

RADIO DOINGS

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« THE PACIFIC COAST PROGRAM AND TECHNICAL MONTHLY »



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McWebster
KNX
(See Page 18)

February, 1931

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RADIO DOINGS

CLOYD MARSHALL, JR. Editor
 G. W. MARSHALL Business Manager
 K. G. ORMISTON Technical Editor
 DOROTHY HUMMEL Studio Editor

February, 1931

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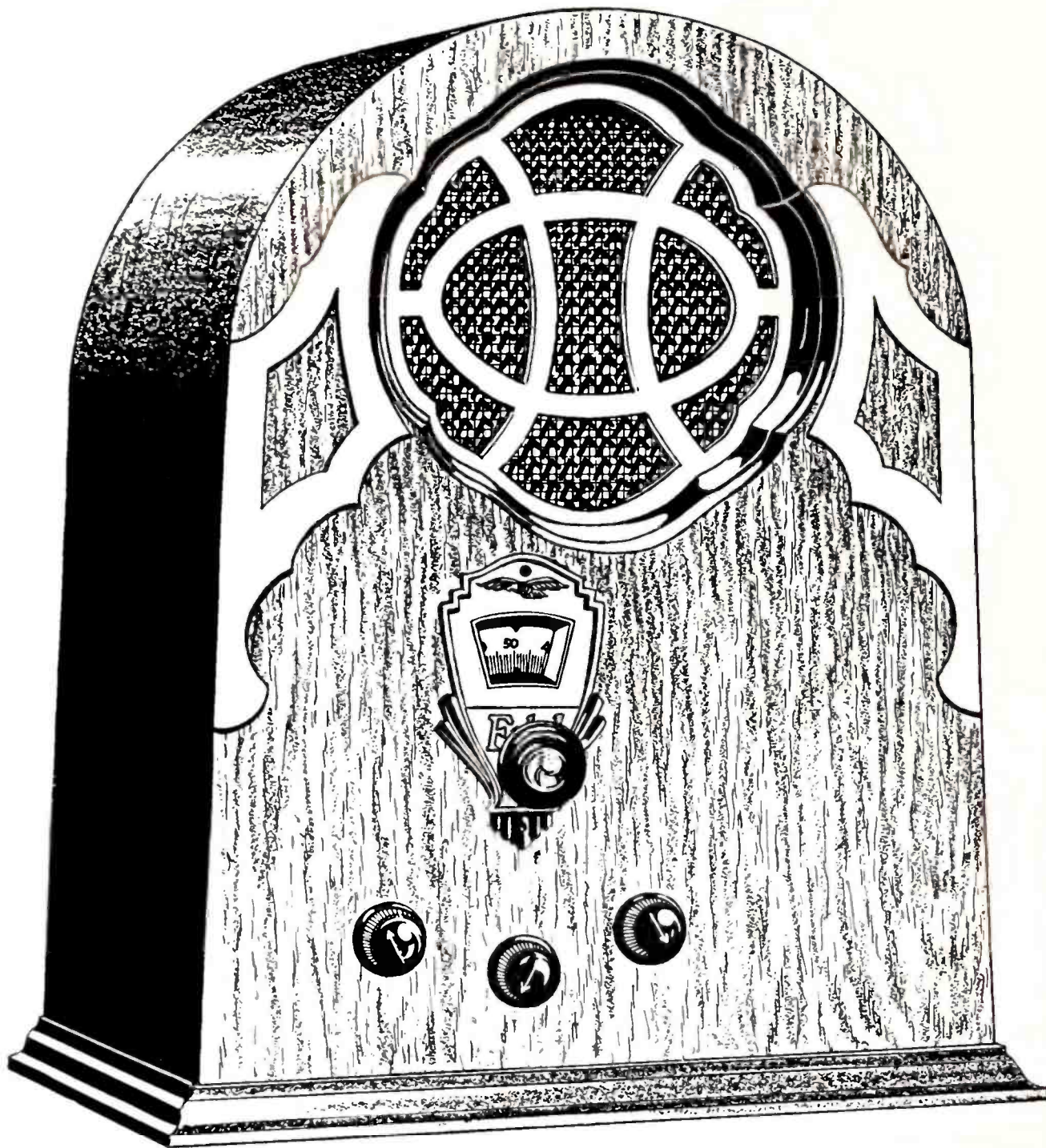
More Stations

A FAIR judgment given the work of the Federal Radio Commission must result in approval on the part of all listeners properly informed. Discouraging obstacles thrown in the way of this body have made its accomplishments all the more noteworthy in untangling the mess of a few years ago. We now have some semblance of order on the air. Every station has its allotment of time and power, its wave length and location. To exercise adequate control all licenses automatically become void each ninety days. This permits weeding out the undesirables and keeping for set owners the best of the broadcasters. Tremendous efforts have been made to take advantage of the Davis Equalization Act and allow each district only its exact quota. Aside from this idea having little or no influence on the total number of stations the Commission is not really sure that it can remove a station that puts up a hard fight.

