

Radiocast 5¢ Weekly

Pacific Coast Broadcast Programs and Interpretive Comment



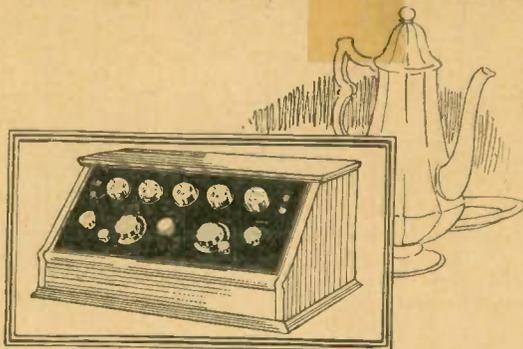
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ARTHUR H. HALLORAN, Editor

A. J. URBAIN, Managing Editor

H. W. DICKOW, Advertising Manager

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NUMBER 29

Constructive Criticism

Considerable criticism, as well as praise, has been directed against the editor and the correspondents who have been criticizing some of the evils of the local radio situation. When a critic condemns, he lays himself open to more condemnation than when he praises. The condemning critic must also be prepared to take his own medicine.

Criticism, like prophecy, is a matter of personal opinion. Anybody's opinion is as good as that of anybody else. Anybody can set himself up as a critic of anything, and get a hearing, if he has a saving sense of humor, a good literary style, or a sympathetic audience.

Critics do well if they take themselves no more seriously than do most of their readers. So don't hold any grudge against the critic. By being disagreeable today he may perform a real public service tomorrow.

Of course, if any station tried to follow all the whims and whines of its critics, as did the man and boy with the donkey in the old Fifth Reader, it would whirl around like a weather-cock, pointing nowhere and getting nowhere. 'Tis far easier to find a fault than to remedy it. Each station is doing its best, according to its own lights, to please the public.

While scurrilous letters of malicious

criticism, especially if anonymous, soon find their way to the incinerator, any well meaning letter of constructive criticism pointing out ways of betterment is fully as welcome as an applause card, and every listener knows how much the latter are wanted.

Radio entertainment is still in the formative stage. It is cautiously feeling its way toward better things. Three years hence radio programs will be as far superior to the present as these are to those of three years ago. To this end intelligent guidance is needed.

Such outside guidance may be of great help to a station manager who takes it in the right spirit and who exercises due judgment as to what will benefit the station in the long run. If he resents such well intentioned help in his work or if he ignores those straws showing the direction of the wind to popularity, his friends will merely give the benefit of their advice to others who do appreciate it.

Gladstone is quoted as saying that "censure and criticism never hurt anybody. If they are false they cannot hurt you unless you are wanting in manly character, and if true they show a man his weak points, and forewarn him against failure and trouble." He that refines the public taste is a public benefactor.

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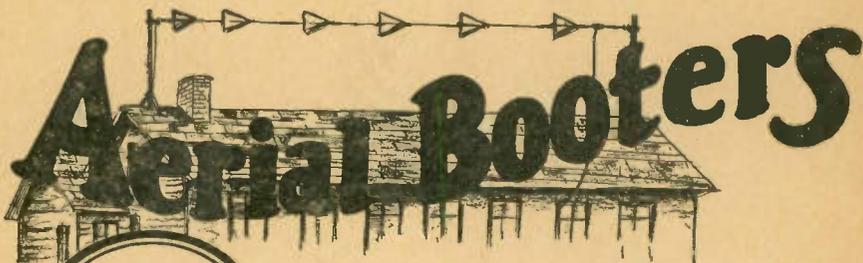
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Money Back Guarantee



- 1—Freddie Elizalde, director of Elizalde's Stanford Orchestra, on the air from KPO Saturday afternoon, April 25.
- 2—Myrtle Edna Waitman, pianist, who will be heard over KPO Monday evening, April 20.
- 3—Helen Resnick, pianist on the KPO program Tuesday, April 21.
- 4—Atwater Kent Melody Maids, left to right, Adlyn Duvall, Effie C. Curtis and Marjorie Morrish, on the air from KPO every Wednesday evening.



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The Loud Speaker



Mary Baker Eddy brought to a waiting world the message that nothing exists but good. This, however, was before the days of radiocasting.

* * *

One principle of Christian Science, viz., that all evil is error, applies distinctly to radio. There are a lot of evils that exist and most of them are errors of one kind or another. At the head of the list is that erroneous evil of so arranging programs that 50,000 stations sing the same piece on the same night.

* * *

Take Easter Sunday for an example: one bright program arranger thought it would be quite the proper thing if he put on a choir to sing the "Ho Hum" from "Nux Vomica." Whereupon nine other arrangers struck with the same inspiration, arranged to have "Ho Hum" rendered from their respective stations. As a result, everywhere we tuned, we were met by a barrage of "Ho Hums."

* * *

Now, what is the cause of this? If an orchestra in San Francisco plays Mr. Dawes' well known violin specialty, on Monday night, the orchestras in Los Angeles, Portland, Chicago, New York and the City of Mexico do the same thing. If a baritone guarantees "The West, a Nest and You," in Victoria, so do the tenors and sopranos in Michigan, Great Lakes and Pawtucket, Ireland, and all on the same night until one wonders if the national real estate men's association has bought all the radio stations.

* * *

You, who read this, nod your heads and say, "It's a fact." All right—why is it a fact? To anyone who can find the answer to this question we will deliver a \$700 cabinet grand radio receiving set purchased with the gesser's own money. The program arrangers say they haven't an answer. And yet Old Man Scaggs, who lives up on Telegraph Hill and owns a crystal set and a good equipment of brains, and by virtue of being unmarried, can think in peace, has evolved this explanation:

"Thought waves!" says Old Man Scaggs. "Them fellas that git up the programs are all thinkin' on the same wavelength, and b'jing, they heterodyne!" Maybe they do. Maybe one of them is a super-power thinker, and when he sends out a thought, all the 500 watt and 50 watt and 5 watt thinkers pick up his carrier and go and do likewise. If so, here's hoping the boss thinker is a person of wide musical knowledge, else we are going to be mightily circumscribed in our programs.

* * *

What radio programs need more than anything is diversity. As one fan expressed it the other day: "We've now heard all the music in the world. Where do we go from here?" The crying demand is for something new, for novelty, for innovation, as well as entertainment. Radio is going through the motion picture stage. Once we were content with Florence Lawrence and pigeons flying in the Court of St. Marks, the first cinematographic wonder. Now it must be the world's best on the silver sheet to hold attention. So—radiocasting!

* * *

Yesterday we took phonograph music from a haywire station and called it good. Today we claw for New York and insist on nothing short of the Philharmonic Orchestra as an educator cracker on which to whet our musical gums. Tomorrow John McCormack will need a pull to get before a microphone, and opera companies will carry their own remote controls along with the scenery and other props.

* * *

There is a solution coming for the duplication of music in all directions. That is to hold special days on which the same piece is played everywhere, and then not play it again until the annual day rolls around. For instance, "Minnetonka Day" could be held in 2345 cities, say on April 23. And on June 1 hold "Elegie Day" with tributes to Massenet in all the schools and radiocasting stations. And on July 10, let

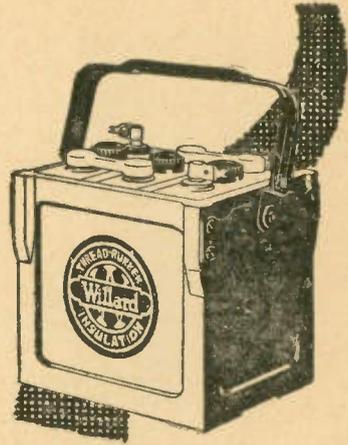
(Continued on Page 52)

See the Willard FRR Battery

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are ace-high with fans who like to talk distance. Let us show you how they help you to get better results from your radio set.



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The Voice of the Listener-in

1516 McKenzie Avenue,
Fresno, Calif., April 5, 1925.

Mr. Arthur H. Halloran,
Radiocast Weekly,
San Francisco, Calif.
Dear Sir:

Have been noticing the complaints about KPO being on the air all the time and making it difficult for the local listeners to get distant stations. Of course, I realize that it is not just because it is Hale Bros. station, but that it would be the same if any of the other local radio-casters happened to be so overzealous or persistent. They probably feel that they should operate a considerable part of the time, otherwise their big investment would not be justified.

I have a complaint against KPO that is from a little different angle, and which of course would apply to any other station under the same circumstances. I want to say first, however, that I am not a DX hound at all and that after 8 p. m. am perfectly contented to listen to Western stations. However, when I connect up a new set I like to try it out on distant stations in the early evening. Yesterday, Saturday, at 6:15 p. m. I was trying for Eastern stations and tuned on to one at 428 meters and as KPO was not scheduled to be on at that time, I concluded that I was getting WSB, a station that I had been desirous of hearing. There was no announcement at the end of the number, merely a lot of applause and the next number starting immediately after. The program continued that way for 15 minutes, and then finally to my great disgust came the announcement, KPO, Hale Bros., etc.

There I had wasted a quarter of an hour listening to a Pacific Coast station when I might have been trying for other Eastern stations, and in the meantime my dinner was getting cold. Now that same thing is happening to a lot of people all over the country and I don't know of anything so exasperating, unless it is the blooper. This particular radiocast was by remote control, but there was plenty of time to cut in during the applause with the simple announcement, KPO, San Francisco. In fact, it seems to me that there is some good regulation regarding the frequency of announce-

ments. Just before running on to KPO, I had been listening to KDKA, so had my mind all set for distance, and wasn't in the mood to hear a local.

Your Radiocast Weekly is a very useful little publication, but it is very evident that some stations are not sticking to the schedules as you publish them, which, of course, is nothing that you have any control over. I get quite a kick out of Earl Ennis' Loud Speaker section. He surely has the right slant on different situations, and puts it over hilariously. The editorials, too, are usually right to the point and carry a lot of common sense to people who either do not know of or appreciate the limitations of radio reception.

Very respectfully,
(Signed) R. C. DENNY.

Petaluma, Cal., April 6, 1925.

Arthur H. Halloran,
Editor, Radiocast Weekly.

Dear Sir:

Congratulations on the improvement that each issue of your little magazine has shown over its predecessor for the last three or four weeks, particularly the last number. The form of the daily schedule is much more convenient than the old one, and the reading matter is both interesting and instructive.

Your new department, The Voice of the Listener-In, is a good one, and I hope to see it well patronized each week. I quite agree with the writers whose letters appear in the current issue, although as I am only a single tuber and don't fish for distant stations, I realize the fact that a great many of our brother fans find all their radio pleasure in roaming all over the United States for something they can get in San Francisco or Oakland, and I am quite willing to forego an hour a day for their benefit.

I was quite surprised to read of the trouble that Mr. John Dick Howe had by interference of KPO. I have no such trouble. I can tune in on KGO or KLX sublimely indifferent to the existence of KPO, or any other old station. The only trouble that I have with interference is the "bloopers," and them—oh Lord!—

(Continued on Page 17)

A THOUSAND MILE RADIUS

and the clear, clean loud-speaker reception that characterizes the LEMCO TWO-TUBE REFLEX set. In the Knock Down Kit you will find every necessary part—the simple but complete wiring diagrams make technical experience unnecessary—to build yourself a receiving set fit for *any* man's home, within reach of *every* man's purse.



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**KNOCK DOWN
KIT NO. 55**

Dealers and distributors everywhere!

Questions and Answers

By Gerald M. Best

(Questions from our readers will be answered hereafter in these columns. No diagrams published.)

Kindly give me the formula for making a solution for an electrolytic "B" battery charger such as the Willard Co. supplies with their rectifiers.

G. H. R., Oakland, Calif.

The solution should be made by dissolving as much borax as is possible in warm distilled water. When the concentrated solution has cooled in the jars of the rectifier, some of the borax will precipitate out on the bottom of the jar, but this will do no harm to the rectifier.

Please tell me how to cure the ringing sound which I hear in the loud speaker or phones whenever anyone walks about the room or jars the set.

W. E. M., Grass Valley, Calif.

The sockets of your detector and audio amplifier tubes are apparently not cushioned sufficiently to prevent mechanical vibration of the tubes. Buy a 10-cent bathroom sponge for each socket and fasten the sockets on the sponges with machine screws, or with a piece of wire.

Would an outside antenna in the form of a square loop, around the eaves of the house operate successfully with my five tube neutrodyne?

J. L. T., Sacramento, Calif.

Yes. In connecting the antenna do not close the loop of wire, bringing only one end to the antenna binding post of the set, and connecting in a ground to the waterpipe in the usual manner.

Will greatly appreciate the name of a book published regarding the theory of radio reception, in not too technical terms.

H. H. T., San Francisco, Calif.

A handy book on radio theory and practice is the Lefax Radio Handbook, which may be obtained either at this office or direct from Lefax, Inc., Philadelphia, Pa.

What is a wave trap and will it help cut out local stations on my three tube Reflex set?

L. F. S., Glendale, Calif.

A wave trap is a tuned circuit inserted in the antenna and consists of an inductance coil and an air condenser in

parallel. A 75 turn honeycomb coil and a 23 plate condenser will do very well for a homemade trap. The air condenser is adjusted so that when listening to a distant station, the local station causes the least amount of interference.

My antenna passes near a number of trees alongside my house and is within a few feet of a tin roof. Will the presence of these objects seriously interfere with reception?

H. J. S., Imlay, Nev.

The tin roof will probably do more harm than the trees, but both will impair the efficiency of the antenna system.

Can I add another stage of radio frequency amplification to my homemade Neutrodyne?

R. S. C., Oakland, Calif.

The extra stage could be added and would probably work if all three radio frequency tubes were correctly neutralized, but the extra control together with the large amount of amplification present would complicate the tuning so that the results would be doubtful. Better be satisfied with your present set and try improving the antenna system. A good antenna is a cheap amplifier.

Can I use a Sodion tube in my superheterodyne receiver in place of the second detector with improved results?

G. F. V., Lodi, Calif.

The Sodion tube can be substituted for the ordinary vacuum tube, although the matter of better results is problematical. The Sodion works best with a separate B battery and it is advisable to provide an extra 22½ volt battery especially for the Sodion tube.

We are having trouble with our radio, which gives forth a loud howling sound whenever we plug in the loud speaker. This noise is not heard when using the phones. Can you suggest a remedy?

R. S. S., Burlingame, Calif.

The difficulty is probably due to mechanical coupling between the diaphragm of the loud speaker and the vacuum tubes, via the intervening air and can be remedied by cushioning the vacuum tube sockets. Your B battery may also be running down, or you may have a loose connection somewhere in the set.

Two Magazines For The Price Of One!

"RADIOCAST WEEKLY"
and "RADIO" both for one full
year at the low price of \$2.50

Why don't you subscribe for one full year and get both "RADIOCAST WEEKLY" and "RADIO"—delivered to your home—for the unusually low price of \$2.50? The regular subscription rate for "RADIO" is \$2.50 per year. This

great offer is more than worth-while. It saves you \$2.00 and you get two of the best radio magazines published for the price of one. "RADIO" should be read by every radio fan. It contains the best of radio data found anywhere. You can hardly afford to miss a single issue.

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Here is \$2.50, for which you will send "RADIOCAST WEEKLY" and "RADIO" for one full year to—

Radio and Education

By James A. Ramsey

One of the greatest future functions of radio is its use as an educational force. By this is meant not alone the educational programs intended chiefly for adults in their homes, but especially its use for class-room instruction.

Adult educational work is a feature of many station programs. New York University, with the co-operation of WJZ, created what is called the first "air college." The fall term began in October, 1924. The course consisted of twenty-minute lectures on eight subjects and was sent out every week day evening. Washington State College at Pullman is radiocasting its extension courses from its own station, KFAE, and many other colleges are doing likewise. KGO at Oakland, California, has been devoting Monday evenings for nearly a year to educational material, the programs consisting of twenty minute talks on agriculture, economics, English, Spanish and book reviews.

One of the first attempts to use radio in the common schools was made in England. Arthur R. Burrows, director of programs of the British Broadcasting Company, wrote an article in the "Teach-

ers World" London, for January, 1924 in which he pointed out that very few schools, public or private, can afford to hire great authorities to give lectures on their various fields of work, but if all the schools were equipped with receiving sets the lectures could be given to all simultaneously by radio. According to the Journal of the National Educational Association, Mr. Burrows' plan was put into practical operation on April 4, 1924, when lessons in music were given by the famous musician, Sir Walter Davies, to an invisible audience of ten thousand children in the London schools.

A few weeks later, April 30, to be exact, the public schools of Oakland, California began a series of experiments in class-room instruction by radio under the direction of Dr. Virgil E. Dickson, deputy superintendent of schools, who has written an excellent account of the work in the Journal of the N. E. A. The experiments were given with the co-operation of the General Electric Company's station KGO, and consisted of lessons in music, geography, history, arithmetic, penmanship and physical culture. The reports indicated that the lessons in



Miss Myrtle Palmer, penmanship instructor, and her studio class before the microphone at KGO during a recent test radiocast in the Oakland Public Schools

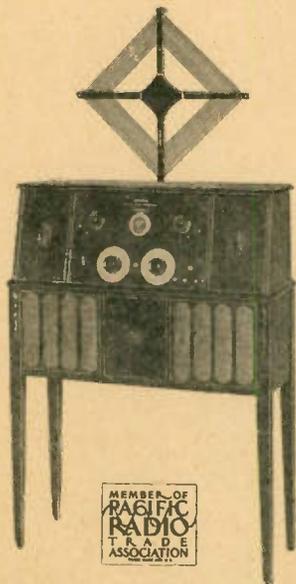
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EVER EXPERIENCED THE THRILL OF LONG DISTANCE RECEPTION?

Achieving a new low price made possible only by quantity production, we have succeeded in bringing within reach of every home the utmost in **DISTANCE, SELECTIVITY, ECONOMY, VOLUME, CLARITY AND SIMPLICITY** (only two tuning controls) which are found only in the justly famous

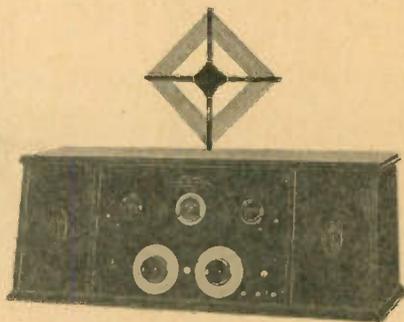
Bosserman 8 Tube Super-Heterodyne

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arithmetic and penmanship were the most popular.

Mr. Dickson emphasized particularly that the work in Oakland was actual class-room instruction, in which the pupils continue at work during the progress of the radio lessons and submit the product as tangible evidence of what has been accomplished. In this respect, it is different from all other known attempts at education by radio which consist chiefly of lecture work.

He also stated emphatically that he did not believe the use of radio in the schools would in the least degree affect the number of teachers needed.

I will enumerate some of the results established by Dr. Dickson:

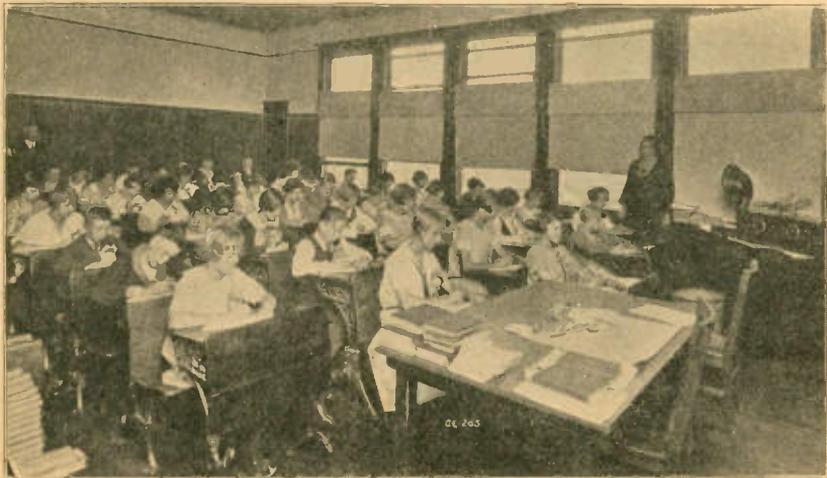
1. There is intense concentration on the part of the pupils who listen in.
2. The need for discipline seems almost negligible during the time of the radio lesson.
3. It offers better training of children in quick, thoughtful obedience to a single direction.
4. It can supplement class room instruction through occasional lessons by the best supervisors and experts.
5. The most perfect planning may be expected for the lesson to be radiocast.
6. The training of radio instructors for planning and delivery will become a new art.
7. Schools in remote or inaccessible districts in the country may come in

touch with the best supervision and methods of instruction.

8. Parents and other adult members of the community are intensely interested in the lessons taught in the schools and listen in from places outside the class-room.

Another example of the use of radio in public schools and one with which you are no doubt familiar is the work proceeding under the direction of Mrs. Grace Stanley, State Commissioner of Elementary Education in California. It was begun on November 3 and consists of a series of lectures on geography and history, given by various people of note every Monday morning at 9 o'clock from KGO, Oakland; KFI, Los Angeles; and from KMJ, Fresno. Every school in the state which is equipped with an efficient receiving set is able to tune in on these programs.

