

Radiocast 5¢ Weekly



FOR WEEK OF
January 3rd
TO
January 9th

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

**Largest not paid circulation of any
Pacific Coast Radio magazine**

***The Most Complete and Reliable Schedules and Programs
of Pacific Coast Broadcast Stations***

The FARRAND Cone SPEAKER stands out as the greatest improve- ment in radio for 1925.

*It reproduces perfectly
every note which can be
heard by the human ear*

Buy on EARSAY not HEARSAY

No special attachments necessary

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San Francisco

The Trade Publishing Co.



619 California Street, S. F.

RADIOCAST WEEKLY

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Radio for 1926

UPON looking forward to radio developments during 1926 it is possible to foresee a year of improvements and refinements without any radical changes in the art. The industry will gradually assume the stability whose tendency first became evident during 1925 and there is prospect of lower prices made possible by quantity production of standard equipment.

Before the year closes we expect to hear of widespread amateur experimental reception from the radio picture transmitting stations which are contemplated by several commercial interests. Eventually moving picture reception in the home will supplement radio telephone reception as a means of entertainment and instruction.

Many of the large radiocast stations have ambitious plans for improved programs. Those stations operated by radio manufacturing companies realize that future sales are dependent upon good programs and the toll stations recognize that present listeners likewise will be attracted by the best talent.

Nor will all these programs be so closely confined to music and entertainment as in the past. For radio is already passing from the stage as a mere entertainer and beginning to assume its greater role as an educator. Just as the automobile had its beginning as a sport and later entered in-

dustry as an economical means of transportation, so is radio destined to fill a great need in the cultured life of the people.

This feature should make the small station, serving a locality rather than a region, of real service to its community. So instead of trying to compete with the larger stations by means of mediocre talent on similar programs, it will develop along more individual and original lines.

Several Eastern stations are successfully conducting courses in history, literature and other cultural subjects that appeal to those whose schooling has been necessarily limited. Interesting lectures could be given by many high school teachers in places where there are no colleges to supply speakers. During 1926 the small station will undoubtedly find a real and permanent place in service to its listeners.

The apparent tendency on the part of the great majority to purchase ready made sets instead of "rolling their own" will probably become more pronounced. But there will still remain a large number who prefer to derive the double pleasure of manifesting their own skill in handiwork as a preliminary to enjoying the programs.

Consequently, the Happy New Year that we wish our readers is assumed "radioly." May your quality improve and your distance never grow less!



Model A \$18.00

Music Mirror--Beauty and Tone

This beautiful and clever loud-speaker makes a console out your cabinet set. Its sweet and clear tones carry out the promise of its name. Solid mahogany and heavy plate glass; all that the name implies. Your dealer knows our guarantee.

Distributed by

W. E. & W. H. JACKSON

865 Mission Street, San Francisco, Calif.

PACIFIC COAST
REPRESENTATIVES

Baldwin-Pacific Co.

PACIFIC BLDG.
SAN FRANCISCO

Tell them that you saw it in Radiocast Weekly

The Loud Speaker

By Earle Ennio

YES, OUR worst forebodings, aerially given by Katie Abie, were exceeded. The new Christmas radios made our old set sound like a Hoo Hoo Concatenation. And the only justice in the case is that the new ones couldn't have sounded any better.

Unless the new owners learn to run their sets so that they don't radiate, it won't make any difference whether the stations shut down or not during the international radio tests. Every silent station will be nullified by ten thousand blatant bloopers.

So many people want to read what they heard about our radio Christmas ideas that we're hereby going to give them the chance.

The old slogan of peace on earth and good will toward men was originated long before radio. Today, the motto is: Less interference on earth and fewer and better A batteries. This year mother gave father a straight line condenser for Christmas and father worked off a loud speaker and a B eliminator on mother. The children chipped in with a rheostat or two, and baby sister got a choke coil. A good time was had by all, in 10,000,000 homes, connecting the antenna to the wrong binding post.

Well—we had a good year. We tried out all the fads just as fast as the manufacturer put them out. We bought all the new types, we put up all the fancy aerials, we worked out all the revised controls. Every time we saw something wound with green wire in a window we went in and bought it. Every time a salesman showed us something nickled and we couldn't figure out what it was, we tried one. We put

the elephant heel on the old pocketbook—but we had a good time.

It's taken us a whole year to find out that it doesn't make any difference what kind of a set the fellow next door has, or how many more stations he logs than we do, when a really worth while concert comes along, we are all brothers and sisters under the skin—all knob turners and dial twisters together. The owner of a Rolls Royce never speaks to the man in the Ford at Yosemite Valley. But in a service station, with a broken axle, the two get together like brothers. And so we've learned that a non-perking tube makes us a blood relation of every man with a wire over his roof, or a battery in his house.

Radio is just like other phases of life—what we make it. We are skunks on the air with no regard for the guy next door—or we are decent and pleasant to get along with. We either crab at the programs we get for nothing, grafting that for which we are too cheap to pay—or we do the decent thing, and let the artists know that what they did was not like so much home brew poured down a sink by a prohibition agent.

There are a lot of things about radio that gives us a pain. The advertising, the quackery, the slipping over of stuff that we don't want to hear in spite of federal prohibitions—these are the things that we will and shall someday clean up and clean up thoroughly. But in the main, we are satisfied with radio. It is a grand old institution if it is treated right. Shut down all of the radiocasting stations in the country for

(Continued on Page 15)

IT IS TRUE!



(NOT A
WAVE TRAP)

WOAI signal intensity of 11, on the audibility meter, jumped above 2000 with Penetrola—188 times as strong! WCAL signal intensity of 35 was scrambled with WCBD at 29. But with Penetrola WCAL went to 2000 plus, and WCBD to zero—selectivity with a vengeance!

Any Penetrola demonstration will show things like that on any set with any number or arrangement of stages. The wanted station is immensely intensified; interference is overwhelmed. So much volume is available for distance that a shorter aerial may be used. Your set is stopped from radiating, and is stabilized.

188 times the energy!

It is needless to approach oscillation. And dial readings stay substantially the same.

Principles known to be of immense promise, but hitherto elusive, are now successfully applied by Walbert Penetrola. The widely heralded Isosfarad Circuit, latest Walbert development, is the foundation of Penetrola—unduplicated in any way by anybody, because there is no other Isosfarad circuit. Nor is there any substitute for Penetrola action, which amplifies ahead of the detector, strengthening signals which would otherwise never be detected! Remember, signals too weak to detect cannot be amplified beyond the detector.

In a few moments any receiver, however costly, can be transformed with Penetrola. Or anyone can quickly assemble the Penetrola kit and obtain amazing Penetrola results most economically. The Penetrola price buys performance which cannot be obtained with any amount of investment in a receiver alone.

For the sensation of the
European tests note
Penetrola Reception!

Penetrola in Black Crystallite, \$35
for Instant Attachment.....

Penetrola Kit with Complete, \$15
Simple Instructions.....

State whether you wish Penetrola for outdoor aerial or for loop receiver

PENETROLA

WALBERT MANUFACTURING CO., 925-41 WRIGHTWOOD AVE., CHICAGO, ILL.

C. W. SMITH CO., 1125 WALL STREET, LOS ANGELES

FREDERICK C. TOMLINSON, 443 SAN PEDRO ST., LOS ANGELES

Questions and Answers

BY GERALD M. BEST

Questions not requiring diagrams will be answered without charge in these columns. For personal answer the charge is 25 cents for each question answered including diagrams.

Have an Atwater Kent No. 20 Receiver, and receive certain Eastern stations around 300 meters quite well, but cannot hear stations about 400 or 500 meters, in the same district. Would a Super-Het booster help matters, or what do you think is the trouble.

P. V., San Francisco, Calif.

Occasionally a set works much better at one particular wavelength than it does on any of the other wavebands, and it may be true in your case. I do not think the Super-Het booster would be much of a help, on your set, except to act as a wavetramp to cut out local interference. If you do not mind the extra control, it would be worth considering as an interference eliminator, and by its use you might hear other distant stations which are at present difficult to locate due to local stations.

My three tube Erla Reflex has 3 volt tubes. Will I get more volume if I install 6 volt tubes, or will one of the new 3 volt power tubes be best? I am one of those who want the most for the least money.

G. E. B., Santa Rosa, Calif.

Following out the idea in your last statement, the installation of a UX-120 power tube in the last audio stage, with 150 volts plate and 22½ volts C battery will enable you to obtain increased volume, with little additional expense and no change in apparatus other than the tube socket, which must be of the new UX type.

What is the best size antenna to use with my Model 20 Atwater Kent?

L. K. Mayview, Wash.

A flat top, single wire antenna, having a height of 50 feet and a length of 50 feet should be adequate. If the height is only 35 feet, then the length should be increased to 65 feet.

Please tell me why so many radiocasting stations operate on such low wavelengths, and so few on the higher waves? What is a kilocycle?

A. H. L. San Francisco, Calif.

Originally, the high powered stations were placed on the higher wavelengths, and only

one or two stations in the entire country were assigned to the same wave. The lower powered stations were assigned to the shorter waves, and more of them were allotted the same wave. In order to understand the reason for the close spacing of the stations at the lower wavelengths, and the greater separation at the longer waves, it is a good idea to explain the difference between wavelength and frequency. All radiocasting stations send out alternating current vibrations, ranging in number per second from 500,000 to 1,500,000, depending upon their frequency assignment. Electric waves travel through the ether at the rate of 300,000,000 meters per second, or about 186,000 miles, so that in the case of the station transmitting at the rate of 1,500,000 vibrations or cycles per second, at the end of the first second, there would be 1,500,000 separate waves or vibrations spread over a distance of 300,000,000 meters. Dividing the former figure into the latter, a figure of 200 is obtained, which is the length of each electric vibration in meters. Hence, we say that this station has a wavelength of 200 meters. In the case of the station sending out 500,000 vibrations per second, its wavelength is 600 meters.

A kilocycle is 1000 cycles, and the separation between stations is normally 10 kilocycles, or 10,000 cycles. At the lower end of the wavelength assignment of radiocasting stations, a difference of 10 kilocycles is only a few meters, whereas at the upper end of the wavelength scale, it is considerably more. If you have a radio set with air condensers of the conventional semi-circular plate type, a large change in frequency per scale division is noted at the lower end of the dial, and as the condenser capacity is increased, this change in frequency becomes less and less, thus producing the impression that most of the stations are crowded into a small space in the waveband, and that there are few stations at the upper end of the scale. Condensers of the straight line frequency type give a uniform change in frequency per scale division, and consequently spread out the settings for the shorter wave stations, and crowd together

(Continued on Page 9)

ATWATER KENT

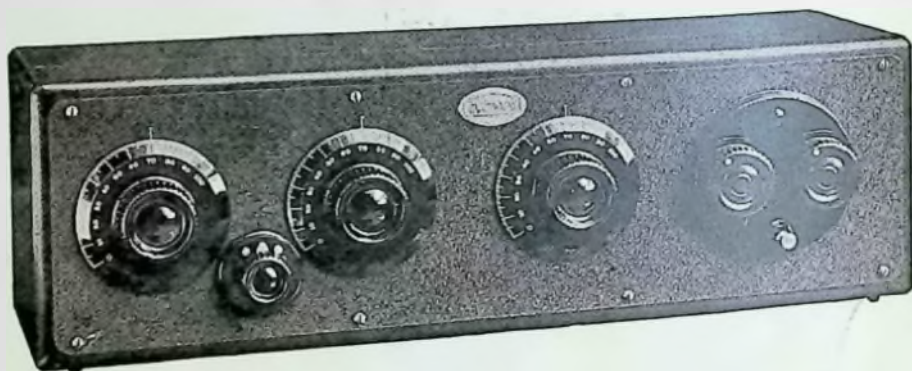
Inventory time is here. Now we can check up radio merchandise!

You can list your Atwater Kent stock at just one hundred cents on the dollar. It's worth it.

And your books will show it has moved off your shelves; you've made a turnover.

Now for January—88% of December's volume was sold by Atwater Kent dealers last year—and this January will be no exception.

Now for 1926 and January.



Atwater Kent Sets less accessories are \$65, \$85 and the De Luxe is \$105. The Radio Speakers are \$13, \$18, \$24 and \$30, and the Cone Speaker \$18.50. The Pooley-Atwater Kent Cabinets are \$80, \$210, \$235, \$275 and \$385 and the Radio Phonograph is \$315.

ERNEST INGOLD, INC.

930 Van Ness Avenue
SAN FRANCISCO

The Atwater Kent Artists appear in a concert of good music over KPO Wednesdays at 8.

Tell them that you saw it in Radiocast Weekly

Questions and Answers

(Continued from Page 7)

the settings of the longer wave stations, as compared to the settings on the old condensers. A new straight line frequency converter is now on the market, and when attached to condensers of the semi-circular type, separates the stations at the lower end of the condenser scale in the same manner as the straight line frequency condensers, by imparting an uneven motion to the condenser rotor, starting slowly at the lower waves and increasing in speed at the higher waves, with a uniform movement of the dial.

Am building a two tube Roberts set and would like to know the data about the coils. Will it be satisfactory to tune the tickler with a 23 plate condenser?

M. P. E., Los Gatos, Calif.

All coils should be wound on the same sized spider web forms, 5 in. outer diameter and having 13 teeth each 1-7/16 in. long. The antenna coil, secondary coil and tickler are all wound with No. 22 silk covered wire, going over two teeth, then under two, etc. The antenna coil has 30 turns, a small loop being twisted in the wire at every fifth turn, the insulation being scraped off the

loops for the antenna connections. The secondary of the antenna tuner has 45 turns, the inner end going to the grid of the tube. The tickler has 20 turns. The neutralizing and primary windings of the r.f. transformer are wound simultaneously on the same spiderweb form by winding with a pair of No. 26 silk covered wires, treating the pair exactly like one wire. In this case, wind over one tooth, then under one tooth, etc., going around 22 times. There are then two separate windings of 22 turns each. Connect the outer terminal of one of these windings to the inner terminal of the other. The secondary of the r.f. transformer is wound on another spiderweb form, and has 45 turns the same as the secondary of the antenna tuner. The tickler is not tuned, the 23 plate condenser being shunted across the secondary of the r.f. transformer.

One of the handiest tools around the radio shop bench can be made up by making a heavy chisel-like knife from an old file. This can be used to scrape wires, cut wood, or do any of a hundred things you'd not care to use a good tool on, and when its broken or worn out, a new one can be ground up again on any emery wheel.

MAGNAVOX — Model 10

Single Dial Control



ONLY \$110 (Less Accessories)

Just think—only one dial to turn to bring in stations all around the dial—stations come in one after the other. All clear and with ample volume. Very selective.

Call Today for Demonstration

We give you the privilege of paying a small amount down and the balance in monthly payments on all sets. Come in or call for terms.

ESTABLISHED 1882
T. WHITE EASTMAN CO.
 2744 MISSION STREET
 PHONE VALENCIA 300
 Between 23rd and 24th Sts., S. F., Cal.

For Some a "Radio"

For Others—ZENITH



Super-Zenith VIII
\$270 LESS ACCESSORIES

Some prefer the blare of a circus band—or the friendly jangle of a hurdy-gurdy. To them it is the only music.

Those who delight in blare and jangle do not need a Zenith—but they will find that even such music rings truer to their ears brought in by Zenith radio.

Zenith's appeal to the eye is instant—and enduring. Its clear, sweet tone is a revelation. To see and hear one of the new Super-Zeniths for the first time is a memorable experience. Yet that experience is yours for the asking—in your own home if you so desire.

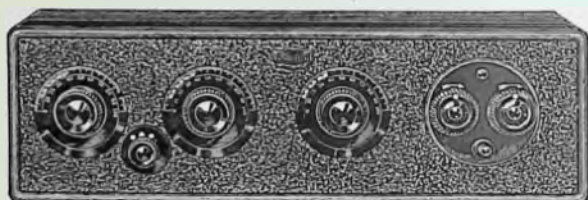
Call Douglas 3323 for a Demonstration

ATWATER KENT

COMPACT MODEL 20

\$85.00

Less
Accessories



\$85.00

Convenient
Terms

USE YOUR CHRISTMAS CHECK FOR DOWN PAYMENT

QUARG MUSIC CO.

206 POWELL STREET, Cor. of O'Farrell

TELEPHONE DOUGLAS 3323 and GARFIELD 1250

SAN FRANCISCO

OPEN EVENINGS

Tell them that you saw it in Radiocast Weekly

The Fans Speak for Themselves

THAT radiocasting is not yet perfect seems to be the consensus of opinion of some 2800 radio fans scattered throughout 48 states. This was shown in a recent canvass by A. Atwater Kent, of Philadelphia, in an effort to learn what the average listener wants in the way of radio entertainment. Practically all listeners agreed that there are far too many small radiocasting stations operating in the lower wave band, and that there is too little high-class entertainment, although many admit that the chain radiocasters are giving excellent service.

Lack of variety in programs and poor announcing from many stations, are given as constructive criticisms by radio denizens of over five hundred cities and towns. "No, there is not too much classical music," 2400 reports out of 2600 state. On the other hand, there is too much jazz according to 1420 replies out of a total of 2534 answers. Short talks and timely speeches also appear to hold fan interest, the survey shows.

Interference from various sources is noted by over half the correspondents; only about 9 per cent of the writers claim they have no interference. Static is blamed by over 70 per cent of those having reception difficulties, and 75 per cent of them admit that their local or nearby stations come in the best. This is believed partly due to the static handicap. Code reception still causes some interference; about a third of the fans reporting interference, say this form bothers them.

A large number insist most of the interference is due chiefly to the fact that so many stations are crowded into the wavelengths between 300 and 200 meters. A Pennsylvania listener wished three-fourths of them would sign off for good. Some say they never try to tune in below the wavelength of KDKA. The writer, however, believes this is not generally found difficult, as he picks up a number of stations on the shorter wavelengths each night. Although some of them are only 100 watters, they

are usually held with little difficulty. The use of a selective set and careful tuning seems to bring in lots of the little fellows pretty well, and some of them offer unique programs. This fact is pointed out by another fan, who asserts he likes some of the smaller, independent stations better than the high-powered radiocasters due to their individualities and unusual features.

One correspondent, an old-time listener from Cleveland, states boldly that, although some of the larger stations which frequently hook up on national programs with WEAf or WJZ are fine, he believes 90 per cent of all the programs are not worth while. The ideal conditions will only be realized, he declares, when there is but one local in a city or town, and one or two good continental chains. More radiocasting of international events, conventions and really good speakers will make for greater understanding and contentment in radio land, he adds. Many of the smaller stations, he points out, put on artists from cheap vaudeville shows, whose acts and lines of patter are often offensive and sometimes obscene. His statement that the programs handled by linked stations are usually good, is borne out by approximately 85 per cent of the replies filed, which endorse this type of entertainment.

A pertinent suggestion is offered by a fan who says he can't see why these chain hook-ups always work one way, that is out of New York. He would like something from Detroit, Chicago, Philadelphia and other cities radiocast over a series of stations for a change, believing there is also good talent available in those cities.

A feminine fan is willing to listen to dance music and jazz when there is some semblance of melody to be heard, but objects to tuneless selections written for noise alone. She also makes a plea for variety, pointing out that a whole evening of classical music is boring while a solid program of jazz is worse.

(Continued on Page 13)

Repairing

All our repairing and testing is done by competent men, with modern apparatus. When a set is finished, it is as near right as it is possible to make it.

Service

A phone call will bring a man able to put your set in its best working order. We are glad at any time to give any help or information you may need to keep your set working right, or about repairing or building a set.

**BRING YOUR TUBES IN AND HAVE THEM TESTED
THIS SERVICE IS FREE**

A full line of the best parts obtainable

Precise Products, Burgess Batteries, Sangamo Condensers

We Are Open Every Evening

Till Ten O'Clock

Bakelite Cut and Engraved

MAIL ORDERS GIVEN SPECIAL ATTENTION



TUSTIN RADIO

SALES

SERVICE

SUPPLIES

428 Sutter Street, at Stockton Street

Phone Garfield 6972

THE FRESHMAN MASTERPIECE

New and Improved Has Arrived

See this line before buying your receiver. Beautiful cabinet, wonderful results and at a price to fit your purse. A set well worthy of a place in your home. A five-tube set as low as \$42.50. Hear this line demonstrated. Many models from which to select.

QUALITY RADIO SHOP

86 Fourth Street

Phone Garfield 1076

Near Mission Street

San Francisco

Open Evenings Until 9

Tell them that you saw it in Radiocast Weekly

The Fans Speak for Themselves

(Continued from Page 11)

The ears of careless operators of regenerative sets would certainly burn if they could read some of the caustic comments regarding oscillating receivers. This type of set should not be manufactured, one letter protests, while another listener claims all should co-operate to suppress them or teach the owners how to handle them. Semi-technical talks on operation would help remedy this condition, he believes.

Just after Christmas for about three months, one writer says he never tries to listen in, because the kids trying to operate their cheap "radiators" make the nights hideous until they run their batteries down or break up their sets. Another fan expresses disappointment that Secretary Hoover hasn't put a stop to the use of oscillating sets, adding that it now looks as if radio was doomed to failure in this country where it should be the best in the world. An Ohio listener says he quits in disgust every night about 8 when the howlers and squealers begin. "I would gladly pay a national tax on my aerial or set," this man declares, "if we could be guaranteed from the interference of these nuisances." This man seems to have spoken for a large number of listeners.

Some of the suggestions for improving the programs call for humorous talks sprinkled in with miscellaneous matter, touching on the general request for novelties and variety, which of course makes it harder than ever for the overworked station managers. One man wonders why practically all stations open up at almost the same hour and suggests that some start earlier, say at dinner time and carry on through the early evening, while others come on a little later. Perhaps they would interfere less if they operated on staggered schedules. A train dispatcher is evidently needed if they all want to ride with them. After all we can't ride on more than one

train or listen in on more than a single wavelength at a time satisfactorily.

Thoughtful members of the listeners' clan, point out that more instruction on reception is necessary; that dealers should be particular to sell correct accessories, particularly suitable length aerials, designating the proper installation of aerials and grounds for new comers. Incorrectly erected and poorly insulated antennas are the cause of a great amount of poor reception, several correspondents hold. Faith in fairly long outside aerials is evidently still strong, as 83 per cent of the fans listed use them, nearly half of them being between 75 and 100 feet in length.

A few fans admit they would prefer one or two good programs a week rather than a continuous nightly performance by mediocre talent or even fair entertainment. Many offer to pay for better radiocast programs if it is necessary, so as to eliminate the amateur and inferior stations.

The calls for silent nights were not missing, but most of the fans reporting seem able to get at least a few outside stations when they want to do so. This is perhaps because a large percentage of those writing in own three, four or five tube sets. Out of 2660 fans replying to the question, 40 per cent operate five tube sets, while 22 per cent own 3 tube receivers, and 13 four tube sets. Very few boast of more tubes and even less seem content with single tubes or crystals. This would indicate that listeners are a little better equipped than a year ago. Most of them get loud speaker volume on some stations, as 85 per cent of their sets are equipped with loud speakers. Of these, horns seem still most prevalent, although the more modern types are coming into use gradually.

These folks who wrote in about their sets, appear to prefer wet "A" batteries, but dry "B" batteries, although a few have installed eliminators.

Kicks against barefaced advertising and sales talks were also registered, while protests against the conduct of announcers would make a story in itself.

MAGNAVOX

SOLD OUT!

Of the hundreds of Magnavox dealers on the Pacific Coast, there was not one that was not sold out by the end of 1925.

"Clean shelves" was the story of every merchant handling the single-dial-control Magnavox.

Thus have we kept our faith, for early last year we made a solemn promise that we would only handle merchandise having the greatest merit and on which our dealers could rely on absolute protection.

1926 bids fair to be the most prosperous year in the long history of the Golden West. To merchants who wish to get their full share of this prosperity, we extend a cordial invitation to join with us in selling the single-dial-control Magnavox.

MUNSON-RAYNER Corporation

Wholesale Distributors for the Pacific Coast

643 S. Olive St.
Los Angeles

86 Third St.
San Francisco

63 Sixth St.
Portland

50a

Radio Proves Beneficial to Railroad

FURTHER reports on applications of radio and wired wireless to railroad-ing by the American Railway Association, reveal that a new carrier current, or wired-radio, system has been developed for communication between the front and rear cars of long freight trains on electrified roads. Either code signals or voice may be used satisfactorily; the latter, however, only when the train is standing still. Wave lengths of 100 to 140 meters were used in recent tests with about 50 watts power, over a line three miles in length.

The most interesting test was made on the electrified section of the Norfolk & Western Railroad. Duplicate sets were mounted in two locomotives, one pulling and one pushing a train which was fully half a mile long. By means of carrier-current signal in the rails the train was started and stopped most satisfactorily, both engineers working together. The train was started up and its speed increased to 14 miles per hour in less than a minute, whereas it usually required a longer time to start a long, two-engined train. Stopping was readily accomplished without the accustomed jarring and bumping. Voice transmission from cab to cab was found clear and easily understood when the train was not in motion.

Further demonstrations indicated that this system would operate satisfactorily when the two engines were separated a distance of six miles. This equipment is to be tried out by a large southwestern road before representatives of the Railway Association's radio committee.

Other uses of radio being tested for rail application include the printing telegraph, which has been found to function well with high-power transmitters on suitable wave lengths for practically unlimited distances, using chiefly standard radio transmitting and receiving apparatus. The important development, in the receiver, is said to be

a special type of relay designed to work in conjunction with the printer. This method of course makes copies of orders for filing, which are valuable records of a railroad's correspondence.

The Loud Speaker

(Continued from Page 5)

a week and we'd find out how far radio has been woven into the warp and woof of the daily lives of 120,000,000 people. It would amaze us all.

* * *

One thing more: You who got new sets for Christmas—don't give the old one to the kids to unravel. Don't chuck them in a closet and forget all about them. There is many an old lady tucked away, many an old man, many a little invalid child that would appreciate just that old set, and a chance to get on the air with all the rest of us. Don't be stingy or thoughtless or careless. Do just that—see that they get it.

* * *

A Happy New Year with best wishes for fancier cabinets and more dials.

Increase in Canadian Licenses

Canadian fans numbering 64,682 secured receiver's licenses during the first 9 months of 1925, an increase of 7,823 over the corresponding period of 1924, Consul Hicker-son, reports to the Department of Commerce. Licenses issued during this period to fans in Ontario totaled 32,833; in Quebec, 9,062; and Saskatchewan, 7,729, followed by Manitoba, British Columbia, Alberta and Nova Scotia in order.