This is all by way of introducing the nub of the whole thing, which is that people want less stations. There is too much overlapping and too much mediocre stuff given out. A current resolution in the House of Representatives calls for the ousting of at least one-third of the American broadcasters. This is a fine step. Folks don't mind the 400,000 watts just allotted to W8XAR (KDKA) for experimental purposes, nor the 50,000 watts assigned to many of the stations on the forty clear channels. But they do mind having dozens of inferior stations continually interfering.

But along comes a real snag to any proposed cut. Whether we add to or decrease the number of domestic broadcasters does not deter Canada or Mexico from throwing on the air a large quantity of stations that simply spoil our whole system of reception. Fifteen new licenses in the Southern Republic have just been issued, making a total of thirty-five.

So it may be wise before cutting our total number to have another North American allotment conference. It must and will come. Then the Commission should get busy and cut!



The Falck Super-Heterodyne model illustrated above is proof of what can be done when skilled radio designers and technicians condense the superlatives of radio performance into a small attractive cabinet. This convenient size, beautiful Roman shape cabinet in exquisite walnut conceals a mighty giant of distance, tone, and general all-round performance.

\$79⁵⁰
Complete

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AT AN AMAZING, LOW PRICE

DX FANS—

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All these stations were tuned-in clearly without interference on a Falck Midget Super-heterodyne.

KREG	5	1500 Kc	Santa Ana, Calif.
KGA	8½	1470	Spokane, Wash.
KECA	11	1430	Los Angeles, Calif.
KFQU	11½	1420	Holy City, Calif.
KLO	12	1400	Ogden, Utah
KOY	13	1390	Phoenix, Arizona
KZM	14	1370	Hayward, Calif.
KGER	14½	1360	Long Beach, Calif.
KGB	16	1330	San Diego, Calif.
KGHF	17	1320	Pueblo, Colo.
KTSM	17½	1310	El Paso, Texas
KPDR	18	1300	Portland, Ore.
KDYL	18½	1290	Salt Lake City, Utah
KOL	20	1270	Seattle, Wash.
KFOX	21½	1250	Long Beach, Calif.
KYA	22½	1230	San Francisco, Calif.
KGFJ	24½	1200	Los Angeles, Calif.
WOAI	25½	1190	San Antonio, Texas
KEX	26	1180	Portland, Oregon
KTNT	26½	1170	Muscatine, Iowa
KSL	30	1130	Salt Lake City, Utah
KMIC	31	1120	Los Angeles, Calif.
KMOX	33	1090	St. Louis, Mo.
WTAM	34½	1070	Cleveland, Ohio
KWJJ	35	1060	Portland, Oregon
KNX	36½	1050	Los Angeles, Calif.
KRLD	37	1040	Dallas, Texas
KYW	38½	1020	Chicago, Ill.
KQW	40	1010	San Jose, Calif.
KFVD	41	1000	Los Angeles, Calif.
WHO	41½	1000	Des Moines, Iowa
KDKA	42½	980	Pittsburgh, Pa.
KOMO	43½	970	Seattle, Wash.
KFWB	45	950	Los Angeles, Calif.
KOIN	45½	940	Portland, Oregon
KROW	46½	930	Oakland, Calif.
KFWI	46½	930	San Francisco, Calif.
KPXF	48	920	Denver, Colo.
KHJ	50	900	Los Angeles, Calif.
XEB	51	895	Mexico City, Mex.
KLX	52	880	Oakland, Calif.
WENR	53	870	Chicago, Ill.
KWKH	55	850	Shreveport, La.
KOA	57	830	Denver, Colo.
WHAS	57½	820	Louisville, Ky.
WCCO	58	810	Minneapolis, Minn.
WFAA	59	800	Dallas, Texas
KGO	60½	790	Oakland, Calif.
KTM	62	780	Los Angeles, Calif.
WBBM	63	770	Chicago, Ill.
KVI	65	760	Tacoma, Wash.
WJR	66	750	Detroit, Mich.
WSB	67	740	Atlanta, Ga.
WGN	68½	720	Chicago, Ill.
KMPC	70	710	Beverly Hills, Calif.
WLW	72½	700	Cincinnati, Ohio
KPO	75	680	San Francisco, Calif.
WMAQ	76½	670	Chicago, Ill.
KFI	80	640	Los Angeles, Calif.
KTAR	81½	620	Phoenix, Arizona
KGW	83½	620	Portland, Oregon
KFRC	85	610	San Francisco, Calif.
KFSB	86½	600	San Diego, Calif.
KHQ	88	590	Spokane, Wash.
KMTR	92	570	Los Angeles, Calif.
KTAB	94	560	Oakland, Calif.