Proof of the interest of parents and the general public in the work of the schools is to be found in the experience of some of the Eastern cities. In May, 1924, Rochester received 100,000 replies from those who listened in to their program of Education Week, while Buffalo received 50,000 replies in answer to a definitely organized program designed to give parents and others an understanding of the work and needs of the schools and secure their co-operation and support—a task, which, in the past, has been



Pupils in the Melrose Heights School, Oakland, California, receiving a penmanship lesson by radio as it is being radiocast from KGO during recent tests made to determine the value of radio in school work

ATWATER KENT

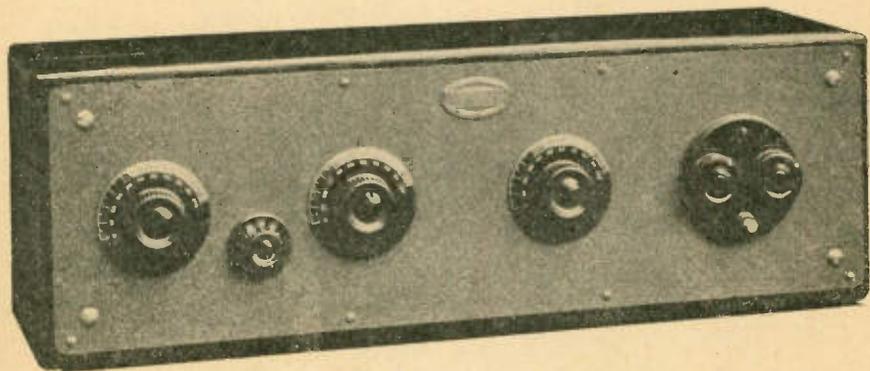
We are near the parting of the ways.

Sets which lack sales, are of questionable quality or which are behind the times, have been dumped on the market. The dealer and his customer are asking questions; among them, what is wrong with these sets or their future?

There is no surplus stock of Atwater Kent. No obsolete stock. No dumping. Sets sold two years ago are still prized and kept by their owners and are worth their original cost. Sales continue excellent—quality tells in the end. For the dealer there is the permanence insured by a good set, fairly priced and sold, and worth always its cost or more.

This is the right line for any dealer who values security, permanence and a future. If you are in radio to stay the Atwater Kent plans open a road to business of the right sort.

Look your stock over—how does your Atwater Kent merchandise look to you? Just worth one hundred cents on the dollar. Good enough!



Dealers will find this firm interested in giving them the wholesale radio service they want. May we make your acquaintance and serve you? We sell Cunningham tubes.

ERNEST INGOLD, INC.
950 Van Ness Avenue
SAN FRANCISCO

left to the Parent-Teachers' Associations, Visitors' Days, newspaper items, etc.

Many letters have also been received by KGO from parents saying that for the first time they have been able to get an understanding of the work being done by their children so that they could keep up with their progress and be of assistance to them. Many mothers listen regularly to the lessons and study them in order to help their children in their work. For the first time in history an effective means of educating parents and others along with the children and of enlisting their assistance and sympathetic understanding is now awaiting application.

It seems to me that one of the outstanding benefits of radio instruction in the public schools is that it will be received by outsiders—the parents, who cannot come to school in person due to home responsibilities or to reticence—and others who perhaps have passed beyond the school age without completing their education and are backward about attending night schools or extension courses or do not do so for other reasons.

The ability of radio to reach isolated individuals and groups must appeal to everyone. People in the lonely homes of the prairies, mountains and deserts, in the logging camps and at the mines, on ships on the high seas, at army posts, with exploration parties in the frozen north, disabled people at home or in hospitals or sanitariums, are all in a receptive mood for education by way of radio. They need something substantial to occupy their minds. It occurs to me that it ought to be considered a responsibility by the educators of the country to make an organized effort to radiocast programs for the benefit of these people.

Many school executives have been considering the advisability of providing receiving sets for their schools and some have hesitated to make the purchase thinking that there will be radical changes in equipment. There is no doubt that there will be improvements from time to time just as there are changes in models of automobiles from year to year. I do not believe, however, that anyone should hesitate on that account because satisfactory reception has already been accomplished as is evidenced by the splendid performance of many fine sets on the market today.

THE VOICE OF THE LISTENER-IN

(Continued from Page 9)

but for all that I care, KPO can have the air twenty-four hours a day and seven days a week.

With a one tube receiver of course I don't use a loud speaker, but I have two head sets, so that two or more persons can listen in at the same time, and nobody else in the room is disturbed, and thereby "hangs a tale, two of them, in fact."

Although I am not a girl, and it has been two generations since I was a boy, I was trespassing a few weeks ago on the KGO girls half hour, when Mrs. Esther Wood Schneider proposed a little game in which she would show us how to do four things at once, and told us to follow carefully her directions. In a few minutes I, in company with fifty thousand young ladies, scattered "from Siskiyou to San Diego, from the Sierra to the sea," was fanning myself, cutting paper dolls, running a sewing machine and other stunts.

When she had us all well going, Mrs. Schneider casually remarked that she hoped that no one was looking at us. Just about that time the boss of the ranch, who had her back turned, looked around, and seeing my fool motions, made a break for the telephone to call up the dippy house, for she thought sure that the bats were in full possession of my belfry. It happened that a lady visitor was listening in on the second head set, and at her explanation the wife cancelled the call.

On another occasion when the same lady was visiting and she and the lady of the house were chatting away sixteen to the dozen, I was trying to tune in on something that I particularly wanted to hear, when some fool with a radiating receiver undertook to tune in on the same station, and of all the whoops, yells and screechings I ever heard, that was sure the cap sheaf. The nearer I got to my station, the worse it became, and finally at a particularly outrageous screech, my Yankee temper got the best of me and I yelled "D—n it, shut up." Of course, the ladies not having heard the racket, thought that I was inviting them to "put a stopper on their jaw tackle," and what I was getting over the radio wasn't a patching to what I got from the other side of the parlor.

(Continued on Page 48)

SCHEDULES FOR SUNDAY

APRIL 19, 1925

Pacific Time. Corrected Weekly. For Wave Lengths, Location, Power, Owner, See Page 62

a. m.	Central Cal.	Southern Cal.	Pacific N. W.	Inland
10 to 10:30	KLS KRE	KFI KHJ KFPH KNX	CFAC	KOA
10:30 to 11	KLS KPO KRE	KFI KHJ KFSG KNX	CFAC KGW	KOA
11 to 11:30	KGO KPO	KHJ KJS KFSG KNX KFON KFI	KTW KFIQ KGW KJR WOC	
11:30 to 12	KPO KGO	KHJ KJS KFSG KFON KFRP KNX KFI KTW KFIQ KJR	WOC	
p. m.				
12 to 12:30		KHJ KJS KFRP KFSG KFI	KTW	
12:30 to 1				WHB
1 to 1:30			KFHR	WHB
1:30 to 2	KFUU		KFHR	KDKA
2 to 2:30	KWG KFUU KPO		KFHR	WBAP WDAF KDKA
2:30 to 3	K.G KFUU KPO	KFSG	KFHR	WBAP WDAF KDKA
3 to 3:30		KFSG	KTW	WSB KOA
3:30 to 4	KGO KFUS	KFSG	KTW	WSB KOA
4 to 4:30	KGO KFUS	KFSG KFI	KTW	WFAA
4:30 to 5	KGO	KFI	KFHR	WFAA
5 to 5:30	KJBS	KNX	KFHR	KDKA KYW WLS
5:30 to 6	KJBS	KNX	KFHR	WOC WSB KDKA KYW WOS WFAA WCCO WLS WLW WOAI
6 to 6:30	KJBS KPO	KJS	KFHR KGW	WHB WSB WOC WFAA WIP WCCO WOC WLW WOAI
6:30 to 7	KFRC KPO KRE	KHJ KPPC KFON	KFHR KGW CJCA CFAC	WHB WOC WFAA WCCO KTHS KOA WCCO WLW WIP WGBS
7 to 7:30	KFRC KPO KRE	KHJ KFI KFSG KNX KPPC KFWB	CJCA CFAC KGW KJR	WHB WOAW KLZ KTHS WIP WGN WLW KOA WCCO WFAA WGBS WGY
7:30 to 8		KFI KFSG KFRP KNX KHJ KPPC KFWB	KTW KFIQ KGW KJR	WOC WFAA WOAW KLZ WGN WLW KTHS WGBS WCCO WOAI WHB WGY
8 to 8:30	KGO KFRC KPO KRE	KFI KHJ KJS KFSG KFON KNX KPPC KFWB	KTW KFIQ	WFAA WOC WCCO WOAI KTHS WGBS KSL
8:30 to 9	KFRC KPO KRE KGO	KFI KHJ KJS KFSG KFON KNX KPPC KFWB	KTW KGY KFIQ	WFAA WOC KTHS KSL
9 to 9:30	KPO KFRC KRE KFQU	KFI KHJ KFSG KFBE KNX KFON KFWB	KGY KTW	WBAP WOC KTHS WHB KFUR
9:30 to 10	KPO KFRC KFQU KRE	KFI KHJ KFSG KFBE KNX KFON KFWB	KTW	WBAP WHB KFUR
10 to 10:30	KFRC	KFI KFSG KNX KFON KFWB KHJ		WHB KFUR
10:30 to 11	KFRC	KFI KFSG KNX KFON KFWB KHJ		WHB KFUR
11 to 12	KFRC	KFWB		

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PROGRAMS FOR SUNDAY

APRIL 19, 1925

PROGRAM FOR KGO—361 Meters
General Electric Co., Oakland

- 11 a. m.—Service of St. Luke's Episcopal Church, S. F., Rev. W. W. Jennings, rector
 3:30 p. m.—Concert by KGO Little Symphony Orchestra, Carl Rhodehamel, conducting
 Waltz—Slumbers Rodolphe
 Selection—Tannhauser Wagner
 Orchestra

Soprano solos—
 The Publican Van de Water
 Fear Not Ye, O Israel Buck
 Ethel E. Keyser

Humoresque Dvorak
 Polonaise Militaire Chopin
 Serenade—Bandine Gabriel-Marie
 Orchestra

Piano solos—
 Gopak Moussorgsky
 Waltz, Op. 64, No. 1 Chopin
 Beatrice L. Sherwood

Soprano solo—
 The Lord is My Light Allitsen
 Ethel E. Keyser
 Overture—Jeanne D'Arc Verdi
 Comment by Arthur S. Garbett
 Orgies of the Spirits Ilynsky
 March—Mountain Nymphs Louis
 Orchestra

- 8 p. m.—Service of St. Luke's Episcopal Church, S. F., Rev. W. W. Jennings, rector

PROGRAM FOR KFUS—234 Meters
Sherman School, Oakland

- 9 to 9:30 a. m.—
 Faith of Our Fathers, quartet from Oakland Temple Chorus
 International lesson, Gilbert Hoff
 Whosoever Will, mixed quartet
 A short sketch of the Perean Ministry, Gilbert Hoff
 Solo, Always, Gilbert Hoff
 3:30 to 4:30 p. m.—Sacred song service program by the Oakland Temple Chorus, from the Oakland Temple Baptist Church, given under the auspices of the magazine, Today, Mabel F. Sherman, editor, Gilbert Hoff, director, Florence Wahlgren, pianist
 Chorus, Sweeter Than All
 Oakland Temple Chorus
 Scripture lesson, Matt. 11: 20-30, followed by prayer
 Chorus, 'Tis Burning in My Soul; O, the Love That Sought Me
 Oakland Temple Chorus
 Duet, Sweet Will of God
 Dorothy Dodge, Gilbert Hoff
 Chorus, Hallelujah for the Blood
 Oakland Temple Chorus
 "Today" in the Bible, from the magazine "Today" by the editor
 Chorus, Live in the Sunlight; Heavenly Sunlight! Saved Every Day
 Oakland Temple Chorus
 Duet, For You I Am Praying
 Perdita Taylor and Urcel Holaday
 Chorus, Jesus Is Mighty to Save; My Mother's Prayers Have Followed Me
 Oakland Temple Chorus

PROGRAM FOR KLS—242 Meters
Warner Bros., Oakland

- 10 to 11 a. m.—Radio Church of America, Rev. Dr. George Chambers; music in charge of C. Dickens

PROGRAM FOR KPO—428 Meters
Hale Bros. and The Chronicle, San Francisco

- 8 a. m.—Big Brother will give the San Francisco Chronicle Funnies
 10:30 a. m.—"Ye Towne Cryer" and Amusement Information Service
 11 to 12 p. m.—Undenominational and non-sectarian church services
 Talk —

The Transfiguration of the Commonplace
 Dr. C. E. Tingley

Supt. of S. F. Baptist Bay Cities Union
 Soprano solos—

Come Ye Blessed John Prindell Scott
 The King of Love My Shepherd Is Gounod
 What A Friend We Have in Jesus
 Alice Dreyer

Theodore J. Irwin, accompanist

Organ selections—
 Chimes; Organ Prelude; Organ Postlude; Chimes

Theodore J. Irwin

- 2 to 3 p. m.—120th organ recital by Theodore J. Irwin at the Wurlitzer. For the first part of the recital Mr. Irwin will give further selections from the oratorio "The Holy City" by Alfred R. Gaul. The second part of the program will consist of selections from the cantata "The Crucifixion" by John Stainer

Contralto solos with organ acc.—

Consider the Lilies Topliff
 Come Sing to Me Thomas

Joan Ray

- 6 to 6:30 p. m.—States Restaurant Orchestra under the direction of Waldemar Lind, Overture "If I Were King" Adam
 Grand operatic fantasia "Carmen" Bizet
 Serenade Espagnole Albeniz
 Slavonic Rhapsodie Friedeman
 6:30 to 7:30 p. m.—Palace Hotel concert under the direction of Cyrus Trobbe
 7 p. m.—"Ye Towne Cryer" and Amusement Information Service
 8 to 8:30 p. m.—Palace Hotel Concert under the direction of Cyrus Trobbe
 8:30 to 10 p. m.—Concert by Rudy Selger's Fairmont Hotel Orchestra

PROGRAM FOR KFRC—268 Meters
City of Paris, San Francisco
The Call Radio Headquarters

- 6:30 to 7:30 p. m.—Concert by Stanislas Bem's Little Symphony, Eugenia Bem conducting, playing at Whitcomb Hotel
 8 to 10 p. m.—Concert by the Little Symphony Orchestra:
 Overture, Fingals Cave Mendelssohn
 Waltz, Wintersturme Fucik
 Selections from Czardasfurstin Kalman
 Mendelssohnian
 Dance of the Hours Ponchinelli
 Selections from Mignon Thomas
 10 to 12 p. m.—Dance music by Paul Kelli's Orchestra playing at Il Trovatore. Roof Garden Cafe, San Francisco

PROGRAM FOR KGW—491 Meters
Morning Oregonian, Portland

- 10:30 a. m.—Church services, Dr. Harold Leonard Bowman, pastor
 6 p. m.—Church services
 7 p. m.—Dinner concert by Colburn Concert Orchestra of Hotel Portland; intermission solos

**PROGRAM FOR KFUU—224 Meters
Colburn Radio Lab., San Leandro, Cal.**

- 1:30 to 3 p. m.—Musical program by Cherry City News under direction of Mrs. W. T. Whitmore
Saxophone duets—
When You and I Were Seventeen.....Kahn and Rososs
Rosary.....Nevin
Harold Larmer and Dick Schuller; Marshall Paysen, acc.
Piano solos—
Voices of Spring.....Sinding
Kamennoi Ostrow.....Rubinstein
Lyric soprano solo—
At Dawning.....Cadman
Doris Whitmore; Marshall Paysen, acc.
Bell solo—
Loin du Bal.....Gillett
Mrs. W. T. Whitmore; Marsh. Paysen, acc.
Baritone solos—
Hear My Cry Oh Lord.....Alfred Wooler
Moira.....Fred G. Bowles
John T. Lutze, Mrs. T. M. Grant, acc.
Violin solos—
Prize Song.....Wagner Wilhelmj
Kujawiak.....Wieniawski
Bertrand Lurie, Mme. Dr. Grassi, acc.
Soprano and contralto duet—
Andantino.....Lemare
Doris Whitmore and Lovie De Pasquale; Marshall Paysen, acc.
Mezzo-soprano solos
Nur wer die Sehnsucht Kenset.....Tschaikowski
A May Morning.....Chas. Manney
Mister Bear.....Nora Blaney
Mrs. Antonio De Grassi
Mrs. Ethel Long Martin, acc.
Mandolin solo—
Adieu Ma Belle.....Donigan
Mrs. W. T. Whitmore; Marsh. Paysen, acc.
Lyric soprano solos—
Gay Butterfly.....Annie Hawley
Il Bacio.....L. Arditi
Doris Whitmore, Marshall Paysen, acc.
Piano solos—
Characteristic Morceau.....Wollenhaupt
Hungarian Etude.....McDowell
Elaine Hodges
Baritone solo—
My Jean.....Caro Roma
John Lutze, Mrs. T. M. Grant, acc.
Saxophone solos—
Just a Song at Twilight
Perfect Day.....Bond
Harold Larmer, Marshall Paysen, acc.

**PROGRAM FOR KHJ—405 Meters
Los Angeles Times, Los Angeles**

- 10 a. m.—Sermon from KHJ studio by Rev. Martin Luther Thomas, pastor of the First Presbyterian Church of San Pedro. Mrs. Molly Chruistas, contralto soloist
10:30 to 12:30 p. m.—Organ recital and entire religious service from the First Methodist Episcopal Church. Arthur Blakeley, organist, and Rev. Elmer E. Helms, pastor
6:30 to 7 p. m.—Art Hickman's Concert Orchestra from the Biltmore Hotel
7 to 7:30 p. m.—Organ recital from the First Methodist Episcopal Church, Arthur Blakeley, organist
7:30 to 8:15 p. m.—Program through the courtesy of the International Bible Students' Association. Presenting Orpheus Four and Claire Forbes Crane, concert pianist
8:15 to 11 p. m.—Program

**PROGRAM FOR KFI—467 Meters
Earle C. Anthony, Inc., Los Angeles**

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10 to 10:45 a. m.—Morning services under direction of the L. A. Church Federation. Speaker, Dr. Campbell Coyle, pastor of the Highland Park Presbyterian Church. Music furnished by the choir of the same church
11 to 12:20 p. m.—Services of the Temple Baptist Church. Sermon by Dr. J. Whitcombe Brouger
4 to 5 p. m.—Vesper services arranged by the Federated Church Musicians—a concert of both sacred and secular music
6:45 to 7 p. m.—Radiatorial and music appreciation talk, subject: "Music of Russia" Harold Isbell
7 to 8 p. m.—Program presented by Albert Kaufman from the stage and studio of the Metropolitan Theatre. Featuring the star acts on the current bill, also the fortyfive piece orchestra playing in the pit of the Metropolitan Theatre
8 to 9 p. m.—Classic hour featuring Virginia Flohri, soprano, (the perfect radio voice) and Margerite LeGrande, concert pianist
9 to 10 p. m.—L. A. Examiner. Cinderella Ballroom Orchestra of Long Beach
10 to 11 p. m.—Bill Hennessy's Packard Eight Orchestra presenting the newest in dance music and combinations of instrumental

**PROGRAM FOR KOA—323 Meters
General Electric Co., Denver, Colo.**

- 10 a. m.—Service of Trinity Methodist Episcopal Church, Rev. Loren M. Edwards, D.D., minister
3 p. m.—Sunday afternoon music hour: organ and Trinity orchestra recital from Trinity Methodist Episcopal Church, Shad J. Tinsley, organist and director
6:30 p. m.—Service of Trinity Methodist Episcopal Church, Thomas E. Greene, chaplain general, National Society of the Sons of the Revolution, speaker

**PROGRAM FOR KTHS—375 Meters
The New Arlington Hotel, Hot Springs, Ark.**

- 9 to 10:30 a. m.—Services of the Central Avenue Methodist Church, Rev. J. J. Stowe, pastor
6:30 to 8 p. m.—De Luxe orchestra program by the Meyer Davis-New Arlington Hotel Orchestra, Jacques Renard, director
8 to 9:30 p. m.—Frolie with Phil Baxter's Singing Orchestra

**PROGRAM FOR WOAI—394 Meters
Southern Equipment Co., San Antonio, Texas**

- 9 a. m.—Services of the First Presbyterian Church, sermon by Dr. P. B. Hill, pastor
5:30 p. m.—Services of Central Christian Church, sermon by Dr. Hugh McLellan, pastor
7:30 p. m.—Concert by the 15th Field Artillery Band, of Fort Sam Houston, Texas

**PROGRAM FOR KNX—337 Meters
Los Angeles Evening Express, Los Angeles**

- 10 to 12 p. m.—First Presbyterian Church of Hollywood
5 to 6:15 p. m.—Sunset service, conducted by Rev. Charles F. Asked, D.D., L.L.D., and Rev. Frank Dyer, D.D., of Wilshire Congregational Church
7 to 8 p. m.—First Presbyterian Church of Hollywood
8 to 9 p. m.—Ambassador Concert Orchestra
9 to 11 p. m.—Program by R. C. Durant