October radio exports reached a total of \$1,317,846, compared with \$769,249 last October. This brings the total for the ten months to \$7,659,000, considerably more than the total for 1924.

Stewart-Warner
Matched-Unit Radio
INSTRUMENTS TUBES REPRODUCERS ACCESSORIES

The Ideal Gift--

A STEWART-WARNER Matched-Unit Radio brings years of joy to your entire family.

What instrument could possibly be more practical or more appreciated?

Why not combine the "family pocket books" this year, if necessary, for this wonder radio that will bring lifetime satisfaction to all?

MATCHING our Instrument plus Tubes plus Reproducer plus Accessories, all to function in perfect unison, is a Stewart-Warner triumph that guarantees complete radio satisfaction.

If your friend has a radio, give him a Stewart-Warner Reproducer. This important member of the Matched-Unit Family will greatly improve his or ANY set. His wife will particularly delight in its beautiful appearance.

Our Blue Ribbon Representative in your locality will gladly demonstrate any of our Matched-Units to you. If you haven't his name, write us at once and we'll send it. You will never know what complete radio satisfaction means until you own a Stewart-Warner.

STEWART-WARNER PRODUCTS SERVICE STATION WHOLESALE DISTRIBUTORS

1450 Van Ness Ave.
San Francisco

1516 J Street
Sacramento

1412 Broadway
Fresno

Tell them that you saw it in Radiocast Weekly

Learn to Operate Your Set Properly

RADIO manufacturers throughout the country have been negligent in educating the public generally speaking, on the proper care and operation of a radio receiver, regardless of whose set it is. A radio receiver with "A," "B" and "C" batteries tubes, the proper hook-up of the batteries, ground and antenna plus the proper method of tuning and other details require some patience and some effort on the part of the operator of the set in order that the best results may be obtained.

When a motor car runs out of gas, or the bearings burn out because of lack of oil, or tires become rim-cut because the owner fails to have the proper air pressure the motor car is not blamed, and the owner realizes his own responsibility. He realizes that it is not the fault of the automobile and does not blame the automobile dealer or the manufacturer. On the other hand, anything that may happen with radio reception is blamed onto the set because the owner only knows that he has a set that is supposed to get certain stations and regardless of bootleg tubes, batteries and other equipment—the radio receiver bears the brunt and the manufacturer is blamed.

Some manufacturers and dealers who sell receivers to the public, give the impression that all there is to do is set the receiver down, attach the batteries, insert the tubes and get everything in the country and part of Europe, are doing an injustice to their own business. Automobile dealers expect buyers to know something about fuses, gasoline and oil; the necessity for refining brakes and tightening bolts and ignition wires. In turn, people should expect to spend a little time in learning to operate their receiver properly in order that the receiver may do full justice to any program, to which they may be listening.

Again, it is important that every set owner learn to use a hydrometer and a voltmeter and use them frequently. Thousands of complaints are made by set owners about various types of radio receivers when

the fault is in batteries that are run down or tubes that do not oscillate, improper aerial and poor ground connections. The owner tells everyone that his radio receiver is no good—and when he finally discovers that it isn't the receiver at all but his accessories—he fails to become the booster that he should to offset the damage he has done to that particular type of radio receiver, which he formerly blamed. The owner has failed to acquaint himself with his set.

Frequently, the owner returns the receiver, accessories and everything to the dealer who sells him a first-class radio receiver with second-class accessories and frequently the dealer also unknowingly accepts the buyer's statement that the "set is no good!" In no other industry does this practice exist, and the only solution is the education of the public to take a little time when tuning a set and be certain that the set is given the proper accessories and treatment before they criticize it for non-performance.

In this manner, from disgruntled set owners who blame the receiver rather than the accessories or the method of operation, radio buying is discouraged in spite of the fact that radio receivers built in the United States today are the finest in the world. Manufacturers, in their operating instructions, and through salesmen and radiocasting, cannot emphasize too strongly the necessity of having a good antenna—good ground—everything necessary for the most efficiency before the set is operated. Radio set owners who are not now getting the most from their receivers should study the instructions, see that their accessories are first-class and in good shape and then spend a few evenings learning to tune. It took time to learn to walk and talk, to ride a bicycle or drive an automobile—but then it came naturally—the same is true with your radio receiver—learn to operate it and master it before condemning it.

SCHEDULES FOR SUNDAY

January 3, 1926

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

a. m.	Central Calif.	Southern Calif.	Pacific N. W.	Inland
9:00	KFUS			KTLS KYW KOIL
9:30 to 10	KTAB KPO KFWN			KTLS KYW KLOS KOIL
10 to 10:30	KLS KRE KPO KFWN KQW	KFI KHJ KNX	CFAC	KOA KLS KLOS
10:30 to 11	KLS KRE KPO KQW KFWN	KFI KHJ KFSG KNX KTOI KPCC	KTW	KOA
11 to 11:30	KGO KFQU KTAB KQW	KHJ KTBI KNX KPCC KFSG KFI	KTW KFQ KGW KJR CFCT	WOC KOIL
11:30 to 12	KGO KFQU KTAB KQW	KHJ KTBI KNX KPCC KFSG KFI	KTW KFQ KGW KJR CFCT	WOC KOIL WOAW
p. m.				
12 to 12:30	KQW	KTBI KFSG	KTW KJR	WGN WOAW
12:30 to 1		KFWO		WGN KDKA WBAP WQJ
1 to 1:30	KFWN		KTCL	WGN KDKA WBAP WQJ
1:30 to 2	KFWN		KTCL	WDAF WCCO KDKA KOA KPAR WGN KTW
2 to 2:30		KNX		WDAF KDKA KOA KPAR WGN KYW
2:30 to 3	KGTT	KFSG KFOR KNX		WSB KSL
3 to 3:30	KGTT	KFSG KFOR KNX	KTW KTCL	WSB KDKA KSL
3:30 to 4	KGO KFUS KGTT	KFSG KFOR KNX	KTW KTCL	KDKA WOAW KSL
4 to 4:30	KGO KFUS	KFSG KFI KHJ KFOR KNRC	KTW	WFAA WOC WGY WJZ KOKA KSL
4:30 to 5	KGO	KFI KHJ KNRC		KOKA KSL
5 to 5:30	KPO KJBS	KFWO KNRC	KJR	KDKA KYW WLS WFAA WGY WJZ WKRC KOIL
5:30 to 6	KPO KJBS	KFWO KNRC	KJR	WJZ WLS WOAI KOIL WKRC WSB KDKA KYW WOS WJZ KSL
6 to 6:30	KPO KJBS	KTBI KFOR KNRC		W.B. WBS WFAA WCCO WEAR WGY WCRD KOIL WQJ KYW WOC WLV WOAI WJZ WGR WCAP KSL WCAU W.B.
6:30 to 7	KFRC KPO KRE	KFI KTBI KFWO KHJ KPCC KNRC	CJCA CFAC	W.B. WFAA WCCO WGBS WOC KOIL WGY WCRD WQJ KYW WBS WCAP KOA WCAU WEAR WLV WJZ WGR
7 to 7:30	KFRC KPO KRE	KTBI KFWO KHJ KNRC KFI KFSG KNX KPCC	CJCA CFAC KJR	WJZ WOAW KTIS WGN WLV WJZ WEBB WGY WCRD KOA WGBS WOC WFAA KSL KLOS WJY WQJ
7:30 to 8	KTAB KQW KGO	KFI KFSG KNX KPCC KTBI KNRC KHJ	KTW KFQ KJR CJCA CFCT KGW	WJY WQJ KYW WGBS KSL WJZ WEBB KLOS WENR KTIS WOAI WGN WGY WOC WFAA WOAW KOA
8 to 8:30	KRE KTAB KGTT KGO KFRC KPO KFQW KQW	KFI KHJ KFOR KNX KPCC KFSG KTBI KFWO KNRC	KTW KFQ KJR KGW KTCL CFCT	WKRC KTIS WOAW WENR WFAA WOC WOAI KSL WJY KYW WIF
8:30 to 9	KFRC KFQW KTAB KGO KPO KRE KGTT KQW	KFI KHJ KTBI KFOR KNX KFSG KFWO KNRC KPCC	KTW KGY KFQ KGW KTCL KJR	WFAA WOC KSL WENR KTIS WJY WKRC
9 to 9:30	KFRC KFQW KGTT KPO KFQW KRE	KFI KHJ KNX KFWB KFSG KTBI KPCC	KGY KTW KTCL KJR KGW	WBAP WOC WLB KFUR WKRC KOIL KT.S
9:30 to 10	KFRC KTAB KGTT KPO KFQW KRE	KFI KHJ KFWB KFSG KNX	KTW CFCT KTCL KJR KGW	WBAP WLB KFUR WOC KOIL
10 to 10:30	KTAB KFRC	KFWB KFSG KNRC KFI KNX	KJR CFCT	WLB KFUR KGO WKRC KFUR KGO WKRC WLB
10:30 to 11	KTAB KFRC	KFWB KFSG KNRC KFI		
11 to 11:30	KFRC			
11:30 to 12	KFRC			

KYW radiocasts news items every half hour—on the hour and on the half—during day and night

RADIO CABINETS—We Make Them Right

Fabricoid-covered cabinets. Very attractive. Made to your own design and measurements. Cabinets ordered today can be delivered tomorrow. Prices are reasonable. Please ask for an Estimate—Sutter 437

MUHS MANUFACTURING CO.

372 TEHAMA STREET, near Fourth

SAN FRANCISCO, CALIFORNIA

CUT YOUR "A" BATTERY EXPENSE!

[ON DRY CELL
TUBE SETS]



Willard Radio Batteries

They're Rechargeable

Willard "A" Batteries last for years and give better reception all the time.

\$13.90

For UV-199
Or C-299
Tube Radios

(Complete with Built-in Charger as Illustrated)

Just throw the switch to recharge. As simple as turning on a light.

Type	CTR	Volts	Will Operate	Prices
128-W..	2	..5	WD-11 tubes.....	\$14.95
129-W..	4	..8	UV-199 tubes.....	13.90
97-W..	6	..3	UV-201A tubes.....	16.20

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25% Down
Balance in Ninety Days

Julius Brunton & Sons Co.

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near Polk, San Francisco

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Sold by Authorized
Radio Dealers and All
San Francisco Willard Service Stations

RADIO STATION **KJBS** 220 METERS

Tell them that you saw it in Radiocast Weekly

PROGRAMS FOR SUNDAY

JANUARY 3, 1926



Otto Fleissner
KGO—11 a. m.



Fawn Post Trowbridge
KPO—9:45 a. m.



Margaret L. Mesberry
KGO—3:30 p. m.



F. L. Worrell
KJBS—5 p. m.

467 Meters

KFI

840 Kilocycles

Copyright 1925 by E. C. Anthony, Inc., L. A.

- 10 a. m.—Morning services under the direction of the Los Angeles Church Federation
11 a. m.—Morning service of Third Church of Christ, Scientist
4 p. m.—Vesper services, arranged by Federated Church Musicians
6:30 p. m.—KFI Nightly Doings
6:45 p. m.—Father Ricard's Sun Spot Weather Forecast Music Appreciation Chat
7 p. m.—Aeolian organ recital, Dan L. MacFarland at the console
8 p. m.—Classic Hour, featuring the Mary Christine Albin Trio, with Ysabel Bowen, soprano soloist
9 p. m.—Program presented by L. A. Examiner
10 p. m.—Packard Six Orchestra, co-direction of Bill Hennessy and Chet Mittendorf. Dick Barton, soloist

306 Meters

KTCL

980 Kilocycles

New Washington Hotel, Seattle, Wash.

- 1 to 2 p. m.—Meves' Cafeteria Henri Damski's Concert Orchestra
3 to 4 p. m.—Eastern Outfitting Company. "Charmed Land Trio"
7:50 to 9:10 p. m.—First Church of Christ, Scientist Remote control
9:10 to 10:10 p. m.—International Bible Students' Association. Studio program

405.2 Meters

KHJ

740 Kilocycles

Los Angeles Times, Los Angeles, California

- 10 a. m.—Sermon from KHJ studio by Dr. Willie Martin, pastor of the First Methodist Church of Hollywood
10:30 a. m. to 12 noon—Organ recital and religious service from the First Methodist Church; Arthur Blakeley, organist, and Rev. Elmer E. Helms, pastor
6:30 to 7 p. m.—Leighton's Cafeteria Orchestra, Jack Cronshaw, director
7 to 8 p. m.—Evening services from the First M. E. Church
8 to 10 p. m.—Program through the courtesy of the Martin Music Company

428 Meters

KPO

700 Kilocycles

Hale Bros. & The Chronicle, San Francisco

- 9:45 to 10:45 a. m.—Undenominational and non-sectarian church service
Talk, "What Shall the Future Be." Dr. K. G. Murray, Pastor of Lohanon Presbyterian Church, San Francisco
Soprano solos, Fawn Post Trowbridge—
That Sweet Story of Old West
Thou Wilt Keep Him in Perfect Peace Speaks
Hymn, In the Garden
Improvisation of a familiar theme by Uda Waldrop at the Wuritzer Organ
10:45 a. m.—"Ye Towne Cryer" and amusement Information Service
5 to 6 p. m.—Organ recital by Marshall W. Giselman at the California Palace of the Legion of Honor
6 to 6:30 p. m.—Waldemar Lind and the States Restaurant Orchestra—
6:30 p. m.—"Ye Towne Cryer"
6:35 to 7:30 p. m.—Palace Hotel Concert Orchestra, Cyrus Trobhe, director
8 to 8:35 p. m.—Palace Hotel Concert Orchestra, Cyrus Trobhe, director
8:35 to 10 p. m.—Rudy Seiger's Fairmont Hotel Orchestra

337 Meters

KNX

890 Kilocycles

Los Angeles Evening Express, Los Angeles

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

220 Meters

KJBS

1360 Kilocycles

Julius Brunton & Sons Co., San Francisco

- 5 to 6:30 p. m.—Studio concert given by the Californian Synchronators Orchestra, under the direction of F. L. Worrell
Intermission numbers by Edna Bicknell Smith, mezzo soprano, and Geo. Lane, basso

Sunday Programs—Continued

361 Meters **KGO** 830 Kilocycles

General Electric Company, Oakland, Calif.

11 a. m.—Service of the First Presbyterian Church, San Francisco; Rev. William Kirk Guthrie, D.D., minister

Organ Prelude.....Reinecke
Doxology and Invocation
Hymn—Through All the Changing Scenes of Life
Psalms No. 61 and 62
Gloria Patri
Anthem—

Behold! What Manner of Love.....Elliott
Scripture Lesson
Hymn—Jesus Calls Us O'er the Tumult
Prayer, Choir Response
Organ Offertory, Reverie.....Barnes
Baritone solo, George A. Howker—
Now Heaven in Fullest Glory Shone.....Haydn
Sermon, "Spiritual Reconstruction," Rev. Wm. Kirk Guthrie, D.D.
Benediction
Organ Postlude—Sortie.....Steane

3:30 p. m.—Concert by KGO Little Symphony Orchestra, Carl Rhodehamel conducting

Orchestra—
Waltz, Thousand and One Nights.....Strauss
Overture, Force of Destiny.....Verdi
Selection, Africaine.....Meyerbeer
Contralto solos, Margaret L. Mesherry—
Till I Wake.....Woodforde-Finden
Less Than the Dust.....Woodforde-Finden
Orchestra—

Beethoven and his Seventh Symphony, a talk by Arthur S. Garbett
Adagio, Moonlight Sonata.....Beethoven
Symphony No. 7, Allegretto.....Beethoven
Contralto solos, Margaret L. Mesherry—
Little Gray Home in the West.....Lohr
Only a Dream of Summer.....Gardner
Orchestra—
Suite, L'Arlesienne.....Bizet
Tone Poem, The Swan.....Saint-Saens

7:30 p. m.—Service of the First Presbyterian Church, San Francisco; Rev. William Kirk Guthrie, D.D., minister

Organ recital, Otto Fleissner—
Jubilate Deo.....Silver
At Evening.....Kinder
Anthem, Marvelous Are His Works.....Scott
Hymn, O God, Our Help in Ages Past
Psalm No. 34
Scripture Lesson
Hymn, He Leadeth Me
Prayer, Choir Response
Organ Offertory—Adagio.....Beethoven
Soprano solos, Mrs. Arthur Hackett—
Angels, Ever Bright and Fair.....Mendelssohn
Sermon, "Blessed Memories," Rev. William Kirk Guthrie, D.D.
Benediction
Organ Postlude.....West

322.4 Meters **KOA** 930 Kilocycles

General Electric Company, Denver, Colorado

10 a. m.—Service of First Baptist Church, Denver, Dr. A. H. C. Morse, pastor

2 p. m.—Afternoon music hour, organ recital from First Baptist Church, by Oliver W. Gushee

6:45 p. m.—Service of First Baptist Church

240 Meters **KTAB** 1250 Kilocycles

Tenth Ave. Baptist Church, Oakland, Calif.

9:45 a. m.—Prof. E. G. Linsley's Bible Class

11 a. m.—Morning Church Service

Organ Prelude, Ida M. Fording—
Communion.....Grison
Anthem by choir, Dr. C. D. Goodman, director
Organ Offertory, Ida M. Fording
Address, Rev. Geo. W. Phillips, pastor
Organ Postlude—
Processional.....Dubois

7:45 p. m.—Evening Church Service

Organ Prelude, Ida M. Fording—
Prelude in B Flat.....Pattison
Guest Soloist, Harlan McCoy—
"The Lord Is My Light".....Dudley Buck
"Nazareth".....Gounod
Anthem by choir, Dr. C. D. Goodman, director
Offertory number by Cecil Hansen, harpist
Address, Rev. Geo. W. Phillips, pastor
Organ Postlude, Ida M. Fording—
March in B Flat.....Fingler

9:30 to 11 p. m.—After-Service Concert given by the choir of the First Congregational Church of Alameda, Orrin Leon Padel, director, and Alice Gray Padel, organist
Organ, Alice Gray Padel
Hymnus.....Von Flieitz

Choir—
God Is a Spirit.....Bennett
By Babylon's Wave.....Gounod
Tenor Solos, Orrin Leon Padel—
Comfort Ye, from "Messiah".....Handel
Every Valley, from "Messiah".....Handel
Choir—

God So Loved the World.....Stainer
Greetings by the Pastor, Rev. Harvey Miller
Soprano Solos, Mrs. A. J. Campbell, Jr.
Dear Love, Thine Aid, from "Samson and Delilah".....Saint-Saens
Male Quartet, Messrs. Thomson, Padel, Fisher and Young—

One Sweetly Solemn Thought.....Ambrose
Soprano and Contralto Duet, Mesdames Campbell and George—
Hold Thou My Hand.....Briggs
Baritone Solo—Charles Fisher
God's Love.....Ward-Stephens

Organ, Alice Gray Padel—
Cantilene Nuptiale.....Dubois
Mixed Quartet, Mesdames Campbell and George and Messrs. Padel and Fisher—
Open Thou Mine Eyes.....Case
Soprano and Tenor Duet, Mrs. Campbell and Mr. Padel

I Waited for the Lord.....Mendelssohn
Choir—
The Contrite Heart.....Ambrose

256 Meters **KRE** 1170 Kilocycles

Berkeley Daily Gazette, Berkeley, California

10 to 11 a. m.—Church service conducted by the College Avenue Methodist Episcopal Church of Berkeley, Dr. Royal A. Simonds, pastor. Music by choir under the direction of J. A. Bendinger

6:30 to 7:30 p. m.—Dinner concert by the Sterling Trio, Richard Bailey, piano; Maurol Hunkins, violin, Sterling Hunkins, cello.

8:15 to 9 p. m.—Social concert by the Sterling Trio with special vocalists

9 to 10 p. m.—Hour of sacred music by the choir from the College Avenue Methodist Episcopal Church, under the direction of J. A. Bendinger. Miss Bertha Devo, organist

(Programs continued on next page)

Sunday Programs—Continued

268 Meters **KFRC** 1120 Kilocycles

City of Paris Dry Goods Co., San Francisco

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

Overture, Fest.....Leutner
Selection, High Jinks.....Friml
Menuet Gothique.....Boellmann

8 to 10 p. m.—Concert in Drury Lane, Hotel Whitcomb, by Stanislaus Bem's Little Symphony Orchestra

Overture, Orpheus.....Offenbach
Red Roses Waltz.....Lehar
Songs of Italy.....HandelLargo.....Handel
La Maison Dor'Petite, Suite Japonaise.....Fontelle
TchaikowskianaGrand Opera selection "Tiefand"....D'Albert
10 to 12 p. m.—Music from Balconades Ballroom by Walter Krausgrill's Orchestra294 Meters **KTBI** 1020 Kilocycles

The Bible Institute of Los Angeles, Calif.

10:45 a. m. to 12:30 p. m.—Regular services of the Church of the Open Door, including sermon by Dr. John M. MacInnis. Musical program under the direction of Prof. J. E. Trowbridge, assisted by Prof. Alfred A. Butler, organist, and the Chorus Choir

6 to 6:45 p. m.—Radio Vesper Service, sermon by Dr. W. E. McCollough, pastor of the First United Presbyterian Church. Music by the Male Quartette of the Men's Glee Club of the Bible Institute. Mr. Arthur C. Schmeltz, also of the Bible Institute, organist

7:15 to 9:30 p. m.—Regular services of the Church of the Open Door, sermon by Dr. John M. MacInnis. The musical program will be under the direction of Prof. J. E. Trowbridge assisted by the large Chorus Choir and Mr. Alfred A. Butler, organist

275.1 Meters **KFSG** 1090 Kilocycles

Angelus Temple, Los Angeles, California

10:30 a. m. to 12:30 p. m.—Complete church service. Sermon by Aimee Semple McPherson. Charlotte Tyson Foljome, soprano. Angelus Temple Male Quartet. Temple Choir, directed by Gladwyn N. Nichols. Great Temple Organ and Chimes, played by Esther Fricke Greene

2:30 to 4:30 p. m.—Afternoon service with dispensational address by Aimee Semple McPherson. Sunshine Quartet. Special numbers by the Temple Silver Band, direction of Gladwyn Nichols. Mrs. C. D. Smith, fancy drummer and xylophone player. Will J. Stitt, baritone

7 to 8 p. m.—Sunday musical hour, Angelus Temple Choir, Band and Organ, direction of Gladwyn N. Nichols, musical director

8 to 9:45 p. m.—Revival service conducted by Aimee Semple McPherson. Altar call and after-service. Illustrated message

10 to 11 p. m.—Organ recital by Esther Fricke Greene, Christmas music: Earl Houk, baritone; A. W. Albers, violinist

256 Meters

KFUS 1170 Kilocycles

Sherman School, Oakland, California

9 to 9:30 a. m.—Musical selections and International Sunday School lesson exposition

3:30 to 4:30 p. m.—Studio program of sacred music by the Chorus of the Oakland Temple Baptist Church, Chas. E. Ross, pastor. Chorus numbers and solos, with a message from the pastor

220 Meters

KFUU 1360 KilocyclesMathewson Motor Company, Oakland, Calif.
5 to 9:30 p. m.—Scotty and His Clan

207 Meters

KFWM 1450 Kilocycles

Oakland Educational Society, Oakland, Cal.

9:30 to 11 a. m.—Sacred music; Children's service, Bible lecture

1 to 2 p. m.—Bible talk

491.5 Meters

KGW 610 Kilocycles

The Morning Oregonian, Portland, Oregon

10:55 to 12 noon—Church services

7:25 to 9 p. m.—Religious services

9 to 10 p. m.—Concert, Chevrolet Little Symphony Orchestra

252 Meters

KLS 1190 Kilocycles

Warner Brothers, Oakland, California

10 to 11 a. m.—Radio Church of America, services under direction of Evangelist W. R. Fairfield. Music in charge of Grace L. Fairfield

384.4 Meters

KJR 780 Kilocycles

N. W. Radio Service Co., Seattle, Wash.

11 to 12:30 p. m.—Church services from the First M. E. Church, Dr. J. Ralph Magee, pastor

5 to 6 p. m.—Spargur String Quartet

7:15 to 7:30 p. m.—Organ recital by Mrs. Montgomery Lynch

7:30 to 9 p. m.—Evening services of the First M. E. Church, J. Ralph Magee, pastor

9 to 10:30 p. m.—Puget Sound Savings & Loan Ass'n Orchestra under the direction of Henri Damski

HOW TO REACH RADIOCASTERS BY TELEPHONE

KFOB.....	Burlingame	1665
KFRC.....	Douglas	4500
After 6 p. m. Douglas 4509		
KFUS.....	Oakland	5664
KFUU.....	Lakeside	1730
KGO.....	Fruitvale	6980
KJBS.....	Graystone	356 or 455
KLS.....	Lakeside	6223
KLX.....	Lakeside	6000
After 9 p. m. Lakeside 6015		
KNRC.....	Westmore	1319
Night phones: Westmore 1317, 13, 19		
KPO.....	Kearny	5777 or Sutter 5600
KRE.....	Thornwall	1
During radiocasting hours: Berkeley 9300		
KTAB.....	Merritt	246
KZM.....	Lakeside	100

The Balkite Trickle Charger



provides "A" current from the light socket—\$10⁵⁰

This charger may be connected to any 6-volt radio "A" battery of 30 ampere hour capacity or more and left permanently on charge. Used in this manner it automatically keeps the "A" battery always at full charge. It converts your "A" battery into a permanent "A" power unit that operates from the light socket.

With any smaller battery [4-volt or small 6-volt] this charger may be used as an intermittent charger of the usual type, or as a trickle charger if a resistance is added to cut down the charging rate.

Like all other Balkite Radio Power Units the Balkite Trickle Charger is entirely noiseless, is a permanent piece of equipment, with no bulbs or moving parts, and nothing to replace, break or get out of order. Fits in your dry cell compartment. Charging rate .4 to .5 amperes. Current consumption 1/10c per hour. Operates from 110-120 AC 60 cycle current. Special model for 50 cycles. Sold by leading radio dealers everywhere.

Manufactured by FANSTEEL PRODUCTS CO., Inc., North Chicago, Ill.

Factory Representative: A. S. Lindstrom Co., 324 N. San Pedro St., Los Angeles

Distributed by: Braun Corporation, 363 High St., Los Angeles. Western Radio, Inc., 1224 Wall St., Los Angeles. Electric Corporation, 1050 Santee at 11th, Los Angeles. Yale Radio Electric Co., 1111 Wall St., Los Angeles. Munson-Rayner Corporation, 643 S. Olive St., Los Angeles.