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Super-heterodyne, as you well know, has always been the "Rolls-Royce" of radio circuits. Now, with recent revolutionary improvements, it is taking the country by storm, making it possible for almost every home to have a Super-heterodyne. This offer is one of the most unusual bargains in the history of radio. You are urged to see this beautiful walnut-cased radio instrument. Inspect it. Hear its marvelous tone. Note the stations it will bring in clearly. See its many features usually found only in sets sold at much higher prices.

You Get All These Distinctive Features in This Set

1. Super-heterodyne circuit fully licensed under the patents and patent applications of RCA, General Electric, Westinghouse, American Telephone & Telegraph Company—also under Hazeltine and LaTour patents.
2. Full dial efficiency and characteristic Super-heterodyne ten kilocycle selectivity.
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4. 245 power tubes.
5. Completely shielded.
6. Dynatron oscillator and band-pass tuning.
7. Magnavox electro-dynamic power speaker.
8. Long-Distance switch.
9. Single dial calibrated in kilocycles and illuminated for full vision.
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11. Tone control.
12. Genuine walnut cabinet with beautiful figured wood overlays.

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You Can Place Anywhere

PILOT MIDGET

This attractive two-tone walnut miniature A. C. receiver has proved the equal of high priced consoles in many locations throughout the country. Because—it embodies console features; 2-224 Screen Grid stages, 1-224 Screen Grid Power detector, 1-227 Audio stage, 1-245 Power Audio output stage and specially designed electro dynamic speaker. A super powered 280 voltage supply gives trouble-free operation from any 110-20 volt house current line.

Pilotron tubes are standard equipment because Pilot retailers know none are more reliable.

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Modernistic
Cabinet

\$59.50
less tubes

For World-Wide Radio Reception

Short and Long Waves, 14 to 500 Meters

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Rev. J. W. Nilsen, Bolonque, Congo-Belge Africa says: "Here in the heart of Africa I have received 9LO, JB, 2BL, 5SW, AFK, PCJ, WGY (W2XAF), WRNY (W2XAL) and more stations on loud speaker with my Pilot Super-Wasp."

David W. J. Jones, Brisbane, Australia says: "I have received on my Super-Wasp all the test transmissions between W2XAF (Schenectady, U. S. A.) and VK2ME (Sydney NSW), Aero, ICT Holland, GSSW England and Sydney—London phone service."

Austin R. Baldwin, St. Raphael (Var.) France, says: "I heard from KDKA 25.4 meters, 'We will now rebroadcast a concert from London.' Shortly after the music from London came in clearly, having twice crossed the Atlantic."

Pilot Super-Wasp Comes in KIT FORM which can be assembled in a few hours

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\$29.50

Kit K-110: The battery-operated Super-Wasp. Batteries and Tubes extra.

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Kit K-115: The A.C. Super-Wasp. Use your own ABC pack or Pilot K-111, specially designed for the Super-Wasp. Power Pack and Tubes extra.

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RADIO
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ENDORSED BY
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PRICE
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less microphone

Microphone as illustrated. \$10 additional

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THE PACENT RECORDOVOX assembly consists of the RECORDOVOX, furnished with clips, a special adapter and the selector switch illustrated above, together with the necessary connecting cords. Price \$25.00. The hand microphone illustrated will be supplied only when requested, at an extra cost of \$10.00 list.

THE PACENT RECORDOVOX is designed to operate with the pre-grooved type of records which are available everywhere at a small cost. It is a quality product, made by the manufacturers of talking picture equipment now operating satisfactorily in over 2,000 theatres throughout the world.

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Pioneers in Radio and Electric Reproduction for over 20 Years. Licensee for Canada: White Radio, Ltd., Hamilton, Ont.

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SUPPLIED IN CAPACITIES FROM .0001 TO .5 MFD.

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—Since 1915



*INSTALL Cunninghams when
your set is new—re-tube with
them to keep it young*

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As suppliers of essential parts to nearly the entire industry, we have followed radio's growth and problems intimately. We see the follies of youth being replaced by the fruits of experience. There is real hope in the new tempo, which relentlessly beats out an Eleventh Commandment: "Thou shalt gear Production to Demand!"

This modern creed thrives on Action. It requires almost instant manufacturing from minimum inventories. Hand to mouth buying;—hard fisted hands, determined mouths.

Many headaches, much perspiring, no excuses. *But it is successful!*

Our own extensive facilities, radiating from three large plants, have been of no small assistance to many urgent production programs of this New Day.

We are prepared, in 1931, to render even more extensively the service this Eleventh Commandment requires: immediate and substantial shipments of paper, electrolytic and mica condensers, resistors, volume controls, transformers, chokes, coils and magnet wire.