SCHEDULES FOR MONDAY

APRIL 20, 1925

Pacific Time. Corrected Weekly. For Wave Lengths, Location, Power, Owner, See Page 62

a. m.	Central Cal.	Southern Cal.	Pacific N. W.	Inland
9 to 10	KJBS KGO			
10 to 11	KJBS KFUV			
11 to 11:30				
11:30 to 12 KGO			CJCA	
p. m.				
12 to 12:30	KGO KFNV	KNX		WHB
12:30 to 1	KGO KFNV	KHJ KNX	KJR KGW	WHB
1 to 1:30	KPO	KHJ	KJR KFOA	
1:30 to 2	KPO KGO	KDPT	KJR	WDAF
2 to 2:30		KDPT		KDYL WDAF WLS
2:30 to 3	KPO		CFAC	KDYL WLS
3 to 3:30	KGO KPO		CFAC	WSB WDAF WWJ WTAM
3:30 to 4				WSB KFKX WDAF WWJ WTAM
4 to 4:30	KGO KWG	KNX	KFEC KFOA	WDAF WOAW KYW WLS WWJ
4:30 to 5	KGO KWG KPO		KFEC KFHR KFOA	WDAF WOC WOAW KYW WWJ WFAA
5 to 5:30	KGO KPO	KFI	KFHR KGW	KDKA WOR WHB WOAW WTAM KFRU WWJ WFAA
5:30 to 6	KGO KPO	KFI		KDKA WOR WEAP KDYL WHB WTAM WGY KFRU WWJ WFAA
6 to 6:30	KPO KFNV KLX	KDPT KFON	KMO KGW KFEC KJR	KDKA WBAP WDAF KDYL KSD WLW WOR WTAM WCCO WGY WOS WEAF WHAZ KFRU WWJ WSB
6:30 to 7	KZM KPO KLX KFRC	KNX KFSG KFON	KMO KFHR CJCA KFOA KGW	KDKA KDYL WFAA KSD WLW KFRU WSB WDAF WOR WTAM WCCO KOB KTHS WGY WOS WEAF WHAZ WWJ
7 to 7:30	KGO KPO KLX KFRC	KNX KFI KFSG	KFHR KFOA KGB KGW	WDAF WOAW WLW KSD KOA WFAA WOR WTAM WCCO KOB KTHS WOS KFAU WEAF WHAZ KFRU WWJ KSL KDYL
7:30 to 8		KFON KFI KNX	CHBC KFOA KFAE CJCA KGB	WOR KFKX WOAW WBAP KOA KFRU WLW KLZ KTHS WOS KFAU WEAF WHAZ KSD WTAM KSL KDYL
8 to 8:30	KGO KPO KLX KRE KJBS	KFI KFON KNX KDZB KFVB KHJ	KGB KFAE CHBC KFOA	WFPT KSD WOAW KFKX WCCO WHAZ KFAU KOA KTHS KFRU WTAM KDYL
8:30 to 9	KGO KPO KLX KRE KJBS	KFI KFON KDZB KNX KFVB KHJ	KFAE CHBC KGB KFOA CRCD KJR	KFPT KSD WOAW KFKX WCCO WHAZ KTHS KOA KFRU WTAM KDYL
9 to 9:30	KGO KPO KLX KRE KJBS	KFON KNX KFI KFVB KHJ	KFOA KMO KJR CRCD CFAC	WSB KSD KFKX KDYL WCCO
9:30 to 10	KGO KPO KLX KRE KJBS	KFON KNX KFI KFVB KHJ	KFOA KMO CFAC KJR	WSB KSD
10 to 10:30	KGO KLX KPO	KFI KNX KFON KFVB CFAC		WDAF
10:30 to 11	KGO KPO KLX	KFI KNX KFON KFVB CFAC		WDAF
11 to 12	KGO	KNX KFWR		
12 to 1	KGO			

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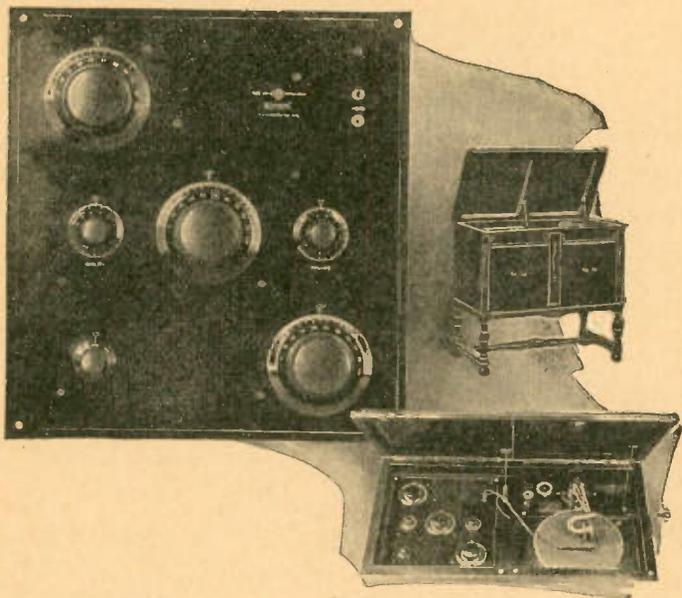
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PROGRAMS FOR MONDAY

APRIL 20, 1925

PROGRAM FOR KGO—361 Meters

General Electric Co., Oakland

- 9 a. m.—Music and lectures by California State Department of Education
 10:40 a. m.—Classroom instruction by Oakland public schools.
 11:30 a. m. to 1 p. m.—Luncheon concert, courtesy Pacific States Electric Co.
 1:30 p. m.—Stock and weather reports
 3 p. m.—Studio musical program
 4 to 5:30 p. m.—Henry Halstead and dance orchestra playing in the Garden Room of the Hotel St. Francis, S. F.
 5:30 to 6 p. m.—Aunt Betty stories and the KGO Kiddies' Club.
 6:45 to 7:30 p. m.—Stock reports, news items
 8 p. m.—Educational program
 Poet and Peasant Overture.....Von Suppe
 Arion Trio
 Agricultural Course, "Lady Bird Beetles," Prof. E. O. Essig, Division of Entomology, College of Agriculture, U. of C.
 Sweet Little Woman o' Mine.....Bartlett
 Arion Trio
 A Lesson in English, Wilda Wilson Church
 Cello solo—
 Melody Bull
 Margaret Avery
 Address by Albertine Richards Nash, Consulting Psychologist
 Violin solo—
 Arabesken Bohm
 Josephine Holub
 Chats About New Books, Jos. H. Jackson
 Home to Our Mountains.....Verdi
 Arion Trio
 10 p. m. to 1 a. m.—Dance music program by Henry Halstead's Orchestra and soloists Hotel St. Francis, S. F.

PROGRAM FOR KPO—428 Meters

Hale Bros. and The Chronicle, San Francisco

- 10:30 a. m.—"Ye Towne Cryer" and Amusement Information Service
 12 noon—Time signals, scripture reading
 1 to 2 p. m.—Rudy Seiger's Fairmont Hotel Orchestra
 2:30 to 3:30 p. m.—Program from Loew's Warfield Theatre
 4:30 to 5:30 p. m.—Rudy Seiger's Fairmont Hotel Orchestra, by wire telephony
 5:30 to 6:25 p. m.—Children's hour stories by Big Brother of KPO, taken from the Book of Knowledge
 Piano solos—
 Russian Romance Friml
 First Movement from G Minor Concerto Mendelssohn
 Mary Morser, pupil of Mischa Lhevinne
 6:25 p. m.—"Ye Towne Cryer" and Amusement Information Service
 6:30 to 7 p. m.—States Restaurant Orchestra, under the direction of Waldemar Lind, by wire telephony
 7 to 7:30 p. m.—Rudy Seiger's Fairmont Hotel Orchestra, by wire telephony
 8 to 8:30 p. m.—Program by Conn Band Instrument Co. Orchestra;
 Prince of Walls, Moonlight Kisses, Rose Marie, Too Tired
 Cornet solo, David Rosebrook
 Forest Whispers (by request) Tosey
 March National Emblem Bagley
 Harry Waters Saxophone Ensemble

- 8:30 to 9 p. m.—121st organ recital by Theodore J. Irwin at the Wurlitzer
 March Hollander
 Waltz, Mon Reve Waldteufel
 Operatic selection, Tannhauser Wagner
 Le petite berger (The Little Shepherd)
 Debussy
 Elsa's Dream, Lohengrin Wagner
 9 to 10 p. m.—Talk on "The Battles of Lexington and Concord" by Will C. Wood, Superintendent of Public Instruction of the State of California, speaking under the auspices of the Sons of the American Revolution, on the 150th anniversary of those battles
 Program under the management of Joseph George Jacobson:
 Piano solos—
 The Sea Palmgren
 Rhapsody No. 8 Liszt
 Myrtle Edna Waitman
 Bass solos—
 A Song of Steel Gilbert Spross
 When Big Profundo Sang Low C...Botsford
 Frederick E. Levin
 Irene Millier, accompanist
 Piano solo—
 Concerto G Minor (first movement) Mendelssohn
 Marian Patricia Cavanaugh
 Jos. Geo. Jacobson, second piano
 Suite for violin—
 Sunset-Sunrise Reverie Jos. Geo. Jacobson
 Frances Wiener, pupil of Sigmund Anker
 Piano solos—
 At Twilight Jos. Geo. Jacobson
 Polonaise A flat Chopin
 Gladys Ivanelle Wilson
 Soprano solos—
 Il Baccio Arditì
 Obstination Fontenailles
 Muriel Arron, pupil of E. Harold Dana
 E. Harold Dana, accompanist
 Rhapsody d'Auvergne (2nd and 3rd movements) Saint-Saens
 Sam Rodetsky
 Jos. Geo. Jacobson, second piano
 Piano solo—
 Dance Arab.....Beatrice N. Nishkian
 Played by the composer
 Baritone solos—
 Passing Out of the Shadow...J. G. Jacobson
 Si vous l'aviez compris Denza
 Maximilliano J. Lorenzini
 Violin obligato by Albert White
 Polonaise for two pianos..... Arensky
 Gladys Wilson and Myrtle Waitman
 10 to 11 p. m.—Johnny Buick's Cabirians, playing at Cabiria Cafe

PROGRAM FOR KLX—508 Meters

Oakland Tribune, Oakland

- 6 to 7 p. m.—Organ concert radiocast from the American Theatre, incidental music
 7 to 7:30 p. m.—News items, U. S. Weather Bureau forecast, market and financial news
 8 to 9:15 p. m.—Studio program of instrumental and vocal selections, under the direction of J. Wesley Gebhardt of Vallejo
 9:15 to 9:45 p. m.—The American Theatre Orchestra, John Wharry Lewis, directing
 9:45 to 11 p. m.—Regular weekly meeting of the Protective Order of Lake Merritt Ducks

PROGRAM FOR KFRC—268 Meters
 City of Paris, San Francisco
 The Call Radio Headquarters

6:30 p. m.—S. F. Police Dept. radiocast
 6:30 to 7:30 p. m.—Studio program under
 auspices St. Joseph's New Building Appeal

PROGRAM FOR KFI—467 Meters
 Earle C. Anthony, Inc., Los Angeles
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5 to 5:30 p. m.—Los Angeles Herald news
 bulletins
 5:30 to 6 p. m.—L. A. Examiner. Talks by
 Col. R. S. Hartz, aviator, and Eugene Bis-
 cauluz, undersheriff
 6:45 to 7 p. m.—Radiatorial period
 7 to 8 p. m.—Program presented by the Los
 Angeles Evening Herald
 8 to 8:30 p. m.—Mildred Masser, female bar-
 itone
 8:30 to 9 p. m.—A half hour of dance music
 by Victorian Orchestra
 9 to 10 p. m.—Program presented by the
 Walter M. Murphy Motors Co., featuring
 the Mozart Instrumental Trio, Apollo
 Male Quartet and assisting artists
 10 to 11 p. m.—L. A. Examiner program
 presented by the Hal Roach Studios

PROGRAM FOR KOA—323 Meters
 General Electric Co., Denver, Colo.

7 p. m.—Ten minutes of music by Fred
 Schmitt and his Rialto Theater Orchestra
 7:10 p. m.—Studio program, courtesy the
 Steinway Club of Denver. This is a con-
 cert of more than twenty classical num-
 bers including a piano quartet, a tyo-
 piano selection, piano solo, violin solo and
 a variety of soprano and contralto solos.
 Ferne Whiteman Smith, sister of Paul
 Whiteman of jazz fame, will be heard in a
 grouping of contralto solos

PROGRAM FOR KGW—491 Meters
 Morning Oregonian, Portland

11:30 a. m.—Weather forecast
 12:30 p. m.—Rose City Trio
 5 p. m.—Children's programme
 6 p. m.—Dinner concert; organ recital by
 Frederick W. Goodrich
 7:15 p. m.—Markets, weather, news bul-
 letins and police reports

PROGRAM FOR KHJ—405 Meters
 Los Angeles Times, Los Angeles

12:30 to 1:30 p. m.—Program presenting
 Carlyle Stevenson and his Bon Ton Ball-
 room Orchestra from Olean Park, Cal.
 Bobbie Toft, "blues" singer, and Jack Con-
 nors, tenor
 8 to 10 p. m.—Program

PROGRAM FOR KFOA—454 Meters
 Rhodes Department Store, Seattle

12:45 to 1:30 p. m.—The Lions Club lunch-
 eon program from the Olympic Hotel
 4 to 5:15 p. m.—The Times' "Afternoon at
 Home" program
 6 to 6:45 p. m.—The Pacific States Electric
 Co. dinner hour concert by the Hoffmann
 Orchestra from the Olympic Hotel
 6:45 to 8:15 p. m.—Sherman, Clay & Co.
 program
 8:15 p. m.—Weather report
 8:30 to 10 p. m.—The Times program

PROGRAM FOR KNX—337 Meters
 Los Angeles Evening Express, Los Angeles

4 p. m.—Joe Lyons, tenor
 6:30 to 10 p. m.—Program
 10 to 11 p. m.—Silvertown Orchestra and
 Lillian May Challenger, soloist
 11 to 12 p. m.—Hotel Ambassador—Abe Ly-
 man's Coconut Grove Orchestra

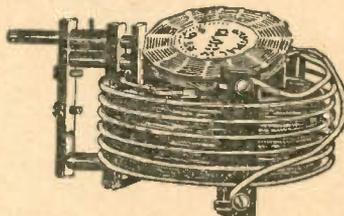
PROGRAM FOR KTHS—375 Meters
 The New Arlington Hotel, Hot Springs, Ark.

6:30 to 7:15 p. m.—Concert sponsored by
 Mrs. Alice C. Henniger, Little Rock, Ark.
 7:15 to 8 p. m.—Classical and popular selec-
 tions by the Meyer Davis-New Arlington
 Hotel Orchestra, Jacques Renard, director
 8 to 9 p. m.—Dance tunes by the Charles
 L. Fischer Eastman Hotel Orchestra

PROGRAM FOR KJR—384 Meters
 The Northwest Radio Service Co., Seattle

12:30 to 1 p. m.—Market reports
 1 to 1:30 p. m.—Musical
 1:30 to 2 p. m.—"Doris" talk on styles
 6 to 6:30 p. m.—What's on at the Theatres
 8:30 to 9 p. m.—Gordon Kilbourn and his
 Orchestra
 9 to 10 p. m.—Post-Intelligencer studio pro-
 gram

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SCHEDULES FOR TUESDAY

APRIL 21, 1925

Pacific Time. Corrected Weekly. For Wave Lengths, Location, Power, Owner, See Page 62

a. m.	Central Cal.	Southern Cal.	Pacific N. W.	Inland
9 to 10	KJBS			
10 to 11	KJBS KPO KFUV			
11 to 11:30		KFSG		
11:30 to 12	KGO		CJCA	
p. m.				
12 to 12:30	KGO KFNV			WHB
12:30 to 1	KGO KFNV	KHJ	KFOA KGW KJR	WHB
1 to 1:30	KPO	KHJ KNX	KFOA KJR	
1:30 to 2	KPO KGO		KJR	WDAF
2 to 2:30				KDYL WDAF
2:30 to 3	KPO	KHJ KFON KFSG		KDYL
3 to 3:30	KPO KLX	KHJ KFON KFSG	CFAC	WSB WDAF WWJ WTAM
3:30 to 4	KPO KLX	KFSG KFON		WSB WDAF WWJ WTAM
4 to 4:30	KGO KWG KPO KLX	KFSG KNX	KFEC KFOA	WDAF WOR WOAW WWJ
4:30 to 5	KGO KPO KLX		KFEC KFHR KFOA	WDAF WOAW WWJ
5 to 5:30	KGO KPO	KFI	KFHR KGW	KDKA WOAW KOA WGY WLS WGBS WWJ
5:30 to 6	KPO	KFI		WBAP KDYL KDKA WGY WLS WGBS WWJ WHB
6 to 6:30	KPO KLX KFNV	KHJ KFON	KJR	WSB WBAP WHB KDYL KDKA WLS KYW KSD WMAQ WGN WGY WFAF WLW WGBS WWJ WCCO WOC KFCK
6:30 to 7	KLX KZM KPO KFUS	KNX KHJ KFSG KFON	KFHR KFEC KFOA CJCA CKCK	KDKA KYW WFAA KTHS WOAI KFCK WGY KSD KDYL WHB WMAQ WGN WLS WFAF WWJ WGBS WOC WCCO WSB WLW
7 to 7:30	KGO KPO KLX	KNX KHJ KFI KFSG	KFHR CFAC CKCK KFOA CFCT EGW CNRR	WFAA KYW KSD WOAW WQJ WOAI WHB WMAQ KTHS WLS WIP WFAF WGBS WOC WCCO WLW WWJ KFCK WGY KSL
7:30 to 8		KFI KFON KNX	KHQ CFCT KFOA CFAC CKCK CHBC CNRR	WBAP KSD WOAW WMAQ WOAI WLS WQJ KYW KTHS WIP WFAF WGBS WHB WCCO WLW KFCK WGY KSL
8 to 8:30	KGO KPO KWG KFRC KRE KFUS	KFI KHJ KFON KDPT KJS KFBE KDZB KNX KFVB	KGW CHBC CKCK KFHR KHQ KFOA	WBAP WOAW WGN CYL KDKA KSD WQJ KYW WOAI WLS WIP WFAF WGBS KTHS WGY WHB
8:30 to 9	KGO KPO KWG KFRC KRE KFUS	KFI KHJ KDZB KFBE KFON KJS KNX KFVB	CHBC CKCD CKCK KGY KGW KFOA	WOAW KDKA WGN CYL WIP WFAF WQJ KYW WLS WGBS KFRU KSD WGY KTHS
9 to 9:30	KGO KPO KFQU KFRC KRE	KFI KHJ KFON KNX KFVB	KFOA KGY CKCD KGW	KYW WQJ WLS KFRU WSB WFAA CYL KFRU
9:30 to 10	KGO KPO KFQU KFRC KRE	KFI KHJ KNX KFON KFVB	KFOA	WSB WFAA KYW WLS KFRU KFRU
10 to 11	KGO KFQU KPO	KFVB KHJ KFI KNX KFON	CFCN KGW KFOA	WDAF WQJ WLS KYW KFRU
11 to 12	KGO	KNX KFVB	CFCN KGW	WQJ KYW
12 to 1	KGO			

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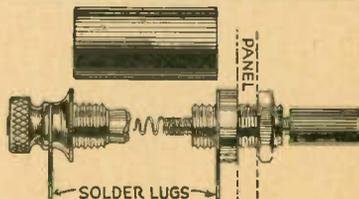
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PROGRAMS FOR TUESDAY

APRIL 21, 1925

PROGRAM FOR KPO—428 Meters

Hale Bros. and The Chronicle, San Francisco

7 a. m.—Daily Dozen, by Bernard Drury

10 a. m.—Talk on cooking and household management by Mrs. Belle DeGraf of the San Francisco Chronicle

10:30 a. m.—"Ye Towne Cryer" and Amusement Information Service

12 noon—Time signals, scripture reading
1 to 2 p. m.—Rudy Seiger's Fairmont Hotel Orchestra, by wire telephony

2:30 to 3:30 p. m.—Matinee program by the Mirimar Dance Orchestra, under direction of Philip Wessa:

China Girl, San, Somebody Loves Me, Tea for Two, Follow the Swallow, Memory Lane, group of piano solos by Philip Wessa, I'll See You in My Dreams, Will You Remember Me, Indian Dawn, Yearning, Playmates, Where's My Sweetie Hiding?, Moonlight and Roses

3:30 to 4:30 p. m.—Palace Hotel concert

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

5:30 p. m.—Market reports

5:35 to 6:30 p. m.—Children's hour stories by Big Brother of KPO, taken from the Book of Knowledge

Saxophone solos by Viola Taylor
6:30 p. m.—"Ye Towne Cryer" and Amusement Information Service

6:35 to 7 p. m.—States Restaurant Orchestra under the direction of Waldemar Lind

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

8 to 9 p. m.—"A Night at Home" through the courtesy of the Bass-Hueter Paint Co.:
Instrumental trio—

Overture, Manon Massenet

Dean Scott Donaldson, violin

J. Winston Petty, 'cello

Helen Eugenia Merchant, piano

Vocal solos—

Villanelle Del 'Acqua

At Dawning Cadman

Sue Hill, soprano

Mildred Stombs-Warenskjold, acc.

Violin solos

Rondino Kreisler

Liebesfreud Kreisler

Dean Scott Donaldson

Miss Merchant, accompanying

Vocal solos—

Vision Fugitive Massenet

Siskar-Vals Swensen

B. August Johnson, bass-baritone

Mrs. Carroll Jarboe at the piano

Piano solos—

Nocturne in F Major Chopin

Naiads at the Spring Paul Juon

Helen Eugenia Merchant

Vocal solos—

Aria from "La Traviata" Verdi

Coming Home Willeby

Sue Hill

Mildred Stombs-Warenskjold, acc.