Sold by leading radio dealers everywhere

FANSTEEL
Balkite *Radio Power Units*

BALKITE BATTERY CHARGER • BALKITE TRICKLE CHARGER • BALKITE "B" • BALKITE "B" II

ALL BALKITE RADIO POWER UNITS ARE TESTED AND LISTED AS STANDARD BY THE UNDERWRITERS LABORATORIES

SCHEDULES FOR MONDAY

January 4, 1926

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

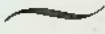
a. m.	Central Calif.	Southern Calif.	Pacific N. W.	Inland
7 to 7:30	KFO	KHJ	KGW	
7:30 to 8	KFO KHE	KNN		
8 to 8:30	KFO	KNN		
8:30 to 9				
9 to 9:30	KTAB KJBS	KMTR		
9:30 to 10	KJBS	KMTR	KTCL	
10 to 10:30	KFRC KJBS	KFON	KTCL	
10:30 to 11	KFOU KFWH	KNN	KTCL KGW KJR	WFAA KTHS KFKX
11 to 11:30	KFOU KRE KFWH		KJR	KOA KFKX
11:30 to 12	KOO		CJCA	KOA KFKX
p. m.				
12 to 12:30	KGO	KNN KHJ KNRC	CJCA	WHB
12:30 to 1	KGO	KNN KHJ KFWO KNRC	KGW KFOA	WHB WFAA
1 to 1:30	KFO	KHJ KNRC KMTR	KJR KGW KFOA	WOC
1:30 to 2	KFO KGO	KNN KNRC KMTR	KJR	WDAF WFAA
2 to 2:30	KJBS	KNN KNRC KMTR	KJR	KDYL WDAF WLS
2:30 to 3	KFO	KNN KNRC KMTR	CFAC	KDYL WLS WFAA
3 to 3:30	KGO KFO	KNN	CFAC	WSB WDAF WWJ WTAM KDYL KPAU KFWA
3:30 to 4	KGO	KNN		WSB WDAF WWJ WTAM KFKX WFAA KFAE KFWA
4 to 4:30	KLX KWC KTAB	KNN KFOU	KFEC KFOA	WDAF WDAW KTW WLS WWJ KFWA KDKA KFAE KFKX
4:30 to 5	KLX KTAB	KFON	KFEC KFOA	WDAF WDAW KTW WWJ WFAA KFWA KDKA KFKX
5 to 5:30	KLX	KMTR KFWB KNN		KDKA WHB WDAW WWJ WFAA KSL WGY KOA WTAM WLW KOIL
5:30 to 6	KFRC KGO KFO KFOU	KFI KNN KMTR KFWB		KDKA WGR WDAF KDYL WHB WTAM WGY WWJ KOA WLW KSL
6 to 6:30	KFRC KFWH KFM KFOU KFO KGO	KFI KNN KNRC KFOU	KMO KJR KFOA KGW	WTAM WCCO WGS WEAF WHAZ WGY KSL WWJ WSB KOA WLW WJZ WKRC WHAD KDKA WDAF KDYL KSD WGR WGR
6:30 to 7	KGO KFRC KFO KFM KLY KJBS	KFI KNN KNRC KFWO	KMO CJCA KFOA KGW	WDAF WTAM WCCO WGS WEAF KOA KOB WHAZ WWJ KFAE WLW WJAD WGR KSL KDKA KDYL WFAA KSD WSB WGR WJZ WGY WKRC WBS WCAP WCAU WHAD WLW WJAD WJZ WGR WEEI
7 to 7:30	KRE KGO KFO KLX KFRC KJBS	KFWB KNN KFWO KFI KMJ KMTR KNRC	KFOA KGB KJR KTCL	WDAF WDAW KSD KOA WFAA WGR KTHS WTAM WGS WEAF WHAZ KFKX WCAU WWJ KSL WKRC KFAE KOB WCCO KOIL WOO WJR WCAP WHAD WLW WJAD WJZ WGR WEEI
7:30 to 8	KFBK	KFI KNN KFWB KMJ KMTR KNRC	KWSC KTCL KOAC CHBC KFOA CJCA KOB KGW EJR	WEAF WHAZ WTAM KSL WGS KFAE WHAD WGR KFKX WDAW WDAF KOA WJAD KSD KTHS WWJ WKRC WLW WJZ WCCO WCAU KOIL WOO WJR WGR WCAP WEEI
8 to 8:30	KGO KFO KLX KJBS KTAB KFBK KFWH KRE KFRC KFWH KQW	KFI KFOU KTB1 KNN KDSB KFWB KMJ KMTR KNRC	KFOA KJR KSW KOAC KGB CHBC CJCA KWSC KTCL	KSD WDAW WHAZ KOA KTHS WCAU KSL WJZ WDAF WDAW WGR WOO WJR KFKX WEEI WKRC KFAE WTAM WSM
8:30 to 9	KGO KFO KLX KJBS KFRC KTAB KFWH KRE KFBK KFWH KQW	KFI KFOU KDSB KNN KFWB KTB1 KMJ KMTR KNRC	KFOA CKCD KTCL CHBC KGB KJR KGW KWSC	KDYL WKRC WTAM WOO WJR WEEI KFKX KSD WDAW WHAZ KOA KTHS WSM KSL WJZ WGR
9 to 9:30	KRE KFBK KFWH KLX KTAB KFRC KJBS KFWH KQW KGO KFO	KFI KFWB KNN KFOU KMTR	KFOA KMO KJR CKCD CFAC KGW	WSB KSD KDYL WKRC WTAM WGR KOIL WJR KOA KSL KTHS
9:30 to 10	KGO KFO KRE KLX KTAB KFBK KFRC KFWH KJBS KQW	KFI KFWB KNN KFOU KMTR	KFOA KMO CFAC KJR KGW	WSB KSD KDYL WKRC WTAM WGR KOIL KSL KTHS WJR
10 to 10:30	KLX KFO	KFI KNN KFWB KMTR	CFAC KJR	WDAF KDYL KGO WKRC KSL
10:30 to 11	KFO	KFI KNN KFWB KMTR	CFAC KJR	WDAF KGO WKRC KSL
11 to 11:30		KNN KFWB		KGO
11:30 to 12		KNN KFWB		

KYW radiocasts news items every half hour—on the hour and on the half—during day and night

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PROGRAMS FOR MONDAY

JANUARY 4, 1926



Mrs. H. L. Terry
KGO—9:30 p. m.



Edward Ludes
KJBS, Announcer



Emma Frier
KRE—3 p. m.



Galt Bell
KRE—8 p. m.

361 Meters

KGO

830 Kilocycles

General Electric Company, Oakland, Calif.

- 11:30 a. m. to 1 p. m.—Luncheon concert
12 noon—Time signal
12:30 p. m.—U. S. Weather report
1:30 p. m.—Stock and weather reports
3 to 4 p. m.—Musical program. Also, interpretation of the classics by Wilda Wilson Church
5:30 to 6 p. m.—Aunt Betty stories and KGO Kiddies' Klub, Ruth Thompson
6 to 7 p. m.—Dinner concert, courtesy Baldwin Piano Company, Knickerbocker Trio
7 p. m.—News items, weather bureau report, stock reports, S. F. produce news
8 p. m.—Educational program
Arion Trio—
Selection from "Pagliacci".....Leoncavallo
8:05 p. m.—Farm program
Arion Trio—
Torch Dance.....German
8:25 p. m.—"Chats About New Books," Joseph Henry Jackson
Cello solo, Margaret Avery—
Serenade.....Schubert
8:50 p. m.—"Better English," Wilda Wilson Church
Piano solo, Joyce Holloway Barthelson—
Seguidilla.....Albeniz
9:15 p. m.—"How to Help the Bright Child Make the Most of His Gifts," Dr. Albertine Richards Nash
Violin solo, Josephine Holub—
Canzonetta.....d'Ambrosio
9:30 p. m.—"Shall We Too Enjoy Radio?"
Mrs. Howard L. Terry, President, California Association of the Deaf
Arion Trio—
Tavane.....Couperin-Kreisler

294 Meters

KTBI

1020 Kilocycles

The Bible Institute of Los Angeles, Calif.

- 8 to 9 p. m.—Program by Huntington Beach talent. Mrs. Rosa Rawley, contralto; Miss Wilma Potoff, pianist and accompanist; Dr. Ralph Hawes, tenor. In addition to the musical program Rev. Luther Arthur, pastor of the Huntington Beach Baptist Church, will give a short New Year's address on "The Man of Sorrows and the Man of Sin"

467 Meters

KFI

640 Kilocycles

Copyright 1925 by E. C. Anthony, Inc., L. A.

- 5:30 p. m.—L. A. Examiner matinee program
6 p. m.—KFI Nightly Doings
6:15 p. m.—KFI's Seeing California
6:30 p. m.—Vest Pocket Concert
6:45 p. m.—KFI Radiatorial Period
7 p. m.—A varied program, presenting Thos. Wood, baritone; Emma Kimmel, soprano; Evelyn Pickrell, violinist, and Leila Isbell, pianist
8 p. m.—Drury Lenington, tenor, and Margaret Johnston, violinist
9 p. m.—Program of Walter M. Murphy Motors Company, featuring prominent radio favorites
10 p. m.—Program presented by L. A. Examiner

491.5 Meters

KGW

610 Kilocycles

The Morning Oregonian, Portland, Oregon

- 7:15 a. m.—Y. M. C. A. Physical Culture Exercises
10:30 a. m.—The Town Crier, music, weather report, news items and shopping guide
12:30 to 1:30 p. m.—Rose City Trio
6 to 7 p. m.—Dinner concert
7:30 to 7:45 p. m.—Weather, market and police reports, news items and sporting results
8 to 9 p. m.—Concert
9 to 10 p. m.—Concert, courtesy the Hudson and Essex Dealers of Oregon

220 Meters

KJBS

1360 Kilocycles

Julluz Brunton & Sons Co., San Francisco

- 9 to 10:45 a. m.—Vocal and instrumental selections
2 to 2:30 p. m.—Vocal and instrumental selections
6:30 to 7:30 p. m.—Dinner hour concert by Frank Taylor's El Camino Orchestra
8 to 9 p. m.—Sandy's Franciscans from Puckett's will give an orchestra program with some vocal intermission numbers
9 to 10 p. m.—Studio program by the Goldstein Amusement Agency under the management of Fred Carlyle and Charles Ellsworth

Monday Programs—Continued

240 Meters

KTAB

1250 Kilocycles

Tenth Ave. Baptist Church, Oakland, Calif.

- 9 to 9:30 a. m.—Prayer service by Rev. E. L. Spaulding
4 to 6 p. m.—Radiocast of Calif. Federation of Women's Clubs, Mrs. Lydia Warren Lister, chairman of radio publicity
8 to 10 p. m.—Western States Life Insurance Company program under the direction of Grace Adams East
Trio, Dorothy Dunyon, violin: Winston Petty, 'cello; Claire Harsha Upshur, piano—
My Lady Chloce.....Burleigh
Tenor solos, Erwin Holton—
Forgotten.....Cowles
Little Holes in Heaven.....Hope
Piano solos, Dorothy Wines Reed—
Juba Dance.....Dett
Turkish March.....Beethoven-Rubenstein
Soprano solos, Claire Harsha Upshur—
Love Tide of Spring.....Glazanov
Summer.....Chaminade
Cornet solos, Grace Adams East—
Macushia.....Macmurrough
Irish Love Song.....Lang
Violin solos, Dorothy Dunyon—
Spanish Dance.....Granados-Kreisler
Canto Amoroso.....Elman
Tenor solos, Erwin Holton—
Dreamin' Time.....Strickland
In a Little Town Near By.....Maley
Trio selection—
Waltz, "Eugene Onegin".....Tchaikowsky
'Cello solo, Winston Petty—
Hungarian Rhapsodie.....Popper
Cornet solos, Grace Adams East—
Giannina Mia (Firefly).....Friml
A Japanese Sunset.....Deppen
Soprano solos, Claire Harsha Upshur—
Little Sunflower.....Vanderpool
Lindy Lou.....Strickland
Violin solos, Dorothy Dunyon—
Boisepais.....Lolly
Kreisler's Rondino
Tenor solos, Erwin Holton—
Love's Old Sweet Song.....Molloy
Annie Laurie.....Scott
'Cello solos, Winston Petty—
Negro Croon.....Hartman
Scherzando.....Mendelssohn
Trio selection—
Selections from "The Student Prince"
.....Romberg

405.2 Meters

KHJ

740 Kilocycles

Los Angeles Times, Los Angeles, California

- 7 to 7:15 a. m.—Exercises, Prof. B. L. Severns
12 to 12:30 p. m.—Leighton's Cafeteria Orchestra, directed by Jack Cronshaw
12:30 to 1:30 p. m.—Program presenting Way Watts and his ukulele, and others

283 Meters

KOAC

1060 Kilocycles

Oregon Agricultural College, Corvallis, Ore.

- 7:20 p. m.—Musical selections
7:30 p. m.—Agricultural question box
7:45 p. m.—"Home Caring Work," A. W. Oliver
7:55 p. m.—Market news interpretations
8 p. m.—"Seasonable Instructions for Livestock Club Members," L. J. Allen
8:15 to 8:30 p. m.—"Reducing Cost of Dry Land Wheat Production," H. D. Scudder

428 Meters

KPO

700 Kilocycles

Hale Bros. & The Chronicle, San Francisco

- 7, 7:30 and 8 a. m.—Daily dozen exercises given under the direction of the Y. M. C. A.
10:30 a. m.—Ye Towne Cryer and amusement information service; weather forecast
12 noon—Time signals; scripture reading
1 to 2 p. m.—Rudy Seiger's Fairmont Hotel Orchestra
2:30 p. m.—Studio program
5:15 to 6:15 p. m.—Children's hour stories by Big Brother
6:15 to 6:30 p. m.—Stock quotations
6:30 to 6:40 p. m.—Ye Towne Cryer and amusement information service
6:40 to 7 p. m.—Waldemar Lind and the States Restaurant Orchestra
7 to 7:30 p. m.—Rudy Seiger's Fairmont Hotel Orchestra
8 to 9 p. m.—Organ recital by Uda Waldrop at the Wuriltzer Organ
9 to 10 p. m.—Simultaneous radiocast by KFI, Los Angeles and KPO of a program being presented at KFI for the Walter Murphy Motor Car Company, Los Angeles
10 to 11 p. m.—Waldemar Lind and the States Restaurant Orchestra

252 Meters

KFWB

1190 Kilocycles

Warner Brothers, Hollywood, California

- 6 to 6 p. m.—Children's hour, conducted by Big Brother of KFWB with stories, educational subjects and answers to children's questions taken from The Book of Knowledge
7 to 8 p. m.—Microphone Brevities
8 to 9 p. m.—Varied program
9 to 10 p. m.—Vocal and instrumental program
10 to 11 p. m.—Warner Bros. frolic
11 to 12 p. m.—Henry Halstead's Orchestra, radiocasting over KFWB by remote control from the Hollywood Roof Ballroom

238 Meters

KMTR

1260 Kilocycles

K. M. Turner, Hollywood, California

- 9 a. m.—"Dad's Hour" by Dad King
1 p. m.—Chester Baake, "Gardening"
1:30 p. m.—E. Wynn Boyden will talk on "Bees"
2 p. m.—Easy Chair Hour by Starr Piano Co.
6 p. m.—Home hour, conducted by Georgia Simmons. The "music hour" with Walter Benson, Helen Frances Levy, Billy Henderson, pianist; Betty McKay, pianist, Emily Edna Jones, Jewell Beth Peach and Marjorie Zimmer
7:15 p. m.—Program through courtesy of the Los Angeles Y. M. C. A.
8 to 10 p. m.—KMTR Concert Hour, presenting the Turner Orchestra
10 to 11 p. m.—Starr Piano Co.

306 Meters

KTCL

980 Kilocycles

New Washington Hotel, Seattle, Wash.

- 9:30 to 9:45 a. m.—Weather report; stock and bond quotations
9:45 to 10 a. m.—Fraser-Paterson Department Store studio program
10 to 10:15 a. m.—"Exercise Over the Air," by T. G. "Van" Cook
10:15 to 10:30 a. m.—Daily recipes. Announcements from the public markets
7 to 8 p. m.—New Method Laundry and Pantorium Dye Works Co. Orchestra
8 to 9 p. m.—Seattle Police Publication, "Main 7810"; Seattle Police Band

(Programs continued on next page)

Monday Programs—Continued

256 Meters

KRE

1170 Kilocycles

Berkeley Daily Gazette, Berkeley, California

7:30 a. m.—Good Thought Service, conducted by Dr. Miles B. Fisher

11:15 a. m.—Physical exercises for women, conducted by Dorothy Barron

7 p. m. Current news

8 to 10 p. m.—Studio program. The KRE Players under the direction of Miss Ruth Taft, will present the old favorite "Uncle Tom's Cabin." Incidental music by the Diana Trio, Willa Conzelman director

384.4 Meters

KJR

780 Kilocycles

N. W. Radio Service Co., Seattle, Wash.

10:30 to 11:30 a. m.—Frederick & Nelson; musical program and talks

1 p. m.—Time signals

1:15 to 2 p. m.—Organ recital

2 to 2:15 p. m.—"Home Helps," talk by Bernice Redington of the Post Intelligencer staff

2:15 to 2:30 p. m.—Produce report

5:40 to 6 p. m.—Stock quotations

6 p. m.—Time signals

6 to 6:30 p. m.—What's doing at the theaters; weather reports

7 to 8:30 p. m.—Sears-Roebuck & Co. program

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

10 p. m.—Time signals

10 to 11 p. m.—Dance program by Gordon Kilbourne and his Orchestra

261 Meters

KFWA

1150 Kilocycles

Browning Bros. Company, Ogden, Utah

3 to 4 p. m.—Organ recital

4 to 6 p. m.—Ogden Radio Dealers program

220 Meters

KFUU

1360 Kilocycles

Mathewson Motor Company, Oakland, Calif.

10:45 to 11:45 a. m.—Concert and news items

5:30 to 6:30 p. m.—Scotty and His Clan

232.4 Meters

KFON

1290 Kilocycles

Echophone Radio Shop, Long Beach, Calif.

10 a. m.—Daily shopping tour

4 to 4:30 p. m.—Late news and sports

4:30 to 5 p. m.—Amusement bulletin

6 to 6:30 p. m.—Organ recital

8 to 9 p. m.—Program from Municipal Auditorium

9 to 10 p. m.—Arlys Anderson, musical hour

454.3 Meters

KFOA

660 Kilocycles

Rhodes Department Store, Seattle, Wash.

12:45 to 1:30 p. m.—The Lions Club program

2 to 4 p. m.—Program by Women's Clubs of Seattle and the Pacific Northwest, arranged by Mary Gordon

4 to 5:15 p. m.—The Times program

5 to 6:45 p. m.—Hoffman's Concert Orchestra

6:45 to 8:15 p. m.—Sherman, Clay Co. program

8:15 to 8:30 p. m.—Industrial news. Weather report

8:30 to 10 p. m.—Goodrich Silvertown Cord Orchestra

268 Meters

KFRC

1120 Kilocycles

City of Paris Dry Goods Co., San Francisco

10 a. m.—Household Hints by Mary Lewis Haines, Domestic Science Editor S. F. Call

5:30 to 6:30 p. m.—Mac and His Gang. The Stamp Man, Mr. Merrell

6:30 p. m.—Police report and announcements

6:35 to 7 p. m.—Jo Mendell and His Pep Band.

Lido's Cafe

7 to 7:15 p. m.—"Law Talks" by Marcus L. Samuels, "Motor Vehicle Act"

7:15 to 7:30 p. m.—"Intakes and Exhausts," Gasoline George

8 to 9 p. m.—"Mac" Round the Camp-fire

9 to 9:15 p. m.—Elsie Robinson, talk on "Psychology"

9:15 to 10 p. m.—Theater Arts Club Players, under the direction of Talma Zetta-Wilbur

508 Meters

KLX

590 Kilocycles

The Oakland Tribune, Oakland, California

4 to 5 p. m.—Women's hour

5 to 6:30 p. m.—Aunt Elsie's sunset matinee

6:30 to 7 p. m.—Athens Athletic Club Orchestra

7 to 7:30 p. m.—News items

8 to 9 p. m.—Concert by British War Veterans'

Kiltie Band

9 to 10:30 p. m.—Meeting of the Protective

Order of Lake Merritt Ducks

322.4 Meters

KOA

930 Kilocycles

General Electric Company, Denver, Colorado

10:45 a. m.—Weather; road reports; stocks; markets; livestock and produce

11:15 a. m.—Rialto theater musicale

5 p. m.—Stocks, markets, livestock; produce, and news bulletins

5:30 p. m.—Dinner concert, Brown Palace String Orchestra

6:30 p. m.—Sandman's hour

7 p. m.—Radio instruction in conversational Spanish, conducted by Prof. Amanda Lopez Knecht, Spanish departments, Denver high schools

8 p. m.—Radio instruction in auction bridge, conducted by studio players

8:30 p. m.—Special studio program, featuring June King, contralto, accompanied by Abbie Chase at the piano. Numbers include "Immortality," "Jasmine Door," "Bird of Love Divine," "Break o' Day," "The Rosary," and "Sweet Little Woman o' Mine"

248 Meters

KFBK

1210 Kilocycles

The Sacramento Bee, Sacramento, Calif.

7:30 p. m.—Weather reports and announcements

7:35 p. m.—Estelle Swearingen Murray's story for the children

8 p. m.—Musical entertainment

9 p. m.—Californians Dance Orchestra

10 p. m.—Closing announcements

207 Meters

KFWM

1450 Kilocycles

Oakland Educational Society, Oakland, Cal.

8 to 9:30 p. m.—Vocal and instrumental music. Educational lecture. Study lesson

Monday Programs—Continued

337 Meters

KNX

890 Kilocycles

Los Angeles Evening Express, Los Angeles
 7:30 a. m.—KNX morning gym, by J. C. Casey
 8 a. m.—Inspirational talk and morning prayer
 9 a. m.—Time signals; birthday notices
 10 a. m.—Town Crier of day's morning message
 10:30 a. m.—Household economics, Kate Brew
 Vaughan
 12 to 1 p. m.—West Coast theaters program
 1:30 p. m.—The Book Worm
 2 to 4 p. m.—Radio matinee
 4 p. m.—Helen's household hints
 5 to 5:30 p. m.—Sunny Jim's children's hour
 5:30 to 5:45 p. m.—Wurlitzer organ concert
 5:55 p. m.—The Town Tattler
 6:15 p. m.—W. F. Adler travelogue
 6:30 to 7 p. m.—Atwater Kent orchestra
 7 to 7:30 p. m.—Mutual Motors Inc., mirth con-
 test
 7:30 to 8 p. m.—Columbia Outfitting Co. pro-
 gram
 8 to 9 p. m.—L. W. Stockwell Co. program
 9 p. m.—Feature program
 10 to 11 p. m.—Goodrich Silvertown Cord Or-
 chestra
 11 to 12 p. m.—Hotel Ambassador, Ray West's
 Coconut Grove Orchestra

349 Meters

KWSC

860 Kilocycles

Washington State College, Pullman, Wash.
 7:30 to 9 p. m.—Studio program
 Vocal solos, Freda Peterson
 Piano solos, Erlene Loffler
 Violin solos, Marion Shepherd
 "Building an Efficient Career," No. 4 Psy-
 chology of Efficiency, Dr. F. F. Nalder
 Astronomy No. 3, "The Stellar Universe,"
 C. D. Calogieris
 "January Farm Situation," R. M. Turner
 Readings, Cleah Cooper