Follow other Leaders in eliminating many of the headaches! *Standardize on Polymet Products.*

POLYMET

MANUFACTURING CORPORATION

District Representative THE SPECTOR COMPANY, Rialto Bldg., San Francisco

Patterson SCREEN GRID Radio

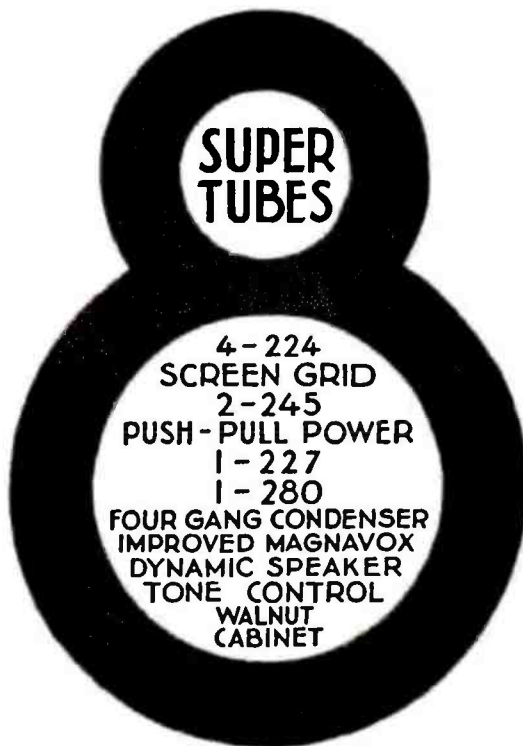


Junior Model
\$69.50
Complete



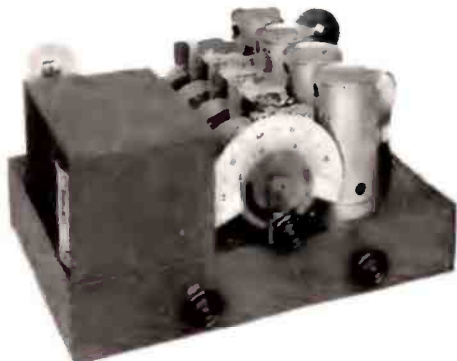
Console Model 89
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2-245
PUSH-PULL POWER
1-227
1-280
FOUR GANG CONDENSER
IMPROVED MAGNAVOX
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Patterson "8" Chassis

IMPORTANT

Do not confuse the PATTERSON with the innumerable so-called midgets now on the market. Patterson has been building quality radios since 1920. They are guaranteed equal in performance, quality of material and eye appeal to any radio selling for twice the Patterson list. Remember this, "there is no substitute for quality."

PATTERSON gives the dealer new freedom from servicing for the PATTERSON is proof against the troubles that spoil ordinary radio reception and, best of all, a big profit in this wonderful radio line discounts that work wonders for the profit side of your ledger.

Write, Wire or Telephone for Information

PATTERSON RADIO COMPANY

239 S. Los Angeles Street

Los Angeles

Manufacturers

Since 1920

THE WEST NEEDS HIGH POWER

By HAROLD A. LAFOUNT
Federal Radio Commissioner

(EDITORS NOTE—The recent General Order No. 102 adopted by the Federal Radio Commission is reported in detail on page 24 of this issue. It effectually blocks the increase in power by any station in California, since the state is slightly over quota under the unit and quota system used. It will be noted that Commissioner Lafount raised the only dissenting voice. Commissioner Lafount knows that in the vast territory encompassed by the Fifth Zone, high power is essential in order to reach the widely scattered population. A limitation of power on the cleared channels is a restriction which is most certainly not in the public interest, convenience or necessity. We have asked our Commissioner for an expression from him relative to the power limitation question, and we are pleased to present it herewith. RADIO DOINGS is heartily in accord with Commissioner Lafount's views.)

The proper harnessing of the ether to secure the greatest benefits must necessarily recognize existing and underlying facts. If this new art is to allow paramount service to the public, the density and distribution of population in city



Harold A. Lafount

and country must be considered. Radio facilities which are available must be allocated so as to reach equally well and reliably both these classes of people, and this must be done so as to avoid any interference.

It is obvious that most of this country's population lies well East of the Mississippi and mostly in cities and towns of the new England and Middle Atlantic States. Here reliable and adequate service may be had with appropriate number of stations with power to cover the areas. However, in the sparsely populated areas of the great West the same power would not reach the people.

Radio, like the stage coach, railroad and automobile, must be adapted to existing circumstances. The need for greater power in transportation became manifest and the stage coach and canal gave way to the modern high power automobile and super-powered modern locomotive. The people who have traveled westward by these means and have settled

those large areas beyond city and urban life require higher power to serve them.

A few years ago 10 to 1000 watts was considered ample power; rural people had no receiving sets, the city dweller was well served with small power. That condition no longer exists for almost every rural dweller has his radio receiver. A fair size electric sign uses approximately 50,000 watts or about 67 H.P. A 60 H.P. automobile is not considered high power yet there are those who become shocked at the use of 50,000 watts by a radio station which serves millions of listeners over wide areas while the automobile or sign serve but a very few.