'Cello solos—

Prelude Henry Eicles

Chant of the Minstrels Glazounow

J. Winston Petty

Miss Merchant at the piano

Vocal solos—

Star Eyes Oley Speaks

Song of Songs Moya

B. August Johnson, bass-baritone

Mrs. Carroll Jarboe, accompanist

Instrumental trio—

From a Wandering Iceberg MacDowell

The Sea Song MacDowell

Dean Scott Donaldson, violin

J. Winston Petty, 'cello

Helen Eugenia Merchant, piano

9 to 10 p. m.—Program under the manage-

ment of Mme. Pearl Ladd:

Soprano solo—

My Hero from The Chocolate Soldier

Mme. Pearl Ladd

Two piano number—

First Movement Concert E Flat Liszt

Helen Resnick, solo piano

Theodore Widmer, second piano

Soprano solos—

Allah's Holiday Katinka

Love's Cigarette from A Southern Maid

Mme. Pearl Ladd

Mrs. Edward Cook, accompanist

Violin solo—

Ch. De Beroit No. 1

Israel Rosenbaum

Two-piano number—

Third Movement Concert E Flat Liszt

Helen Resnick, solo piano

Theodore Widmer, second piano

Soprano solos—

Trees Rashbach

Waiata Poi (a Maori Song) Alfred Hill

By the Waters of Minnetonka Lieurance

Mme. Pearl Ladd

Mrs. Edward Cook, accompanist

10 to 11 p. m.—Johnny Buick's Cabirians

playing at Cabiria Cafe

PROGRAM FOR KFRC—268 Meters

City of Paris, San Francisco

The Call Radio Headquarters

8 to 10 p. m.—Dance music by Paul Kelli's

Orchestra playing at Il Trovatore Roof

Garden Cafe

Intermission program featuring Perry

Lieberman and Fred Ducato

PROGRAM FOR KFUS—234 Meters

Sherman School, Oakland

6:30 to 7 p. m.—Luther Burbank, America's

plant wizard, will speak on the Cultiva-

tion of the Human Plant

Ernest R. Moeller will render several solos

8 to 9 p. m.—Congressman Albert E. Carter

of Oakland will speak on the subject: A

New Congressman's First Impressions of

Washington

Mr. Blair Manchester, tenor, will render

several solos in addition to special instru-

mental numbers

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Chorus will sing your favorite songs on

Tuesday evenings. Send in your requests

early for all of the favorite songs are not

found in one book. Mr. Gilbert Hoff, di-

rector. All the songs of this program are

taken from our special request list

Chorus, Someone Will Be Waiting, Lead

Kindly Light, Will There Be Any Stars

Oakland Temple Chorus

Duet, Unanswered Yet

Scripture, Isaiah 25, by F. C. Wahlgren

Chorus, Wait and Murnur Not, This

World Is Not My Home

Oakland Temple Chorus

PROGRAM FOR KGO—361 Meters

General Electric Co., Oakland
 11:30 a. m. to 1 p. m.—Luncheon concert, courtesy Pacific States Electric Co.
 4 to 5:30 p. m.—Concert Orchestra of the Hotel St. Francis, S. F., Vinton La Ferrara conducting
 6:45 to 7:30 p. m.—Stock reports, news items
 8 p. m.—Studio program
 Part 1—Program courtesy Rotary Club, Alameda, Calif., Earle P. Cochran, director
 Flute solos—
 Meditation (Thais) Massenet
 Call Me Thine Own Halevy
 Winifred Eva Cameron
 Harp accompaniment by Mabel M. Cameron
 Contralto solos—
 Those Songs My Mother Used to Sing..... Wakefield-Smith
 Sweet Little Baby of Mine Dennee
 Julia Phillips Page
 Baritone solos, Bernard O'Brien
 Address, The Spirit of Service Clubs, Frank Marshall, president Alameda Rotary Club
 Soprano solos—
 Three Aylward
 Rose in the Bud Forster
 Mary Anderson Johnson
 Harp solos—
 Two Phantasies Schueker
 The Brook Zabel
 Mabel M. Cameron
 Address, A Vacation Experience, Earle P. Cochran
 Contralto solos—
 Friend Clara Novello Davies
 Since You Went Away..... J. Rosamond Johnson
 Gwyn Jones Tebault
 Duets for soprano and contralto—
 On Wings of Music..... Mendelssohn
 Sweet Zephyrs Mozart
 Mary Anderson Johnson and Julia Phillips Page; Mrs. Allan Crutcher, accompanist
 Part 2—An hour of Southern music, courtesy Richards Hardwood Lumber Co., S. F.
 Instrumental selection—
 Medley of Southern Airs..... Arr. Rourke
 Robt. Rourke, violin; Elbert Cowan, organ; William Carruth, piano
 Songs of the Sunny South, California Male Quartette: Carl Anderson, first tenor; Robt. E. Saxe, second tenor; Clarence H. Oliver, baritone; Harry E. Fossey, bass
 Trombone solos—
 Old Black Joe, Massa's in de Cold Cold Ground, by Carlton Jones
 Contralto solos, Marjorie Miller
 Southern Stories, Wilda Wilson Church
 Instrumental selections—
 Deep River (Negro Spiritual)..... Arr. Powell
 Nobody Knows de Trouble Ah See..... Arr. Powell
 Robt. Rourke, Elbert Cowan, Wm. Carruth
 Male Quartette Novelty—A Little Close
 Harmony Down on de Levee, arr. by Carl Anderson
 California Male Quartette
 Assisted by Wilda Wilson Church
 Instrumental selection—
 Largo (New World Symphony)..... Dvorak
 Robt. Rourke, Elbert Cowan, Wm. Carruth
 10 p. m. to 1 a. m.—Dance music program by Henry Halstead's Orchestra and soloists, Hotel St. Francis, S. F.

PROGRAM FOR KLX—508 Meters

Oakland Tribune, Oakland
 3 to 5 p. m.—Baseball scores, all leagues
 6 to 7 p. m.—Aunt Elsie's Sunset Matinee
 7 to 7:30 p. m.—News items, weather report, market and financial news

PROGRAM FOR KFSG—278 Meters

Angelus Temple, Los Angeles
 3:30 to 4:30 p. m.—Afternoon organ recital program of Esther Fricke Green assisted by Helen Stanhope, soprano, Sarah Kar-cher, violinist and Ruth Russell, soprano.
 Organ numbers will include:
 Twilight Picture Shelley
 Sunshine and Shadow Dudley Buck
 Arcadian Sketch Stoughton
 6:30 to 7:30 p. m.—Angelus hour program, Harold Jeffries, baritone. Mr. and Mrs. V. D. Clair in duets. Ruth Clayton, reader and soprano. Fanny Ashby, soprano

PROGRAM FOR KFOA—454 Meters

Rhodes Department Store, Seattle
 12:30 to 1:30 p. m.—Kiwanis Club luncheon program from the Olympic Hotel
 4 to 5:15 p. m.—The Times, Win. F. Hofman's Olympic Hotel Concert Orchestra
 Orchestra from the Olympic Hotel
 6 to 6:45 p. m.—The Pacific States Electric Co. concert by the Hoffman Orchestra
 6:45 to 8:15 p. m.—Concert by Howe College of Music, directed by J. H. Howe, and assisted by Mrs. Jack, dramatic soprano; Arnold Krauss, violin virtuoso; Miss Jern-berg, acc. College String Quartet: Betty Ward, Mrs. LaMonte, Mrs. Roy and Miss LaMonte.
 8:15 p. m.—Weather report
 8:30 to 10 p. m.—The Times program
 10 to 11 p. m.—Eddie Harkness and his orchestra playing from the Marine Room of the Olympic Hotel

PROGRAM FOR KGW—491 Meters

Morning Oregonian, Portland
 11:30 a. m.—Weather forecast
 12:30 p. m.—Rose City Trio
 5 p. m.—Children's programme
 7:15 p. m.—Markets, weather, news bulletins and police reports
 8 p. m.—Oregon Agricultural College Extension Service lecture
 8:30 p. m.—Concert
 10 to 12 p. m.—Multnomah Hotel Strollers

PROGRAM FOR KFI—467 Meters

Earle C. Anthony, Inc., Los Angeles
 (Copyright by KFI, not to be reprinted)
 5 to 5:30 p. m.—Los Angeles Herald news bulletins
 5:30 to 6 p. m.—L. A. Examiner. Talks by Paul Bern, scenario writer, and Mrs. J. J. Carter, director of the Hollywood Bowl concerts
 6:45 to 7 p. m.—Radiatorial period
 7 to 8 p. m.—Aeolian organ recital from the resident Aeolian organ with Dan McFarland at the console
 8 to 9 p. m.—L. A. Examiner program presented by Betty the Shopper
 9 to 10 p. m.—Program by Lyric Vocal Trio assisted by Marjorie Teitsworth, flutist
 10 to 11 p. m.—Packard Ballad hour, featuring: Way Watts, Billy Hall, Polly Grant Hall, Dorothy Cleveland and William Mays

PROGRAM FOR KJR—384 Meters

The Northwest Radio Service Co., Seattle
 10:30 to 11:30 a. m.—Program
 12:30 to 1 p. m.—Market reports
 1 to 1:30 p. m.—Post-Intelligencer musicale
 1:30 to 2 p. m.—Bernice Redington, Home Economics talk
 6 to 6:30 p. m.—What's on at the Theatres

SCHEDULES FOR WEDNESDAY

APRIL 22, 1925

Pacific Time. Corrected Weekly. For Wave Lengths, Location, Power, Owner, See Page 62

a. m.	Central Cal.	Southern Cal.	Pacific N. W.	Inland
9 to 10	KJBS			
10 to 11	KJBS KFUU			
11 to 11:30		KFSG		
11:30 to 12	KGQ			
p. m.				
12 to 12:30	KGQ KFNV		CFAC	WHB
12:30 to 1	KGQ KFNV	KHJ	KGW KFOA KJR	WHB
1 to 1:30	KPO	KHJ KNX	KFOA KJR	
1:30 to 2	KPO KGO	KHJ	KJR	WDAF
2 to 2:30				WLW KDYL WDAF
2:30 to 3		KHJ KFON KFSG		KDYL
3 to 3:30	KGQ KLX	KHJ KFON KFSG	CFAC	WSB WWJ WTAM
3:30 to 4	KLX	KFSG KFON		WSB WDAF WWJ WTAM
4 to 4:30	KGQ KGW KLX	KFSG	KFEC KFOA	WDAF WWJ
4:30 to 5	KGQ KPO KGW KLX		KFHR KFEC KFOA	WDAF WWJ
5 to 5:30	KGQ KPO KRE	KFI	KFHR KGW CJCA KFOA	KDKA WHB WOR WOC WCCO KOA WLS WTAM WWJ
5:30 to 6	KPO KRE	KFI	CJCA	KDKA WHB WOR WBAP WCCO WLS KDYL KYW PWX WTAM WWJ
6 to 6:30	KPO KFNV KLX	KHJ KFHI KFON	KMO CFAC CJCA KGW KJR	KDKA PWX KYW WOR WGN KFRU WWJ KDYL WTAM WDAF WBAP WLS WOS WLW
6:30 to 7	KZM KFRC KLX KPO	KHJ KFON KFHI KFSG	KMO KFHR CJCA KFOA	KDKA PWX KYW WOR KFRU WWJ KDYL WTAM WDAF WMAQ WGN KOB WLS WOS KTHS
7 to 7:30	KGQ KPO KLX KFRC	KHJ KFSG KNX KFI	KFHR KGB KGW KFOA	WOR PWX WDAF WMAQ KFRU KOB WEBH KYW WQJ KOA XICE KTHS WLS WOS WTAM WEAFF WOC WWJ KSL
7:30 to 8		KFI KFON KNX KPCC KHJ	KFAE CJCA CHBC KFIQ KGB KFOA	WBAP KYW PWX XICE WEBH KFRU WQJ WLS WOS WTAM WEAFF WOC WWJ WOR WMAQ KOA KTHS KSL
8 to 8:30	KPO KLX KRE KFRC KFUU	KFI KHJ KDPT KNX KDZB KFON KPCC KFVB	KFAE CHBC KGW KGB KFOA CFCT	WBAP KPPT KYW XICE WGN WWJ WQJ KOA WLS KTHS WTAM WEAFF KFRU PWX WLW KSL
8:30 to 9	KPO KLX KRE KFRC KFUU	KFI KHJ KDPT KNX KDZB KFON KPCC KFVB	CHBC KGB CKCD KJR KGW KFAE CFCT KFOA	KPPT KYW WGN WQJ WCCO WLW WWJ KTHS KOA WTAM WEAFF KSL
9 to 10	KLX KPO KFQU KFRC KRE	KFI KHJ KDPT KFVB KFON KNX	KMO KFOA KJR KGW CKCD CFCT	KPPT KYW WSB WEBH WQJ WTAM WCCO KOA WLW
10 to 10:30	KPO KFQU KRE KFRC KLX	KFI KHJ KNX KFVB KFON		KYW WQJ KOA
10:30 to 11	KLX KFRC KRE KPO	KFI KHJ KNX KFON KFVB		KYW WQJ KOA
11 to 11:30	KFRC KRE KLX	KNX KFWE KHJ		WQJ KYW
11:30 to 12	KFRC KRE KLX	KNX KFVB		WQJ KYW
12 to 1	KFRC			

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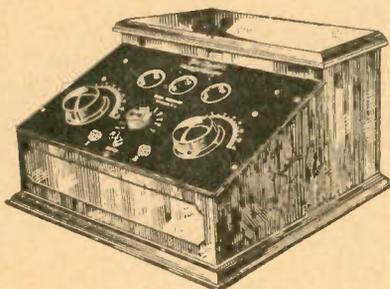
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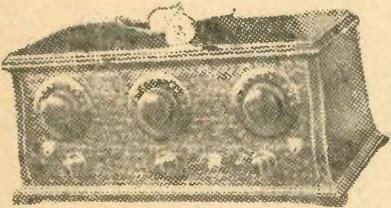
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Radio, M. D.

When Accident or Sickness Befalls Those Aboard the Lonesome Freighter Without Doctor Aboard, It Is the Radio That Comes to the Rescue and Brings Prompt Medical Aid.

Far out at sea a freighter is plowing through the inky blackness of a turbulent, writhing sea, her sailing lights and a dim-lit haze amidships alone disclosing her dark outline. So far as can be seen in the uncertain light there is no sign of life on her heaving decks. The silence is unbroken save for the swish of the parted waves against the sides of the vessel.

In the officers' quarters a man lies tossing fitfully in his bunk, groaning pitifully with each heave of the pitching vessel. He gazes around the room with delirium-glazed eyes. His face is gruesomely puffed from an inner swelling.

This ship, like numerous others that sail the seven seas, carries no doctor. Yet here is a case for a doctor. It may be a question of life or death. Medical advice is urgently needed. What is to be done?

When Radio Turns Doctor

Fortunately, this freighter is equipped with radio apparatus. And that means much. The radio operator is soon pounding his key, and shortly after his call is picked up by another vessel miles away, in reply to the unwritten code of the sea. This is the message received:

S/S West Adrian A B C

To Captain S/S Glenworm Castle

Have man with intense swelling right side face Does not abate Patient delirious Have you doctor on board to wireless treatment

Captain

A few moments later the radio operator with his phones glued to his ears, picks up his pencil and jots down this reply on a radiogram blank.

S/S Glenworm Castle VBJ

To Captain West Adrian

Keep patient in bed and treat face with hot applications of water if not successful paint inside of jaw with white iodine. Advice results.

Captain.

A few hours later the captain advises the distant doctor via radio that the pa-

tient has been relieved and is resting as well as may be expected. An exchange of radiograms and with it the probable result of a life saved.

S/S West Adrian A B C

To Captain Glenworm Castle

Patient resting easily after treatments and pain greatly relieved Please accept my compliments and thanks.

Captain.

That is the significant story behind the radio medical service.

HOW THE RADIO MEDICAL SERVICE CAME ABOUT

Over four years ago the Radio Medical Service had its modest beginning in an idea of Captain Huntington's Chief of the Medical and First Aid Course for seamen at the Seamen's Church Institute, 25 South Street, New York City. He described his plan to Dr. Mansfield, in charge of the institute, who immediately saw in it a practical and humane service.

On November 3, 1920, a special commercial radio telegraph station license with the call letters KDKF was issued to the institute. Soon KDKF began to disseminate medical service to ships in its vicinity, from 9 a. m. till 5 p. m., during which period the institute's doctor was on duty. The idea, now given the acid test of actual service, proved highly practicable. KDKF soon received the right-of-way, so to speak, over all calls except the S O S of ships in distress. And soon it became manifest to all in touch with the development that the radio medical service must be continuous twenty-four hours per day. So, on April 20, 1921, KDKF was licensed to operate twenty-four hours per day.

The day-and-night service was made possible when the Public Health Service took an active interest in the institute's work and offered the services of its staff at the Marine Hospital located on Hudson Street, so as to furnish medical advice by night as well as by day. A direct telephone connection was made between the institute and the hospital, and in this manner speedy medical information was now on tap for the lonely

(Continued on Page 48)

PROGRAMS FOR WEDNESDAY

APRIL 22, 1925

PROGRAM FOR KPO—428 Meters

Hale Bros. and The Chronicle, San Francisco

7 a. m.—Daily Dozen, by Bernard Drury

10:30 a. m.—"Ye Towne Cryer" and Amusement Information Service

12 noon—Time signals, scripture reading
1 to 2 p. m.—Rudy Seiger's Fairmont Orchestra, by wire telephony

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

5:30 p. m.—Market report

5:35 to 6:25 p. m.—Children's hour stories by Big Brother of KPO, taken from the Book of Knowledge

6:25 p. m.—"Ye Towne Cryer" and Amusement Information Service

6:30 to 7 p. m.—States Restaurant Orchestra under the direction of Waldemar Lind, by wire telephony

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

8 to 9 p. m.—Atwater Kent Artist program, dedicated to the Elks on the occasion of the Radio Festival

Trilo selections—

America

Babes in Toyland Victor Herbert

Waltz, Oh How I Miss You, Davis & Burke

Atwater Kent Melody Maids

Baritone solos—

Division Fugitive (from Herodiade)

Massenet

My Lute Liddle

Van Meter Lewis

Trio selections—

Selection from Katinka Friml

Italian Medley Waltz

Parade of the Wooden Soldiers (request)

..... Jessel

Atwater Kent Melody Maids

Soprano solos—

Il est doux il est bon (in French "Herodiade")

Massenet

The Danza (English) Chadwick

Elizabeth C. Hamilton

Trio selections—

By the Waters of Minnetonka Lieurance

At the End of the Road Hanley

Marie, Marie, Marie Brown

Elks' March Lake

Atwater Kent Melody Maids

9 to 10 p. m.—California "Aggie" Glee Club playing at Cabiria Cafe

10 to 11 p. m.—Johnny Buick's Cabirians

PROGRAM FOR KFSG—278 Meters

Angelus Temple, Los Angeles

2:30 to 4:30 p. m.—Auditorium Divine Healing Service. Music by the Ladies' Chorus, Wm. Black in gospel songs, male quartette. Sermon by Almee Semple McPherson, with altar call. Esther Fricke Green at the organ

6:30 to 7:30 p. m.—Angelus hour. Ruth Thomas, pianiste; John Kennedy, baritone; Mildred Kirtley, singing evangelist; Ruth Russell, soprano; Helen Bigley, reader; Carol Nelson, 11 year old singer; Frances Mehl, whistler

PROGRAM FOR KLX—508 Meters

Oakland Tribune, Oakland

3 to 5 p. m.—Baseball scores, all leagues

6 to 7 p. m.—Organ concert radiocast from the American Theatre

7 to 7:30 p. m.—News items, weather report, market and financial news

8 to 9 p. m.—Educational program:

Interpretation of national and international news of the past week, Ad Schuster

Piano solos, Wilhelmina Wolthus

Talk on music and musicians, Roy Harrison Danforth

Piano solo, Wilhelmina Wolthus

Glacier National Park in Summer, R. E. Janet

The Prevention of Malaria, Dr. W. M. Dickie

9 to 9:15 p. m.—Overture by American Theatre Orchestra, John Wharry Lewis, conducting

9:15 to 10 p. m.—Studio program through the courtesy of the Piggly Wiggly Stores of Oakland, presenting the Piggly Wiggly Hawaiians and instrumental soloist

10 to 11:45 p. m.—Music by Tom Gerunovich's Ballroom Entertainers, radiocast through KLX from Sweet's Ballroom

PROGRAM FOR KGO—361 Meters

General Electric Co., Oakland

11:30 a. m. to 1 p. m.—Luncheon concert, courtesy Pacific States Electric Co.