476 Meters

CNRR

630 Kilocycles

Canadian National Railways, Regina Sask.
 7 p. m.—Studio program

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SCHEDULES FOR TUESDAY

January 5, 1926

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

a. m.	Central Calif.	Southern Calif.	Pacific N. W.	Inland
6:30 to 7	KFRC			
7 to 7:30	KFRC KPO	KHJ		
7:30 to 8	KPO KRE KFRC	KNX		
8 to 8:30	KFRC KPO	KNX		
8:30 to 9				
9 to 9:30	KJBS KTAB	KMTR		
9:30 to 10	KJBS	KMTR	KTCL	
10 to 10:30	KJBS KPO	KFON KMTR	KTCL	
10:30 to 11	KFOU KFWB	KFSG KNX	KGW KJR	WFAA KFKX
11 to 11:30	KFOU KRE KFWB	KFSG	KJR	KOA KFKX
11:30 to 12	KGO	KFSG	CJCA	KOA KFKX
p. m.				
12 to 12:30	KGO KFRC	KHJ KNX KFSG	CJCA	W U
12:30 to 1	KGO	KHJ KFWB KNX	KFOA KGW KTCL	WHR
1 to 1:30	KPO	KHJ	KFOA KGW KJR KTCL	WOC
1:30 to 2	KGO KPO	KNX	KJR	WDAF
2 to 2:30	KJBS	KHJ KNX KMTR	KJR KFOA	KDYL WDAF
2:30 to 3	KPO	KHJ KNX KFON KMJ KMTR	KFOA	KDYL KOA
3 to 3:30	KPO	KHJ KFON KMTR KNX	CFAC KFOA	WSB WDAF WWJ WTAM KDYL KOA KFWA
3:30 to 4	KPO	KHJ KNX KFSG KFON	KFOA	WSB WWJ WTAM KFKX WFAA KFAB KFWA
4 to 4:30	KGO KGW KPO	KNX KFSG KFON KNRC	KFRC KFOA	WDAF WGW WOAW WWJ WOC KFWA KFAF KFKX
4:30 to 5	KGO	KFON	KFRC KFOA	WDAF WOAW WWJ WOC WFAA KFWA KFKX
5 to 5:30	KGO	KFWO KMTR KFWB KNI		KDKA WOAW KOA WGY WLS WGBS WWJ WFAA WHEO WLW KTW KOIL WHE WQJ
5:30 to 6	KPO KFRC KGO	KFWO KNX KMTR KFI KFWB		WWJ WOC KOA WHEO WLW KTW KOIL KSL WBAF KDYL KDKA WGY WLS WGBS WQJ
6 to 6:30	KFWB KZM KGO KFRC KPO	KFI KNX KHJ KFON	KJR KFOA KGW	KSD WMAQ WGY WDAF WLW WHEO KOIL WSB WBAF WLW KDYL KDKA WLS KTW WGBS WWJ WCOO WOC KOA WIP WEAR WCOB KLOS WENR KSL
6:30 to 7	KFRC KFWB KFOS KGO KZM KPO KFOU	KHJ KFSG KNX KFI KFWO	KFOA CJCA CKCK KGW	KDKA KTW WFAA KIZ WDAL WOC WHEO KOA KFAF WEAR WCOB WJR WGR KLOS WEAF WWJ WGBS WCOO WSB WLW WIP WGY KSD KDYL WLW WMAQ WGN WLS WRC WENR WJZ KOIL KFAU KSL
7 to 7:30	KGO KPO KLS KFOS KFRC KFOU KRE	KHJ KFI KNX KFSG KFWO KNRC KFWB	CFAC CKCK CNRR KGB KJR	WFAA KTW KSD WOAW WOI WLW WCOA KTHS WLS WIP WEAF WGBS WGN KFAU WGY KSL KFAW WOC WMAQ WEAR WJR WWJ WRC WENR WJZ WJY WJR WEEI WCOO WLW WEBB WGR WCOB KLOS
7:30 to 8		KNRC KFWB KMTR KFWO KFI KNX KHJ	CNRR KGW KGB CNRV CFAC CKCK CHBC KJR	WJZ WCOO WCOB WRC WENR KTW WCAU KTHS WIP WEAF WGBS WJB WEAR WGR WLW WGY KSL KFAW WOC WMAQ WEBB WBAF KSD WOAW WOI WLW WEEI WJY KFAU WJR
8 to 8:30	KFRC KGW KFOR KGO KPO KFOU KTAB KGT KFSG KGW	KTBI KFI KNX KFSN KNRC KZB KFON KHJ KFWB KMTR	CHBC CKCK KFOA KGB KGW CNRR KTCL KJR	WLW KDYL KFAW WGBS WIP WMAQ WRC WOAI WLS WKRC KTHS WEAF WJZ KSL WBAF WOAW KSD WQJ KTW WGY WOC WJY WBCN WEEI WCAU WEAR KFAU
8:30 to 9	KFRC KPO KGT KPO KTAB KFOU KGO KGW KFSG KQW	KZB KFON KFWB KFSN KNRC KNX KFI KHJ KTBI KMTR	KGY KJR CNRR KTCL CHBC CKCK CKCK KGB KGW CNRV KFOA	WOAW KDKA WQJ WLS WIP WGY WGN KSL KSD WKRC KDYL WMAQ WGBS WEAF KTW WJZ WOC WJY WBCN WEEI WEAR KTHS KFAU WOC
9 to 9:30	KGO KPO KRE KQW KFRC KFOU KFOU KTAB KPOB	KFI KHJ KNX KFON KFWB KMTR KFSN	KJR KGY CKCD KQW KGB KFOA CNRV	WQJ WLS WSB WFAA KFOR KOIL KTHS WGN KTW WOAW WEBB KDKA WKRC WBCN KSL
9:30 to 10	KGO KPO KRE KQW KFRC KFOU KFOU KTAB KPOB	KFWB KMTR KNX KFI KHJ KFON	KGW KFOA KJR KGB CNRV	KOIL WQJ KTW WKRC WBCN KSL WSR WFAA WLS KFOR WOAW WEBB
10 to 10:30	KFRC KGO KFOU KPO KRE	KHJ KFI KNX KFWB KFON	CFCN KGW KFOA KGB CNRV KJR	WDAF WOAW KFOR KGO WEBB WQJ WRCN
10:30 to 11	KGO KPO KRE KFRC	KHJ KFI KNX KFWB KFON	CFCN KGB KFOA KGW CNRV KJR	WDAF WOAW KFOR KGO WEBB WQJ WRCN
11 to 11:30		KNX KFWB	CFCN KGB KFOA KGW CNRV KJR	KGO KTW WQJ WBCN
11:30 to 12		KNX KFWB	CFCN KGB KGW CNRV KJR	KTW WQJ WBCN

KYW radiocasts news items every half hour—on the hour and on the half—during day and night

Navy's Radio Serves Many Interests

ALTHOUGH the Navy's radio service is operated chiefly for maintaining the communications of the Navy afloat and ashore, it serves a multitude of other interests. Reviewing its activities, it is seen that during the past year the Naval shore radio stations handled over 21,000,000 words for other Governmental bureaus, 4,000,000 words of commercial traffic and 2,500,000 words of press. Counting its own dispatches, this totals 78 million words. The communication office in the Navy Building at Washington alone, handled nearly 12,000,000 words, at least a fourth of which were official matter for other Government agencies.

An estimate of what this business would have cost the Government if handled commercially would probably be a figure for the President's economy statisticians to enthuse over. One figure available is that \$250,000 has been deposited in the Treasury by the Navy as collections for commercial traffic handled.

Free radio compass bearings, available to all commercial ships, served 64,497 vessels, including 58,723 merchantmen, and were sent by 57 stations. Other aids to both marine and shore interests include the dispatch of from two to six daily weather bulletins from thirty stations and hydrographic information from twenty stations. Time signals, now so vital ashore, as well as at sea, comprise two radiocasts daily from seventeen stations, including the well-known Arlington signals from NAA. Six other Naval radio stations now radiocast press news daily for ships at sea; it is in code, however, and can be handled only by operators, so is not available for the average listener-in.

Much of the development work of the Naval engineering bureau on radio has been found of great practical value to the commercial radio industry as well as of vital use to the Naval communication service. During the past fiscal year experiments with

high-frequency or short-wave radio communications have aroused marked interest because of their great range with low power. Radio scientists and amateurs here and abroad have co-operated with the Naval research laboratory at Bellevue, Va., in many interesting experiments, while the Signal Corps of the Army has also assisted in development work along these lines. The outstanding accomplishment of the year is believed to have been the elucidation of the laws governing high-frequency radio transmission. Besides gaining a knowledge of the higher layers of the earth's atmosphere, the study has also shown that radio wave propagation at all frequencies is in accord with a single fundamental law, but that as frequencies increase above a certain point, factors which at low frequencies are of relatively small importance become of controlling value. The practical application of this discovery may permit the design and construction of apparatus with ranges in excess of present high-powered stations at greatly decreased expenditures and reduced maintenance costs.

Practical uses of high-frequency circuits in long distance transmission and reception have been made by the Navy; the increase in traffic handled by this method is pronounced as phenomenal. Almost every naval station and a large number of vessels have built short-wave receivers so as to co-operate with the Bellevue laboratory in reception tests. Extraordinary results were secured in communicating with the fleet in the distant Pacific. Regular traffic on high frequencies is now handled between Bellevue and stations in California, Canal Zone, Hawaii, Tutuila, Samoa, England and the Fleet. During McMillan's Arctic exploration, the Navy's high-frequency circuit was used successfully.

Another function of the laboratory may be the radiocasting of time signals to scientists throughout the world, especially in the

(Continued on Page 61)

Fully comparable
with Radio in the
pleasure which
it brings

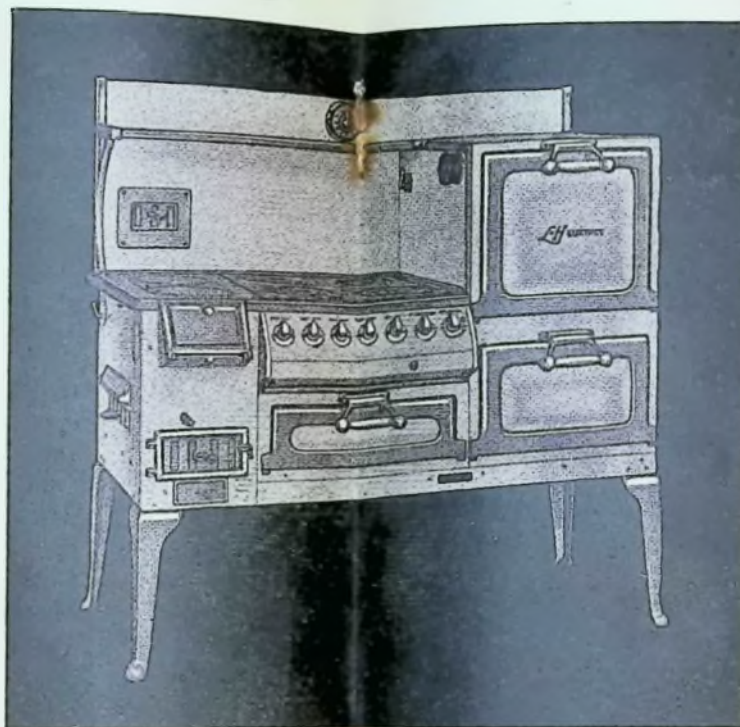
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SAN FRANCISCO, CAL.

PROGRAMS FOR TUESDAY

JANUARY 5, 1926



Easton Kent
KGO—9 p. m.



Margaret O'Dea
KGO—8 p. m.



Caleb Lundquist
KPO—8 p. m.



Sarah Kreindler
KPO—8 p. m.

467 Meters

KFI

540 Kilocycles

Copyright 1925 by E. C. Anthony, Inc., L. A.

- 5:30 p. m.—L. A. Examiner matinee program
6 p. m.—KFI Nightly Doings
6:15 p. m.—KFI's Seeing California
6:30 p. m.—Vest Pocket Concert
7 p. m.—A special sponsored program
8 p. m.—Program presented by L. A. Examiner
9 p. m.—Program of dance music, by Mabelle Hein and her Blue Bird Band
10 p. m.—Packard Ballad Hour, featuring Billy Hall, Charles Cole, Marion Boogar, Madeline Hardy, Bobbie Gross, Polly Grant Hall, Dolly MacDonald, the Ashley Sisters

405.2 Meters

KHJ

740 Kilocycles

Los Angeles Times, Los Angeles, California

- 7 to 7:15 a. m.—Exercises, Prof. B. L. Severns
12 to 12:30 p. m.—Leighton's Cafeteria Orchestra, directed by Jack Cronshaw
12:30 to 1:30 p. m.—Program presenting the Piggly Wiggly Girls
2:30 to 3:30 p. m.—Matinee program
6 to 6:30 p. m.—Leighton's Cafeteria Orchestra
6:30 to 7:30 p. m.—Children's program presenting Prof. Walter Sylvester Hertzog, radio historian; weekly visit of the Radio Fairies, Queen Titania and her Sandman; Charles Leslie Hill, 4-year-old reader, and Lenore Killian contralto
7:30 p. m.—H. M. Robertson will talk on "Dogs"
7:45 p. m.—George Barnes, president of the American Reforestation Association, will speak
8 to 10 p. m.—Program through the courtesy of Cochrane Brothers (Caswell Coffee)
10 to 11 p. m.—Biltmore Hotel Dance Orchestra

220 Meters

KJBS

1360 Kilocycles

Jullus Brunton & Sons Co., San Francisco

- 9 to 10:15 a. m.—Vocal and instrumental selections
10:15 to 10:30 a. m.—Interesting chiropractic talks by Dr. Buren L. Corley
10:30 to 10:45 a. m.—Vocal and instrumental
2 to 2:30 p. m.—Vocal and instrumental selections

268 Meters

KFRC

1120 Kilocycles

City of Paris Dry Goods Co., San Francisco

- 6:30, 7, 7:30, 8 a. m.—Physical Culture Course, Bernard Drury
12 noon to 12:20 p. m.—Inspirational talk by Mary Katherine Maule
5:30 to 6:30 p. m.—Mac and His Gang
6:30 p. m.—Police reports and announcements
6:30 to 7 p. m.—Fred McKinley of Bijin's, popular songs
7 to 7:15 p. m.—Talk by J. M. Cunningham
8 to 9 p. m.—Studio program
9 to 9:30 p. m.—Carl Lamont's popular program featuring, Paula George and the Wayland Sisters
9:30 to 11 p. m.—Continuous dance music from Balconades Ballroom by Walter Krausgrill and his Orchestra and William Backstedt's Old-Timers Orchestra

337 Meters

KNX

890 Kilocycles

Los Angeles Evening Express, Los Angeles

- 7:30 a. m.—KNX morning gym, by J. C. Casey
8 a. m.—Inspirational talk and morning prayer
9 a. m.—Time signals; birthday notices
10 a. m.—Town Crier of day's morning message
10:30 a. m.—Household economics, Kate Brew Vaughan
12 to 1 p. m.—Wurlitzer organ recital
1:30 p. m.—The Book Worm
2 to 3 p. m.—Mother's hour; an hour of music and educational talks in interest of children
3 to 4 p. m.—Matinee program
6 to 6:30 p. m.—Sunny Jim's children's hour
5:30 to 6:15 p. m.—Wurlitzer organ concert
5:55 p. m.—The Town Tattler
6:15 p. m.—W. F. Alder travelogue
6:30 to 7 p. m.—Atwater Kent orchestra
7 to 7:45 p. m.—Studio program
7:45 p. m.—Talk on health by Dr. R. T. Williams
8 to 10 p. m.—Feature program
10 p. m.—Movie Night Ambassador Hotel

207 Meters

KFWM

1450 Kilocycles

Oakland Educational Society, Oakland, Cal.

- 2 to 2:30 p. m.—Educational talk

Tuesday Programs—Continued

361 Meters

KGO

830 Kilocycles

General Electric Company, Oakland, Calif.

- 11:30 a. m. to 1 p. m.—Luncheon concert
 12 noon—Time signal
 12:30 p. m.—U. S. weather report
 1:30 p. m.—Stock and weather bureau reports
 4 to 5:30 p. m.—Concert Orchestra of the Hotel St. Francis, San Francisco, Vinton La Ferrera, conducting
 6:30 p. m.—"As a Woman Thinketh," Louise Landis, newspaper woman's page writer
 7 to 7 p. m.—Dinner concert, courtesy Baldwin Piano Company, Knickerbocker Trio
 7 to 7 p. m.—Twilight Concert from the Willey B. Allen Company studio, San Francisco
 7 p. m.—News items, weather bureau reports, stock reports and S. F. produce news
 8 to 9 p. m.—Eveready Hour
 Concert Orchestra, V. La Ferrera director—
 Dance of the Serpents.....Boccalari
 Two Woodland Sketches.....von Blon
 Woodland Whispers
 Whispering Flowers
 Violin solos, Vinton La Ferrera—
 Spanish Dance.....Rehfield
 Tarantelle.....Sarasate
 Contralto solos, Margaret O'Dea—
 Mon coeur s'ouvre a ta voix (My Heart at Thy Sweet Voice).....Saint-Saens
 Ave Maria.....Bach-Gounod
 Danny Boy.....Weatherly
 Concert Orchestra, V. La Ferrera director—
 Melodious Memories.....Finck
 Contralto solos, Margaret O'Dea—
 Stride la vampa from "Il Trovatore".....Verdi
 Irish Love Song.....Lang
 A Dream.....Bartlett
 Concert Orchestra, V. La Ferrera director—
 Bits of Grand Opera.....La Ferrera
 9 to 9:30 p. m.—Song recital by Easton Kent, tenor, assisted by Louise Marleau, pianist
 Tenor solos, Easton Kent—
 Phyllis Has Such Charming Graces.....Wilson
 I Know of Two Bright Eyes.....Clutsam
 Little Betteese.....O'Hara
 Piano solo, Louise Marleau—
 Ballade in G Minor.....Chopin
 Tenor solos, Easton Kent—
 Sweet Little Woman o' Mine.....Bartlett
 O Flower of All the World.....Finden
 9:30 p. m.—"Auction Bridge Feature"
 10 to 11 p. m.—Dance music program from the Hotel St. Francis, San Francisco, Girvin-Deuel's California Collegians

294 Meters

KTBI

1020 Kilocycles

The Bible Institute of Los Angeles, Calif.

- 8 to 9 p. m.—Musical program by the Salvation Army Citadel Band, H. A. Gooding, director

305 Meters

KTCL

980 Kilocycles

New Washington Hotel, Seattle, Wash.

- 9:30 to 9:45 a. m.—Weather report; stock and bond quotations
 9:45 to 10 a. m.—Fraser-Paterson Department Store studio program
 10 to 10:15 a. m.—Daily recipes; announcements from the public markets
 12:30 to 1:30 p. m.—Meves' Cafeteria, Henri Damski's Concert Orchestra
 8 to 9 p. m.—International Bible Students' Association studio program

240 Meters

KTAB

1250 Kilocycles

Tenth Ave. Baptist Church, Oakland, Calif.

- 9 to 9:30 a. m.—Prayer Service led by Rev. Geo. W. Phillips
 8 to 10 p. m.—PROGRAM

- Piano Solos, Walter Frank Wenzel
 Valse in C Sharp Minor.....Chopin
 Prelude C Sharp Minor, opus 45.....Chopin
 Contralto Solos, Mrs. Byron McDonald;
 Walter Wenzel, Acc
 Only to Thee, arr. of the "Swan"
Saint-Saens
 Can't Remember.....Alma Goatley
 Harp solos, Ruth Linrud (with voice)—
 Norwegian Folksong
 Can You Remember.....J. J. Riels
 Soprano Solos, Mme. Dorothy Raegen Talbot;
 Estelle Drummond Swift, Acc
 April Morn.....Eatten
 Song of India.....Rimsky-Korsakow
 Cello Solos, Elsa Melville—
 Cantilena.....Goltermann
 Believe Me if All those Endearing Young
 Charms.....Old Irish
 Bass Solos, Victor Vogel—
 When the Roses Bloom.....Reichart
 O Promise Me (from Robin Hood).....de Koven
 Piano Solos, Walter Frank Wenzel—
 Cordova.....Abeniz
 A Sacred Fire Dance.....Del Salla
 Trio, Elsa Melville, 'cello; Walter Wenzel,
 piano; Mrs. Byron McDonald, contralto—
 I'll Sing Thee Songs of Araby.....Clay
 Drink to Me Only with Thine Eyes.....Old English
 Soprano Solos, Mme. Dorothy Raegen Talbot
 In Cuba.....Folksong
 Flowers.....Cevignani
 Harp Solos, Ruth Linrud (with voice)—
 Annie Laurie.....Tinto
 A Fantasy.....Victor Vogel
 Bass Solos.....Bond
 I Love You Truly.....Taylor
 Viking Song.....Chopin
 Cello Solos, Elsa Melville—
 Nocturne.....Saint Saens
 Allegro Appassionata.....Saint Saens
 Contralto Solos, Mrs. Byron McDonald—
 Salut D'Amour (Pansies).....Elgar
 Come to the Fair.....Martin
 Harpist and Soprano, Ruth Linrud—
 Military March.....Basha
 Good Night.....Halikes
 Bass Solos, Victor Vogel—
 The Americans Come.....Foster
 Goodbye.....Tosti
 Soprano Solos, Mme. Dorothy Raegen Talbot—
 Juanita.....Old Song
 Sweet Bird.....Handel

252 Meters

KFWB

1190 Kilocycles

Warner Brothers, Hollywood, California

- 6 to 6 p. m.—Children's hour conducted by Big Brother of KFWB with stories, educational subjects and answers to children's questions taken from the Book of Knowledge
 7 to 7:15 p. m.—Dr. W. I. Schuster, Scientific Chiropractor, gives his weekly health talk
 7:15 to 7:30 p. m.—Microphone brevités
 7:30 to 8 p. m.—Program presented by courtesy of Elmer R. Sly Co.
 8 to 10 p. m.—Varied program
 10 to 11 p. m.—Warner Bros. frolic
 11 to 12 p. m.—Henry Halstead's Orchestra radiocasting over KFWB by remote control from the Hollywood Roof Ballroom

(Programs continued on next page)

Tuesday Programs—Continued

428 Meters

KPO

700 Kilocycles

Hale Bros. & The Chronicle, San Francisco

- 7, 7:30 and 8 a. m.—Daily dozen exercises given under the direction of the Y. M. C. A.
 10 a. m.—Talk on Domestic Science by Virginia Tappan of the Tappan Stove Co.
 10:30 a. m.—Ye Towne Cryer and amusement information service; weather forecast
 10:35 a. m.—Market report on butter, eggs, cheese and poultry
 12 noon—Time signals; scripture reading
 1 to 2 p. m.—Rudy Seiger's Fairmont Hotel Orchestra
 2:30 p. m.—Studio program
 3:30 to 4:30 p. m.—Cyrus Trobbe's Palace Hotel Concert Orchestra
 5:15 to 6:15 p. m.—Children's hour stories by Big Brother, taken from Book of Knowledge
 6:15 p. m.—Stock quotations
 6:30 p. m.—Ye Towne Cryer and amusement information service
 8:40 p. m.—Waldemar Lind and the States Restaurant Orchestra
 7 to 7:30 p. m.—Rudy Seiger's Fairmont Hotel Orchestra
 8 to 9 p. m.—Program by the San Francisco Choral Union, under the direction of Caleb Lundquist, assisted by Sarah Kreindler, violinist, and Irene Hodges, accompanist
 Chorus of Thirty Mixed Voices—Novello
 Tenor solo, James L. McDermott—Lohr
 Little Grey Home in the West—Lohr
 Chorus of Ladies' Voices—Praetorius
 O, Promise Me—Praetorius
 Soprano solo, Ethel Richards Brown—Rossini
 Inflammatus from "Stabat Mater"—Rossini
 Baritone solo, W. G. Belton—Adams
 Thora—Adams
 Chorus of Thirty Mixed Voices—Gounod
 Soldiers' Chorus from "Faust"—Gounod
 Violin solo, Sarah Kreindler—De Beriot
 Ballet Music—De Beriot
 Chorus—Fanning
 Moonlight—Fanning
 Chorus of Sixteen Male Voices—Gruber
 Holy Night, Peaceful Night—Gruber
 Lo, How a Rose E'er Blooming—Praetorius
 Tenor solo by Eert Folsom
 Chorus—Rheinberger
 The Stars in Heaven—Rheinberger
 Whistling solo by Paul Laning
 Male Quartette selection, Caleb Lundquist, 1st tenor; K. I. Hall, 2nd tenor; W. G. Belton, 1st bass; B. J. Richards, 2nd bass
 Chorus of Thirty Mixed Voices—Maker
 Arise, Shine—Maker
 9 to 10 p. m.—Program through the courtesy of the Mona Motor Oil Company
 Mona Motor Oil Trio—Nevin
 A Day in Venice—Nevin
 Tenor solos, Harrison Coles—Plotow
 Aria from "Martha"—Plotow
 Until—Sanderson
 Mona Motor Oil Trio—De Koven
 Flowers of Love—De Koven
 Soprano and contralto duets, Marta and Gypsy—De Koven
 Irish Melodies—De Koven
 Esther—De Koven
 Close Your Eyes—De Koven
 Mona Motor Oil Trio—Mozart
 Largetto—Mozart
 Minuet—Mozart
 Tenor solos, Harrison Coles—Lee
 I Love You More—Lee
 Down to Garry Owen—Osgood

Mona Motor Oil Trio—

Little Grey Home in the West—Lohr
 Soprano and contralto duets, Marta and Gypsy—Lohr
 Dear Old Girl—Lohr
 Dozyland—Lohr
 The Swallows—Lohr

Mona Motor Oil Trio—

Finale Rondo—Haydn
 10 to 11 p. m.—Jack Coakley's Cabiriana, playing at Cabiria Cafe

491.5 Meters

KGW

610 Kilocycles

The Morning Oregonian, Portland, Oregon

- 10:30 a. m.—The Town Crier, music, weather report, news items and shopping guide
 12:30 to 1:30 p. m.—Rose City Trio
 6 to 7 p. m.—Dinner concert
 7:30 to 7:45 p. m.—Weather, market and police reports, news items and sporting results
 7:45 to 8 p. m.—Talk, Oregon Bankers Association
 8 to 10 p. m.—Educational program: Auction bridge lessons; "Style" talk, music by McElroy Quartet
 10 to 12 p. m.—Dance music from Indian Grill of Multnomah Hotel

322.4 Meters

KOA

930 Kilocycles

General Electric Company, Denver, Colorado

- 10:45 a. m.—Weather; road reports; stocks; markets; livestock and produce
 11:15 a. m.—Rialto theater musicale
 2:15 p. m.—Relaxing and corrective exercises
 2:30 p. m.—Matinee for housewives
 3 p. m.—Culinary hints
 3:15 p. m.—Fashion review
 5 p. m.—Stocks; markets; livestock; produce, and news bulletin
 5:30 p. m.—Dinner concert, Brown Palace String Orchestra
 6:30 p. m.—Farm question box

232.4 Meters

KFON

1290 Kilocycles

Echophone Radio Shop, Long Beach, Calif.

- 10 a. m.—Daily shopping tour
 2:30 to 4 p. m.—Long Beach Municipal Band
 4 to 4:30 p. m.—Late news and sports
 4:30 to 5 p. m.—The amusement bulletin
 6 to 6:30 p. m.—Organ recital
 8 to 9 p. m.—Press-Telegram program
 9 to 11 p. m.—The Aero Club of Long Beach high jinx

275.1 Meters

KFSG

1090 Kilocycles

Angelus Temple, Los Angeles, California

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

Tuesday Programs—Continued

256 Meters **KRE** 1170 Kilocycles

Berkeley Daily Gazette, Berkeley, California

- 7:30 a. m.—Good Thought Service, conducted by Dr. Miles B. Fisher
 11:15 a. m.—Physical exercises for women, conducted by Dorothy Barron
 7 p. m.—Current news
 9 p. m.—Educational program.
 Part I—Travelogue talk by E. L. Stetson of Crabtree's Travel Office, "A Trip to Italy"
 9:15 to 10:15 p. m.—Part II
 Program arranged and sponsored by the Town and Gown Club of Berkeley
 10:15 to 11 p. m.—Dance program

238 Meters **KMTR** 1260 Kilocycles

K. M. Turner, Hollywood, California

- 9 a. m.—"Dad's Hour," by Dad King
 9:30 a. m.—Sylvia Szymanski, "The Blind Cook"
 10 a. m.—Dr. T. J. Coulter, cat and dog physician, will talk on "Cats and Dogs"
 2 p. m.—Turner radio program
 2:30 p. m.—Program through courtesy of Los Angeles Parent Teachers Assn.
 3 p. m.—Rev. S. J. Skevington
 5 p. m.—Home hour conducted by Georgia Simmons. The "citizenship hour" with Boy Scouts and Campfire Girls, Billy Lord, Margaret Bond and Beatrice Rainen
 6 to 6 p. m.—Starr Piano Co. program
 7:30 p. m.—E. P. Barclay, lecturer and explorer, will talk on the diamond mines of Central Africa
 8 to 10 p. m.—KMTR Concert Hour, presenting the Turner Orchestra

261 Meters **KFWA** 1150 Kilocycles

Browning Bros. Company, Ogden, Utah

- 3 to 4 p. m.—Organ recital
 4 to 6 p. m.—Ogden Radio Dealers program

220 Meters **KFUU** 1360 Kilocycles

Mathewson Motor Company, Oakland, Calif.