A high powered radio station, properly separated geographically and in frequency, would cause no more interference than a low powered station. In fact, several low powered stations on the same frequency separated by about five-hundred miles will greatly reduce the night service area of each. Stations of five-thousand watts on the same frequency require more geographical separation than available in the United States to avoid interference. These facts seem to justify the use of cleared channels for interference-free service. If so, I can see no sound reason to limit the power of stations operating on them.

Commission Asks More Police Power

Authority to put broadcasting stations off the air for 30 days when they violate minor radio regulations is asked by the Federal Radio Commission in its annual report to Congress submitted recently.

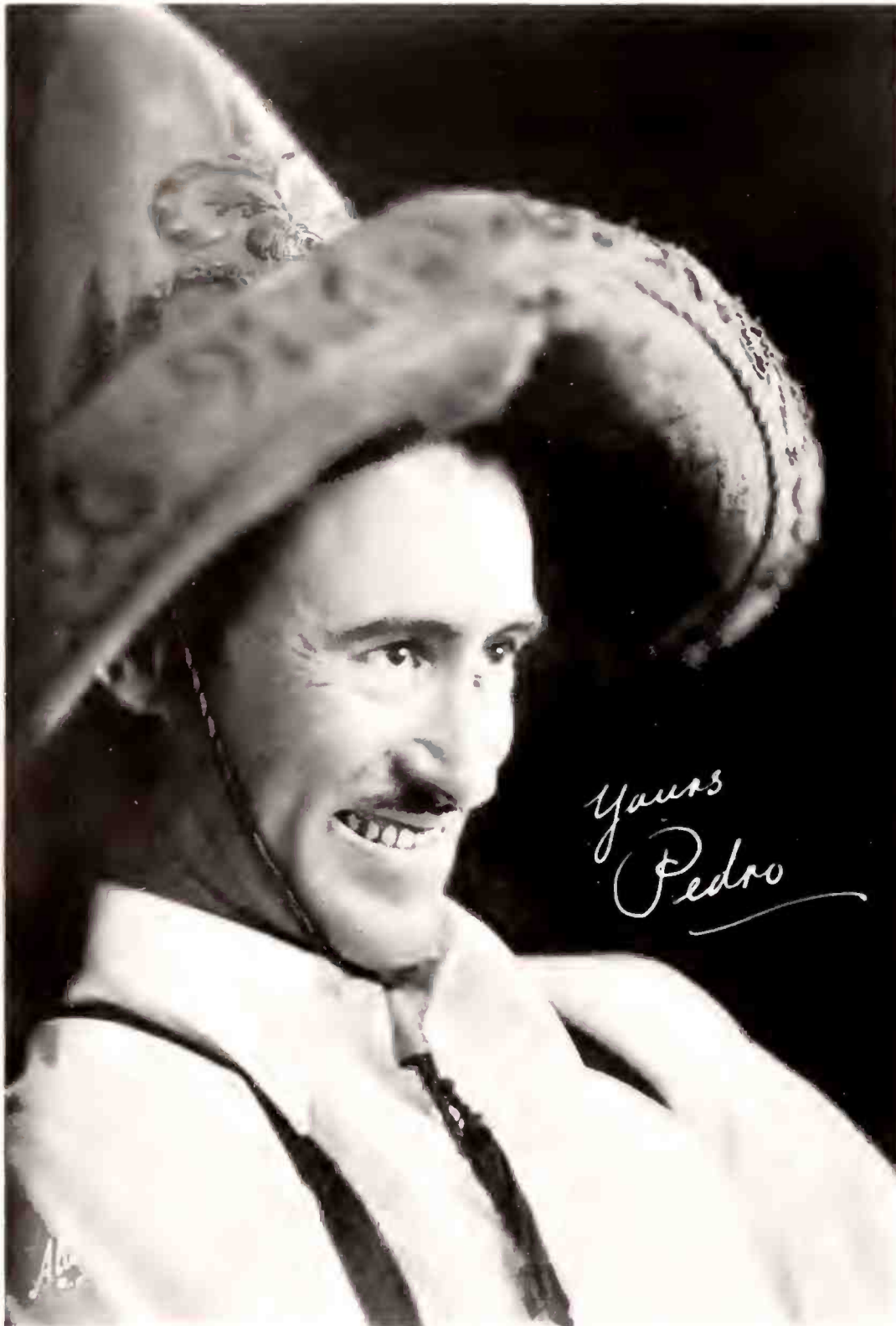
Under the present system, the Commission can only revoke a station's license or else place it on probation for 30 days until its defense can be heard. Many of the offenses, it was explained, do not warrant such stern measures as the first.

Last year was marked by development in every field of radio, the report stated, such as in point-to-point communication, television and aviation.