1:30 p. m.—Stock reports

3 p. m.—Musical program and Cora L. Williams Institute speaker

4 to 5:30 p. m.—Concert Orchestra of the Hotel St. Francis, Vincent La Ferrera conducting

6:45 to 7:30 p. m.—Stock reports and news items

PROGRAM FOR KFRC—268 Meters

City of Paris, San Francisco

The Call Radio Headquarters

10 a. m.—"Household Hints," talk by Mary Lewis Haines, domestic science editor of The Call

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

8 to 9 p. m.—Concert by Little Symphony Orchestra

Hawaiian Selections Luke

Serenade Frigone Waldez

Waltz, Soire Waldteufel

Erl King Schubert Liszt

9 to 10 p. m.—Cantata "The Seven Last Words of Christ" under direction Mary Jane Johnston

10 to 1 a. m.—Dance music by Paul Kelli's Orchestra at Il Trovatore Roof Garden Cafe

PROGRAM FOR KGW—491 Meters

Morning Oregonian, Portland

11:30 a. m.—Weather forecast

12:30 p. m.—Rose City Trio

5 p. m.—Children's programme

6 p. m.—Hotel Portland dinner concert

7:15 p. m.—Markets, weather, news bulletins and police reports

8 p. m.—Concert by Seventh U. S. Infantry Band of Vancouver Barracks

PROGRAM FOR KFI—467 Meters

Earle C. Anthony, Inc., Los Angeles

(Copyright by KFI, not to be reprinted)

- 5 to 5:30 p. m.—Los Angeles Herald news bulletins
- 5:30 to 6 p. m.—L. A. Examiner. Talk on health by Olive Ann Alcorn, famous dancer. Home decoration hints by Miss Bradley
- 6:45 to 7 p. m.—Radiatorial period
- 7 to 7:20 p. m.—Nick Harris detective stories
- 7:20 to 7:30 p. m.—Hebrew melody, a Jewish Cantor
- 7:30 to 8 p. m.—Program presented by the Goodwin, Klinger, MacKay Insurance Co., featuring the Lyric Trio, and assisting instrumental artists
- 8 to 9 p. m.—Program presented by the Los Angeles Evening Herald
- 9 to 10 p. m.—L. A. Examiner popular songs program
- 10 to 11 p. m.—An hour of dance music by the renowned Patrick-Marsh Orchestra with Betty Patrick (no bigger than a minute) as soloist

PROGRAM FOR KHJ—405 Meters

Los Angeles Times, Los Angeles

- 2:30 to 3:30 p. m.—Matinee musicale
- 6 to 6:30 p. m.—Art Hickman's Concert Orchestra, from the Biltmore Hotel, under the direction of Edward Fitzpatrick
- 6:30 to 7:30 p. m.—Children's program, presenting Prof. Walter Sylvester Hertzog, in a story of American history. Dick Winslow, screen juvenile reporter. Dickey McBan, screen juvenile. Baby Muriel MacCormack, screen juvenile. Ida Mae Vogt, 9-year-old reader, pupil of Mrs. Leland Moore. Billy Fletcher, boy soprano
- 7:30 to 8 p. m.—Program through the courtesy of University of Southern California
- 8 p. m.—Dr. Mars Baumgardt in his weekly lecture on "Astronomy"
- 8:30 to 10:30 p. m.—Program
- 10:30 to 11:30 p. m.—Art Hickman's Dance Orchestra, from the Biltmore Hotel, under the direction of Earl Burtnett

PROGRAM FOR KTHS—375 Meters

The New Arlington Hotel, Hot Springs, Ark.

- 6:30 to 7 p. m.—Piano solo selections featuring popular numbers by Phil Baxter
- 7 to 7:45 p. m.—Concert by the Meyer Davis-New Arlington Hotel Orchestra
- 7:45 to 7:50 p. m.—Address by J. L. Longino, president of the Arkansas Utilities Association, Pine Bluff, Ark.
- 7:50 to 8:45 p. m.—Dance tunes by the Charles L. Fischer Eastman Hotel Orchestra

PROGRAM FOR KOA—323 Meters

General Electric Co., Denver, Colo.

- 5:40 p. m.—Bedtime stories
- 7 p. m.—Ten minutes of music by Fred Schmitt and his Rialto Theater Orchestra
- 7:10 p. m.—Studio program, courtesy of the Darrow Music Company of Denver. This radio presentation includes choral numbers by the glee club of Denver, Chapter No. 2 (Masonic), under the direction of Edwin Richards, and the Orpheus Male Chorus of twenty-five voices under direction of R. Jefferson Hall, instrumental selections by the Mountain Musicians and a variety of tenor, bass and cornet solos
- 9 to 11 p. m.—Dance music program by Joe Man and his Rainbow-Lane Orchestra, Shirley-Savoy Hotel

PROGRAM FOR KFOA—454 Meters

Rhodes Department Store, Seattle

- 12:30 to 1:30 p. m.—The Rotary Club luncheon program from the Olympic Hotel
- 4 to 5:15 p. m.—The Times, Wm. F. Hoffman's Olympic Hotel Concert Orchestra Orchestra from the Olympic Hotel
- 6 to 6:45 p. m.—The Pacific States Electric Co. concert by the Hoffmann Orchestra
- 6:45 to 8:15 p. m.—Hopper Kelly Co. program
- 8:15 p. m.—Weather report
- 8:30 to 10 p. m.—The Times program

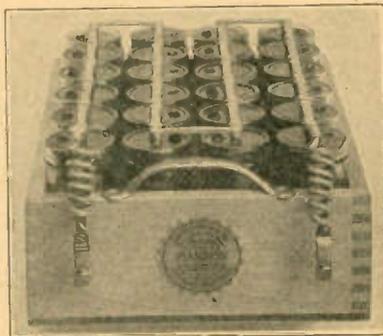
PROGRAM FOR KJR—384 Meters

The Northwest Radio Service Co., Seattle

- 12:30 to 1 p. m.—Market reports
- 1 to 1:30 p. m.—Post-Intelligencer musicale
- 1:30 to 2 p. m.—Musical talk by Raymond David Holmes
- 6 to 6:30 p. m.—What's on at the Theatres
- 8:30 to 9:30 p. m.—Post-Intelligencer Studio concert
- 9:30 to 10 p. m.—Norman Pearce; Illustrated Radio Travelogue

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SCHEDULES FOR THURSDAY

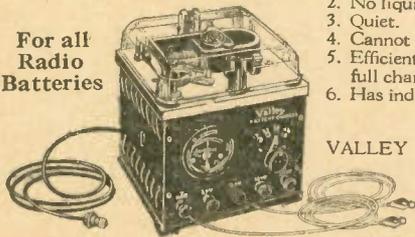
APRIL 23, 1925

Pacific Time. Corrected Weekly. For Wave Lengths, Location, Power, Owner, See Page 62

a. m.	Central Cal.	Southern Cal.	Pacific N. W.	Inland
9 to 10	KJBS			
10 to 11	KJBS KFUU			
11 to 11:30		KFSG KNX		
11:30 to 12 KGO			CJCA	
p. m.				
12 to 12:30	KPNV KGO		CFAC	WHB
12:30 to 1	KPNV KGO	KHJ	KGW KJR KFOA	WHB
1 to 1:30	KPO	KHJ	KJR KFOA	
1:30 to 2	KPO KGO		KJR	WDAF
2 to 2:30				WLW KDYL WDAF
2:30 to 3	KFUS	KHJ		KDYL
3 to 3:30	KFUS KLX	KHJ	CFAC	WSB WWJ WTAM
3:30 to 4	KPO KLX	KFSG		WSB WDAF WWJ WTAM
4 to 4:30	KGO KPO KLX	KFSG KNX	KFEC KFOA	WDAF WOAW WWJ
4:30 to 5	KGO KPO KLX		KFEC KFHR KFOA	WDAF WOAW WWJ
5 to 5:30	KGO KPO	KFI	KFHR KGW KFOA	WOC WOAW KYW WGY WGBS WWJ KOA
5:30 to 6	KPO	KFI		KDYL WBAP WGY WOC WGBS WWJ
6 to 6:30	KPO	KDPT KHJ	KFOA KJR CNRW	WBAP WSB WWJ WHB KYW KSD KDKA KDYL WMAQ WCCO WGN WGY WOC WIP WGBS
6:30 to 7	KZM KPO KFRC	KNX KHJ	KFHR KFEC KFOA CNRW	WSB WWJ WHB KYW KSD KDKA KDYL KLZ WMAQ WCCO WGN WFAA KTHS WGY WOC WIP WGBS
7 to 7:30	KPO KGO KLX	KFI KHJ KNX	KFHR CFCT KGW CNRW	WWJ KLZ KYW KFFR WQJ WCCO WOC WMAQ WHB WOAW WFAA KTHS CYL WIP WDAF WGBS WGY
7:30 to 8		KFI KFSG KNX	KHQ CNRW CHBC KFHR CFCT	WOC KZN WBAP WOAW KFKX KFFR KYW WWJ WMAQ WHB WQJ KTHS WGY CYL WOAI WIP WDAF WGBS WCCO
8 to 8:30	KGO KPO KFRC KFUS KRE KJBS	KFI KFSG KNX KHJ KDZB KNX KFWB	KFHR KHQ CHBC CFAC CJCA KGW CNRC CNRW	WBAP KFKX WOAW WGBS WIP WGY WEAF WGN KYW WQJ WOAI KTHS KSL
8:30 to 9	KGO KPO KFRC KRE KFUS KJBS	KFI KFSG KHJ KJS KDZB KNX KFWB	CHBC CJCA KGW CKCD CFAC CNRC CNRW	KFKX WOAW WIP WGBS KFUR WGY WEAF WGN KYW WQJ KSL KTHS
9 to 10	KGO KPO KFRC KFQU KRE KJBS	KFI KFSG KHJ KFWB	CJCA CKCD CFAC CNRC CNRW	WQJ KYW WFAA WGBS WOC KSL KFUR KFKX WSB WLW KDKA KYW WEBB
10 to 11	KGO KFQU KPO	KFI KFSG KNX KFWB KHJ	CJCA KGW KJR	WDAF WQJ KYW WFAA WLW KSL KFUR
11 to 11:30	KGO	KFWB KNX KHJ	KGW KJR	WQJ KYW
11:30 to 12	KGO	KFWB KNX	KGW KJR	WQJ KYW
12 to 1	KGO			

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2. No liquids.
3. Quiet.
4. Cannot harm battery.
5. Efficient. Current cost for full charge about 10 cents.
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7. Correct 6-ampere charging rate.
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9. Only two wearing parts.
10. Built in handsome black case with Bakelite panel.

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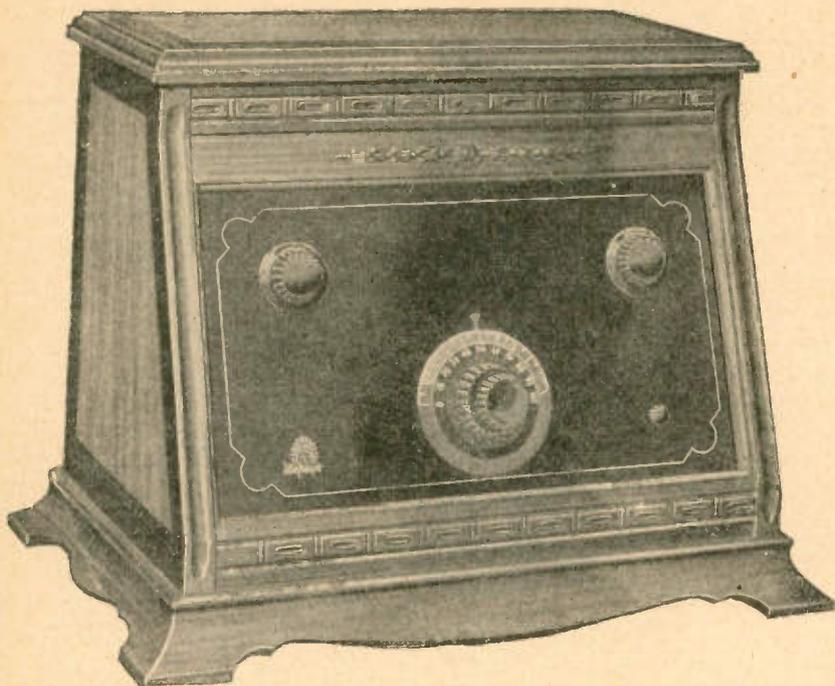
VALLEY ELECTRIC CO., Rialto Bldg., San Francisco, Cal.

Valley Battery Chargers

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Wholesale Radio, Inc.

Phone Kearny 6393

678 Howard St., San Francisco

PROGRAMS FOR THURSDAY

APRIL 23, 1925

PROGRAM FOR KGO—361 Meters

General Electric Co., Oakland

- 10:40 a. m.—Classroom instruction by Oakland Public Schools
 11:30 to 1 p. m.—Luncheon concert, courtesy Pacific States Electric Co.
 1:30 p. m.—Stock and weather reports
 4 to 5:30 p. m.—Concert Orchestra of the Hotel St. Francis, Vinton La Ferrera conducting
 6:45 to 7:15 p. m.—Stock reports and news items
 7:15 p. m.—Golf Lesson—Joe Novak
 8 p. m.—Studio program:

"CAPPY RICKS"

A drama in three acts by Edward E. Rose, adapted from the story by Peter B. Kyne; presented by the KGO Players under the direction of Wilda Wilson Church. Music by the Arion Trio

Characters

Alden P. Ricks, Florence Ricks, Aunt Lucy Ricks, Captain Nat Peasley, Ellen Murray, John Skinner, Edward Singleton, Cecil Pericles Bernhard, Brookfield

Instrumental selection—

Largo from the New World Symphony

Dvorak

Arion Trio

Act 1—Cappy Ricks' office, California Street, San Francisco

Instrumental selection—

Spanish Dance

Granados

Arion Trio

Act 2—Six weeks later. "Sea-Looks," Cappy Ricks' home overlooking the Pacific Ocean, just outside San Francisco

Instrumental selection—

Romance

Svendsen

Arion Trio

Act 3—One week later. Cappy Ricks' office, same as Act 1.

Instrumental selection—

By the River

Anderson

Arion Trio

- 10 to 1 a. m.—Dance music program by Henry Halstead's Orchestra and soloists, Hotel St. Francis

PROGRAM FOR KGW—491 Meters

Morning Oregonian, Portland

- 11:30 a. m.—Weather forecast
 12:30 p. m.—Rose City Trio
 5 p. m.—Children's programme
 7:15 p. m.—Markets, weather, news bulletins and police reports
 8 p. m.—Oregonian Concert Orchestra
 10 to 12 p. m.—Multnomah Hotel Strollers

PROGRAM FOR KFUS—234 Meters

Sherman School, Oakland

- 2:30 to 3:30 p. m.—
 Solo, The Cuckoo.....Rands
 Mrs. McCorkle
 Questions and Answers, Better Health, by Louis L. Sherman, M. D.
 Solo, Pale Moon.....Glick
 8 to 9:30 p. m.—Soprano solos—
 Smilin' Through.....Tem
 The Lilac Tree.....(request)
 Clarice Melvin
 Lessons in Disease Prevention, Louis L. Sherman, M. D.
 When the Shadows Fall, sung by Clarice Melvin

PROGRAM FOR KPO—428 Meters

Hale Bros. and The Chronicle, San Francisco

- 7 a. m.—Daily Dozen, by Bernard Drury
 10:30 a. m.—"Ye Towne Cryer" and Amusement Information Service
 12 noon—Time signals, scripture reading
 1 to 2 p. m.—Rudy Seiger's Fairmont Hotel Orchestra, by wire telephony
 3:30 to 4:30 p. m.—Palace Hotel Orchestra
 4:30 to 5:30 p. m.—Rudy Seiger's Fairmont Hotel Orchestra, by wire telephony
 5:30 p. m.—Market reports
 5:35 to 6:25 p. m.—Children's hour stories by Big Brother of KPO, taken from the Book of Knowledge
 Piano solos—
 Spanish Dance.....Friml
 Goblins.....L. Schytte
 Alyce Schallock
 6:25 p. m.—"Ye Towne Cryer" and Amusement Information Service
 6:30 to 7 p. m.—States Restaurant Orchestra by wire telephony
 7 to 7:30 p. m.—Rudy Seiger's Fairmont Hotel Orchestra, by wire telephony
 8 to 9 p. m.—Organ recital by Theodore J. Irwin, official organist, at the Wurlitzer
 9 to 10 p. m.—Radio Motor Tour of the Redwood Highway
 10 to 11 p. m.—Johnny Buick's Cabirians, playing at Cabiria Cafe

PROGRAM FOR KFI—467 Meters

Earle C. Anthony, Inc., Los Angeles

- (Copyright by KFI, not to be reprinted)
 5 to 5:30 p. m.—Los Angeles Herald news bulletins
 5:30 to 6 p. m.—L. A. Examiner. Varsity Dance Orchestra of the University of Southern California
 6:45 to 7 p. m.—Radiatorial period
 7 to 8 p. m.—Instrumental program presented by the Mu Phi Epsilon Trio, violin, cello and piano. And vocal recital by Ralph Reilly, tenor
 8 to 9 p. m.—Program presented by the Standard Oil Co. of California, featuring talent from within the organization of the Los Angeles agency
 9 to 10 p. m.—Program presented by the Southern California Music Co.
 10 to 11 p. m.—L. A. Examiner literary program presented by the League of American Penwomen

PROGRAM FOR KFRC—268 Meters

City of Paris, San Francisco

The Call Radio Headquarters

- 6:30 to 7 p. m.—Studio program featuring the Dining Room Boys with Peggy MacDonald as accompanist
 8 to 10 p. m.—Dance music by Paul Kelli's Orchestra playing at Il Trovatore Roof Garden Cafe. Intermission program featuring Chas. D. Love, humorous monologist

PROGRAM FOR KLX—508 Meters

Oakland Tribune, Oakland

- 3 to 5 p. m.—Baseball scores, all leagues
 7 to 7:30 p. m.—News items, weather report, market and financial news

PROGRAM FOR KFSG—278 Meters

Angelus Temple, Los Angeles

- 3:30 to 4:30 p. m.—Organ recital program of B. Earnest Ballard, assisted by Margaret Kennedy, soprano
 7:30 to 9:15 p. m.—Auditorium radiocast. Water baptismal service and evangelistic sermon of Aimee Semple McPherson. Special music
 9:15 to 10 p. m.—Gray Studio program featuring the Temple Choir under the direction of G. N. Nichols, with assisting soloists
 10 to 11 p. m.—Organ recital program of Esther Fricke Green, assisted by Gertrude Koehring, contralto. Organ numbers will include:
 Adagio Cantabile Tartini
 To a Wild Rose MacDowell
 Benediction Nuptiale Hollins

PROGRAM FOR KHJ—405 Meters

Los Angeles Times, Los Angeles

- 2:30 to 3:30 p. m.—Matinee musicale
 6 to 6:30 p. m.—Art Hickman's Concert Orchestra, from the Biltmore Hotel, under the direction of Edward Fitzpatrick
 6:30 to 7:30 p. m.—Children's program, presenting Prof. Walter Sylvester Hertzog in a story of American history. Dickie Brandon, screen juvenile. Carroll Brittle, 7-year-old reader. Betty Jane Glassbrook, 6-year-old reader. Leola Dolbee, 10-year-old reader. Jane Hughes, screen juvenile
 8 to 10 p. m.—Program
 10 to 10:30 p. m.—Special program presenting Piggly Wiggly Girls
 10:30 to 11:30 p. m.—Art Hickman's Dance Orchestra from the Biltmore Hotel, under the direction of Earl Burtnett

PROGRAM FOR KNX—337 Meters

Los Angeles Evening Express, Los Angeles

- 4 p. m.—Estelle Lawton Lindsay's Travel Talk
 6:30 to 7:30 p. m.—Program
 7:30 p. m.—Security Business Talk by J. R. Douglass
 8 to 9 p. m.—Feature program
 10 to 11 p. m.—Hotel Ambassador, Abe Lyman's Coconut Grove Orchestra
 11 to 12 p. m.—Campus Night, students of University of California, Southern Branch

PROGRAM FOR KTHS—375 Meters

The New Arlington Hotel, Hot Springs, Ark.

- 6:30 to 7 p. m.—Violin recital by Jacques Renard, Louis Culp accompanying
 7 to 8 p. m.—Concert by the Charles L. Fischer Eastman Hotel Orchestra
 8 to 8:45 p. m.—Organ recital by Lawson Reid from the Princess Theatre

PROGRAM FOR KJR—384 Meters

The Northwest Radio Service Co., Seattle

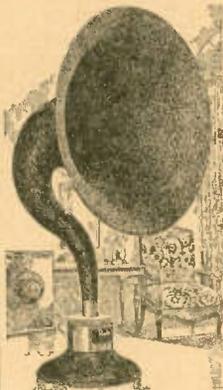
- 12:30 to 1 p. m.—Market reports
 1 to 1:30 p. m.—Post-Intelligencer musicale
 1:30 to 2 p. m.—Bernice Redington, Home Economics expert of P.-I.
 6 to 6:30 p. m.—What's on at the Theatres
 10:30 to 12 p. m.—Regular meeting of the "Keep Joy Radiating Order of 'The Bats' in their Belfrey."

PROGRAM FOR WOAI—394 Meters

Southern Equipment Co., San Antonio, Texas

- 7:30 p. m.—Dance music by Jimmie Joy's Orchestra, from St. Anthony Hotel roof

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The Outstanding Achievement in Loud Speakers

Exquisite tone quality — master of every note in the orchestral range. Sensitivity that will reproduce any signal that can be amplified. Volume unequalled — without chatter, without discord. A demonstration is the acid test. Hear the Rola here for convincing proof.