- 10:45 to 11:45 a. m.—Concert and news events
 6:30 to 7:30 p. m.—Scotty and His Clan
 8 to 9 p. m.—R. C. Endriss
 9 to 10:30 p. m.—East Bay Country Club Orchestra

256 Meters **KFUS** 1170 Kilocycles

Sherman School, Oakland, California

- 6:30 to 7:30 p. m.—Studio program of sacred music by the chorus of the Glad Tidings Revival Assembly; E. J. Axup, pastor. Chorus numbers and solos, with Bible talk by the pastor
 8 to 9 p. m.—Studio program. Latest scientific news
 Musical selections
 Health questions answered by phone while radiocasting. Special attention given to health problems received by mail

384.4 Meters **KJR** 780 Kilocycles

N. W. Radio Service Co., Seattle, Wash.

- 10:30 to 11:30 a. m.—Music and talks
 1 p. m.—Time signals
 1:15 to 2 p. m.—Organ recital
 2 to 2:15 p. m.—"Home Helps," talk by Bernice Redington of the Post Intelligencer staff
 2:15 to 2:30 p. m.—Produce report
 5:40 to 6 p. m.—Stock quotations
 6 p. m.—Time signals
 6 to 6:30 p. m.—What's doing at the theaters; weather reports
 7 to 7:30 p. m.—Program; bedtime stories
 7:30 to 8:30 p. m.—Program by Cornish School
 8:30 to 10 p. m.—Puget Sound Savings & Loan Ass'n Orchestra under the direction of Henri Damski
 10 p. m.—Time signals
 10 to 12 p. m.—Henry Halstead's Victor Recording Orchestra

454.3 Meters **KFOA** 660 Kilocycles

Rhodes Department Store, Seattle, Wash.

- 12:30 to 1:30 p. m.—Kiwanis Club luncheon program
 2 to 4 p. m.—Program by Women's Clubs of Seattle and the Pacific Northwest, arranged by Mary Gordon
 4 to 5:15 p. m.—The Times, Wm. F. Hoffman's Concert Orchestra
 6 to 6:45 p. m.—Hoffman's Concert Orchestra
 7:45 to 8 p. m.—Weather report and special announcements
 8 to 9:30 p. m.—Rhodes Department Store
 9:30 to 11:30 p. m.—Eddie Harkness and his Orchestra

508 Meters **KLX** 590 Kilocycles

The Oakland Tribune, Oakland, California

- 7 to 7:30 p. m.—News radiocast

\$1.50 FOR YOUR OLD RADIO TUBES

regardless make or condition, toward purchase of each new standard \$2.50 tube. Positively guaranteed. We do not sell re-built or bootleg tubes. Agents wanted. SUPER-SERVICE LABORATORIES, Dept. 27, Room 58, 39 West Adams, Chicago, Ill.

SCHEDULES FOR WEDNESDAY

January 6, 1926

Pacific Time, Corrected Weekly. For Wave Length, Location, Power and Owner, See Page 92

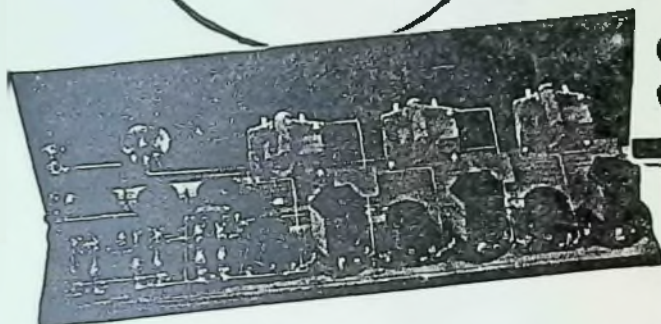
a. m.	Central Calif.	Southern Calif.	Pacific N. W.	Inland
6:30 to 7	KFRC		KGW	
7 to 7:30	KFRC KFO	KHJ		
7:30 to 8	KFRC KFO KRE	KNX		
8 to 8:30	KFRC KFO			
8:30 to 9				
9 to 9:30	KJBS KTAR	KMTR		
9:30 to 10	KJBS	KMTR	KTCL	
10 to 10:30	KJBS KPO KFRC	KFON KMTR	KTCL	
10:30 to 11	KFUU KFWH	KFSG KNX	KGW	WFAA KTOS
11 to 11:30	KFUU KFWH KRE	KFSG		KPKX KOA
11:30 to 12	KGO	KFSG	CJCA	KOA KPXX
p. m.				
12 to 12:30	KGO KFRC	KHJ KNX KFSG	CFAC CJCA	WHB
12:30 to 1	KGO	KHJ KNX KFWO	KGW KFOA	WHB WFAA
1 to 1:30	KPO	KHJ	KFOA KJR KGW	WOC
1:30 to 2	KPO KGO	KHJ KNX	KJR	WDAF
2 to 2:30	KJBS	KNX	KJR KFOA	WLW KDYL WDAF WOC
2:30 to 3	KPO	KHJ KFSG KFOR KMTR KNX	KFOA	KDYL
3 to 3:30	KGO KPO	KHJ KFSG KFOR KMTR KNX	CFAC KFOA	WSB WWJ WTAM KDYL KPAB KFWA
3:30 to 4	KGO KPO	KFSG KFOR KNRC KNX	KFOA	WSB WDAF WWJ WTAM KPXX KPAB KFWA
4 to 4:30	KGO KGW KLX	KFSG KFOR KNRC KNX	KFRC KFOA	WDAF WWJ KFWA KPXX
4:30 to 5	KGO KGW KLX	KFSG KFOR	KFRC KFOA	WDAF WWJ WOC KFWA KDKA KYW KPXX
5 to 5:30	KGO KRE KLX	KFSG KMTR KFWB KNX	CJCA	WHB WOR WCCO WLS WWJ KOA WGY KYW WTAM KSL
5:30 to 6	KFRC KGO KPO KRE	KFT KNX KFWB KMTR	CJCA CNRW	WHB WOR WBAF WCCO WLS KYW WGY KSL KDYL PWX WWJ KOA WTAM CNRM CNRO
6 to 6:30	KFRC KFWH KPO KGO KZM	KFI KNX KHJ KFOR	KMO CJCA CFAC KFOA CNRW KGW	WWJ KDYL WDAF WBAF WLS WOS WCCO KDKA PWX KYW WOR WTAM WLW WGY KOA WMAQ WJZ WDAF WKRC WJR CNRM CNRO WENR KSL WBZ
6:30 to 7	KGO KPO KLX KZM KFRC KFUU	KHJ KFWO KNX KFSG KFI	KMO CJCA CFAC KFOA CNRW KGW	WLS WOS KFAB WJZ WBAF WKRC WJR KDKA PWX KYW WOR WWJ WCCO WGY KDYL WTAM WDAF WMAQ WGN KOA WJAD CNRM CNRO WENR KSL WBZ
7 to 7:30	KRE KFUU KFRC KPO KLX KGO	KHJ KFSG KNX KFI KFWO KNRC KFWB KMJ	KGB KFOA KJR CNRW	PWX WDAF KPAB WMAQ WGN WGY WBZ WJZ WOR WKRC WCCO WOO WJR WJAD WEEI CNRM CNRO WENR WCAU WCAP WOS WTAM WBAF WOC WWJ KSL WOR WENR KOA KICE KTHS WLS KPXX
7:30 to 8		KFI KNX KPFC KFWO KNRC KFWB KMJ	CHBC KJR KWSC CNRW KGB KFOA KGW KTCL KOAC	WOR KOA KTOS KSL KFAB WMAQ WBZ WJZ WGR WKRC WCCO WEEI WOO WJR CNRM CNRO WENR WJAD WCAU WCAP WBAF PWX KICE WEBH KPXX WGY WLS WOS WTAM WBAF WOC WWJ
8 to 8:30	KPO KLX KFRC KFWH KJBS KFOS KGTT KQW KFOB	KHJ KHJ KNX KPFC KMTR KFWB KTB1 KFT KDZB KFOR KNRC	CHBC CFCT KOW CNRW KGB KFOA KJR KWSC KTCL	WBAF KICE KPFA KPXX WJZ WGR WQJ KOA WLS WTAM KDYL WCCO WEEI KYW PWX WLW KSL KFAB WMAQ WBAF KTHS WKRC WOO WJR WGR WBCN WCAU WSM
8:30 to 9	KPO KLX KFRC KFWH KJBS KFOS KGTT KQW KFOB	KDZB KFOR KMJ KMTR KNX KTB1 KNRC KFI KHJ KFWB	CHBC KGB CKCD KJR CFCT KFOA KWSC CNRW KGW KTCL	KYW WQJ WCCO WLW WTAM KSL KPFA WJR WBCN WEEI WHAD WCAU WSM WBAF WGR KTHS WJZ WKRC WOO KDYL KOA WMAQ WGN KPXX
9 to 9:30	KLX KPO KFOR KFWH KFRC KJBS KFOB KRE	KFI KHJ KFWB KNX KMTR	KMO KFOA KJR KTCL CKCD CFCT CNRW	KYW WBAF WQJ WCCO WGN WLW WTAM WENR WGR KPFA WJR WBCN WHAD KSL
9:30 to 10	KLX KPO KFOR KFWH KJBS KFRC KFOB KRE	KFI KHJ KFWB KNX KMTR	KMO KFOA KJR CKCD CNRW	WENR WGR KTW WBCN KPFA WSB WQJ WCCO WLW WTAM WHAD KSL WJR
10 to 10:30	KPO KLX KFRC KRE	KFI KHJ KFWB KNX KMTR	KGW KJR	WQJ WENR WENR WDAF KYW KPFA W IAD KSL
10:30 to 11	KFRC KPO KLX KRE	KFI KHJ KFWB KNX KMTR	KGW KJR	WQJ WENR WENR WDAF KTW KPFA
11 to 11:30	KLX KFRC KRE	KFWB	KJR	WENR WQJ KYW
11:30 to 12	KFRC KRE	KFWB	KJR	WENR WQJ KYW

KYW radiocasts news items every half hour—on the hour and on the half—during day and night

SM

SILVER

SIX



**Atlantic Coast Received Regularly
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Immediate Deliveries
Complete Stock Now on Hand**

No. 600 KIT COMPLETE.....	\$53.00
No. 610 KIT ESSENTIALS	27.75
EXTRA COILS.....	2.50
COIL SOCKETS.....	1.00

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IMPROVED AUTODYNE**

Send two cents in stamps for circular describing either
hook-up—Specify which one.

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Tell them that you saw it in Radiocast Weekly

PROGRAMS FOR WEDNESDAY

JANUARY 6, 1926



Frank Clark
KGO—3 p. m.



Mayme La Rue
KFUU—6:30 p. m.



KOA Concert Orchestra
KOA—7 p. m.

381 Meters

KGO

830 Kilocycles

General Electric Company, Oakland, Calif.

- 11:30 a. m. to 1 p. m.—Luncheon concert
12 noon—Time signal
12:30 p. m.—U. S. weather report
1:30 p. m.—Stock and weather bureau reports
3 to 4 p. m.—Speaker from the Williams Institute; and musical program, including Edith Parks Cunningham, soprano; Frank Clark, pianist, from the Waterman Piano School; Audrey Sage, clarinetist
4 to 5:30 p. m.—Concert Orchestra of the Hotel St. Francis, San Francisco, Vinton La Ferrera, conducting
5:30 p. m.—Mr. Fix-It
6 to 7 p. m.—Dinner concert, courtesy Baldwin Piano Company, Knickerbocker Trio
7 p. m.—News items, weather bureau report, stock reports and S. F. produce news

491.5 Meters

KGW

610 Kilocycles

The Morning Oregonian, Portland, Oregon

- 7:15 a. m.—Y. M. C. A. Physical Culture Exercises
10:30 a. m.—The Town Crier, music, weather report, news items and shopping guide
12:30 to 1:30 p. m.—Rose City Trio
6 to 7 p. m.—Dinner concert
7:30 to 7:45 p. m.—Weather, market and police reports, news items and sporting results
8 to 9 p. m.—Concert by the 7th United States Infantry Band
10 to 11 p. m.—Concert, vocal and instrumental

349 Meters

KWSC

860 Kilocycles

Washington State College, Pullman, Wash.

- 7:30 to 9 p. m.—Studio program
String Trio, Margery Segessenmann, piano; Gladys Fraser and Raymond Howell, violins
Vocal solos, Aline Price
"The Washington Lamb," Howard Hackedorn
Light and Electricity, No. 2, "Waves," Dr. H. B. Briggs
Book Reviews, Alice Lindsay Webb
"Pyrotol, a Cheap but Effective Farm Explosive," R. N. Miller

467 Meters

KFI

640 Kilocycles

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- 5:30 p. m.—L. A. Examiner Matinee program
6 p. m.—KFI Nightly Doings
6:15 p. m.—KFI's Seeing California
6:30 p. m.—Vest Pocket Concert
6:45 p. m.—KFI Radiatorial Period
7 p. m.—Nick Harris detective stories
7:20 p. m.—Varied program, presenting Frank Barry, tenor; Wm. MacDougall, Scotch comedian; the Stark Sisters, harmony duets
8 p. m.—Program of the Ventura Refining Co., presenting prominent radio artists
9 p. m.—Program presented by L. A. Examiner
10 p. m.—Regular Wednesday night program of the Patrick-Marsh Orchestra. Betty Patrick soloist

322.4 Meters

KOA

930 Kilocycles

General Electric Company, Denver, Colorado

- 10:45 a. m.—Weather; road reports, stocks, markets; livestock and produce
11:15 a. m.—Rialto theater musicale
5 p. m.—Stocks; markets; livestock; produce and news bulletins
6:30 p. m.—Dinner concert, Brown Palace String Orchestra
6:30 p. m.—Book of Knowledge
7 p. m.—Studio program. Instrumental selections by KOA Orchestra; violin solos, Lewis H. Chernoff; readings, Winifred Snell; baritone solos, Earl MacBoyle; tenor solos, Charles Stevens and piano solos, Lois Auer and Roberta MacKay

261 Meters

KFWA

1150 Kilocycles

Browning Bros. Company, Ogden, Utah

- 3 to 4 p. m.—Organ recital
4 to 5 p. m.—Ogden radio dealers' program
4:45 p. m.—Market reports
8 to 9:30 p. m.—Organ recital
9:30 to 11 p. m.—Dance music by Olie Reeves and his Orchestra playing at the Berthana Ballroom

Wednesday Programs—Continued

428 Meters

KPO

700 Kilocycles

Hale Bros. & The Chronicle, San Francisco

7, 7:30 and 8 a. m.—Daily dozen exercises given under the direction of the Y.M.C.A.

10 a. m.—Sewing talk by Betty Ross of Belding Bros.

10:30 a. m.—"Ye Towne Cryer" and amusement information service; U. S. weather forecast

10:35 a. m.—Market report, butter, eggs, poultry

12 noon—Time signals; scripture reading

1 to 2 p. m.—Rudy Seiger's Fairmont Hotel Orchestra

2:30 p. m.—Matinee Program by members of James Lono's Hawaiian Orchestra

3:30 p. m.—Talk on fashions by Ninon, fashion critic of The Chronicle; notes from "Breath of the Avenue"

5:15 to 5:45 p. m.—Children's hour stories by Big Brother, taken from Book of Knowledge

6:15 p. m.—Stock quotations

6:30 p. m.—"Ye Towne Cryer" and amusement information service

6:40 to 7 p. m.—Waldemar Lind and the States Restaurant Orchestra

7 to 7:30 p. m.—Rudy Seiger's Fairmont Hotel Orchestra

8 to 9 p. m.—Program by the Atwater Kent Artists, under the auspices of Ernest Ingold Incorporated

In the Tavern.....Jensen

Longing.....Wood

Selection of Songs of Robert Schumann.....Robertis

Valse, Flirtation.....Steck

Pucciniana (favorite airs from the Operas of Puccini).....Boccalari

Patrol of the Scouts.....Soprano solos—

Calm as the Night.....Bohm

Somewhere a Voice is Calling.....Tate

9 to 10 p. m.—Program of dance music by the Goodrich Silvertown Cord Orchestra, Reg. Code, director

10 to 11 p. m.—Waldemar Lind and the States Restaurant Orchestra

256 Meters

KFUS

1170 Kilocycles

Sherman School, Oakland, California

8 to 9 p. m.—Sacred song program by the Melrose Baptist Church, Rev. D. M. Dawson, pastor. Chorus numbers and solos, with an address by the pastor

405.2 Meters

KHJ

740 Kilocycles

Los Angeles Times, Los Angeles, California

7 to 7:15 a. m.—Exercises, Prof. B. L. Severns

12 to 12:30 p. m.—Leighton's Cafeteria Orchestra, directed by Jack Cronshaw

12:30 to 1:30 p. m.—Program of dance music

1:30 p. m.—Weekly garden talk by Fred C. McNabb

2:30 to 3:30 p. m.—Matinee program

6 to 6:30 p. m.—Leighton's Cafeteria Orchestra

6:30 to 7:30 p. m.—Children's program presenting Prof. Walter Sylvester Hertzog, radio historian; Mickey McBan, screen juvenile; Vivian Marple, "Blue Bell of KHJ"; Glenn Fitz, juvenile reader; Ellen Schnebly, 12-year-old singer; Urban Theilman, pianist

8 to 8:30 p. m.—Astronomy talk by Dr. Mars Baumgardt

8:30 to 10 p. m.—De Luxe program

10 to 11 p. m.—Biltmore Hotel Dance Orchestra

268 Meters

KFRC

1120 Kilocycles

City of Paris Dry Goods Co., San Francisco

6:30, 7, 7:30, 8 a. m.—Physical Culture Course, Bernard Drury

10 a. m.—Household Hints, Mary Lewis Haines, S. F. "Call"

12 noon to 12:20 p. m.—Inspirational talk, Mary Katherine Maule

6:30 to 6:30 p. m.—Mac and His Gang

6:30 p. m.—Police report and announcements

6:30 to 7:30 p. m.—Concert from Drury Lane, Hotel Whitcomb by Stanislaus Bem's Little Symphony Orchestra

Gypsy Baron Selection.....Strauss

Summer Evening Waltz.....Waldteufel

Arabian Night.....Mildenberg

La Feria, Suite Espagnole.....Lacomb

8 to 9 p. m.—Concert in Drury Lane, Hotel Whitcomb by Stanislaus Bem's Little Symphony Orchestra

Selections from "Eva".....Lehar

Three Songs from "Eiland".....Von Flieitz

Loin du Ball.....Gillet

Chopiana

8:15 p. m.—University of California Extension Lecture, Speaker Dr. Esther Allen Gaw

Intermission talk by Bernard Drury

9 to 10 p. m.—Studio program

10 to 12 p. m.—Dance music from The Balconades Ballroom by Walter Krausgrill's Orchestra

Intermission solos, Jerry Ryan

220 Meters

KFUU

1360 Kilocycles

Mathewson Motor Company, Oakland, Calif.

10:45 to 11:45 a. m.—Concert, News Events

5:30 to 7:30 p. m.—Mammy Cloe Club under the direction of Mayne La Rue

454.3 Meters

KFOA

660 Kilocycles

Rhodes Department Store, Seattle, Wash.

12:30 to 1:30 p. m.—The Rotary Club luncheon program

2 to 4 p. m.—Program by Women's Clubs of Seattle and the Pacific Northwest, arranged by Mary Gordon

4 to 6:15 p. m.—The Times, Wm. F. Hoffman's Olympic Hotel Orchestra. Today's recipe

6 to 6:45 p. m.—Hoffman's Concert Orchestra

6:45 to 8:15 p. m.—Hopper Kelly Company studio program

8:15 p. m.—Weather report and special announcements

8:30 to 10 p. m.—The Times studio program

384 Meters

CNRW

780 Kilocycles

Canadian Nat. Railways, Winnipeg, Man.

5:30 p. m.—Aunt Almee's bedtime story

6 p. m.—Musical program, direct from the Mezzanine floor of the Fort Garry Hotel, by Irvine Plumm and his Fort Garry Hotel Orchestra

6:30 p. m.—Dominion Department of Agriculture market reports

6:40 p. m.—Studio program of "request" numbers

8 p. m.—Supper dance program, direct from the supper dance club room of the Fort Garry Hotel, by Irvine Plumm and his Fort Garry Hotel Orchestra. Selections by Al. Kilgour during dance program intermissions

(Programs continued on next page)

Wednesday Programs—Continued

256 Meters

KRE

1170 Kilocycles

Berkeley Daily Gazette, Berkeley, California

7:30 a. m.—Good Thought Service, conducted by Dr. Miles B. Fisher

11:15 a. m.—Physical exercises for women. Dorothy Barron

5 to 5:30 p. m.—Children's Corner conducted by Big Brother. Stories and educational articles taken from the Book of Knowledge. Answering letters and questions from the boys and girls

5:30 to 6 p. m.—Children's entertainment by pupils of Mrs. Thos. Griffith, Jr.

7 p. m.—Current news by leased wire

9 to 12 midnight—Dance program by Horace Heidt and his Hotel Claremont Dance Orchestra playing at the dinner dance at the Hotel Claremont

9:30 p. m.—Studio program. Special entertainment by artists appearing at the Berkeley West Coast Theater Inc. houses

10 p. m.—Studio program. Intermission solos by members of the dance orchestra

220 Meters

KJBS

1360 Kilocycles

Julius Brunton & Sons Co., San Francisco

9 to 10:45 a. m.—Vocal and instrumental selections

2 to 2:30 p. m.—Vocal and instrumental selections

8 to 10 p. m.—Studio program by Jimmy Raymond and Harry Hume (After Dinner Boys) assisted by Margie Reynolds, Billie Byers and a number of other professional artists

294 Meters

KTBI

1020 Kilocycles

The Bible Institute of Los Angeles, Calif.

8 to 9 p. m.—Program of the Alhambra Community Radiocasters under the direction of F. W. Seibel, and will contain numbers by Fusa Neally Lines and Eugenia Grant, piano duets; Ada Mae Robinson, contralto, and Elmer Wissman, baritone in solos and duets; Cluck W. Riley, classical selections on the ukulele; Peggy Kramer, reader, and Otto Zwink, pipe organist

283 Meters

KOAC

1060 Kilocycles

Oregon Agricultural College, Corvallis, Ore.

7:20 p. m.—Musical selections

7:30 p. m.—"Color and Design in House Decoration," Miss Margaret Morehouse

7:45 to 8 p. m.—"Mid-Winter Hints for the Sick," Mrs. Katherine Haight

384.4 Meters

KJR

780 Kilocycles

N. W. Radio Service Co., Seattle, Wash.

1 p. m.—Time signals

1:15 to 2 p. m.—Organ recital

2 to 2:30 p. m.—Produce report

5:40 to 6 p. m.—Stock quotations

6 p. m.—Time signals

7 to 8:30 p. m.—Sears-Roebuck & Co. program

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

10 p. m.—Time signals

10 to 12 p. m.—Henry Halstead's Victor Recording Orchestra

508 Meters

KLX

590 Kilocycles

The Oakland Tribune, Oakland, California

4 to 5 p. m.—Women's hour

5 to 5:30 p. m.—Aunt Elsie's Sunset Matinee

6:30 to 7 p. m.—Athens Athletic Club Orchestra

7 to 7:30 p. m.—News items

8 to 9 p. m.—Educational program featuring Roy Harrison Danforth, Ad Schuster, Harry Noyes Pratt, Nadine Shephard, Prof. E. R. de Ong, and other experts of The Tribune and University of California

9 to 10 p. m.—Concert under direction of Countessa Accardi

10 to 11:30 p. m.—Sweet's Ballroom: Tom Gerunovich and his ballroom entertainers

246 Meters

KTAB

1250 Kilocycles

Tenth Ave. Baptist Church, Oakland, Calif.

9 to 9:30 a. m.—Prayer Service led by Rev. Geo. W. Phillips

238 Meters

KMTR

1260 Kilocycles

K. M. Turner, Hollywood, California

9 a. m.—"Dad's Hour" by Dad King

10 a. m.—Rev. S. J. Mathison, Hollywood Christian Church

2:30 p. m.—Easy Chair Hour

3 p. m.—Mr. F. J. Schwankowsky on "Art Appreciation"

5 p. m.—Home hour conducted by Georgia Simmons. The "variety day" with pupils of Geraldine Kasal, and Irene Bennet, Louise Trosper

8 to 10 p. m.—KMTR Concert Hour, presenting the Turner Orchestra

10 to 11 p. m.—Starr Piano Co. program

306 Meters

KTCL

980 Kilocycles

New Washington Hotel, Seattle, Wash.

9:30 to 9:45 a. m.—Weather report; stock and bond quotations

9:45 to 10 a. m.—Fraser-Paterson Department Store studio program

10 to 10:15 a. m.—"Exercise Over the Air," by T. G. "Van" Cook

10:15 to 10:30 a. m.—Daily recipes; announcements from the public markets

7:30 to 9:30 p. m.—Varied program

252 Meters

KFWB

1190 Kilocycles

Warner Brothers, Hollywood, California

5 to 6 p. m.—Children's hour conducted by Big Brother of KFWB with stories, educational subjects and answers to children's questions taken from the Book of Knowledge

7 to 7:30 p. m.—Program presented by courtesy of Mutual Motors, Inc. Several jokes are read during this half hour and cash prizes are awarded

7:30 p. m.—Microphone Brevities

8 to 10 p. m.—Varied program

10 to 11 p. m.—Warner Bros. frolic

11 to 12 p. m.—Henry Halstead's Orchestra radiocasting over KFWB by remote control from the Hollywood Roof Ballroom

Wednesday Programs—Continued

207 Meters **KFWM** 1450 Kilocycles

Oakland Educational Society, Oakland, Cal.

2 to 2:30 p. m.—Educational talk

275.1 Meters **KFSG** 1090 Kilocycles

Angelus Temple, Los Angeles, California

10:30 to 11:30 a. m.—Sunshine hour. Sermon and prayers for the sick by Anita Hopper. Radio Trio: Helen Stanhope, Fanny Ashby and Essie Binkley

11:30 a. m. to 12:30 p. m.—Organ recital by B. Earnest Ballard. Amanda Garden, reader. Felecia Lavender Black, soprano. John H. Kennedy, baritone. Mr. and Mrs. Sidney Correll, vocal duets

2:30 to 5:30 p. m.—Regular divine healing service by Almee Sempie McPherson. Testimonies. Fanny Ashby, Sunshine Radio Girl. Ladies' Chorus. Bible School Quartet

6:30 to 7:30 p. m.—Angelus hour. Program presented by John H. Kennedy and assisting artists. Dorothy Woods, reader. The Sunshine Quartet. Evelyn Holbrook, soprano. Mildred Hanna, soprano. Frances Roche, violinist. Elizabeth Coe, pianist

232.4 Meters **KFON** 1290 Kilocycles

Echophone Radio Shop, Long Beach, Calif.