That the commission has assumed a hard-boiled attitude toward applicants for broadcasting facilities, largely because of the present congestion of stations, was evident in the announcement that only one out of every 12 applications was granted. During the fiscal year 8,543 applications of various sorts were handled by the commission. Of these 944 were set for hearings, but only 77 were granted.

Out of those refused, 36 were appealed to the District Court of Appeals, and a few were taken to equity and District Courts in the areas in which the aggrieved station was located.

WE APPLAUD . . .



PEDRO . . . KFRC

BECAUSE: Eugene Hawes' perfect characterization of a young Mexican lad combines both an excellent imitation of the dialect and an understanding of the processes that are present in the Mexican's soul; because his presentation is so real that one can imagine the purple tie, yellow shoes, green hat and enormous sombrero and finally because Pedro, lovable, worthless, "Out of a job and glad of it" has become one of the public's favorite comedians.



Don Wilson . . . KFI

It is strange, indeed, this fascination that surrounds the lives of hunted things—be they birds in the jungle, butterflies in the gardens, speckled trout in the streams or announcers in radio stations.

Insofar as RADIO DOINGS is a magazine devoted in every throbbing line to radio and the *modus vivendi* (no relative of *spiritus frumenti*) of radio workers, let us survey briefly and charitably one day's existence of a radio announcer.

We must first pick our announcer. From this distance, the first we see, munching peanuts behind a condenser microphone, is Don Wilson. It's quite easy to see Don—there's lots of him. And he's nibbling away in Studio A of KFI-KECA.

It's quite early in the morning, quite. Three o'clock, to be exact. Don often begins his day at this hour. Why? Because there's eight hours' difference between Los Angeles and London, and since KFI-KECA often carry speeches delivered and intended by King George or Premier MacDonald for posterity, Don must start work at 3:00 a. m. The knowledge that His Majesty or Mr. MacDonald have just finished one of those dear British breakfasts makes Don not a whit happier.

Don's heart as a matter of fact is not, as we would think, in the words of royalty or viziership. Don, to put it in homely language, wishes he were in the hay—with hot cakes and nude bacon (beg pardon, I meant stripped bacon), still five hours away.

London signs off at four. Don turns the microphone over to another very sleepy and slightly irritated announcer, Kenneth Carpenter. Mr. Carpenter came to work in the belief that the program would continue for another hour. But it didn't continue. That ubiquitous and fugitive factor, "atmospheric conditions," did not allow it.

So we have two announcers sipping coffee

before dawn, their matutinal dispositions ruined.

At eight o'clock Mr. Wilson returns to the studio. He is scheduled to announce a program for Lizzy Doakes, who breathes passionate blues and heart-broken ballads for the large-and-not-to-be-despised chamber-maid audience.

Lizzy is not in the studio. Time creeps to thirty seconds before eight. Don, in a cold sweat, wonders what to do if the delectable Lizzy doesn't show up. He is still wondering as he makes his sign-on announcement.

As he finishes speaking, the door opens and Lizzy saunters in, her accompanist at her heels, both giggling and chewing toffee. Don whispers:

"Got your program?"

More giggles. No, they haven't their program.

"Then for Gawd's sake start singin'. Gimme the first number."

Don chatters amiably into the microphone until Blues-and-Ballads starts crooning. Thereafter, it is catch-as-catch-can to get from her, without being heard, the remaining numbers. Their public is saved, but Don's nerves are scratchy.

In the meantime, Gene Grant of the commercial department is having words with Mr. Kenneth Carpenter and another gentleman.

"Ken," says Gene, "this is Mr. Greenbaum, sponsor of the doughnut program Wednesday mornings. Mr. Greenbaum does not feel, in fact he is almost certain, that we could improve the way we put over his announcement. Maybe you could get together . . ."

Mr. Greenbaum cuts in:

"We want it more enthusiasm in the voice. When you says 'doughnuts that you needn't dunk,' you gotta get strong when you say 'needn't,' see? You gotta give it a little thought. Start kinda easy and slow and then give 'em everything on 'needn't.' It's an art, I tell you!"

"Well, perhaps I could do better if I understood the slogan better."

OH! TO BE AN ANNOUNCER!

By JOSE RODRIGUEZ

(Director of Publicity KFI-KECA)

"You don't hafta. It's just a slogan. Sounds kinda cute, that's all. Just give 'em the big shot like I told you. Make 'em believe in doughnuts. Make 'em doughnut-conscious, see?"

"I see."

"Yeh—see that you do. Do sump'n. My wife (she took lessons in elocution once and she knows) don't like it the way you do."

Wilson is through with Lizzy Doakes. He is now announcing a program by Jascha Novgorod, violinist. M. Novgorod persists in touching the microphone, and Don has to issue dire warnings. M. Novgorod also neglected to inform either the program department or Mr. Wilson what he would play. M. Novgorod is a very proud and touchy gentleman whose family, of course, was driven from high estates and impoverished by the Bolsheviks.