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SCHEDULES FOR FRIDAY

APRIL 24, 1925

Pacific Time. Corrected Weekly. For Wave Lengths, Location, Power, Owner, See Page 62

a. m.	Central Cal.	Southern Cal.	Pacific N. W.	Inland
9 to 10	KJBS			
10 to 11	KJBS KPO KFUU			
11 to 11:30	KGO	KFSG	KJR	
11:30 to 12	KGO	KNX	CJCA	
p. m.				
12 to 12:30	KGO			WHB
12:30 to 1	KGO KPO	KHJ	KFOA KGW KJR	WHB
1 to 1:30	KPO	KHJ KNX	KFOA KJR	
1:30 to 2	KPO KGO		KFHR KJR	WDAF
2 to 2:30			KFHR CFAC	WLW KDYL WDAF KOA
2:30 to 3		KHJ KFON	KFHR	WLW
3 to 3:30	KGO	KHJ KFON	KFHR CFAC	WSB WWJ WTAM
3:30 to 4		KFSG KFON		WSB WDAF WWJ WTAM
4 to 4:30	KGO KGW	KFSG KNX	KFEC KFOA	WDAF WOAW WWJ
4:30 to 5	KGO KPO KGW		KFEC KFOA	WDAF WOAW WWJ
5 to 5:30	KGO KPO	KFI	KGW KFOA	WHB KDKA WOC WOAW KYW KOA WLS
5:30 to 6	KGO KPO	KFI		WHB KDKA WBAP KDYL WOC KYW WLS KOA WWJ
6 to 6:30	KFNV KLX KPO	KHJ KFJH KFON KDPT KNX	KMO KGW KJR	WBAP WDAF KDYL WSB WOC KYW WLS WMAQ WCCO WGN KDKA WGY WOS WWJ
6:30 to 7	KZM KFRC KLX KPO	KHJ KFJH KFON	KMO KFHR KFEC CJCA KGW CNRE	WBAP WDAF KDYL WSB WOC KYW WLS WMAQ WCCO WGN KDKA WGY WOS WWJ KTHS KOB
7 to 7:30	KGO KLX KFRC KPO	KFI KHJ KNX	KFHR KGB KFOA KGW	WFAA WOAW CYL WCCO XICE KOA WMAQ WQJ KOB KTHS WGY KYW WLS WOS KFAU WEAFF WWJ KSL
7:30 to 8		KFI KFSG KFON KHJ KNX	KGB CJCA CNRE CHBC KFAE KFOA	WBAP WOAW CYL WCCO XICE KOA WMAQ WQJ KYW KTHS WGY WLS WOS KFAU WEAFF KSL WOC
8 to 8:30	KLX KGW KFRC KPO KJBS KFUU	KFSG KDZB KFON KFI KHJ KNX KFWE	KGW KGB CJCA KFOA KFAE CHBC CFCT CNRE	WBAP WOAW KPFT XICE KFAU KOA WQJ WGN WGY WLS WEAFF KTHS WOC WCCO
8:30 to 9	KLX KGW KFRC KPO KFUU KJBS	KFI KFSG KHJ KDZB KFON KNX KFWE	KGW KFAE CHBC KGB CJCA KJR CNRE KFOA CKCD KGY CFCT	WOAW KPFT WGN WQJ KOA WLS WEAFF KTHS WGY WCCO
9 to 9:30	KLX KFRC KFQU KPO KFUU KJBS	KFI KHJ KFSG KNX KFJH KFON KFWE	KFOA CKCD KJR CNRE KGY KMO CJCA CFCT	KPFT KYW WSB WEBH WQJ KFUR WCCO KFUR
9:30 to 10	KLX KFRC KFQU KPO KJBS	KFI KHJ KFSG KNX KFJH KFON KFWE	KFOA KMO CJCA CFCT KJR	KPFT KYW WSB WEBH WQJ KFUR WCCO KFUR
10 to 10:30	KFRC KLX KFQU KPO	KFI KFSG KNX KFON KFWE KHJ	CFAC KFOA	WDAF KYW WQJ KFUR WREO KFUR
10:30 to 11	KFRC KFQU KPO	KFI KFSG KNX KFON KFWE KHJ	CFAC KGW KFOA	WDAF KYW WQJ KFUR WREO KFUR
11 to 12		KNX KFWE	KGW	KYW WQJ WREO
12 to 2		KNX		

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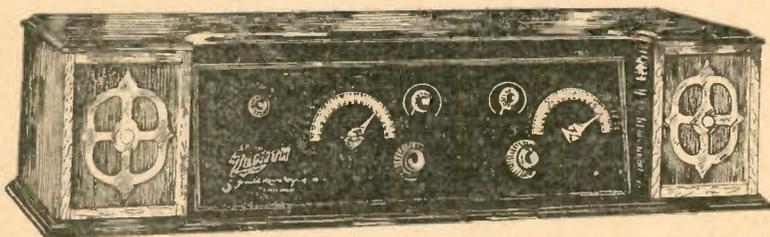
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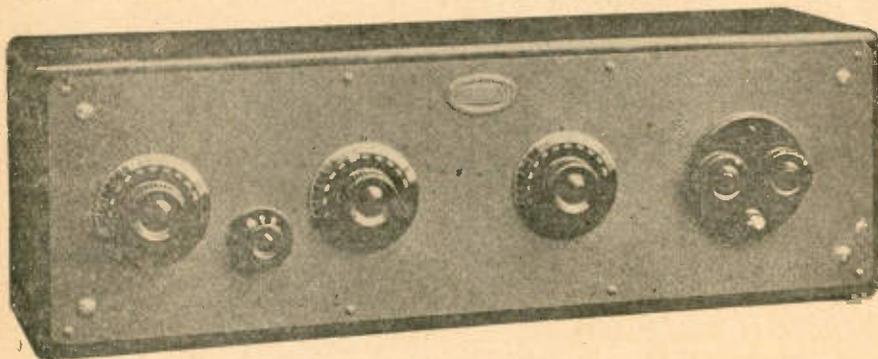
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PROGRAMS FOR FRIDAY

APRIL 24, 1925

PROGRAM FOR KLX—508 Meters
Oakland Tribune, Oakland

- 6 to 7 p. m.—Organ recital from the American Theatre
 7 to 7:30 p. m.—News items, weather bureau report, market and financial news
 8 to 10 p. m.—Studio program:

PAID IN FULL

A play in four acts presented by the KLX Players under the direction of Etta Wilson Coleman, through the courtesy of the Magnavox Company of Oakland

Cast: Capt. Williams, J. Spencer Riley; Joe Brooks, A. E. Bevan; Jimmie Smith, J. Carol Coleman; Emma Brooks, Etta Wilson Coleman; Mrs. Harris, Ethel Johns; Beth Harris, Madeline Fulik; Japanese servant, A. E. Bevan

On account of the length of the play there will be incidental music between the second and third acts only

- 10 to 10:30 p. m.—Music by Tom Gerunovich's Ballroom Entertainers, radiocast through KLX from Sweet's Ballroom

PROGRAM FOR KFRC—268 Meters**City of Paris, San Francisco**
The Call Radio Headquarters

- 6:30 to 7:30 p. m.—Concert by Bem's Little Symphony Orchestra playing at the Hotel Whitcomb
 San Francisco Call News radiocast during intermissions
 8 to 9 p. m.—Concert by Bem's Little Symphony Orchestra:
 Selection, Fortune Teller Herbert Waltz Pomone Waldteufel
 Song of India Rimsky-Korsakow
 Opera, Aida Verdi
 9 to 10 p. m.—Studio program. Lorraine Ewing, pianist; Wylie Doran, baritone; Albert Peterson, tenor. Medical talk under auspices San Francisco County Medical Society
 10 to 11 p. m.—Dance music by Paul Kelli's Orchestra playing at Il Trovatore Roof Garden Cafe
 Studio program featuring Paul Nelson, piano soloist

PROGRAM FOR KFUU—224 Meters**Colburn Radio Lab., San Leandro, Cal.**

- 8 to 9 p. m.—Studio program; arrangement by Mme. Caro Roma and Dorothea Brown Osborne
 The Wandering One, song cycle in six parts, by Caro Roma
 Absence, The Lament, Doubt Not, by Dorothea Brown Osborne, Mme. Roma, acc.
 Ten Minutes with Caro Roma: Request numbers, etc.
 The Wandering One: The Prayer, The Letter, The Return, by Dorothea Brown Osborne, Mme. Caro Roma, acc.
 Piano solos by Mrs. Wm. Francis Smith
 Soprano solo—I Am Thy God (Prize song for 1924), (Caro Roma), by Dorothea Brown Osborne; Mme. Caro Roma, acc.
 Duet—Jesus Lover of My Soul (Caro Roma), Dorothea Brown Osborne and Caro Roma
 9 to 9:30 p. m.—Novelty numbers by the Cherry City Hawaiian Trio

PROGRAM FOR KGO—361 Meters**General Electric Co., Oakland**

- 11:10 a. m.—Home Making talk by Prudence Penny
 11:30 to 1 p. m.—Luncheon concert, courtesy Pacific States Electric Co.
 1:30 p. m.—Stock and weather reports
 3 p. m.—Studio musical program and speaker
 4 to 5:30 p. m.—Concert orchestra of the Hotel St. Francis, Vinton La Ferrara conducting
 5:30 to 6 p. m.—The Girls' Half Hour, conducted by Esther Wood Schneider
 6:45 p. m.—Stock reports and news items

PROGRAM FOR KFI—467 Meters**Earle C. Anthony, Inc., Los Angeles**

(Copyright by KFI, not to be reprinted)

- 5 to 5:30 p. m.—Los Angeles Herald news bulletins
 5:30 to 6 p. m.—L. A. Examiner. Hollywoodians Dance Orchestra
 6:45 to 7 p. m.—Radiatorial period
 7 to 8 p. m.—L. A. Examiner. Plantation Orchestra
 8 to 9 p. m.—Aeolian organ recital featuring the Aeolian residence pipe organ, Dan MacFarland at the console
 9 to 10 p. m.—Program presented by the Los Angeles Evening Herald
 10 to 11 p. m.—Program arranged by Myra Belle Vickers, presenting her pupils

PROGRAM FOR KOA—323 Meters**General Electric Co., Denver, Colo.**

- 7 p. m.—Ten minutes of music by Fred Schmitt and his Rialto Theater Orchestra
 7:10 p. m.—Studio program, featuring the KOA players in two dramatic presentations, "Passe," a one-act tragedy, and "Rosalie," a one-act comedy, both under direction of Iris Ruth Pavey. In addition there will be numbers by the Spanish War Veterans' quartet, readings by Louise Mullins, and instrumental selections by the popular KOA orchestra under direction of Dr. Lewis H. Chernoff

PROGRAM FOR KGW—491 Meters**Morning Oregonian, Portland**

- 11:30 a. m.—Weather forecast
 12:30 p. m.—Rose City Trio
 5 p. m.—Children's programme
 6 p. m.—Concert by George Weber's Orchestra
 7:15 p. m.—Markets, weather, news bulletins and police reports
 8 p. m.—Lecture sponsored by University of Oregon Extension Division
 10:30 p. m.—Hoot Owls

PROGRAM FOR KJR—384 Meters**The Northwest Radio Service Co., Seattle**

- 10:30 to 11:30 a. m.—Program
 12:30 to 1 p. m.—Market reports
 1 to 1:30 p. m.—Post-Intelligencer musicale
 1:30 to 2 p. m.—Book review by Raymond David Holmes, Post-Intelligencer librarian
 6 to 6:30 p. m.—What's on at the Theatres
 8:30 to 9:30 p. m.—Post-Intelligencer studio recital
 9:30 to 10 p. m.—Chamber of Commerce program

PROGRAM FOR KPO—428 Meters

- Hale Bros. and The Chronicle, San Francisco**
 7 a. m.—Daily Dozen by Bernard Drury,
 10 a. m.—Talk on cooking and household
 management by Mrs. Belle DeGraf of the
 San Francisco Chronicle
 10:30 a. m.—“Ye Towne Cryer” and Amuse-
 ment Information Service
 12 noon—Time signals, scripture reading
 12:45 p. m.—Talk from the Commonwealth
 Club Luncheon, at the Palace Hotel
 1:30 to 2 p. m.—Rudy Seiger’s Fairmont
 Hotel Orchestra, by wire telephony
 4:30 to 5:30 p. m.—Rudy Seiger’s Fairmont
 Hotel Orchestra, by wire telephony
 5:30 p. m.—Market report
 5:35 p. m.—Talk on “Girls” by Mildred
 Pollock, playground commissioner
 6 p. m.—“Ye Towne Cryer” and Amusement
 Information Service
 6:05 to 7 p. m.—Program from Loew’s War-
 field Theatre
 7 to 7:30 p. m.—Palace Hotel concert
 8 to 11 p. m.—Palace Hotel concert

PROGRAM FOR KHJ—405 Meters
Los Angeles Times, Los Angeles

- 2:30 to 3:30 p. m.—Matinee musicale
 6 to 6:30 p. m.—Art Hickman’s Concert Or-
 chestra from the Biltmore Hotel, under
 the direction of Edward Fitzpatrick
 6:30 to 7:30 p. m.—Children’s program, pre-
 senting Prof. Walter Sylvester Hertzog in
 a story of American history. Richard
 Headrick, screen juvenile, Vyola Von, child
 actress. Mary Jane Reilly, 3-year-old
 reader. Louis Klotz, 5-year-old reader.
 Bobby House, 3-year-old reader, pupil of
 Mrs. Leland Moore. Piggly Wiggly Ha-
 walian Trio. Lenore Killian, contralto
 7:30 p. m.—Gladys De Witt will give the
 next of her series of talks on “Romance
 of the Santa Fe Trail”
 8 to 10 p. m.—Program
 10 to 11 p. m.—Art Hickman’s Dance Or-
 chestra from the Biltmore Hotel, under
 the direction of Earl Burnnett

PROGRAM FOR KFOA—454 Meters
Rhodes Department Store, Seattle

- 12:30 to 1:30 p. m.—Seattle Chamber of
 Commerce program from their new C. of
 C. building
 4 to 5:15 p. m.—The Times, Wm. F. Hoff-
 man’s Olympic Hotel Concert Orchestra
 6 to 6:45 p. m.—The Pacific States Electric
 Co. dinner hour concert by the Hoffmann
 Orchestra from the Olympic Hotel
 6:45 to 8:15 p. m.—Sherman, Clay & Co.
 program
 8:15 p. m.—Weather report
 8:30 to 10 p. m.—The Times program
 10 to 11 p. m.—Eddie Harkness and his or-
 chestra playing from the Marine Room of
 the Olympic Hotel

PROGRAM FOR KFSG—278 Meters
Angelus Temple, Los Angeles

- 7:30 to 9:15 p. m.—Auditorium service and
 Crusaders Rally. Evangelistic sermon of
 Mrs. McPherson. Music by the Silver
 Band and Choir
 9:15 to 10 p. m.—Judge Carlos S. Hardy of
 the Superior Court, introducing Judge
 Bledsoe to the radio audience, who will
 give a brief address. Marion Knott, saxo-
 phonist; Margaret Leek at the piano. Ada
 Lantz, soprano; Mr. and Mrs. Harry Hill
 in duets
 10 to 11 p. m.—Organ recital program.

PROGRAM FOR KTHS—375 Meters
The New Arlington Hotel, Hot Springs, Ark.

- 6:30 to 7 p. m.—Program by the Charles
 L. Fischer Trio—Tubby Vell, tenor; Bur-
 ton Fischer, piano and Doug Johnston,
 cornet
 7 to 7:05 p. m.—Talk of interest to farmers
 by E. B. Matthews, state supervisor of
 agricultural education
 7:05 to 7:50 p. m.—Concert by the Meyer
 Davis-New Arlington Hotel Orchestra
 7:50 to 8:45 p. m.—Dance tunes by the
 Charles L. Fischer Orchestra



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SCHEDULES FOR SATURDAY

APRIL 25, 1925

Pacific Time. Corrected Weekly. For Wave Lengths, Location, Power, Owner, See Page 62

a. m.	Central Cal.	Southern Cal.	Pacific N. W.	Inland
9 to 10	KJBS			
10 to 11	KJBS KFUV	KHJ		
11 to 11:30		KFSG KHJ		
11:30 to 12	KGO KFUS	KHJ		
p. m.				
12 to 12:30	KGO KFNV			
12:30 to 1	KGO KFNV	KHJ	KGW KJR	
1 to 2	KPO		KJR	
2 to 2:30			KJR	KDYL WDAF
2:30 to 3	KPO	KHJ KFON		KDYL
3 to 3:30	KPO	KHJ KFON	CFAC	WSB WTAM
3:30 to 4	KPO	KFSG KFON		WSB WDAF WTAM
4 to 4:30	KGO KWG KPO	KFSG	KFEC KFOA	WDAF WOAW
4:30 to 5	KGO KWG KPO		KFEC KFHR KFOA	WDAF KYW WOAW
5 to 5:30	KGO KPO	KFI	KFHR	WBAP KYW WOR WOC WLS KDKA WOAW WGY WIP
5:30 to 6	KPO	KFI	KFHR	KDKA WOR KDYL PWX WGY WLS WIP WEAF KFRU
6 to 6:30	KPNV KFRC KPO	KHJ KFON	KFHR KJR	WSB PWX KDYL WGY WLS WTAM WOR WCCO WGN KDKA KYW WIP WEAF WLW WGBS
6:30 to 7	KFRC KZM KPO	KHJ KNX KFON	KFHR KFEC CJCA	WSB PWX KYW KDYL WCCO WGY WLS WOR WMAQ WGN KDKA KTHS WTAM WIP WEAF WLW WGBS
7 to 7:30	KLX KFRC KPO	KFI KHJ KNX	KFHR KFOA	KSD KYW WOC WTAM PWX KTHS WEAF WOAW WOR WMAQ WQJ WLS KFRU WLW WGBS WGY KSL
7:30 to 8		KFI KFSG KFON KFRP KNX KHJ	KHQ KFOA KFHR	KYW WOC WTAM PWX KFRU KTHS WGY WOAW WOR WMAQ WQJ WLS WIP WEAF WGBS WLW WREO KSL
8 to 8:30	KPO KGO KRE KFRC	KFI KHJ KFSG KNX KFON KDZB KFWB	CJCA KFHR KFOA	WOAW WTAM WGN KYW WCCO KFRU WQJ KOA WLS WIP WDAF WGBS WREO PWX KTHS WGY
8:30 to 9	KPO KGO KRE KFRC	KFI KHJ KFSG KNX KFON KDZB KFWB	CJCA CKCD KFOA	WOAW WTAM WGN KYW WCCO KFRU WQJ KOA WLS WIP WEAF KTHS WGY WGBS WREO
9 to 9:30	KGO KPO KFQU KRE	KFI KHJ KFON KNX KPSG KFWB	CFCN CKCD CJCA KFOA	WSB WFAA KYW WEBB KOA KFUR WQJ WLS WOC KFRU WCCO
9:30 to 10	KGO KPO KFQU KRE	KFI KHJ KFON KNX KFWB	CFCN CKCD CJCA KFOA	WSB WFAA KYW WEBB KOA WQJ WLS WOC KFRU WCCO KFUR
10 to 11	KGO KPO KFQU KRE	KFI KHJ KFON KNX KFON KFWB	KFOA CFCN KGW	KYW WQJ KOA WLS KFUR
11 to 12	KGO KPO KRE	KNX KFWB KHJ	KGW	KYW WQJ
12 to 1	KGO	KHJ		
1 to 2		KHJ		

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PROGRAMS FOR SATURDAY

APRIL 25, 1925

PROGRAM FOR KGO—361 Meters**General Electric Co., Oakland**

- 11:30 to 1 p. m.—Luncheon concert, courtesy Pacific States Electric Co.
- 12:30 noon—Stock reports
- 4 to 5:30 p. m.—Concert Orchestra of the Hotel St. Francis, San Francisco, Vinton La Ferrera, conducting
- 8 p. m.—Studio program—Part One
Program by University of California Glee Club; C. R. "Brick" Morse, '96, director
Glee club—
Hail to California Morse
Of All the Songs Smith
The Desperado
Piano solos—
Juba Dance Bett
Rigaudon MacDowell
Frank Dunsmore, '25
- Baritone solos—
Evening Star (Tannhauser) Wagner
With You Nutting
G. Franklin Roberts, '25
'Cello obligato by Miles B. Cutler
Frank Dunsmore, accompanist
- Glee Club—
Vesper Hymn Beethoven
Archers Marching Song Thayer
'Cello solos—
Cantilena Golterman
Hymn to the Sun Rimsky-Korsakoff
Miles B. Cutler, '25
- Whistling solos—
My Heart at Thy Sweet Voice. Saint-Saens
Roses of Picardy Wood
Harry Kolb
Frank Denke, accompanist
- Golden Bear Quartette—
Winter Song Bullard
Far Away in the South
Song of the Billboard
J. Smale, K. Courtright,
J. Morrison, H. Payne
- Piano solos—
Prelude in G Minor Rachmaninoff
Butterfly Etude Chopin
Frank Denke
- Glee Club—
Stanford Jonah Ted Haley, '15
Big C Song Williams, '14
All Hail, Blue and Gold (California
Hymn) Bingham, '06
- Part Two
Comic Opera, "KING OF SPADES"
By Lydia Warren Lister
Orchestra directed by Robert Rourke
Characters before the microphone
Princess Lelia (daughter of Articus)
Mme. Pearl Ladd
Prince Karl (soldier of fortune)
Carl Anderson
King Articus George L. Bernhardt
Countess Annelle (ward of Articus)
Mrs. Anthony Silva
Zarlinka (the Witch).....Lydia Warren Lister
Patrick (King of Spades).....William Conway
Hector (Prince of Amkursch)
Jennings Pierce
Chorus of Shades, Peasants and Soldiers
The comic opera "King of Spades" opens with a satirical prologue on grand opera. An imaginary village in Hungary is the scene of the story which involves an old witch with "the evil eye"; the witch's beautiful daughter; "Patrick," an Irish-

man; and stern "Old King" who keeps the lovers apart to create suspense. Of course "Old King" surrenders in the last act, but young Patrick had to agree "never to touch another drop"—"Pat" referred to booze

- 10 to 1 a. m.—Dance music program by Henry Halstead's Orchestra and soloists, Hotel St. Francis

PROGRAM FOR KPO—428 Meters**Hale Bros. and The Chronicle, San Francisco**

- 7 a. m.—Daily Dozen by Bernard Drury,
10:30 a. m.—"Ye Towne Cryer" and Amusement Information Service
12 noon—Time signals, scripture reading
1 to 2 p. m.—Rudy Seiger's Fairmont Hotel Orchestra, by wire telephony
2:30 to 3:30 p. m.—Program by the Ellivade Orchestra from Stanford University
3:30 to 5:30 p. m.—Palace Hotel concert
5:30 to 6:25 p. m.—Program from Loew's Warfield Theatre
6:25 p. m.—"Ye Towne Cryer" and Amusement Information Service
6:30 to 7:30 p. m.—Johnny Buick's Cabirians of Cabiria Cafe
8 to 12 p. m.—Art Weidner's Dance Orchestra, playing at the Fairmont Hotel