10 a. m.—Daily shopping tour
2:30 to 4 p. m.—Long Beach Municipal Band
4 to 4:30 p. m.—News and sports
4:30 to 5 p. m.—Amusement bulletin
6 to 6:30 p. m.—Organ recital
8 to 9 p. m.—Press-Telegram program337 Meters **KNX** 890 Kilocycles

Los Angeles Evening Express, Los Angeles

7:30 a. m.—KNX morning gym by J. C. Casey
8 a. m.—Inspirational talk and morning prayer
8:45 a. m.—Wesley Beans, baritone
9 a. m.—Time signals; birthday notices
10 a. m.—Town Crier of day's morning message
10:30 a. m.—Household economics, Kate Brew Vaughan

12 to 1 p. m.—Wurlitzer organ recital

1:30 p. m.—The Book Worm

2 to 4 p. m.—Matinee program

4 to 5 p. m.—Dr. Wayne B. Burr, "Care of Children"

5 to 5:30 p. m.—Sunny Jim's children's hour

5:30 to 6:15 p. m.—Wurlitzer organ recital

6:15 p. m.—The Town Tattler

6:15 p. m.—W. F. Alder travelogue

6:30 to 7 p. m.—Alwater Kent Orchestra

7 to 8 p. m.—Ambassador Concert Orchestra

8 to 10 p. m.—Feature program

10 p. m.—Ruth Roland and G. Allison Phelps

FADA

Radio

Thorola

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SCHEDULES FOR THURSDAY

January 7, 1926

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

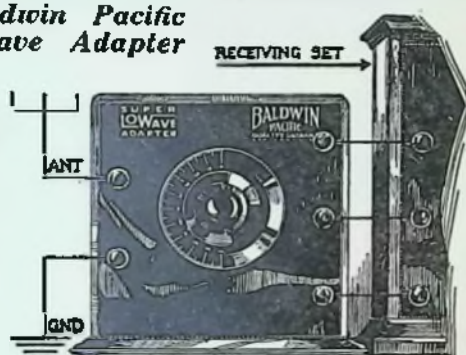
a. m.	Central Calif.	Southern Calif.	Pacific N. W.	Inland
6:30 to 7	KFRC			
7 to 7:30	KFRC KPD	KIJ		
7:30 to 8	KFRC KPD KRE	KNX		
8 to 8:30	KFRC KPD			
8:30 to 9				WFAA
9 to 9:30	KJBS KTAB	KMTR		
9:30 to 10	KJBS	KMTR	KTCL	
10 to 10:30	KJBS KPD	KFON KMTR	KTCL	
10:30 to 11	KFOU KFWH EGO	KFSG KNX KMTR	KCW KJR	WFAA KTIS
11 to 11:30	KFOU KRE KFWH	KFSG KNX	KJR	KOA
11:30 to 12	KGO	KFSG	CJCA	KOA
p. m.				
12 to 12:30	KGO KFRC	KNX KFSG KHJ	CFAC CJCA	WHB
12:30 to 1	KGO	KNX KFWO KHJ	KGW KFOA KTCL	WHB WFAA
1 to 1:30	KPD	KIJ	KJR KFOA KCW KTCL	WOC
1:30 to 2	KPD KGO	KNX	KJR	WDAF WFAA
2 to 2:30	KJBS	KHJ KMTR KNX	KJR KFOA	WLW KDYL WDAF
2:30 to 3	KPD	KHJ KMTR KNX KFON KHJ	KFOA	KDYL KOA WFAA
3 to 3:30	KPD	KFON KHJ KNX	CFAC KFOA	WSB WWJ WTAM KDYL KOA KFWA
3:30 to 4	KPD	KFSG KFON KNRC KNX	KFOA	WSB WDAF WWJ WTAM KFKX WFAA KFWA
4 to 4:30	KGO KPD KFRC	KFSG KFON KNRC	KFEC KFOA	WDAF WDAW WWJ WOC KFWA KFKX
4:30 to 5	KGO KFRC	KFON	KFEC KFOA	WDAF WDAW WWJ WFAA WOC KFWA KFKX
5 to 5:30	KGO KFUS	KMTR KNX		WOC WDAW KYW WGY WGBS WWJ WFAA WREO KDKA KOA KDYL WHB
5:30 to 6	KPD KGO KFRC	KMTR KFI KNX		KDYL WDAF WGY WGBS WWJ KOA WREO KDKA KYW WOC KOIL WHB KSL
6 to 6:30	KPD KFRC KGO KZM KFWH	KFI KNX KHJ KFON KMTR	KJR CNRC KGW	WDAF WSB WWJ KYW KSD KDKA WHB KDYL WMAQ WCCO WGN WIP WGBS KOA WREO WOC WEAR WJZ WGBD KLOS WENR KOIL WJR KSL
6:30 to 7	KZM KPD KFRC KFWH KFOU	KFI KNX KFWO KIJ KMTR	CJCA KGW	WSB WWJ WHB KYW KSD KDKA KDYL WMAQ WCCO WGN WFAA WREO WGY KSL WIP WGBS WOC WEAR WJZ WCAU WGBD KLOS WRC WENR KOIL WJR
7 to 7:30	KPD KFRC KRE KFOU KLX EGO	KFWO KNRC KFWB KFI KNX KHJ	KJR	WDAF WFAA KTIS WIP WEAF KLZ KYW WCCI WCCO WID WGBS WGY WOC WMAQ WGN WJR WJZ WEBB WEAR WGBD KLOS WRC WENR WBZ WJR WCAU WWJ KPAU KSL
7:30 to 8	KFBK	KFON KNRC KFWB KFI KNX KFSG KHJ	KGW CHBC KGB KJR	WDAF WDAW WHB WOC WIP WEBB WCAU WGY WQAT WEAF KTIS WMAQ WEAR KSL WCCO WGBD KYW WGR WJZ WGBS WRC WENR WJR WCCI WWJ KPAU WBZ
8 to 8:30	KGO KPD KFRC KFBK KTAB KRE KFWH KFOU	KFI KFSG KNX KHJ KDEB KFWB KTBI KNRC KFON KMTR KPSN	CFAC CHBC CNRC KGB KJR	WDAF WDAW WGY KDYL KYW WQAT WWJ WQJ KSL WLW KDKA KTIS WIP WMAQ WGBS WLW WJAZ WJZ WEAF WKRC KPAU WCCO WRC WJR WGN WCCI WEAR WBZ WCAU
8:30 to 9	KFWH KFBK KFRC KTAB KRE KGO KPD KFOU	KDEB KFSG KHJ KTBI KFI KNX KFWB KNRC KFON KMTR KPSN	CFAC CNRC KGB CHBC CKCD KGY KJR	WDAF KYW WQJ KSL WGN WGY WKRC KDKA WLW KDYL WMAQ WGBS WCAU WRC WJAZ WJZ WEAF WJR WGN WCCI KPAU WCCO
9 to 9:30	KFRC KTAB KRE KFBK KFWH KGO KPD KFOU KFOU	KFI KFSG KHJ KNX KFWB KMTR KPSN KFON	CKCD CFAC CNRC KJR KGB KGY	WQJ WFAA WOC KSL KFOR WSB WLW KYW WDAW WJAZ WEBB KOIL WJR WGN WCCO WKRC
9:30 to 10	KFBK KTAB KRE KFOU KFOU KGO KPD KFRC	KFI KFSG KHJ KNX KFWB KMTR	KGB CKCD CFAC KJR CNRC	WQJ WFAA WOC KSL KFOR WSB WLW WDAW WJAZ WEBB KOIL KYW WGN WCCO WJR WKRC
10 to 10:30	KRE KPD KFOU	KFI KFSG KNX KFWB KHJ	KGB	WDAF WQJ KFOR KGU WEBB WCCO WLW WGN WDAW
10:30 to 11	KRE KPD KFOU	KFI KFSG KNX KFWB KHJ	KJR KGB	WDAF WQJ KFOR KGU WEBB WLW WGN
11 to 11:30		KFWB	KJR KGB	KGU KYW WQJ
11:30 to 12		KFWB	KJR KGB	KYU WQJ
12 to 1				
1 to 2				

KYW radiocasts news items every half hour—on the hour and on the half—during day and night

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Do you know that high frequency broadcasting requires special and absolute precision in its application as a means of communication?

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Tell them that you saw it in Radiocast Weekly

PROGRAMS FOR THURSDAY

JANUARY 7, 1926

Sally Dee
KOA—3:15 p. m.Oliver Clark
KRE—8 p. m.Freeman H. Talbot
KOA—Prog. DirectorDonald Adams
KRE—8 p. m.

361 Meters

KGO

830 Kilocycles

General Electric Company, Oakland, Calif.

10:40 a. m.—Classroom instruction by Oakland Public Schools—ninth grade, "Preparation of Booklets," Cora Boone, Supervisor of Fine Arts

11:30 a. m. to 1 p. m.—Luncheon concert

12 noon—Time signals

12:30 p. m.—Weather report

1:30 p. m.—Stocks and weather reports

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

5:30 to 6:30 p. m.—George W. Ludlow, "Friend to Boys," assisted by Jane Isabel Curtis in Sea Stories

7 to 7:30 p. m.—News items, stock reports and S. F. produce news

8 p. m.—Oakland studio program

"Macbeth"—A tragedy in five acts, by William Shakespeare (written 1606), presented by the KGO Players under the direction of Wilda Wilson Church. Incidental music by the Arion Trio, to include:

Dance Macabre.....Saint-Saens

Torch Dance, from "Henry VIII Dances"

German Valse Triste.....Sibelius

The Erl King.....Garbett-Schubert

238 Meters

KMTR

1260 Kilocycles

K. M. Turner, Hollywood, California

9 a. m.—"Dad's Hour" by Dad King

9:30 a. m.—Sylvia Szymanski "The Blind Cook"

10 a. m.—Dr. A. E. Hoare, of the Educational Division of the Los Angeles Association of Optometrists, will speak on "Eyes"

10:30 a. m.—Willie Martin, M.D., pastor of First Methodist Church, Hollywood

2 p. m.—Turner radio program

2:30 p. m.—Easy Chair Hour, presenting Chas. G. Milham, Secretary of the All-Year Club

5 p. m.—Home Hour, conducted by Georgia Simmons, presenting pupils of Carter Weaver's School of the Drama and Pantomime

6 to 7 p. m.—Starr Piano Co. program

8 to 10 p. m.—KMTR Concert Hour, presenting the Turner Orchestra

467 Meters

KFI

640 Kilocycles

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5:30 p. m.—L. A. Examiner Matinee program

6 p. m.—KFI Nightly Doings

6:15 p. m.—KFI's Seeing California

6:30 p. m.—Vest Pocket Concert

6:45 p. m.—KFI Radiatorial Period

7 p. m.—Program by University of Southern California

8 p. m.—The Packard Six Orchestra, under the co-direction of Eil Hennessy and Chet Mitten-dorf, with Dick Barton as soloist

9 p. m.—Program of the Southern California Music Company, from Chickering Hall, Los Angeles

10 p. m.—Program presented by L. A. Examiner

405.2 Meters

KHJ

740 Kilocycles

Los Angeles Times, Los Angeles, California

7 to 7:15 a. m.—Exercises, Prof. B. L. Severn

12 to 12:30 p. m.—Leighton's Arcade Cafeteria Orchestra, Jack Cronshaw directing

12:30 to 1:30 p. m.—Radiocasting the Optimist Club luncheon from the Biltmore Hotel

2:30 to 3:30 p. m.—Matinee program sponsored by the Pacific States Electric Company

6 to 6:30 p. m.—Leighton's Arcade Cafeteria Orchestra

6:30 to 7:30 p. m.—Children's program presenting Prof. Walter Sylvester Hertzog, radio Historian; Dickie Brandon, screen juvenile; Jeanne Delbard, "little preacher," and Joyce Coad, "Little Red Riding Hood."

7:45 p. m.—Dr. Philip M. Lovell, will give a "Care of the Body" talk

8 to 10 p. m.—Program through the courtesy of the Pacific Electric Railway Company

10 to 11 p. m.—Dance program from the Biltmore Hotel

294 Meters

KTBI

1020 Kilocycles

The Bible Institute of Los Angeles, Calif.

8 to 9 p. m.—Miss Winifred Rouzee will give an exposition of the whole Bible Sunday School lesson

Thursday Programs—Continued

428 Meters **KPO** 700 Kilocycles

Hale Bros. & The Chronicle, San Francisco

7. 7:30. 8 a. m.—Daily dozen exercises given under the direction of the Y. M. C. A.
10 a. m.—Talk on Domestic Science by Virginia Tappan
10:30 a. m.—"Ye Towne Cryer" and amusement information service. U. S. weather forecast
10:35 a. m.—Market report on butter, eggs, cheese, poultry
12 noon—Time signals; scripture reading
1 to 2 p. m.—Rudy Seiger's Fairmont Hotel Orchestra
2:30 p. m.—Matinee program featuring Willy Meier-Pausellus in guitar solos
3:30 to 4:30 p. m.—Cyrus Trotter's Palace Hotel Concert Orchestra
6:15 to 6:15 p. m.—Children's hour stories by Big Brother of KPO
6:15 p. m.—Stock quotations
6:30 p. m.—"Ye Towne Cryer" and amusement information service
6:40 to 7 p. m.—Waldemar Lind and the States Restaurant Orchestra
7 to 7:30 p. m.—Rudy Seiger's Fairmont Hotel Orchestra
8 to 9 p. m.—Studio program
9 to 10 p. m.—Studio program
10 to 11 p. m.—Cabiria Cafe Orchestra, Jack Coakley, director

491.5 Meters **KGW** 610 Kilocycles

The Morning Oregonian, Portland, Oregon

- 10:30 a. m.—The Town Crier, music, weather report, news items and shopping guide
12:30 to 1:30 p. m.—Rose City Trio
6 to 7 p. m.—Dinner concert
7:30 to 7:45 p. m.—Weather, market and police reports, news items and sporting results
7:45 to 8 p. m.—Lecture Catholic Truth Society

322.4 Meters **KOA** 930 Kilocycles

General Electric Company, Denver, Colorado

- 10:45 a. m.—Weather; road reports; stocks; markets; livestock and produce
11:15 a. m.—Rialto theater musicale
2:15 p. m.—Relaxing and corrective exercises
2:30 p. m.—Matinee for housewives
3 p. m.—Culinary hints
3:15 p. m.—Fashion review
6 p. m.—Stocks, markets; livestock; produce and news bulletins
6:30 p. m.—Dinner concert, Brown Palace String Orchestra, Howard Tillotson, director

220 Meters **KFUU** 1360 Kilocycles

Mathewson Motor Company, Oakland, Calif.

- 10:45 to 11:45 a. m.—Concert: News Events
6:30 to 7:30 p. m.—Scotty and His Clan
8 to 9 p. m.—Mr. Hoosies Trio and soloists
9 to 10 p. m.—Program under direction Helen Cutter
10 to 11 p. m.—Flint Hawaiians

240 Meters **KTAB** 1250 Kilocycles

Tenth Ave. Baptist Church, Oakland, Calif.

- 9 to 9:30 a. m.—Prayer Service by Rev. Geo. W. Phillips, pastor
8 to 10 p. m.—Studio Program. Presented by Clare Harrington, accompanist for the evening
Soprano Solos, Hazel Jones—
Flower Song from "Faust"—Gounod
Baritone Solos, Walter Petterson—
Song to the Evening Star "Tannhauser"—Wagner
I Know a Lovely Garden—D'Hardelot
Soprano Solos, Helen Hanson—
Voci di Primavera—Strauss
The Last Rose of Summer
Soprano Solos, Elsa Vogel—
The Throstle—words by Tennyson
Soprano Duet, Julia Antipa and Elsa Vogel
Duet from "Mme. Butterfly"
Piano Solo, Helen Rourke
Soprano Solos, Alice Batchelder—
My Mother Bids Me Bind My Hair—Haydn
When Love Is Kind
Reading, Ruth Sievers
Soprano Solo, Julia Antipa—
The Lorelei—Liszt
Baritone solo, J. E. Driscoll
Contralto solo, Marion Ramon—
The Amulet—Clare Harrington
Tenor solo, A. V. Davidson—
Beyond—words and music by C. Harrington
Soprano solo, Norma Carlsen—
Rose Softly Blooming—Spohr
Soprano duet, Norma Carlsen and Hazel Jones
Duet from "Marriage of Figaro"

454.3 Meters **KFOA** 660 Kilocycles

Rhodes Department Store, Seattle, Wash.

- 12:30 to 1:30 p. m.—Young Men's Business Club luncheon program
2 to 4 p. m.—Program by Women's Clubs of Seattle and the Pacific Northwest, arranged by Mary Gordon
4 to 5:15 p. m.—The Times, Wm. F. Hoffman's Concert Orchestra. Today's recipe

251 Meters **KFWA** 1150 Kilocycles

Browning Bros. Company, Ogden, Utah

- 3 to 4 p. m.—Organ recital
4 to 5 p. m.—Ogden radio dealers program
4:45 p. m.—Market reports

255 Meters **KFUS** 1170 Kilocycles

Sherman School, Oakland, California

- 5 to 5:30 p. m.—Children's novelty program by boys and girls, with musical toys. Program courtesy of "Ford's Toy Fair," Oakland, Calif.

20 Meters **KJBS** 1360 Kilocycles

Julius Brunton & Sons Co., San Francisco

- 9 to 10:45 a. m.—Vocal and instrumental selections
2 to 2:30 p. m.—Vocal and instrumental program

(Programs continued on next page)

Thursday Programs—Continued

258 Meters

KFRC

1120 Kilocycles

City of Paris Dry Goods Co., San Francisco

6:30, 7, 7:30, 8 a. m.—Physical Culture Course, Bernard Drury

12 noon to 12:30 p. m.—Inspirational Talk, Mary Katherine Maule

4 to 5 p. m.—Art Weldner's Fior D'Italia Orchestra

5:30 to 6:30 p. m.—Mac and His Gang

6:30 p. m.—Police reports and announcements

6:30 to 7 p. m.—Studio program, Out-Door Ramblers

7 to 7:30 p. m.—"Answers to Radio Queries" By Gerald M. Best, Technical Editor "Radio" and "Radiocast Weekly"

8 to 10 p. m.—Dance music from The Balconades Ball Room by Walter Krausgrill's Orchestra. Intermission solos, Gladys Lamarr, Gene Sterling and Charley Mandell.

252 Meters

KFWB

1190 Kilocycles

Warner Brothers, Hollywood, California

7 to 7:35 p. m.—Dr. T. Floyd Brown, plastic and facial surgeon

7:15 to 7:30 p. m.—Microphone Brevities

7:30 to 8 p. m.—Program presented by courtesy of Elmer R. Sly Co.

8 to 10 p. m.—Varied program

10 to 11 p. m.—Warner Bros. frolic

11 to 12 p. m.—Henry Halstead's Orchestra radiocasting over KFWB by remote control from the Hollywood Roof Ballroom

306 Meters

KTCL

980 Kilocycles

New Washington Hotel, Seattle, Wash.

9:30 to 9:45 a. m.—Weather report; stock and bond quotations

9:45 to 10 a. m.—Fraser-Paterson Department Store studio program

10 to 10:15 a. m.—Daily recipes; announcements from the Public Markets

12:30 to 1:30 p. m.—Meves' Cafeteria, Henri Damski's Concert Orchestra

232.4 Meters

KFON

1290 Kilocycles

Echophone Radio Shop, Long Beach, Calif.

10 a. m.—Daily shopping tour

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

4 to 4:30 p. m.—Late news, sports

4:30 to 5 p. m.—Amusement bulletin

6 to 6:30 p. m.—Organ recital

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

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

248 Meters

KFBK

1210 Kilocycles

The Sacramento Bee, Sacramento, Calif.

7:30 p. m.—Weather reports and announcements

7:35 p. m.—Children's half hour

8 p. m.—Vocal and instrumental program

9 p. m.—Dance music

10 p. m.—Closing announcements

508 Meters

KLX

590 Kilocycles

The Oakland Tribune, Oakland, California

7 to 7:30 p. m.—News items

256 Meters

KRE

1170 Kilocycles

Berkeley Daily Gazette, Berkeley, California

7:30 a. m.—Good Thought Service, conducted by Dr. Miles B. Fisher

11:15 a. m.—Physical exercises for women, conducted by Dorothy Barron

7 p. m.—Current news

8 to 10 p. m.—Studio program. Miscellaneous artists' program featuring local talent

10 to 11 p. m.—Dance program

384.4 Meters

KJR

780 Kilocycles

N. W. Radio Service Co., Seattle, Wash.

10:30 to 11:30 a. m.—Frederick & Nelson; musical program

1 p. m.—Time signals

1:15 to 2 p. m.—Organ recital

2 to 2:15 p. m.—"Home Helps" talk by Bernice Redington of the Post Intelligencer staff

2:15 to 2:30 p. m.—Produce report

5:40 to 6 p. m.—Stock quotations

6 p. m.—Time signals

6 to 6:30 p. m.—"What's doing at the Theaters" weather reports

7 to 8:30 p. m.—Eureka Mixed Quartette

8:30 to 10 p. m.—Puget Sound Savings & Loan Ass'n Orchestra under the direction of Henri Damski

10 p. m.—Time signals

10:30 to 12 p. m.—Post Intelligencer presenting the weekly meeting of the "Keep Joy Radiating Order of Bats"

337 Meters

KNX

890 Kilocycles

Los Angeles Evening Express, Los Angeles

7:30 a. m.—KNX morning gym, by J. C. Casey

8 a. m.—Inspirational talk and morning prayer

9 a. m.—Time signals; birthday notices

10 a. m.—Town Crier of day's morning message

10:30 a. m.—Household economics, Kate Brew Vaughan

11 a. m.—Nature Talk

12 to 1 p. m.—Wurlitzer organ recital

2 to 4 p. m.—Matinee program

5 to 5:30 p. m.—Sunny Jim's children's hour

5:30 to 6:15 p. m.—Wurlitzer organ concert

5:55 p. m.—The Town Tattler

6:15 p. m.—W. F. Alder travelogue

6:30 to 7 p. m.—Atwater Kent Orchestra

7 to 10 p. m.—Varied program

10 to 11 p. m.—Hotel Ambassador, Ray West's Coconut Grove Orchestra

275.1 Meters

KFSG

1090 Kilocycles

Angelus Temple, Los Angeles, California

10:30 to 11:30 a. m.—Sunshine Hour. Sermon by Anita Hopper. Prayers for the sick by Rev. Bert Bruffett. Fanny Ashby, Radio Girl.

Helen Stanhope, soprano and accompanist. Essie Binkley, cornetist. V. Stanley Dodge, tenor

11:30 to 12:30 p. m.—Organ recital by Esther Greene. Eunice Hogan Craig and Lella Smiley, sopranos. Viola Pederson and Ruth King in vocal duets

3:30 to 4:30 p. m.—Organ recital by B. Earnest Ballard

7:30 to 9:15 p. m.—Regular water baptismal service

9:15 to 10 p. m.—Gray studio program by Sierra Trio of Pasadena

10 to 11 p. m.—Organ recital by Esther Fricke Greene. Fanny Ashby, radio girl

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SCHEDULES FOR FRIDAY

January 8, 1926

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

a. m.	Central Calif.	Southern Calif.	Pacific N. W.	Inland
6 to 6:30				
6:30 to 7	KPRC			
7 to 7:30	KPO KPRC	KHJ	KGW	
7:30 to 8	KHE KPO KPRC	KNX		
8 to 8:30	KPO KPRC			
8:30 to 9				WFAA
9 to 9:30	KJBS KTAB	KMTR		
9:30 to 10	KJBS	KMTR	KTCL	
10 to 10:30	KJBS	KMTR	KTCL	
10:30 to 11	KFWH KFOU	KFSG KNX	KJR KGW	WFAA KTCL
11 to 11:30	KFWH KRE KFOU KGO	KFSG	KJR	KOA
11:30 to 12	KGO	KFSG	CJCA	KOA
p. m.				
12 to 12:30	KGO KPRC	KNX KFSG KHJ	CJCA	WHB
12:30 to 1	KGO KPO	KNX KFWO KHJ	KFOA KGW	WLB WFAA
1 to 1:30	KPO	KNX KHJ	KFOA KJR KGW	WOC
1:30 to 2	KPO	KNX	KJR	WDAF WFAA
2 to 2:30	KJBS	KNX KMTR	CPAC KJR KFOA	WLW WFAA KDYL WOC
2:30 to 3	KCTT	KNX KFOR KMTR KHJ	KFOA	WLW WFAA KDYL WOC KOA
3 to 3:30	KGO KCTT	KFOR KNX KHJ	CPAC KFOA	WSB WTAM KDYL KFWA KOA
3:30 to 4	KGO KCTT	KFOR KNX KFSG KNRC	KFOA	WSB WTAM WDAF KFRX WFAA KFAB KFWA
4 to 4:30	KLX KGO	KFSG KFOR KNRC	KFEC KFOA	WDAF WOAW WOC KFAB KFWA KFRX
4:30 to 5	KLX KGO	KNX KFOR	KFEC KFOA	WDAF WOAW WFAA WOC KFWA KFRX
5 to 5:30	KGO KLX	KFWO KMTR KNX	CNRE	WLB WOAW KYW WLS WFAA WGY KOA KSL
5:30 to 6	KPO KPRC	KFWO KNX KMTR KFI	CNRE	WHB WBAF KDYL KYW WLS KOA WUY KSL
6 to 6:30	KFWH KPO KGO KZM KPRC	KFI KNX KHJ KFOR KNRC	KMO KJR KFOA KGW CNRE	WBAF WDAF KDYL WSB WOC KYW WLS WMAQ WCO KDKA WGY KOA KSL WEAR WJZ CNRT WENR WWJ
6:30 to 7	KPO KPRC KZM KGO KFOU	KHJ KNX KFI KFWO KFOR KNRC	KMO CNRE KFOA KGW	WMAQ WCO WGN KDKA WGY WOS WJAD WDAF KDYL WSB WOC WLS WEAR KYW KOA KFAB WJZ CNRT WEND WJAD WFAA KSL WWJ
7 to 7:30	KPRC KRE KLX KPO KGO KFOU	KFWO KTBI KNRC KFWB KMJ KMTR KFI KHJ KNX	KGB KFOA KGW	CNRT WENR WJZ WOO WCAP WBS WFAA WEEI KTIS WGY KFAB WGN WEAR WJZ WOAW CYL XICE KOA WMAQ WJAD WWJ WEBB WDAF WCO WGR KYW WCAU WJR WLS WOS WEAF KSL KFKX WJAD
7:30 to 8		KFI KFSG KFWO KTBI KNRC KFWB KNX KMTR KMJ KHJ	KGB CNRE CNBC KFOA KGW KWSC KOAC	KTIS KFKX WMAQ KYW WGR WGY WEAR WJAD CNRT WENR WCAU WJAD WEAF KSL WJZ WLS WOS WEBB WCO WWJ WJR WBAF WOAW CYL XICE KOA KFAB WJZ WOO WCAP WEEI WBS
8 to 8:30	KLX KGW KPRC KTAB KFWH KPO KJBS KFUS KCTT	KFSG KDZB KFOR KFI KHJ KNX KMJ KFWB KNRC KMTR	CNBC CFCT CNRE KGB KFOA KTCL KWSC KGW KOAC	WBAF WOAW XICE KOA WEEI WCAU KSL WQJ WCO WLS KDYL KFAB WEAF WJZ KTIS KFKX WMAQ KYW WGR WGY CNRT WJZ WOO WCAP WENR WBS WEAR
8:30 to 9	KLX KPRC KTAB KGO KFUS KPO KFWH KJBS KCTT	KDZB KFOR KNX KFWB KNRC KMJ KFI KFSG KHJ KMTR	KFOA CKED CFCT CNBC KWSC KGW KGB KJR KOAC KTCL	WOAW WQJ KOA KDYL WEAF WJZ WCO CNRT WOO WCAP WGN WEEI KSL KFKX WMAQ WGN WGR KYW
9 to 9:30	KLX KPRC KTAB KFOU KPO KFWH KJBS KRE	KFI KHJ KFSG KNX KFWB KMTR KNRC	KFOA KJR KGW KMO CFCT KTCL	KYW WSB WEAF WQJ WGR KOIL WOAW KFUR WGN WBCN KSL
9:30 to 10	KPO KFOU KTAB KLX KPRC KRE KFWH KJBS	KFI KHJ KFSG KNX KFWB KMTR KNRC	KFOA KMO KJR KGW KTCL	KYW WSB KFUR WOAW KOIL WQJ WEBB WGR WBCN KSL
10 to 10:30	KPRC KPO KLX KRE	KFI KNX KFWB KHJ KMTR	CPAC KFOA KGW KJR	WDAF KYW WQJ KFUR WEBB WENR
10:30 to 11	KPO KPRC KRE	KFI KNX KFWB KHJ KMTR	CPAC KFOA KGW KJR	WDAF KFUR WEBB WENR WQJ
11 to 11:30	KRE	KNX KFOR KFWB	KGW KFOA	KYW WENR WQJ
11:30 to 12	KRE	KNX KFOR KFWB	KGW	KYW WENR WQJ
12 to 1		KFOR		

KYW radiocasts news items every half hour—on the hour and on the half—during day and night

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PROGRAMS FOR FRIDAY

JANUARY 8, 1926



Eddie Harkness Dance Orchestra—KFOA—10 p. m.

