Blvd.. Los Angeles. They are now fully equipped to handle their fast-growing business. Mr. Edgecomb, the manager, is well known in the radio world, and he has left nothing undone that would increase the efficiency of the plant.

Thomas L. Kennon, of the Kennon Radio Laboratories of San Francisco, was a recent visitor to our office. Mr. Kennon told us that Mr. E. K. Evans, formerly of the Zenith organization of Chicago, is now connected with his firm. Charles E. Thompson, also a member of the Kennon Radio Laboratories, designed and constructed the broadcasting station at Mazatlan, Mexico. This firm specializes in radio research work and reports great interest in the higher grade sets. Mr. Kennon is visiting Los Angeles with the view of establishing a laboratory here.

Mr. B. D. Keller, of the Precise Manufacturing Company of Rochester, New York, in a recent visit with our editor, told us that the new Super Multiformer, which combines in one unit the usual four stages of intermediate frequency transformers, is creating unusual interest. The instrument was designed by James L. McLaughlin of the Precise Corporation, and is said to be the only great advancement that has been made in Superheterodyne design since the circuit was conceived.

#### FOR LEASE OR RENT

Ground Floor space in the Radio Wholesale District, especially desirable for manufacturing, manufacturers' agents or warehouse space. Reasonable rent.

For full particulars apply.

RADIO DOINGS, 308 Van Nuys Bldg., Los Angeles

#### "Out of the Air"

We cannot but help calling attention to the very excellent programs that are being given by the Metropolitan Theatre in Los Angeles, over KFI. It is to be regretted that they are on the air only one hour each week, namely, from 7:00 to 8:00 P. M., on Sundays.

For every dollar spent on furniture in the United States, 33 cents is spent on radio.

Use low ratio transformers for good, clear reception with the least distortion.

First act requiring use of radio on passenger-carrying vessels was approved June 24, 1910.

Purchase or operation of radio sets in China is prohibited.

A new 500 watt Western Electric broadcasting station is now being erected on the campus of the Kansas State Agricultural College. It will not be ready for operation, however, until about January 1, 1925. The station call letters are KSAC.

Through the courtesy of radio station KFKB, located at Milford, 25 miles from Manhattan, the radio extension course will be broadcast by remote control on a wave length of 286 meters until the time station KSAC is ready.

KFKB will be on the air daily except Sundays and Saturdays at 5:30, Pacific time, continuing this course.

Ceylon has been getting very busy on the subject of radiocasting and the committee which has been sitting to investigate the question advocates that it should be controlled by the Post Office. The programs will take the usual form of musical items and news with commercial information supplied by the Chamber of Commerce.

French West Africa has now been put into wireless communication with France by the opening of the wireless station at Bammaro on the Niger. This is one of the four French colonial stations. Saigon has been in operation for some months. The one at Stanley Pool on the Congo and the other at Antananarivo in Madagascar have yet to be built.

There are more than 3000 manufacturers of radio supplies in the United States.

Who says the radio listener-in is not appreciative? Results of the recent contest from KNX, conducted by Kierulff & Ravenscroft, donators of the prizes, seem to prove two theories: First, that the public IS appreciative, and, secondly, that they will listen in even to the wee, small hours of the morning.



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