PROGRAM FOR KFRC—268 Meters**City of Paris, San Francisco****The Call Radio Headquarters**

- 6:15 to 6:30 p. m.—Boob McNutt and Elmer Tuggle, the Call's comic characters will entertain the children
6:30 to 7:30 p. m.—Dinner dance program by Ken Dogan's Hotel Whitcomb Dance Orchestra, playing in the main dining room of the Whitcomb
San Francisco Call's news bulletins during intermissions and police radiocast

PROGRAM FOR KFUS—234 Meters**Sherman School, Oakland**

- 11:30 to 12 noon—Children's hour program presented by boys and girls from the Children's Church, under the supervision of Mabel F. Sherman, and given under the auspices of the magazine "Today." The Children's Chorus will render several songs in addition to special numbers by some of the children

PROGRAM FOR KLX—508 Meters**Oakland Tribune, Oakland**

- 7 to 7:30 p. m.—News items, weather report, market and financial news

PROGRAM FOR KOA—323 Meters**General Electric Co., Denver, Colo.**

- 8 to 11 p. m.—Dance music program by Joe Mann and his Rainbow-Lane Orchestra, Shirley-Savoy Hotel

PROGRAM FOR KJR—384 Meters**The Northwest Radio Service Co., Seattle**

- 12:30 to 1 p. m.—Market reports
1 to 1:30 p. m.—Post-Intelligencer musicale
1:30 to 2 p. m.—Sports review
6 to 6:30 p. m.—What's on at the Theatres

PROGRAM FOR KGW—491 Meters**Morning Oregonian, Portland**

- 11:30 a. m.—Weather forecast
12:30 p. m.—Concert by Rose City Trio
10 to 12 p. m.—Multnomah Hotel Strollers

PROGRAM FOR KFI—467 Meters

- Earle C. Anthony, Inc., Los Angeles**
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 5 to 5:30 p. m.—Los Angeles Herald news bulletins
 5:30 to 6 p. m.—L. A. Examiner. Six Friar's Orchestra
 6:45 to 7 p. m.—Radiatorial period
 7 to 7:45 p. m.—Program by the Lake Arrowhead Orchestra under the direction of Carroll Huxley
 7:45 to 8 p. m.—The Bookshelf, Miss Nancy, subject: "Right reading for children and intimate peeps into lives of famous authors."
 8 to 9 p. m.—L. A. Examiner. Huntington Beach Band
 9 to 10 p. m.—Recital of Ingrid Arneson Boyd, soprano. Acc., Paul Reese. Also Pastel Instrumental Trio, violin, cello, piano
 10 to 11 p. m.—Packard Radio Club, featuring Foothill Four Quartet, Mae Holboro, Carlson Sisters and Way Watts

PROGRAM FOR KHJ—405 Meters

- Los Angeles Times, Los Angeles**
 2:30 to 3:30 p. m.—Matinee musicale
 6 to 6:30 p. m.—Art Hickman's Concert Orchestra from the Biltmore Hotel, under the direction of Edward Fitzpatrick
 6:30 to 7:30 p. m.—Children's program, presenting Prof. Walter Sylvester Hertzog in a story of American history. Helen Pirie, screen juvenile, Henrietta Poland, child reader, pupil of Carter Weaver. George Ezra Crane, screen juvenile
 7:30 to 8 p. m.—Special program through the courtesy of the Y.M.C.A., presenting the Colombia Trio and Tom McGuire, concertina
 8 to 10:30 p. m.—Program
 10:30 to 11:30 p. m.—Art Hickman's Dance Orchestra from the Biltmore Hotel, under the direction of Earl Burnett
 11:30 to 2 a. m.—Weekly program of the "Lost Angels of KHJ." With Majestic Six Orchestra, KHJ string quartet and other favorites

PROGRAM FOR KTHS—375 Meters

- The New Arlington Hotel, Hot Springs, Ark.**
 6:30 to 7:15 p. m.—Concert by the Charles L. Fischer Eastman Hotel Orchestra
 7:15 to 8 p. m.—Concert by the College of The Ozarks Trio
 8 to 8:45 p. m.—Dance concert by the Meyer Davis-New Arlington Hotel Orchestra, Jacques Renard, director

PROGRAM FOR KFSG—278 Meters

- Angelus Temple, Los Angeles**
 3:30 to 4:30 p. m.—Impromptu Gray Studio program. B. Earnest Ballard, G. N. Nichols, Blanche Clay and others
 7:30 to 9:30 p. m.—Auditorium service. Testimonies of healing in answer to prayer. Sermon on Divine Healing by Aimee Seple McPherson. Special music.

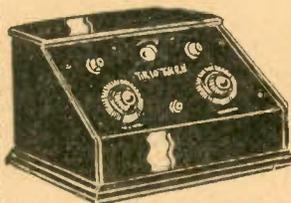
PROGRAM FOR KFOA—454 Meters

- Rhodes Department Store, Seattle**
 4 to 5:15 p. m.—The Times, Wm. F. Hoffman's Olympic Hotel Concert Orchestra
 6 to 6:45 p. m.—The Pacific States Electric Co. dinner hour concert by the Hoffmann Orchestra from the Olympic Hotel
 6:45 to 8:15 p. m.—Studio program by the Moran School for Boys
 8:30 to 10 p. m.—The Times program
 10 to 11 p. m.—Eddie Harkness and his orchestra playing from the Marine Room of the Olympic Hotel

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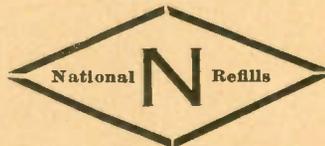
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 748-14th St. San Francisco, Cal.

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THE VOICE OF THE LISTENER-IN

(Continued from Page 17)

But when I explained that I was not alluding to them, but to some bloomin' idiot somewhere between here and New York, and handed them the ear phones that they might hear the concert, they thought that my remarks were fully justified and I think that my brother fans will agree with them.

Very sincerely yours,

NORMAN S. FROST.

Santa Barbara, April 11, 1925.

Mr. A. H. Halloran,
Radiocast Weekly,
San Francisco, Calif.

Dear Sir:

I have read with interest the many letters that you have received regarding KPO being on the air constantly and think that this enterprising station should be heartily commended rather than criticized. Their programs are always interesting and always good, and it is with particular enjoyment that I tune in on KPO and hear the strains of the wonderful organ with Theodore Irwin at the console.

In Santa Barbara we have no local radiocasting station and are in between Los Angeles and San Francisco, so that we receive the programs from both cities with equal power. I have no trouble in selecting any of your larger stations, but there are so many stations on wavelengths from 200 to 290 meters that when KFSG is on I have quite a time getting KFRC clearly, and the preaching of Evangelist Aimee McPherson with a jazz accompaniment is a little out of the ordinary.

Last night I had a delightful concert from Calgary after KPO was through and it came in clearly on the loud speaker, but I think I would have preferred KPO. After one has had a radio for some time they lose their eagerness for DX and are perfectly contented to listen to the stations we have on the Coast, as there are none better.

Best wishes.

Very truly yours,

W. V. LANSING.

Edgerly Court,
Santa Barbara.

RADIO, M. D.

(Continued From Page 33)

steamer within ready reach of New York, seeking medical aid.

One more obstacle still confronted the service, and that was the question of radio range. The radio transmitter at the institute was not powerful enough to reach ships at any considerable distance from New York, so that in many cases it became necessary to relay the messages. The medical service had grown all the while and increased its scope of usefulness, but the Seamen's Church Institute did not possess the funds nor the equipment to carry on the work which had reached such vast proportions.

At this stage in the development of the radio medical service, the matter was brought to the attention of the Radio Corporation of America. The organization, fully aware of the far-reaching importance of the radio medical service and the necessity for extending this humane and worthy cause, immediately donated the use of its stations free of charge, and instructed its operators to be constantly on the watch for calls for medical aid. Thus the radio medical service passed out of the narrow confines of the little transmitter of the Seamen's Church Institute and became available through a large network of coastal radio telegraph stations. Since that time the R. C. A., in co-operation with the U. S. Public Health Hospital at New York and other ports, has been handling this radio medical service.

The Service Becomes International

The service, in the course of its rapid expansion, has taken on an international aspect. On June 7, 1923, it was learned that the Norsk Marconi Kompani of Christiania, Norway, would give free medical service to ships of any nationality through its stations in Norway and Sweden. So, the germ of an idea by Captain Huntington, developed and perpetuated by the personnel and equipment of the R. C. A., has spread to all parts of the globe and now any ship seeking medical aid is promptly served, merely in the interest of humanity.

The Chatham Coastal Station, the most powerful of its kind in the world, with the call letters WIM, listens for calls for medical service in the Boston vicinity. WIM is so powerful that it often handles medical service messages from all parts



Cunningham RADIO TUBES

We can now supply you with the complete line of Cunningham Radio Tubes—backed by the usual service—orders in at 5 out the same night. Now you can get all your tubes from one source, each tube tested before delivery to you. The Cunningham trademark and our own insure tube dependability.

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San Francisco

of the Atlantic, from close to Europe down to the Gulf of Mexico.

Radio medical service for the North Atlantic and North Pacific is handled by the high powered stations, but in the Caribbean Sea and adjacent waters, the United Fruit Company has inaugurated a free service through its splendid hospitals established in tropical America.

Curing Them By Radio

As you gaze at the sky it seems incredible that through the apparently empty air this merciful work is quietly functioning all the while. Indeed, side by side with the radio waves that bring radio programs into your home, there are the waves bearing the staccato dot dash message of ship-to-shore traffic, some of which is devoted to the radio medical service. Countless radiograms bear witness to cures by stating at the close of the case, "Patient all O. K., normal yesterday, and today no symptoms of any kind; many thanks."

More than one operation has been performed by the ship's crew, working under the direction of a surgeon many many miles away. In such instances the surgical instruments have been of an improvised nature—kitchen knives, ordinary scissors, pieces of wood, and so on—but always quite in keeping with the lay hands that wielded them. Still, such long-range surgery has accomplished wonders. Surgical cases, as acute appendicitis, must be caught in the nick of time lest they prove fatal. In their incipency, lay methods will work greater wonders than the efforts of the foremost surgeons when the case had advanced to the fatal stage. Hence radio operations have been the means of saving many a life which would otherwise have had to be forfeited for lack of early surgical care. Radio operations have often provided temporary relief until the ship could make port.

Once the U. S. liner "America" picked up a stray message from a lone freighter stating that nineteen members of its crew were suffering from a painful malady. Only the vaguest details were forthcoming, as would be expected from laymen. The vessels at the time were some 300 miles apart—obviously a case of long-range diagnosis. Putting their heads together and working on the meagre details, Drs. C. F. Leidy and Hislop diagnosed the ailment as ptomaine poisoning. For two days the men of the

freighter were treated by radio instruction. Then this message came back to the "America": "Your directions followed. All but six now on duty. They are recovering fast. Thanks and God bless you. Bon voyage."

At another time another freighter called to the "America," stating that a member of its crew was in dreadful agony. The doctor then aboard the "America" studied the case by means of the meagre data supplied, and then prescribed by radio. The following day a message was received from an Italian steamer some 300 miles away in an entirely different direction, stating, "Many thanks to SS. 'America.' We had sick member of crew suffering from similar ailment. Prescribed same as directed for other steamer. Our patient recovering. God bless you." So, what was intended for a specific case also came in handy for another. In this particular instance the radio medical service of the "America" had been truly radio-casted.

When the Stork Visits the Sea

And sea babies! The stork does not always select his visits in keeping with carefully laid plans. Sometimes he insists on paying a visit aboard a ship—even a ship without medical aid at hand. Here again the radio medical service supplies the necessary expert direction, while lay hands do the work.

Serious mistakes have been prevented in many instances as evidenced by such radiograms as these:

Marine Hospital,
New York.

We have seaman with crushed hand in great pain. Only available relief spirits of chloroform. Please advise how to use and means of dressing hand.

Master SS. Comber.

The unfortunate seaman had much cause for gratitude, as the response from land read:

Master SS. Comber,

Do not use chloroform. Clean hand thoroughly and apply iodine if you have it. If no iodine use water and apply heat in form of hot water bag or towel.

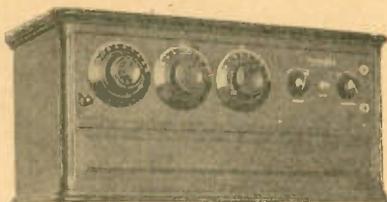
Medical Service, N. Y. C.

Often the hospital's advice will be: "Take patient to nearest port as soon as possible. Arrange by radio to have ambulance meet your ship on arrival." Indeed, by the time the patient arrives at the hospital, the doctor is already

See It Here!

In all the large stock of fine quality, moderate priced radio merchandise that we carry, there is no one item that more clearly typifies our policy of the "best in radio" than the RADIOGRAPH II Receiving Set.

This is a set that will give you everything you can expect in radio performance—a set whose good looks will be a constant source of pride.



Drop in today, or tonight, and witness the performance of this 5-Tube Tuned Frequency Set—built along new principles. Schenectady, N. Y., Honolulu, Havana, Mexico City—these are some of the distant stations it can bring in for you with Loud Speaker volume!

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familiar with his case, so that no time is lost in bringing him back to health.

Versatile Radio

In the radio medical service we have but another instance of the versatility of radio and its vast capacity for service. The public at large is too apt to consider radio only in terms of radiocasting which after all, is mostly entertainment. But in the radio world, the radiocasting phase is of minor importance only, when considered side by side with commercial radio traffic.

There is hardly a steamer today that is not provided with a radio transmitter and receiver. Even the lumbering freighter carries a radio set. Powerful land stations both in this country and abroad maintain communication with ships at sea. Communication with Atlantic shipping is carried on at Chatham, Mass., through the medium of high-power units. New developments in the sending and receiving equipment now permit this station to transmit simultaneously to three different ships at sea, while at the same time five special receiving sets connected with antennae two miles in length are intercepting signals from five different ships. The Chatham station, serving as a marine radio center, is linked with the Boston and New York offices of the Radio Corporation of America by private telegraph wires.

In all, there are seventy-six stations engaged in ship-to-shore radio throughout the world. The most powerful land station for ship-to-shore communication is the Oxford-Radio in England, with a range of 2000 miles. Our own Chatham station has a normal range of 1500 miles—nautical miles, of course. The Radio Corporation of America station known as New York also has a range of 1500 miles, and the same applies to the San Francisco and Tuckerton stations. Such a range means that these stations handle messages four or five days before arrival or after departure from port.

Then there is the trans-oceanic radio. Invisible radio circuits link the United States with Great Britain, France, Germany, Norway, Sweden, Italy, Poland and Argentina. Approximately 20 to 30 per cent of the total number of telegraph messages exchanged daily between the United States and Europe flows through these radio channels, the remaining 70 to 80 per cent being handled

by the seventeen cables on the floor of the Atlantic Ocean. An important asset possessed by radio is its ability to transmit messages at high speeds. It has been found practicable to send and receive more than 100 words per minute, such speeds being attained in ordinary operation. By the use of two transmitting stations a message of 5000 words, for instance, can be divided into two parts and thus transmitted in one-half the time required by a single station. It is reasonable to expect that these speeds will materially increase with the development of the radio art until that day, in the near future, when we shall flash radiograms across the oceans at speeds as high as 1000 words per minute. And of course, the practical significance of high speed is lower rates.

Medical service to ships at sea, radio entertainment, ship-to-shore communication, flashing photographs and drawings through space, trans-oceanic communication—surely, the wonders of radio never cease.

THE LOUD SPEAKER

(Continued from Page 7)

there be "Rolling-Down-to-Rio Day." There are enough pieces to use up the entire 365 days of the year, so that there would be no overlaps. And if any of these composers like Liszt or Beethoven or Bach want to get their pieces played, let them get bookings ahead, as in the theatrical business.

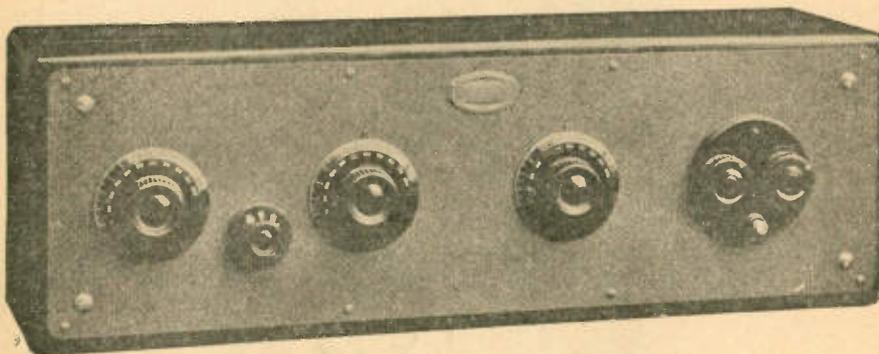
* * *

Once there was a man who tried to be a whole band. He worked a drum with his feet, a harmonica with his mouth, cymbals with his elbows, a fiddle with his hands, and guitar with apick tied to his knee. When he broke loose nineteen cafes and twelve theatres fired their orchestras and offered him contracts. He committed suicide because he couldn't accept 'em all.

* * *

If he had only waited a few years some super-super-super radiocasting station, bigger than all the rest, would have offered him a national job. Think what he would have earned with the world's music piled in front of him, 365 days a year on which to play, and no competition! And think how we would enjoy listening to him—the same piece, any place on the dial we tuned him in—just like it is today!

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Autumn Radio Conference Probable

Secretary Hoover will probably call another national radio conference this fall, in continuation of his policy to hold conferences annually. The definite plans and date are as yet undecided, but it is believed that invitations will go out calling the sessions in Washington in November, certainly before Congress reassembles.

Results secured at the three past conferences have been so valuable to the Secretary of Commerce that he is disposed to refer all questions involving the different elements of the radio industry and art to a representative assembly of all interests from the manufacturing and commercial concerns to the amateurs and listeners. In other words, lacking specific authority by law to regulate some phases of radio, Hoover is anxious to have a sort of referendum and sound out the situation before he acts. Only through the co-operation promised and given at past conferences has Secretary Hoover been able to keep peace in radio-land.

All interests will be represented and

it is probable that among the subjects discussed will be necessary Congressional legislation to bring the old 1913 radio law up to date, so that authority for assigning wavelengths and power to stations may be secured. Limiting the number of stations in a certain class will also be brought up, as will international radiocasting and amateur regulations when such stations transmit outside the limits of the country. High-power radiocasting, shortwave emissions, world-wide ship regulation and many other angles of radio development will be considered. The question of separate wave channels for international radio-phone communication, transmission of pictures by radio, and the possibility of extending the radiocast band in the United States are also scheduled for investigation.

It will be beneficial to have the general attitude of the American radio interests known before the meeting of the foreign representatives here next spring at the international radio conference.

PARIS CONFERENCE SEPTEMBER 1

The International Telegraph Convention scheduled for Paris in May has been definitely postponed until September 1st, according to advices reaching Washington. As it is believed this parley will require at least a month's time, following which delegates will have to return to their countries to report and for further instructions, the International Radio Conference here will probably not be called until after the first of the year. It is probable that the date will be approximately a year from now; in March or April, 1926.

It is understood that the Government of the United States will be represented at the telegraph conference by officials of the State, War, Navy and Commerce Departments and that probably each of the private American commercial communication systems will also send experts. Cable, telegraph and telephone interests are certain to journey to France and in view of the practical certainty of radio being involved along with other types of communications in the discus-

sions, it is very likely that radio services here will also be represented.

Following the usual procedure of such international conferences it is said that each government will draw up a set of suggestions as to the questions to be discussed in Paris, submitting them previously to the central bureau at Berne. The bureau at Berne will compile the suggestions into a tentative agenda.

The Inter-departmental Radio Advisory Committee at Washington is working on a revision of the proposed Government radio policy which will soon be submitted to the State Department for approval, following which it will probably serve as an outline of the American program to be discussed at both conferences.

DEMAND IS FOR QUALITY

When radiocasting first became popular the person listening in was thrilled upon recognizing sounds as music or as someone was speaking. This listener in was generally, at that time, an amateur radio telegraph operator, as no one yet had purchased apparatus to

listen to the experiments being conducted by one of two prominent radio experts. In fact the radio amateur may be said to be the one who sold radio radiocasting to the public, for the average person usually wants to have a demonstration before he invests money in a new idea.

Since that day many changes have taken place. The public has become a large body of critics and the big station of today, to court favor, must produce the goods. The radio listener of today, generally a man, woman or child without any knowledge of the radio code, and probably not much interest in it at that, sits back and carefully compares the quality of the different stations within reach of his apparatus. The average person has now become quite well acquainted with needed apparatus and how to operate it to get best results.

It is needless to say that the period of wonderment has passed and the one who listens in realizes that the quality of music and talent from the original radiocasting station could be very much improved.

Radio will be a part of every household for the same reason that the phono-

graph became successful. People want music and instead of going to the music, it is now brought to them. From the present viewpoint, there is yet no limit to what radio may be called upon to do.

RADIOCAST CHANGES FEW

Despite protests that a great number of changes in the wavelengths of Class B radiocasting stations have been made recently, the Department of Commerce announces to the contrary that only 16 stations have changed wavelengths, explaining that five shifts were necessary to clear certain channels. Out of the 91 radiocasting stations in Class B today, 46 have never changed their wavelength allocations, made immediately after the radio conference last October.

The congestion in the ether today and the interference experienced is undoubtedly largely due to the 29 new B stations which have gone on the air since the conference. These 91 stations are all operating on 47 channels, nearly all of them doubling up; that is, sharing a single wavelength.

A Profit-Making Suggestion for the Radio Dealer

Give your business to the radio jobbing organization.