361 Meters

KGO

830 Kilocycles

General Electric Company, Oakland, Calif.

- 11:10 a. m.—Home-making talk by Prudence Penny
 11:30 a. m. to 1 p. m.—Luncheon concert
 12 noon—Time signal
 12:30 p. m.—U. S. weather report
 1:30 p. m.—Stock and weather reports
 3 to 4 p. m.—Rose Florence presents Stanford E. Moses, Jr., basso; Lenore Keithley, soprano; Irma Harris Vogt, accompanist. Signmund Anker presents Alvin Attel, violinist. Pearl Hossack Whitcomb presents Dorothy Clute, mezzo-soprano; Natalia Mitrotsky, soprano
 4 to 5:30 p. m.—Concert Orchestra of the Hotel St. Francis, San Francisco, Vinton La Ferrera conducting
 6 to 7 p. m.—Dinner concert, courtesy Baldwin Piano Company, Knickerbocker Trio
 7 p. m.—News items, weather bureau report, stock reports, produce news

491.5 Meters

KGW

610 Kilocycles

The Morning Oregonian, Portland, Oregon

- 7:15 a. m.—Y.M.C.A. Physical Culture Exercises
 10:30 a. m.—The Town Crier: music, weather report, household hints, shopping guide and news items
 12:30 to 1:30 p. m.—Rose City Trio
 6 to 7 p. m.—Dinner concert
 7 p. m.—Annual Hoot Owl "Hungari" celebration and banquet radiocast from main ball room in Multnomah Hotel

349 Meters

KWSC

860 Kilocycles

Washington State College, Pullman, Wash.

- 7:30 to 9 p. m.—Studio program
 Piano solos, Danae Livesay
 Violin solos, Olga Kraus
 Vocal solos, Louise Fletcher
 "Physics of Everyday Life," No. 1, Dr. R. O. Hutchinson
 "Broader Houses and Equipment for Young Chicks," W. D. Buchanan
 "General Accounting," No. 1, H. J. Rehn

467 Meters

KFI

640 Kilocycles

Copyright 1925 by E. C. Anthony, Inc., L. A.

- 6:30 p. m.—L. A. Examiner matinee program
 6 p. m.—KFI Nightly Doings
 6:15 p. m.—KFI's Seeing California
 6:30 p. m.—Vest Pocket Concert
 6:45 p. m.—KFI Radiatorial Period
 7 p. m.—Program presented by L. A. Examiner
 8 p. m.—Aeolian Organ. Dan L. McFarland at the console
 9 p. m.—Program featuring the All American String Quartette
 9:30 p. m.—Program of Mutual Motors, Inc., featuring Music Program and Joke Contest
 10 p. m.—Ray West's Alexandria Hotel Orchestra, under the direction of John Te Groen

322.4 Meters

KOA

930 Kilocycles

General Electric Company, Denver, Colorado

- 10:45 a. m.—Weather; road reports; stocks; markets; livestock and produce
 11:15 a. m.—Rialto theater musicale
 2:15 p. m.—Relaxing and corrective exercises
 2:30 p. m.—Matinee for housewives
 3 p. m.—Culinary hints
 3:15 p. m.—Fashion review
 5 p. m.—Stocks; markets; livestock; produce and news bulletins
 6:30 p. m.—Dinner Concert, Brown Palace String Orchestra, Howard Tillotson, director
 6:30 p. m.—Preview of International Sunday School lesson
 7 p. m.—Studio program, courtesy Denver Y.W.C.A., featuring the First Congregational Church Quartette of Denver, as follows: Mrs. Bernice W. Doughty, soprano; Jane Ballantyne, contralto; Royden Massey, tenor and Dr. Cornelius DeBey, baritone. The accompanist will be Royce H. Mintener. Selections include quartette and duet numbers and baritone, tenor, soprano and contralto solos. Instrumental music by KOA Orchestra and Sidney Shepherd Emery, violinist. Included will be a talk "Our Twentieth Century Girl"

220 Meters

KFUU

1360 Kilocycles

Mathewson Motor Company, Oakland, Calif.

- 10:45 to 11:45 a. m.—Concert
 6:30 to 7:30 p. m.—Scotty and His Clan

Friday Programs—Continued

240 Meters

KTAB

1250 Kilocycles

Tenth Ave. Baptist Church, Oakland, Calif.

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

8 to 10 p. m.—Program by Browner's

Kiwanis Club Orchestra, Paul Weiss, director

Colonial March.....Lampo

Quintet, Edith Fleming, soprano; Genevieve

Compagno, contralto; Ray Nealan, tenor;

Cyril Breslin, baritone; Clarence Shannon,

bass; Grace Marie Compagno, accompanist

Annie Laurie.....Arr. by Potter

My Old Kentucky Home.....Arr. by Clark

Tenor solos, Ray Nealan—

Last Night.....Kjerulf

Thanks Be to God.....Dickson

Kiwanis Club Orchestra—

Selections from the Serenade.....Herbert

Soprano solos, Edith Fleming—

A Bowl of Roses.....Clarke

Calm as the Night.....Bohm

Tenor and baritone duets, Ray Nealan and

Cyril Breslin

Any Old Port in a Storm.....Mills

Awake Dearest One.....Ball

Kiwanis Club Orchestra—

Mello Moon, waltz.....Elaine

Soprano and Contralto Duets, Edith Fleming

and Genevieve Compagno—

Stars Brightly Shining.....Bronte

Salut d'Amour.....Elgar

Kiwanis Club Orchestra—

Excerpts from Robin Hood.....De Koven

Tenor solos, Ray Nealan—

Passing By.....Purcell

My Thoughts Are You.....Cadman

Mixed quartet, Edith Fleming, soprano; Genevieve

Compagno, contralto; Ray Nealan, tenor;

Cyril Breslin, baritone; Grace Marie

Compagno, accompanist—

The Lost Chord.....Sullivan

I Love You Truly.....Bond

Violin solos, Paul Weiss

Soprano solos, Edith Fleming—

When the Roses Bloom.....Reichardt

All for You.....Brown

Kiwanis Club Orchestra—

Our Director, march.....Bigelow

238 Meters

KMTR

1260 Kilocycles

K. M. Turner, Hollywood, California

9 a. m.—"Dad's Hour" by Dad King

10 a. m.—Dr. John Adams Comstock, director

of the Southwest Museum, Los Angeles, will

talk

2 p. m.—Turner radio program

2:30 p. m.—Easy Chair Hour. Dr. E. L. Swick,

child psychologist

5 p. m.—Home hour conducted by Georgia Sim-

mons. "Peter Pan" hour with Marion Gil-

more and Magdalene Schaffer of the Paul

Gerson Studios, and pupils of Adelaide Gos-

nell Lee, pianist. Anna Lee and Barbara

Erdman

7 p. m.—Charles W. Beam on "Color Photog-

raphy"

7:30 p. m.—Prof. Alfred Cookman, president

of the Los Angeles Nature Club, on "The

Wonders of Nature," birds and animal life

8 to 10 p. m.—KMTR Concert Hour, presenting

the Turner Orchestra

10 to 11 p. m.—Starr Piano Co. program

268 Meters

KFRC

1120 Kilocycles

City of Paris Dry Goods Co., San Francisco

6:30, 7, 7:30, 8 a. m.—Physical Culture Course,

Bernard Drury

12 to 12:20 noon—Inspiration talk, Mary Kath-

erine Maule

5:30 to 6:30 p. m.—Mac and His Gang

6:30 to 7:30 p. m.—Concert in Drury Lane,

Hotel Whitcomb, by Stanislaus Bem's Little

Symphony Orchestra—

Mignonnette Suite.....Friml

Serenade.....Ern

Valse Bluette.....Drigo

Selections from "The Fortune Teller".....Herbert

Intermission soloist

8 to 9 p. m.—Concert by Bem's Little Sym-

phony Orchestra, Hotel Whitcomb—

Selections from "Apple Blossoms".....Kreiser

Marquise.....Massenet

Henry VIII Dances.....German

Grand Opera Selections "Pagliacci".....Leoncavallo

Intermission soloist

9 to 10 p. m.—Studio program

10 to 11 p. m.—Continuous dance music from

the Balconades Ballroom, by Walter Kraus-

grill's Orchestra and William Backstedts' Old-

Timers Orchestra

405.2 Meters

KHJ

740 Kilocycles

Los Angeles Times, Los Angeles, California

7 to 7:15 a. m.—Exercises, Prof. E. L. Severns

12 to 12:30 p. m.—Leighton's Cafeteria Orches-

tra, directed by Jack Cronshaw

12:30 to 1:30 p. m.—Program of dance music

by LeRoy Farry and his Elite Orchestra

2:30 to 3:30 p. m.—Matinee program

6 to 6:30 p. m.—Leighton's Cafeteria Orchestra

6:30 to 7:30 p. m.—Children's program present-

ing Prof. Walter Sylvester Hertzog, Radio

Historian; Richard Headrick, screen juvenile;

Ray Null, 5-year-old reader, and others.

7:30 p. m.—Gladys De Witt will talk on "Ro-

mance of the Santa Fe trail

8 to 10 p. m.—Program through the courtesy

of the Western Auto Supply Co.

10 to 11 p. m.—Biltmore Hotel Dance Orches-

tra

220 Meters

KJBS

1360 Kilocycles

Julius Brunton & Sons Co., San Francisco

9 to 10:45 a. m.—Vocal and instrumental

selections

2 to 2:30 p. m.—Vocal and instrumental

selections

8 to 9 p. m.—Studio program given under the

direction of Jack Lewis, the original Sy

Perkins

9 to 10 p. m.—Regular meeting of the Royal

Order of Smoked Herrings

256 Meters

KFUS

1170 Kilocycles

Sherman School, Oakland, California

8 to 9 p. m.—Regular studio program of sacred

music by the Gospel Tabernacle Chorus of

the Christian and Missionary Alliance Church,

Rev. Hardy W. Mitchell, pastor. Chorus num-

bers and solos, with special message by the

pastor

(Programs continued on next page)

Friday Programs—Continued

428 Meters

KPO

700 Kilocycles

Hale Bros. & The Chronicle, San Francisco
 7:30, 8 a. m.—Daily Dozen Exercises given under the direction of the Y.M.C.A.
 10:30 a. m.—"Ye Towne Cryer" and amusement information, U. S. weather forecast
 10:35 a. m.—Market report on butter, eggs, cheese and poultry
 12 noon—Time signals. Reading of the Scripture
 12:45 p. m.—Talk from the Commonwealth Club luncheon at the Palace Hotel
 1:30 to 2 p. m.—Rudy Selger's Fairmont Hotel Orchestra
 6 to 6:10 p. m.—"Ye Towne Cryer" and amusement information
 6:10 to 6:20 p. m.—A. A. Housman Stock Quotations
 6:30 to 7 p. m.—Waldemar Lind and the States Restaurant Orchestra
 7 to 7:10 p. m.—Investment talk by J. C. Wilson of Bradford, Kimball & Co.
 7:10 to 7:20 p. m.—"How I Carried the Message to Garcia," Colonel A. S. Rowan
 7 to 7:30 p. m.—Cyrus Trobbes' Concert Orchestra from the Palace Hotel
 8 to 11 p. m.—Palace Hotel Dance Orchestra, Gene James, director, with Maurice Gunskey, tenor, assisted at the piano by Merton Bories and Al Jacobs, pianist, intermission soloists

283 Meters

KOAC

1060 Kilocycles

Oregon Agricultural College, Corvallis, Ore.
 7:20 p. m.—Musical selections
 7:30 p. m.—"Book Chat," Miss Gertrude C. Olds
 7:35 p. m.—"Cold Weather Suggestions for the Automobile Driver," Prof. W. J. Gilmore
 7:45 p. m.—"Principles of Landscape Layouts for Small Properties and Farm Home Grounds," Professor A. L. Peck
 8 to 9 p. m.—Musical program

384.4 Meters

KJR

780 Kilocycles

N. W. Radio Service Co., Seattle, Wash.
 10:30 to 11:30 a. m.—Music and talks
 1 p. m.—Time signals
 1:15 to 2 p. m.—Organ recital
 2 to 2:15 p. m.—"Home Helps," talk by Bernice Redington of the Post Intelligencer staff
 2:15 to 2:30 p. m.—Produce report
 5:40 to 6 p. m.—Stock quotations
 6 p. m.—Time signals
 6 to 6:30 p. m.—"What's doing at the theaters"; weather reports
 8:30 to 10 p. m.—Post Intelligencer program
 10 to 11 p. m.—Dance program by Gordon Kilbourne and his Orchestra, remote control from Down's ballroom

232.4 Meters

KFON

1290 Kilocycles

Echophone Radio Shop, Long Beach, Calif.
 2:30 to 4 p. m.—Long Beach Municipal Band
 4 to 4:30 p. m.—Press-Telegram late news reports and James H. Harvey, deep sea fishing news
 4:30 to 5 p. m.—Amusement bulletin
 6 to 6:30 p. m.—Organ recital at Brayton's Theater; Edgar Bayliss at the Console
 6:30 to 7 p. m.—Captain's Inn Orchestra in dinner dance program
 8 to 9 p. m.—Press-Telegram program
 11 p. m. to 1 a. m.—Long Beach Elks No. 888. Midnight Frolic

256 Meters

KRE

1170 Kilocycles

Berkeley Daily Gazette, Berkeley, California
 7:30 a. m.—Good Thought Service, conducted by Dr. Miles B. Fisher
 11:15 a. m.—Physical Exercises for Women by Dorothy Barron
 7 p. m.—News items
 9 to 12 p. m.—Dance program by Horace Heidt and his Hotel Claremont Dance Orchestra playing at the dinner dance at the Hotel Claremont
 9:30 p. m.—Studio program, intermission solos by members of the orchestra

508 Meters

KLX

590 Kilocycles

The Oakland Tribune, Oakland, California
 4 to 5 p. m.—Women's hour
 5 to 5:30 p. m.—Aunt Elsie's Sunset Matinee
 7 to 7:30 p. m.—News items
 8 to 9:45 p. m.—Program through courtesy of Western Auto Supply Company
 9:45 to 10:30 p. m.—Sweet's ballroom, Tom Gerunovich and his ballroom entertainers

252 Meters

KFWB

1190 Kilocycles

Warner Brothers, Hollywood, California
 7:10 p. m.—Talk
 7:20 p. m.—Jack Boas, hunting and fishing scout of New York Hardware Trading Company
 7:30 to 7:40 p. m.—Herbert S. Marshutz, Dr. of Optometry of the Marshutz Optical Co. gives a short Eye-o-logic
 7:40 p. m.—Microphone brevities
 8 to 10 p. m.—Varied program
 10 to 11 p. m.—Warner Bros. frolic
 11 to 12 p. m.—Henry Halstead's Orchestra, radiocasting over KFWB by remote control from the Hollywood Roof Ballroom

294 Meters

KTBI

1020 Kilocycles

The Bible Institute of Los Angeles, Calif.
 7 to 8 p. m.—International Sunday School lesson will be taught by Mr. John A. Hubbard

337 Meters

KNX

890 Kilocycles

Los Angeles Evening Express, Los Angeles

7:30 a. m.—KNX morning gym, by J. C. Casey
 8 a. m.—Inspirational talk and morning prayer
 9 a. m.—Time signals: birthday notices
 10 a. m.—Town Crier of day's morning message
 10:30 a. m.—Household economics, Kate Brew Vaughan
 12 to 1 p. m.—Wurlitzer organ recital
 1:30 p. m.—The Book Worm
 2 p. m.—Los Angeles District Federation of Women's Clubs courtesy program
 4:30 p. m.—Boy Scout musical program
 5 to 6:30 p. m.—Sunny Jim's children's hour
 5:30 to 6:15 p. m.—Wurlitzer organ concert
 5:55 p. m.—The Town Tattler
 6:15 p. m.—W. F. Adler travelogue
 6:30 to 7 p. m.—Atwater Kent Orchestra
 7 p. m.—Feature program
 7:30 p. m.—Eastern Outfitting Co. program
 8 to 9 p. m.—Studio program
 9 to 10 p. m.—Davis Bread Co. program
 10 to 11 p. m.—Feature program
 11 to 12 p. m.—Hotel Ambassador, Ray West's Coconut Grove Orchestra

Friday Programs—Continued

275.1 Meters **KFSG** 1090 Kilocycles

Angelus Temple, Los Angeles, California

10:30 to 11:30 a. m.—Sunshine Hour. Sermon and prayers for the sick by Anita Hopper. Fanny Ashby, Radio Girl. Ruth Frances Thomas, accompanist. Essie Binkley, cornetist.

11:30 to 12:30 p. m.—Organ recital by Ruth Frances Thomas. Ethel Kozias, Thelma Melhrie and Eunice Inagraham, sopranos. Mattie Duckett, colored soprano.

3:30 to 4:30 p. m.—Organ recital by Esther Fricke Greene. Wesley Beans, baritone. Helen Stanhope, soprano.

7:30 to 9 p. m.—Crusaders Rally, address by the pastor.

9 to 10 p. m.—Gray studio program. Address, "Hallucinations," by Walter S. Gates, judge of the Superior Court, Los Angeles County. Katherine Thompson and Lewis D'Ippillito of the Thompson School of Saxophones. Angelus Temple Silver Band, under the direction of Gladwyn N. Nichols.

261 Meters **KFWA** 1150 Kilocycles

Browning Bros. Company, Ogden, Utah

3 to 4 p. m.—Organ recital from Paramount Theater.

4 to 5 p. m.—Ogden Radio Dealers program.

454.3 Meters **KFOA** 660 KilocyclesRhodes Department Store, Seattle, Wash.
12:30 to 1:30 p. m.—Seattle Chamber of Commerce program.

2 to 4 p. m.—Program by Women's Clubs of Seattle and the Pacific Northwest, arranged by Mary Gordon.

4 to 5:15 p. m.—The Times. Wm. F. Hoffman's Olympic Hotel Concert Orchestra. Today's recipe.

6 to 6:45 p. m.—Hoffman's Concert Orchestra.

6:45 to 8:15 p. m.—Sherman, Clay & Company studio program.

8:15 p. m.—Automobile Club news. Weather report.

8:30 to 10 p. m.—The Times studio program.

10 to 11:30 p. m.—Eddie Harkness Dance Orchestra playing from the Marine Room of the Olympic Hotel.

306 Meters **KTCL** 980 Kilocycles

New Washington Hotel, Seattle, Wash.

9:30 to 9:45 a. m.—Weather report; stock and bond quotations.

9:45 to 10 a. m.—Fraser-Paterson Department Store studio program.

10 to 10:15 a. m.—"Exercise Over the Air," by T. G. "Van" Cook.

10:15 to 10:30 a. m.—Daily recipes; announcements from the public markets.

8 to 9 p. m.—Varied program.

9 to 10 p. m.—Western Giant Cord Orchestra.

If Your Xmas Radio Goes Wrong Or—If There is Something More You Need

NO MATTER WHERE IT WAS PURCHASED

CALL ON US

If you can't get satisfaction from that Christmas present come in, bring it in, or write us about it—we can make it work and work right.

Antennas installed. Complete, expert radio service.

We carry a complete line of parts and accessories—everything you can want or need. Tell us your troubles or needs and we will handle them.

We have a special price on Browning-Drake coils. Ask for it.

Ask for what you want—We'll get it

Complete Stock of Transmitting Apparatus

LONG'S RADIO

2812 So. Main Street

Los Angeles, Calif.

Phone Humbolt 1323

Tell them that you saw it in Radiocast Weekly

SCHEDULES FOR SATURDAY

January 9, 1926

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

a. m.	Central Calif.	Southern Calif.	Pacific N. W.	Inland
6:30 to 7	KERC			
7 to 7:30	KERC KPO	KUJ		
7:30 to 8	KERC KRE KPO	KNX		
8 to 8:30	KERC KPO			
8:30 to 9				WFSA
9 to 9:30	KTAB KJBS	KMTR		
9:30 to 10	KJBS	KMTR		
10 to 10:30	KJBS	KFON KMTH		
10:30 to 11	KFOU	KNX KFSG	KGW	KT S WFSA
11 to 11:30	KRE KFOU	KFSG	KFEC	KOA
11:30 to 12	KGO	KFSG	CJCA KFEC	KOA
p. m.				
12 to 12:30	KERC KGO	KUJ KNX KFSG	CJCA	
12:30 to 1	KGO	KUJ KNX KFWO	KGW	WFSA
1 to 1:30	KPO	KUJ KMTR	KGW KJR	
1:30 to 2	KPO	KNX	KJR	WFSA
2 to 2:30	KJBS	KNX KMJ	KJR	KDYL WDAF
2:30 to 3	KPO	KUJ KNX KFON		KDYL WFSA
3 to 3:30	KPO	KUJ KNX KFON	CFAC	WSB WTAM KDYL KFWA
3:30 to 4	KPO	KNX KFON KFSG		WSB WDAF WTAM KFXN WFSA
4 to 4:30	KPO KERC KGO	KFSG KFON KNRC	KFEC KFOA	KFAB KFWA
4:30 to 5	KPO KFEC KGO	KFON	KFEC KFOA	WDAF WDAF WOC KFWA KFAF KFXN
5 to 5:30	KPO KGO KERC	KNX		WDAF KYW WDAF WFSA WOC KFWA KFXN
5:30 to 6	KERC	KFI KNX		WRAP KYW WOC KDKA WFSA KOIL
6 to 6:30	KZM	KFI KNX KUJ	KJR KFOA KGW	WOAW WGY WIP WTAM KSL WLS
6:30 to 7	KERC KZM KPO	KUJ KFI KNX	CJCA KFOA KGW	KDKA WOC KDYL PWX WGY WLS WTAM
7 to 7:30	KLU KERC KPO	KFI KUJ KNX	KGB CJCA	WIP WDAF WOC KYW KSL
7:30 to 8	KFBK	KFI KFSG KFON	KGB KFOA	WIP WDAF WOC KYW KSL
8 to 8:30	KFOU KERC KFBK	KUJ KNX KZB	KGB	WIP WDAF WOC KYW KSL
8:30 to 9	KFOU KERC KFBK	KFI KUJ KFSG KFON	CKCD KGB KJR	WIP WDAF WOC KYW KSL
9 to 9:30	KFOU KFWN KFOB	KFI KUJ KFSG KFN	CFEN CKCD KGB	WIP WDAF WOC KYW KSL
9:30 to 10	KFBK KERC KRE	KFI KUJ KNX KFON	CFEN CKCD KJR	WIP WDAF WOC KYW KSL
10 to 10:30	KERC KRE KFOB	KFI KUJ KNX KFON	KGB CFEN KJR	WIP WDAF WOC KYW KSL
10:30 to 11	KGO KPO KERC	KFI KUJ KNX	KGB CFEN KJR	WIP WDAF WOC KYW KSL
11 to 11:30	KPO KGO KRE	KNX KFI KFWB	KGB KFOA KGW	WIP WDAF WOC KYW KSL
11:30 to 12	KPO KGO KRE	KNX KFI KFWB	KGB KGW KJR	WIP WDAF WOC KYW KSL
12 to 1	KERC KRE KFOU	KNX KFI		KOIL WQJ WBCN
1 to 2	KFOU	KNX KFI		
2 to 3		KFI		

KYW radiocasts news items every half hour—on the hour and on the half—during day and night

Introducing Ourselves to Northern California Dealers—

C. W. Smith Company of Los Angeles announces the opening of a San Francisco office and stock room at 200 Davis Street. Our telephone number is Douglas 8590. On January 1st we will be ready to supply dealers with Utah Loud Speakers, Pearson Sets and Walbert Penetrolas.