Time, to M. Novgorod, is nothing. The fact that he must make way at ten sharp for an international broadcast disturbs him not at all. To him it is far more important that the Corelli variations be finished to the last harmonic.

Mr. Wilson gently, but firmly, disconnects M. Novgorod's microphone and signs-on the international broadcast. M. Novgorod, in Russian, announces himself the eternal enemy of that unfeeling monster, Mr. Wilson.

Harry Hall, assistant program director, summons Mr. Carpenter.

"You'll have to take on the symphony concert tonight at nine, and at ten you'll have to be master-of-ceremonies at the Hi-Life cafe."

"Okay. But I came to work at four."

"Can't help it. We're short-handed."

"There's a continuity for the symphony, of course?"

"If we can get Mr. Rodriguez to write one. But he's not here."

"He's never here, the snake."

(Continued on Page 41)

FOR YOUR ENTERTAINMENT

"SEETHES there a mole-er-breathes there a hole"—well—is there anyone living within dialing distance of KNX who hasn't been more or less convulsed with Discount Standard McWebster's learned discourses on some tropic or other? Gene Byrnes, who created the character of the silver-tongued (if somewhat befuddled) orator is best described as versatile, and when we say versatile we mean just that! He is an organist of ability: he has written over four hundred songs, the best known being "Lolita My Dove" and "Elisa;" he is a poet and writer; he has recently composed a suite of orchestral pieces called, "Moods of the Sea;" and he entertains over the air in six characters each speaking a different dialect! And to top it all off, Gene is *really* funny in an inimitable way that has to do with hands, voice intonations, gestures, eyebrows, etc. If you aren't amused by the following discourse after you have had it read out loud in the manner of the impassioned orators of the old school, then your sense of humor has that "tired, dragging, sluggish feeling" and needs Gene Byrnes once (at least) daily to tone it up. Mondays, Wednesdays and Friday noons Mr. Byrnes picks scraps from waste basket and Thursday night at 8:30 he joins Jack Carter to make the "Soup to Nuts" program a riot of mirth.

Presenting—

The World's Leading Opponent of the King's English

DISCOUNT STANDARD McWEBSTER,
F.B. (Financially Busted)

In a very learned discourse on the tropic:
"Every Good American Should Own His Own Comb"

The apartment louse is doomed! The American people are immersing from the cliff dwelling sage-er-page-er-age and are migrating to the adverbs-er-songbirds-er-suburbs. Here a man can find a clot of brass-er-a blot of jazz-er-a plot of grass to call his own. Here beer gardens-er-flower gardens shall break forth into bloomers and old smother razor-er-old mother Nature shall reign supine! Heaven speed the day when this enlabeled generator shall follow in the footprints of our floorfathers and make their way into the plural districts!

(HOORAY!)

No doubt you have been on a free real estate slip-er-pip-er-trip. You will doubtless wreck-a-neck the pasty-er-hasty-er tasty box crunch with which you were nerved-er-served. Then you were shown a dutiful lot and they took you into a three by sick booth called the "Turkey bath." If you didn't pie a lot you ought to be hot-er-shot! In fact you probably were. The modern steal estate man is the Christopher Columbar of the 20th gentry. He is grazing a tail-er-brazing a nail-er-blazing a trail. He is carrying the porch aloft to light the way for the regenerations to folly-er-follow! I say—more shower to him!

(HOORAY!)

Bleeds there the lamb with mole so bread that has never vichysized-er-visual-er-vizzivyssy-er-division-er-viscitude-er-er — who has never dreamed of some day zoning his own dome? It is the innermost serge of

every humid being! A man screams of sitting in front of his own heart and gazing into the mouldering members a rundown-er-sundown. He wants to see his little chilblains praying on the tinoleum. He wants to see a fritter of poppys-er-a critter of snuppies-er-a litter of puppies tumbling around on the liver room snore-er-living room floor. He wants the bribery-er-tribery-er-privacy that only a little jungelglow surrendered with euchrepiptus fleas-er-trees can give to him! Let us hail the day when every jam will tone his own foam!

(HOORAY!)

But as they say in Italics, "Fempus Tugit," and so I must bring my message to a nose. Let me league you with a few shoasing clurds-er-posing birds-er-closing words of perspiration. Get out into the wide open faces. Forget the way white gay that leads to instruction. Stick to the straight and marrow bath that will make you successpool! Be tankfull that you are living in a spree country! If a man asks you to mock a smile with him, go with a sprain. Go out and get that concrete dome now! Start praying off the morgue at seven for a cent. Remember the words of that great English skatesman, William Flit: He said, "The Thirst Shall be Flask, and the Glass shall be hearse!"

I CRANK YOU!

WARNING: This speech is a copyrighted feature and cannot be used for any professional purposes without permission of the author.

—Gene Byrnes.