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| (1) That carries high quality tested radio merchandise. | (4) That gives merchandising help through its salesmen, and mechanical service through properly trained service men. |
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Having once given your business to such a house—buy there regularly. Such a policy will be of mutual benefit.

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PHONOGRAPH MUSIC DIRECTORS SET NEW RADIOCASTING STANDARDS

The radiocasting of music has grown like Topsy. In the case of a single artist it has been comparatively easy to indicate a definite position before the microphone and one which is likely to secure the best results. But where several artists are concerned or there are a number of musicians, as in an orchestra, the problem has become more and more complicated, and in the rapid development of radiocasting has been one which has not had as much attention in the past as it unquestionably will have in the future.

However, it was not new to the phonograph people, for in the making of records they have been experimenting for years in the proper placing of the instruments. An orchestra forming in a radiocasting studio as a rule looks like an orchestra playing any place else, but in a phonograph recording laboratory, it is a most unusual sight.

The man playing the 'cello may be on a chair with legs so long that the player's head almost touches the ceiling. On the other hand, the tuba player may almost be sitting on the floor. Sometimes the music racks are suspended from the ceiling; again they are giraffe-like affairs rising from the floor.

Noting the very superior quality of reception of both the Brunswick and Victor programs, the writer of this column, who has had the opportunity of observing the making of phonograph records, wrote to N. Shilkret, a musical director of the Victor Company, suggesting that the special placing of instruments must have had something to do with it.

Mr. Shilkret replied as follows:

"Your observations concerning the special grouping of the various instruments for clear effects are correct. I experimented for many hours with both the orchestration and the special placing of instruments, just as we do at recording dates. Recording, or record making, sharpens the ear to a supersensitive degree and I found that training of unusual value in radiocasting."

Therefore, whether the phonograph people decide to remain in the radiocasting field, or whether they retire and leave it to the radio pioneers, it remains that their musical directors have set new

high musical radiocasting standards notwithstanding the fact the programs have necessarily been more or less of popular music.

Everyone will recall how wonderfully the reproduction of the violin, 'cello, and other orchestra instruments have been perfected in phonograph records—and even the day when it was next to impossible to successfully record a woman's voice. Yet this has all been brought to a marvelous state of perfection. Just so radio reception and reproduction of musical instruments has gone through the same development.

It is only natural then that the phonograph musical directors should achieve such unusual results when, for the time at least, they went into the radiocasting business.

RADIO "JAZZ" DECLARED ON WANE WITH BETTER MUSIC IN DEMAND

Public reaction has developed against the cheaper type of music from radiocasting stations, which portends valuable use for the radio in cultivating popular demand for the best types of music, William Arms Fisher of Boston told the Music Supervisors' National Conference recent meeting at Kansas City.

He said that a questionnaire sent to 60 managers of radiocasting stations found some doubtful as to the decline in popularity of "jazz" music, but that double the number of doubters reported definite opinions that "jazz" is on the wane.

Constant improvement in the music used by radio stations and motion picture houses was reported by Mr. Fisher and also by Mrs. Marx E. Oberdorfer of Chicago.

Mr. Fisher explained:

"As the novelty wears off, listeners will become more interested in the character of what comes over the radio. The managers of too many radiocasting stations seem to act on the assumption that only what is cheap and tawdry will interest the public. As a consequence radio programs have been too much concerned with attempts at song 'hits.'

Public Taste Bettered

"But these manufactured efforts at popular music have not been so well liked as many have imagined. The effect on the public has been singular.

When radiocasting of the cheap popular music gained headway, publishers of that type of music complained that their sales were falling off. This was attributed to the influence of the radio. But publishers of the better grade of music report sales have been encouraged. What seems to be happening is that the public is reacting against the cheaper kind of music, with which it has been surfeited.

"The character of radio music must be improved. There is a question as to the ability of many stations to employ high-class artists, but less use can be made of amateurs who desire a chance to advertise. There is evidence that classical music is desired by large numbers of listeners. Also, there is a preference for instrumental music over the radio, and for group rather than solo numbers in vocal music."

QUIZ FOR RADIO ELECTRICIANS

A competitive examination for the appointment of enlisted men to the new grade of radio electrician in the Navy will be held next October.

An advance date has been set, so that applicants will have plenty of time to prepare. The preliminary examination will be held by commanding officers so as to permit reports to reach the Bureau of Navigation about the middle of September. Applications received subsequent to that time will not be considered.

It is emphasized that applications must be made on form N. NAV. 334 and must be accompanied by a transcript of the candidate's current service record. Detailed information as to the examination is contained in the Bureau of Navigation circular letter No. 15-25, issued by the Navy Department at Washington.

**UNDERGROUND RADIOCASTING
MIGHT DO THE TRICK**

Secretary Hoover is watching with interest the experiments of Dr. J. Harris Rogers, who recently claimed to have sent signals through the earth from Hyattsville, Maryland, which were distinctly heard in Los Angeles. If these signals do not conflict with signals above the earth, Mr. Hoover believes this may point to a way for relieving the present congestion of the air channels.



A Radio Library for \$5.00

Five publications at a saving of \$1.45 if purchased in one group. You need all of these books. The offer makes it easy for you to get them.

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All five for \$5.00

Only one set to a customer. This offer good only during April.

Sent postpaid anywhere.

Pacific Radio Pub. Co.
Pacific Bldg. San Francisco



OCEAN RADIO DISCIPLINE VASTLY IMPROVED SINCE TITANIC SANK

Worthy of thought on the thirteenth anniversary of the sinking of the Titanic is the progress made since then in the regulation of the use of radio at a time of disaster. Wireless was new in those days. People were unaccustomed to getting the news so quickly.

They were dazed and stunned by the wireless flash that the Titanic, the costliest, most powerful, and greatest of all ocean liners had hit an iceberg off Newfoundland. And that on her maiden voyage she had been sunk in water two miles deep with a loss of 1500 lives, including such notables as Col. John Jacob Astor, Major Archie Butt, President Taft's military aide, Mr. and Mrs. Isador Strauss, Henry B. Harris, and others. For almost an entire day they didn't seem to be able to realize that it was true.

That great confusion subsequently resulted from the jamming of the air with wireless messages in a frantic effort to get more news is evident from a dispatch of that day, which reads:

"It was practically impossible to get any reliable information by wireless because of the great number of wireless concerns breaking into the field and because of the work of amateur operators. It appears the disaster of the Titanic had no sooner been flashed over the seas than about every wireless instrument along the coast within range began operations sending and receiving with no thought of others, and so the net result soon became a hopeless jumble, from which distorted and inaccurate messages were patched up in haphazard fashion and announced to the anxious world.

"It is believed this chaos was responsible for the messages that the Titanic was en route for Halifax under her own steam at 6 o'clock at night when, as a matter of fact, the vessel had been sixteen hours at the bottom of the sea. This same chaos is held responsible for the reports that passengers were being calmly taken off the ship in the afternoon, when the ship really went down at 2 o'clock in the morning."

At that, due to wireless aid, as crude as it was at that time, upwards of 700 lives were saved. Two definite things came from the sinking of the Titanic. First, radio discipline and governmental

control at a time of maritime disaster, and second, the formation of an international ice patrol, resulting in the systematic guarding against the danger of floating ice along the great trans-Atlantic ship lanes.

MRS. COOLIDGE LISTENS IN

All sorts of conjectures have been made as to Mrs. Coolidge's use of the radio. Some say that she is an enthusiastic fan and spends much time at the radio. Others say she hardly looks at it. An inquiry at the White House reveals the fact neither opinion is exactly correct, but that Mrs. Coolidge enjoys her radio much the same as any other very busy person.

Mrs. Coolidge is so much engaged that necessarily she is a very irregular listener. Of course, if there is something of special interest going on she tries to hear it—as she did the night London came in. Otherwise, she listens when she gets a chance or feels the need of a little relaxation. Her radio set, by the way, is in the family apartment on the second floor of the White House and always accessible when desired.

CATCHING THIEVES BY RADIO

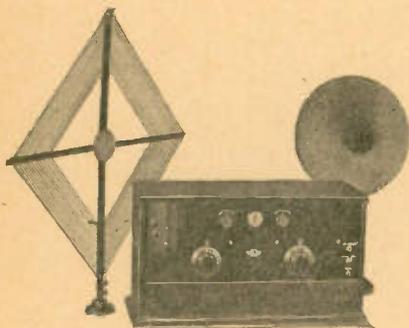
German ingenuity has brought forward a device which might best be described as a radio thief catcher. In reality it is an electrically wired gateway which is designed to be placed at the exit of factories and mines.

A gate keeper with a pair of head phones listens as every workman passes out through the gateway. The electrical discharge is so adjusted that whenever an extra amount of metal is brought through the gate a sharp singing noise is heard in the head phones. This can be so adjusted that the presence of small metal coins or a pocket knife would not be noticed, but other metals concealed about any workman over and above these indispensables would be immediately detected. This is supposed to stop the theft of precious metals or tools by employees of large establishments.

AMATEURS AND BEAM TESTS

The official order of the Department of Commerce authorizing the amateurs to use the wave channels between 7 and .7477 meters, permits experimental work in "beam transmission."

Tune In Yourself —



(built to order)

with this new 8-tube super-heterodyne and test it—for

**VOLUME
SELECTIVITY
CLARITY and
DISTANCE**

in your own home. and then,
AND ONLY THEN, will you
know what it means to own one
of these remarkable receivers.

Installed in your home
ready for use. Absolutely
nothing else to buy. **\$147.50**

Baldwin-Pacific Super-Het Parts Used in this Set

McLaughlin One Control Super-Heterodyne

(built to order)

\$173.00 Complete
Including Cabinet, Tubes, A, B and
C Batteries and Aerial.

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THE RADIO DEN

130 Clement Street

San Francisco

Pacific 4810

International Radiocasting Service

London, Paris, and Even Buenos Aires and Stations in the Orient May Be Joined in Regular Program Service if Present Series of Experiments Show Technical Obstacles Can Be Overcome

The series of concerts from London successfully radiocast recently to millions of radio listeners in the United States, it is announced by the Radio Corporation of America, marks the inauguration of a series of great public experiments that may bring London, Paris, and even Buenos Aires and the Far East to millions of radio equipped homes in America. Remarkable progress, it is declared, has been made of recent weeks towards the technical solution of the problems involved.

"For some time," it is explained in a statement issued by officials of the Radio Corporation, "private tests have been conducted by the Radio Corporation of America in co-operation with leading radio engineers of the Marconi Wireless Telegraph Company and the British Broadcasting Company, to determine the practicability of radiocasting a regular musical and entertainment program to the American public across the 3000 miles of Atlantic Ocean.

"So striking were the results attained in such favorably situated receiving points as Belfast, Maine, and in other experimental receiving stations of the Radio Corporation of America, that it was determined to open these experiments to the American public, so that results might be noted under varying conditions of reception and within the widest possible range.

"Recent developments in high-power transmission as well as the extraordinary progress made in the radio reception explained the unusual results attained. Nevertheless the difficulties of transoceanic reception are not to be underestimated.

"The public is participating in a series of laboratory tests given upon an unprecedented scale. The experimental conditions, which radio scientists on both sides of the Atlantic have fixed upon for this series of tests, may sometimes lead to disappointing results, neverthe-

less fixed technical and scientific conditions will have to be followed.

"It may be also, that from time to time during the spring and summer months, experiments will have to cease entirely because of storms or other interruptions that will not permit the demonstrations to be made under the conditions determined upon.

"This much can be said, however, upon the basis of the present demonstrations: Enough progress has been made to warrant the statement that we are now entering upon an era of international radiocasting which, eventually, will bring the entertainment, music and speech of other continents to every home in America."

When the technical conditions for the reception and distribution of foreign radio programs in the United States have been confirmed by the present tests, it is declared, the Radio Corporation probably will undertake a national referendum of radio listeners to determine the type of radio program desired here from foreign shores.

Great interest has been expressed abroad in the American plans, it is stated and radiocast stations as far off as Australia have indicated the desire to inaugurate special programs for America as soon as reception facilities are perfected.

THE FIRST RADIO BUG

If you want to know who was the first radio bug you should go back before the Grand Canyon was dug, to ages before the big flood and old Noah, and there get acquainted with the first Protozoa.

Swimming the sea, independent and free.
Buried in mud so that no one could see,
Billions of little radiolaria
Started the craze of this new malaria.

KGU, operated by the Honolulu Advertiser, at Honolulu, has increased its power to 500 watts on 270 meter wavelength. The initial program of the new station will be on the air at 10:30 p. m., Friday, Pacific time.

Balkite "B"

gives results

unattainable with "B" batteries



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

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

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

ates by merely turning on the light socket.

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

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



BALKITE BATTERY CHARGER

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

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

FANSTEEL Radio Balkite Power Units

BALKITE BATTERY CHARGER — BALKITE "B" PLATE CURRENT SUPPLY

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324 N. San Pedro St.

Portland
H. A. KILLAM
146½ N. 10th

Manufactured by FANSTEEL PRODUCTS COMPANY, Inc., North Chicago, Illinois

Radiocast Station Directory

Call	Meters	Location and Owner	Power	Call	Meters	Location and Owner	Power
CFAC	430	Calgary Herald, Canada	650	KWG	361	Portable Wireless Tel. Co., Stockton	50
CFCN	430	W. W. Grant, Calgary	1500	KYW	535	Westinghouse Elec. & Mfg. Co., Chicago	1500
CFCT	330	Fletcher Bros., Victoria	500	KZM	242	West. Radio Institute	50
CHBC	430	Albertan Bus. Co., Calgary	1000	PWX	400	Int. T. & T. Co., Havana	500
CJCA	517	Journal, Edmonton, Can.	500	WBAP	476	Star-Telegram, Ft. Worth	500
CKCD	411	Daily Province, Vancouver	2000	WCCO	416	Washburn-Crosby Co., Minneapolis, Minn.	500
CKCK	312	Leader Pub. Co., Regina	500	WCX	517	Free Press, Detroit	500
CKCX	430	W. W. Grant, Calgary	500	WDAF	366	Kansas City Star	500
CNRC	430	Nat. Rys., Calgary, Can.	1500	WEAF	492	Am. T. & T. Co., New York	500
CNRE	513	Nat. Rys., Edmonton, Can.	1000	WEBH	370	Edgewater Hotel, Chicago	1000
CNRR	420	Nat. Rys., Regina, Can.	1000	WFAA	476	Dallas News	500
CNRW	384	Nat. Rys., Winnipeg, Can.	1000	WGBS	316	Gimbel Bros, New York	1000
CYL	500	El Universal, Mexico City	500	WGN	370	Chicago Tribune	500
KDKA	309	Westinghouse, E. Pittsburg	1000	WGY	380	General Electric Co., Schenectady, N. Y.	1000
KDPT	244	Southern Elec., San Diego	50	WHAZ	380	Rensselaer Inst., Troy, N. Y.	1000
KDYL	246	Newhouse Hotel, Salt Lake	50	WHB	366	Sweeney Auto School, Kansas City, Mo.	500
KDZB	240	T. Selfert, Bakersfield	100	WIP	509	Gimbel Bros., Philadelphia	500
KFAE	349	State College, Pullman	500	WLS	345	Sears, Roebuck, Chicago	500
KFAU	275	Public Schools, Boise, Ida.	500	WLW	423	Crosley Co., Cincinnati	1000
KFBE	216	Horn & Wilson, San Luis Obispo	50	WMAQ	448	Chicago Daily News	500
KFEC	248	Meier & Frank, Portland	50	WOAI	394	Southern Equipment Co., San Antonio, Texas	500
KFFR	226	Sparks High School, Reno	100	WOAW	526	W. O. W., Omaha, Neb.	500
KFHJ	361	Fallon Co., Sta. Barbara	100	WOC	484	Palmer School of Chiro- practic, Davenport, Ia.	1500
KFHR	263	Star Elec. Co., Seattle	50	WOS	441	State Marketing Bureau, Jefferson City, Mo.	500
KFI	467	E. C. Anthony, Inc., L. A.	1500	WOR	405	L. Bamberger, Newark,	500
KFIQ	256	M. E. Church, Yakima, Wn.	50	WQJ	448	Chalmet Baking Powder Co., Chicago	500
KFKX	288	Westinghouse Elec. & Mfg. Co., Hastings, Neb.	1500	WREO	286	Reo Motor Co., Lansing	500
KFNV	227	Drake Radio, Santa Rosa	5	WSB	428	Journal, Atlanta, Ga.	500
KFOA	454	Rhodes Co., Seattle	500	WTAM	389	Willard Storage Battery Co., Cleveland, O.	1500
KFON	232	Echophone Radio, Long Beach, Cal.	250	WWJ	353	Detroit Evening News	500
KFPT	261	Cope & Johnson, Salt Lake City	250	XICE	400	State Government, Chihuahua, Mexico	250
KFQU	234	Holy City, Cal.	100				
KFRC	268	City of Paris, S. F.	50				
KFRP	211	Trinity Episcopal Church, Redlands, Cal.	10				
KFRU	395	Etherical Radio Co., Bristow, Okla.	500				
KFSG	278	Angelus Temple, L. A.	500				
KFUR	224	Ogden, Ut., Peery's Theatre	50				
KFUS	235	Sherman School, Oakland	50				
KFUU	224	Colburn Radio, San Leandro	50				
KFWA	261	Ogden, Browning Bros.	500				
KFWB	252	Warner Bros, Hollywood	500				
KGB	250	Dally Ledger, Tacoma	50				
KGO	361	General Elec. Co. Oakland	2000				
KGW	491	Oregonian, Portland	500				
KGY	246	St. Martin's College, Lacy, Wash.	10				
KHJ	405	Times, Los Angeles	500				
KHQ	273	L. Wasmer, Seattle	100				
KJBS	234	Julius Brunton & Sons Co., San Francisco	5				
KJR	384	Northwest Radio Service Co., Seattle	1000				
KJS	394	Bible Inst., Los Angeles	750				
KLS	242	Warner Bros., Oakland	250				
KLX	508	Tribuna, Oakland	500				
KLZ	266	Reynolds Radio Co., Denver	250				
KMO	250	Love Elec. Co., Tacoma	10				
KNX	337	L. A. Express, Hollywood	500				
KOA	323	General Elec. Co., Denver	1500				
KOB	349	State College, N. Mex.	750				
KPO	428	Hale Bros. Inc., S. F.	500				
KPPC	229	Pasadena Pres. Church	50				
KRE	259	Gazette, Berkeley	100				
KSD	545	Post-Dispatch, St. Louis	500				
KSL	300	Salt Lake, Cope & Johnston	1000				
KTHS	375	New Arlington Hotel, Hot Springs, Ark.	500				
KTW	454	First Presbyterian Church, Seattle, Wash.	750				

HOW TO REACH RADIOCASTERS BY TELEPHONE

KFRC—Radioart Corporation
Hemlock 3200

KJBS—Willard Battery Station
Graystone 356

KFUU—Colburn Radio Lab.
San Leandro 605

KGO—General Electric Company
Fruitvale 5980

KLS—Warner Brothers
Lakeside 6223

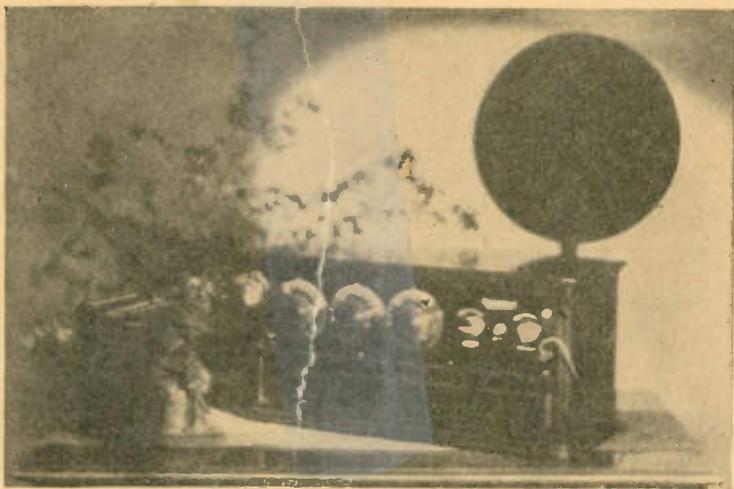
KLX—Oakland Tribune
Lakeside 6000
After 9:00 p. m., Lakeside 6015

KPO—Hale Brothers
Kearny 5777 or Sutter 5600

KRE—Berkeley Gazette
Berkeley 9300

KZM—Western Radio Institute
Lakeside 100

RADIOGRAPH II



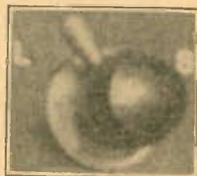
2,000 Miles Away.... Schubert's Serenade

is being played at KYW, Chicago . . . the silvery notes from the piano tumble into your home in a cascade of harmony . . . close your eyes and the player might be in the next room, so clear, so loud, and so exact in tone and phrasing in every note from the loud speaker.

The marvel of the RADIOGRAPH II—built on a new principle of construction—is that every kind of music or entertainment is reproduced with equal faithfulness, whether the station be thousands of miles away or close at hand.

And the performance of the RADIOGRAPH II is matched by the beauty of the instrument itself!

Visit your local dealer. Let him demonstrate it. Convince yourself this is the set you must have. Price (without accessories) \$150.



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

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The Exclusive Antenna Switch of RADIOGRAPH II enables you to "broaden" or "sharpen" the field of reception, getting the increased selectivity or strength necessary to bring in a station clearly.

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They Cost More . . . But They DO MORE!

Listenwalter & Gough, Inc.,
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Gentlemen:

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

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

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

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

Sincerely,

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

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