C. W. SMITH COMPANY

"Home of the Utah Speaker"

PROGRAMS FOR SATURDAY

JANUARY 9, 1926



Palace Hotel String Quartet, Cyrus Trobbs 1st violin; Bela Puri 2nd violin; Emil Hahl, viola; Leonard Waterman, cello. KFO—3:30 p.m.

George B. Allen
KGO—8 p.m.

467 Meters

KFI

640 Kilocycles

Copyright 1925 by E. C. Anthony, Inc., L. A.

- 5:30 p. m.—L. A. Examiner matinee program
6 p. m.—KFI Nightly Doings
6:15 p. m.—KFI's Seeling California
6:30 p. m.—Vest Pocket Concert
6:45 p. m.—KFI Radiolateral Period
7 p. m.—Oakmont Country Club Orchestra
8 p. m.—Program presented by L. A. Examiner
9 p. m.—The Louise Klos Trio, with Evelyn Pickerell, violinist; Hazel Babbige, cello; Louise Klos, harp, and Ysabel Bowen, soprano soloist
10 p. m.—Packard Radio Club, featuring Joey Ray, Dolly MacDonald, Bobbie Gross, Bud Gore, Charles Cole, Polly Grant Hall, the Carlson Sisters, Billy Hall, Madelin Hardy, Dick Barton
11 p. m.—KFI Midnite Frolic: Don Meaney presenting artists of screen and stage. Don Meaney Master of Ceremonies. Program until 3 a. m.

491.5 Meters

KGW

610 Kilocycles

The Morning Oregonian, Portland, Oregon

- 10:30 a. m.—The Town Crier; music, weather report, news items and shopping guide
12:30 to 1:30 p. m.—Rose City Trio, courtesy Pacific States Electric Company
6 to 7 p. m.—Dinner concert
9 to 12 p. m.—Dance music by wire telephony from Indian Grill of Multnomah Hotel

252 Meters

KFWB

1190 Kilocycles

Warner Brothers, Hollywood, California

- 7:45 p. m.—Microphone brevities
8 to 10 p. m.—Vocal and instrumental program
10 to 11 p. m.—Warner Bros. frolic, featuring several well known artists in popular program
11 to 12 p. m.—Henry Halstead's Orchestra, radiocasting over KFWB by remote control from the Hollywood Roof Ballroom

258 Meters

KFRC

1120 Kilocycles

City of Paris Dry Goods Co., San Francisco

- 6:30, 7, 7:30, 8 a. m.—Physical Culture Course, Bernard Drury
12 noon to 12:20 p. m.—Inspirational talk by Mary Katherine Maule
4 to 5 p. m.—Tea hour music, Stanislaus Bem's Little Symphony, Drury Lane, Whitcomb Hotel
5 p. m.—Paris Letter
5:30 to 6:30 p. m.—Mac and His Gang
6:30 p. m.—Police report and announcements
6:30 to 7:30 p. m.—Wilt Gunzendorfer's Band, playing in Drury Lane, Hotel Whitcomb
8 p. m. to 1 a. m.—Wilt Gunzendorfer's Band

322.4 Meters

KOA

930 Kilocycles

General Electric Company, Denver, Colorado

- 10:45 a. m.—Weather; road reports; stocks; markets; livestock and produce
11:15 a. m.—Rialto theater musicale
8 p. m.—Dance program, Harmony Peerless Orchestra, Colburn Hotel

248 Meters

KFBK

1210 Kilocycles

The Sacramento Bee, Sacramento, Calif.

- 7:30 p. m.—Weather reports; announcements
7:35 p. m.—Estelle Swearingen Murray's story for the children
7:45 p. m.—Vocal program
8 to 10 p. m.—Dance music
10 p. m.—Closing announcements

232.4 Meters

KFON

1290 Kilocycles

Echophone Radio Shop, Long Beach, Calif.

- 10 a. m.—Daily shopping tour
2:30 to 4 p. m.—Long Beach Municipal Band
4 to 4:10 p. m.—Address
4:30 to 5 p. m.—Amusement bulletin
6 to 6:30 p. m.—Organ recital
7:30 to 9 p. m.—Long Beach Municipal Band
9 to 11 p. m.—Echophone Entertainers frolic

Saturday Programs—Continued

351 Meters

KGO

830 Kilocycles

General Electric Company, Oakland, Calif.

11:30 a. m. to 1 p. m.—Luncheon concert

12 noon—Time signals

12:30 p. m.—Weather and stock reports

4 to 5:30 p. m.—Concert Orchestra, Hotel St. Francis, San Francisco, Vinton La Ferrara, conducting

8 to 9:10 p. m.—Weekly "Sport Review" by Al Santoro

8:10 p. m.—Baldwin Piano Company program, San Francisco studio

PART ONE—A WAGNER PROGRAM

San Francisco Concert Orchestra—

Prelude from "Die Meistersinger"

California Mixed Chorus—

Pilgrim's Chorus from "Tannhauser"

Baritone solo, Marion Veckl—

The Evening Star, from "Tannhauser"

San Francisco Concert Orchestra—

Overture from "Tannhauser"

Soprano solos, Flora Howell Bruner—

Elsa's Dream from "Lohengrin"

Elizabeth's Prayer, from "Tannhauser"

Piano solo, Edna Linkowski—

Magic Fire Spell, from "Die Walkure"

Vocal selection—

Quintette from "Die Meistersinger"

Baritone solo, Marion Veckl—

Wotan's Abschied from "Die Walkure"

San Francisco Concert Orchestra—

Rienzi Overture

Tenor solo, Carl Anderson—

Walthers' Prize Song from "Die Meistersinger"

California Male Chorus—

All Praise to God in Light Arrayed

Mixed Chorus—

Bridal Chorus from "Lohengrin"

San Francisco Concert Orchestra—

Ride of the Valkyries from "Die Walkure"

PART TWO—A POPULAR PROGRAM

San Francisco Concert Orchestra—

Memories.....Lang

Baritone solos, George B. Allen—

Do You Ever Miss Me?.....Bishop-Winge

Mary Lou.....Winge

San Francisco Concert Orchestra—

Three O'clock in the Morning.....Robledo

Poor Butterfly.....Hubbell

Soprano solos, Flora Howell Bruner—

Love's First Kiss.....Forster

My Beautiful Lady from "The Pink Lady".....Caryl

Baritone solos, George B. Allen—

Meet Me Tonight in My Dreams.....Winge

I Love the Night.....Hoffman

Contralto solos, Ruth Waterman—

Wish Blossoms.....Eville

Dream Girl.....Schertzinger

San Francisco Concert Orchestra—

Ah! Me!.....Altschuler

Waltz from "The Lost World".....Friml

10 p. m.—to 12 midnight—Dance music program from the Hotel St. Francis, San Francisco.

Girvin Deuel's California Collegians

454.3 Meters

KFOA

660 Kilocycles

Rhodes Department Store, Seattle, Wash.

4 to 5:15 p. m.—The Times, Wm. F. Hoffman's Concert Orchestra

6 to 6:45 p. m.—Hoffman's Concert Orchestra

6:45 to 8:15 p. m.—Rhodes Department Store

10 to 11:30 p. m.—Olympic Hotel, Eddie Harkness Dance Orchestra

428 Meters

KPO

700 Kilocycles

Hale Bros. & The Chronicle, San Francisco

7, 7:30, 8 a. m.—Daily dozen exercises given under the direction of the Y.M.C.A.

10:30 a. m.—Ye Towne Cryer and amusement information; U. S. weather forecast

10:35 a. m.—Market report on butter, eggs, cheese and poultry

12 noon—Time signals; scripture reading

1 to 2 p. m.—Rudy Selger's Fairmont Hotel Orchestra

2:30 p. m.—Studio program

3:30 to 5:30 p. m.—Palace Hotel Concert Orchestra, Cyrus Trobde, director

6:15 p. m.—Stock quotations

6:30 p. m.—Ye Towne Cryer and amusement information service

6:35 to 7:30 p. m.—Waldemar Lind and the States Restaurant Orchestra

8 to 12 p. m.—Cabiria Cafe Orchestra, Jack Coakley, director

256 Meters

KRE

1170 Kilocycles

Berkeley Daily Gazette, Berkeley, California

7:30 a. m.—Good Thought Service, conducted by Dr. Miles B. Fisher

11:15 a. m.—Physical exercises for women, Dorothy Garron

7 p. m.—Current news, by direct wire

8 p. m. to 1 a. m.—Dance program by Horace Heidt and his Hotel Claremont Dance Orchestra playing in the dining room of the Hotel Claremont

8:30 p. m.—Studio program. Intermission solos by members of the dance orchestra

10 p. m.—Studio program. Robert Miller, the singing realtor, singing his own original songs

238 Meters

KMTR

1260 Kilocycles

K. M. Turner, Hollywood, California

9 a. m.—"Dad's Hour" by Dad King

10 a. m.—David M. Roth, famous Memory Expert

1 p. m.—G. Gordon-Whitnall, director-manager of the City Planning Commission

6 to 7 p. m.—Starr Piano Co. program

8 to 10 p. m.—KMTR concert hour, presenting the Turner Orchestra

275.1 Meters

KFSG

1090 Kilocycles

Angelus Temple, Los Angeles, California

10:30 to 11:30 a. m.—Sunshine hour. Sermon and prayer for the sick by Rev. Gladwyn N. Nichols. Fanny Ashby, radio girl. Helen Stanhope, soprano and accompanist

11:30 a. m. to 12:30 p. m.—Organ recital by Esther Fricke Green. Clyde Umhey, baritone

3:30 to 4:30 p. m.—Children's Orchestra directed by Helen McNaughton. Bessie Lincoln, pianist. Blanche Clay, pianist

7:30 to 9:30 p. m.—Divine Healing Service conducted by Aimee Semple McPherson. Testimonies

207 Meters

KFWM

1450 Kilocycles

Oakland Educational Society, Oakland, Cal.

8 to 9:30 p. m.—Vocal and instrumental music Educational lecture

Bible questions answered

(Programs continued on next page)

Saturday Programs—Continued

220 Meters **KFUU** 1360 Kilocycles

Mathewson Motor Company, Oakland, Calif.
 10:45 to 11:45 a. m.—Concert and news events
 6:30 to 7:30 p. m.—Scotty and His Clan
 8 to 9:30 p. m.—Milt Harris Society Orchestra
 9:30 to 11 p. m.—Dance music
 12 to 2 a. m.—Wilson's L'Aiglon Orchestra

240 Meters **KTAB** 1250 Kilocycles

Tenth Ave. Baptist Church, Oakland, Calif.
 9 to 9:30 a. m.—Prayer Service led by Rev. E. L. Spaulding

508 Meters **KLX** 590 Kilocycles

The Oakland Tribune, Oakland, California
 7 to 7:30 p. m.—News items

405.2 Meters **KHJ** 740 Kilocycles

Los Angeles Times, Los Angeles, California
 7 to 7:15 a. m.—Exercises, Prof. B. L. Severns
 12 to 12:30 p. m.—Leighton's Cafeteria Orchestra, directed by Jack Cronshaw
 12:30 to 1:30 p. m.—Program presenting the Egyptian Ballroom Orchestra
 2:30 to 3:30 p. m.—Matinee program
 6 to 6:30 p. m.—Leighton's Cafeteria Orchestra
 6:30 to 7:30 p. m.—Children's program presenting Prof. Walter Sylvester Hertzog, Radio Historian; Jack Searl, 4-year-old reader; Dolly Wright, "Dolly of Radioland"; Henrietta Poland, "Little Forget-Me-Not" and Nona Clapp, "Sunshine Fairy"
 7:30 p. m.—Fred C. McNabb will give a talk on "Gardens"
 8 to 10 p. m.—De Luxe program
 10 to 11 p. m.—Program of dance music by the Biltmore Hotel Orchestra

337 Meters **KNX** 890 Kilocycles

Los Angeles Evening Express, Los Angeles
 7:30 a. m.—KNX morning gym, by J. C. Casey
 8 a. m.—Inspirational talk and morning prayer
 9 a. m.—Time signals; birthday notices
 10 a. m.—Town Crier of day's morning message
 10:30 a. m.—Lessons in French by Floryane Thompson
 12 to 1 p. m.—Wurlitzer organ recital
 1:30 p. m.—The Book Worm
 2 to 4 p. m.—Matinee program
 5 to 5:30 p. m.—Sunny Jim's children's hour
 5:30 to 6:15 p. m.—Wurlitzer organ recital
 6:55 p. m.—The Town Tattler
 6:15 p. m.—W. F. Adler travelogue
 6:30 to 7 p. m.—Atwater Kent Orchestra
 7 p. m.—H. W. McSpadden talk on insect life
 7:15 p. m.—Announcing Sunday services in the leading Los Angeles churches
 7:30 to 8 p. m.—Wurlitzer organ concert
 8 to 10 p. m.—Feature program
 10 to 11 p. m.—Hotel Ambassador, Ray West's Coconut Grove Orchestra
 11 p. m. to 2 a. m.—Hollywood night

220 Meters **KJBS** 1360 Kilocycles

Julius Brunton & Sons Co., San Francisco
 9 to 10:45 a. m.—Vocal and instrumental selections
 2 to 2:30 p. m.—Vocal and instrumental selections

384.4 Meters **KJR** 780 Kilocycles

N. W. Radio Service Co., Seattle, Wash.
 1 p. m.—Time signals
 1:15 to 2 p. m.—Organ recital played on the Wurlitzer of Columbia Theater
 2 to 2:15 p. m.—"Home Helps," talk by Bernice Redington of Post Intelligencer
 2:15 to 2:30 p. m.—Produce report compiled by Chas. E. Hunt, commercial editor of Post Intelligencer
 5:40 to 6 p. m.—Stock quotations
 6 p. m.—Time signals
 6 to 6:30 p. m.—"What's doing at the theaters" weather reports
 8:30 to 10 p. m.—The L. C. Warner Co. program
 10 p. m.—Time signals
 10 to 12 p. m.—Henry Halstead's Victor Recording Orchestra

261 Meters **KFWA** 1150 Kilocycles

Browning Bros. Company, Ogden, Utah
 3 to 4 p. m.—Organ recital
 4 to 5 p. m.—Ogden radio dealers program
 4:45 p. m.—Market reports
 8 to 9:30 p. m.—Organ recital
 9:30 to 11 p. m.—Dance music by Olle Reeves and his Orchestra playing at the Berthana Ballroom



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 OAKLAND, CALIFORNIA

Navy's Radio Serves Many Interests

(Continued from Page 31)

interest of establishing exact latitudes and longitudes.

In an effort to perfect the naval radio service, particularly that afloat, the bureau of engineering points out the need of modern radio apparatus in large amounts. The principal requirements lie in equipment reliable for use in battle-line communications, fire-control work, particularly for aircraft; transmitters to replace spark sets, and more selective receiving sets. Every ship of the fleet, it is held, should also be provided with modern under-water sound receivers, and possible transmitters, which, while not strictly radio, are operated by radio personnel aboard ships.

One of the limitations to progress in Naval radio development seems to lie in the annual appropriations, which have to be distributed economically over the projects planned. Nevertheless, during the next few years the Navy hopes to replace its remaining obsolete spark and arc transmitters, both afloat and ashore with tube sets. Incidentally it will equip each vessel with more selective receivers, chiefly to avoid interference with the public radiocasting stations. A few sets in use operate on radiocast frequencies, but they will soon be eliminated as no ship transmitters now operate on the channels in the radiocast band.

The increased use of aircraft with the fleet has demonstrated that radio communication is a most important factor in this modern method of warfare, and special studies to develop efficient and compact airplane sets especially for use in fighting planes are under way. Another effort is directed toward eliminating the interference due to airplane ignition noises which limit transmission and reception in the air. Among the things reported as accomplished are two-way communication for ships of the fleet simultaneously on several channels; duplex operation on four battleships, five cruisers and an aircraft tender; submarines are now equipped with tube sets having a range of 150 miles; all battleships and

cruisers are operating on tube transmitters; and improved receiving apparatus. Radio apparatus has been replaced or improved, in most Naval foreign stations. Economies include better communication facilities at decreased operating costs; twenty-two low-powered stations have been sold or transferred; through standardization, unit costs of equipment has been reduced and certain salvage work has saved thousands of dollars.

Permalloy, the new magnetic material used in loading submarine cables so as to greatly increase their traffic carrying capacity, has great possibilities for improving the characteristics of the audio frequency transformers used in radio receivers. It is an alloy consisting of 78½ per cent nickel and 21½ per cent iron the permeability is 2,300 as compared with 115 for the best soft iron. Various other elements may be added to impart other desirable properties, chromium thus being added to secure high resistivity.

Two ambitious organizations filed notices with the Department of Commerce this past week to the effect that they would like to go on the air. One of these radiocasting licenses is sought by Messrs. Brooks and Hawley, located at Fuiton, N. Y., who desire a 500-watt station. The other is proposed by the Hotel Abraham Lincoln, in Springfield, Illinois. Together with the applications already on file, these make a total of 180 radiocasters seeking space on the air.

In view of the recently expressed opinion of the National Radio Conference that there are now enough stations on the active list, it is not believed that new applicants have much chance of getting licenses for some time to come, except they are located in places not served by present radiocasters, and it is doubtful if any community in the country would admit that it couldn't get radiocasts from somewhere satisfactorily.

RADIOCAST STATION DIRECTORY

Call	Meters	Owner and Location	Power	Call	Meters	Owner and Location	Power
CFAC	435	Calgary Herald, Canada	2000	KSL	300	Copa & Johnson, Salt Lake	500
CFCN	435	W. W. Grant, Calgary	5000	KTAB	240	10th Ave. Bap. Church, Oak.	1000
CFCT	530	Geo. W. Beaville, Victoria	2000	KTBI	294	Bible Institute, Los Angeles	750
CHBO	435	Alberton Pub. Co., Calgary	1000	KTCB	306	Am. Radio Tel. Co., Seattle	1000
CJCA	517	Journal, Edmonton, Canada	5000	KTHS	375	New Arlington Hotel, Hot Springs, Ark.	750
CKCD	507	Daily Province, Vancouver	750	KTW	454	1st Pres. Church, Seattle	1000
CKCK	376	Lander Pub. Co., Regina, Can.	2000	KWO	243	Portable Wireless Tel. Co., Stockton	50
CKCX	435	W. W. Grant, Calgary	500	RWCO	340	State College, Pullman	500
CNRO	435	Nat. Rys., Calgary, Canada	1000	KYW	538	Westinghouse Elec. & Mfg. Co., Chicago	3500
CNRE	517	Nat. Rys., Edmonton, Canada	5000	KZM	240	West. Radio Inst., Oakland	50
CNRM	411	Nat. Rys., Montreal, Can.	2000	PWX	400	Int. T. & T. Co., Havana	500
CNRO	435	Nat. Rys., Ottawa, Can.	2000	WRAP	476	Star-Telegram, Ft. Worth	1500
CNRE	476	National Rys., Regina, Can.	2000	WBCN	362	Southtown Economist Station, Chicago	500
CNRT	357	Nat. Rys., Toronto, Can.	2000	WBZ	333	Westinghouse Elec., Springfield, Mass.	2000
CNRY	191	Can. Nat. Rys., Vancouver	500	WCAP	460	C. & P. Telephone Co. Wash- ington, D. C.	500
CNRW	384	Nat. Rys., Winnipeg, Canada	2000	WCAU	278	Hotel Pennsylvania, Phila.	500
CYL	510	El Universal, Mexico City	500	WCRD	345	W. G. Voliva, Zion, Ill.	5000
KDKA	300	Westinghouse, E. Pittsburgh	10,000	WCCO	416	Washburn-Crosby Co., Minneapolis, Minn.	5000
KDYL	240	Newhouse Hotel, Salt Lake	50	WCEE	275	Liberty Weekly, Elgin, Ill.	1000
EDZB	240	T. Seifert, Bakersfield, Cal.	100	WCX	517	Free Press, Pontiac, Mich.	2000
RFAB	341	Neb. Butch Auto Co., Lincoln	1000	WDAF	360	The Kansas City Star	500
RFAP	917	A. E. Fowler, San Jose, Cal.	50	WEAF	492	Am. T. & T. Co., N.Y.	5000
KEAU	283	Public Schools, Boise, Idaho	750	WEAR	389	Goodyear Tire & Rubber Co.	1000
KFBK	248	The Bee, Sacramento, Cal.	100	WEBB	370	Edgewater Hotel, Chicago	1500
KFEO	248	Melzer & Frank Co., Portland	50	WEEI	470	Edison Elec. Co., Boston	500
KFI	407	Earl C. Anthony, Inc., L. A.	5000	WENR	266	All Am. Radio Corp., Chicago	500
KFIQ	266	M. E. Church, Yakima, Wn.	50	WFAA	478	Dallas News, Dallas, Texas	500
KFKX	288	Westinghouse, Hastings, Neb.	5000	WGBS	316	Gimbel Bros., New York	500
KFOA	454	Rhodes Co., Seattle, Wn.	1000	WGN	370	Chicago Tribune, Chicago, Ill.	1000
KFOB	226	Bairdame Chm., of Com.	50	WGR	319	Federal Radio Corp., Buffalo	750
KFON	233	Echophone Radio, Long Beach	500	WGY	380	Gen. Elec. Co., Schenectady	5000
KFQU	217	Holy City, California	100	WHD	275	Marquette Journal, Milwaukee, Wis.	500
KFRD	268	City of Paris D. G. Co., S. F.	50	WHAZ	340	Reussclear Inst., Troy, N.Y.	1000
KFRS	276	Angelas Temple, Los Angeles	500	WHE	568	Sweeney Auto School, Kansas City, Mo.	500
KFOR	224	Ogden, Utah, Peery's Bldg.	50	WIP	508	Gimbel Bros., Philadelphia	500
KFUS	250	Sherman School, Oakland, Cal.	50	WJAD	303	Barton Mfg. Co., Waco, Texas	500
KPUT	261	U. of Utah, Salt Lake City	100	WJAZ	322	Zenith Radio Corp., Chicago	500
KFQU	320	Mathewson Motor Co., Oakland	50	WJR	517	Jewett Radio Co., Pontiac, Mich.	5000
KFWV	243	Air Fan Corps., San Diego, Cal.	500	WJY	405	R. C. A., N. Y. City	1000
KFWA	361	Browning Bros., Ogden, Utah	500	WJZ	455	R. C. A., New York City	40,000
KFWB	252	Warner Bros., Hollywood, Cal.	500	WKRC	326	Kodak Radio, Cincinnati	1000
KFWH	254	F. W. Morse, Jr., Chico, Cal.	100	WLBB	303	Liberty Weekly, Elgin, Ill.	2500
KFWI	228	Radio Entertainments, Inc., San Francisco	500	WLS	346	Sears, Roebuck, Chicago	1500
KFWO	211	Lawrence Mott, Avalon, Cal.	250	WLW	422	Crosley Co., Cincinnati	500-6000
KFWM	207	Oakland Educational Society	250	WMAQ	448	Chicago Daily News	1000
KGB	250	Daily Ledger, Tacoma, Wn.	100	WOAI	304	Southern Equipment Co., San Antonio, Texas	2000
KGO	361	Gen. Elec. Co., Oakland, Cal.	3000	WOAW	526	W. O. W., Omaha, Neb.	1000
KGTT	207	Glad Tidings Temple, S. F.	50	WOC	484	Palmer School of Chiroprac- tic, Davenport, Iowa	5000
KGU	270	The Advertiser, Honolulu, Ha.	500	WOK	217	Neutrowound Radio Co., Homewood, Ill.	5000
KGW	491	The Oregonian, Portland, Ore.	500	WOO	508	Wanamaker's, Philadelphia	500
KGY	146	St. Martin's Col. Lacey, Wn.	50	WOS	441	State Marketing Bureau, Jefferson City, Mo.	500
KHJ	405	The Times, Los Angeles, Cal.	500	WOR	406	L. Bainberger, Newark	500
KHQ	273	L. Wasmere, Spokane	1000	WQJ	448	Calumet Baking Powder Co., Chicago	500
KJBS	220	Julius Branton & Sons Co., S. F.	5	WRO	469	R. C. A., Washington, D.C.	500
KJR	384	Northwest Radio Service Co., Seattle	1000	WREG	284	Ree Motor Co., Lansing, Mich.	500
KLDS	441	Reorganized Church of Jesus Christ, Independence, Mo.	1000	WSAI	326	U.S. Playing Card Co., Cincinnati, Ohio	5000
KLS	252	Warner Bros., Oakland	250	WSB	428	The Journal, Atlanta, Ga.	1000
KLX	508	Tribune, Oakland	500	WSM	283	Nat. Life Ins. Co., Nashville, Tennessee	500
KLZ	268	Reynolds Radio Co., Denver	250	WTAM	389	Willard Storage Battery Co., Cleveland, Ohio	3500
KMJ	234	The Fresno Bee	50	WWJ	353	Detroit Evening News	1000
KMO	250	Love Elec. Co., Tacoma	100	XICE	400	State Government, Chihuahua, Mexico	250
KMTB	238	R. M. Turner, Hollywood, Cal.	500				
KNEC	208	Kierulff & Ravenscroft, L.A.	250				
KNX	337	L. A. Express, Hollywood	500				
KOA	322	General Elec. Co., Denver	5000				
KOAC	283	Ore. Agr. College, Corvallis	500				
KOB	348	State College, New Mexico	2000				
KOIL	276	Mona Motor Oil Co., Council Bluffs, Iowa	500				
KPO	428	Hale Bros. and The Chronicle San Francisco	1000				
KPPC	228	Pasadena Pres. Church	50				
KPAN	316	The Hear-News, Pasadena	1000				
KQW	331	1st Baptist Church, San Jose	500				
KRE	250	The Gazette, Berkeley	100				
KSD	545	The Post-Dispatch, St. Louis	500				

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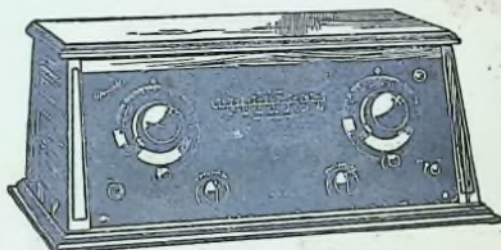
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