MISCHA CEGNA

Russian 'cello soloist who is heard on Justin Johnson's program at 8:30 nightly over KMTR is recognized as a brilliant artist both in Europe and America

"Twinkle, Twinkle, Little Star,
How we wonder WHERE you are!"

Before the ink was dry on last month's book, Charlie Wellman had packed up and fled to San Francisco to join the National Broadcasting Company staff and Velva G. Darling, Modern Girl Philosopher, was lured over to the United Broadcasting Company. Now that that's straightened out it might be well to alibi ourselves. The first of the year brought many hundreds of changes in station personnel, programs, talent and sponsors. Many contracts were renewed, some cancelled and some inaugurated. We foresaw the trap and hated to commit ourselves, but the show must go on, of course. Now that everyone has settled down and gotten used to writing 1931 we promise to give you the most accurate and up-to-the-minute radio news that it is humanly possible to give. That was our New Year's resolution. We'll begin by telling you that Charlie Wellman, Prince of Pep, is singing about Mellow'd coffee on Monday, Wednesday and Friday mornings at 10 over KGO, KHQ, KOMO, KGW, KECA, KFSD and KTAR. Velva G. Darling dispenses wisdom over the United chain at 9:00 every morning except Sunday.



The National Broadcasting Company assures an anxious world that Amos 'n' Andy, The Shell Happy Time, The Spotlight Review, Standard School of the Air, Gilmore Circus, "Adventures of Sherlock Holmes," The Palmolive Hours, The Armstrong Quakers and many other favorite programs will remain on the air during 1931. In addition, many new programs of interest are appearing daily on the schedule, one of the newest being Our Own Bobby Jones in a series of golf chats announced by Georgia Drawl (Bill) Munday. These talks will originate at WSB in Atlanta. The time is 5 p. m. every Wednesday over KGO, KHQ, KOMO, KGW, KECA, KFSD, KTAR. The last of February, Jones will be here on the coast and will broadcast probably from KFI. Then there's Gus Arnheim and his Hotel Cocomanut Grove orchestra and Paul Whiteman's famous Rhythm Boys who are sponsored for a series of Thursday night, at 9:00 broadcasts. Paul Whiteman himself may be enjoyed over the NBC on Tuesday nights at 5:00. Jack and Ethyl returned on January 24th at 9:30 (and every Saturday thereafter) with a 15-minute western historical drama which is certain to be sure-fire with the fans. Edna Wallace Hopper, world famous beauty at more than 60 years is telling women the priceless secret of her preservation in a series of semi-weekly broadcasts over the National Broadcasting Company every Wednesday and Friday between 12:00 and 12:15 p. m. You can see that your radio enjoyment has been carefully considered by this company.





Bernardino Molinari
... CBS ...

Columbia Broadcasting Company is equally generous with entertainment. On February 6th, radio will bring listeners a brand new thrill. For the first time in the history of Fashion, the Paris openings will be brought to the women of America almost the very moment the French couturiers present their spring showings in the style capital of the world. Across 3000 miles of sea from the salon of Capt. Edward Molyneux will come this program of paramount interest to all women. Don't fail to be close to your radio on February 6th at 7 p. m. Fleischmann's new series on Monday nights at 6:00 p. m. is a riot. It is called The Three Bakers and it will do you much good to listen in.

Bernardino Molinari, Italian Maestro, will be guest conductor of the New York Symphony orchestra in the weekly Sunday concerts. Dick Creedon of KHJ has gone into a rapid decline the last few weeks. He mumbles to himself and his eyes are haunted and his hands make vague gestures—all the result of the General Pershing series being broadcast over KHJ and the Don Lee-Columbia chain on Friday night between 7 and 8. Dick says: "To dramatize these historical accounts of General Pershing's now appearing in leading metropolitan newspapers became an acrobatic feat comparable to turning handsprings and juggling nine elephant eggs at the same time. In twelve minutes of dialogue it is necessary to compress the essence of seven chapters of these memoirs and to me fell the job of doing the dialogue." He has done a good job as you will see when you hear these intensely interesting programs. "Vignettes in Symphony," under the baton of Raymond Paige made its bow recently and was proclaimed one of the finest things on the air. This program is Ray Paige's pet idea and must be heard to be appreciated. Saturday nights at 8.



Going up and down the coast we find that Mac's Cow Hollow Symphony is causing quite a riot up at KFRC. Mac explains that all members of this organization have served in the army during war time except Cecil Wright and they are saving him for the next war. The gang is heard each morning at 7 and on The Blue Monday Jamboree. KPO has a program called "Aircyclopedia," which is reviving learning considerably in a large area. Some of the questions asked are devastating, some impossible, but many reasonable and sensible. If you thirst for know-

ledge, dial KPO on Thursday nights at 8:15. Lucy Day, who used to be at KTM is now singing charming songs over KTAB. The fascination of the tropics and the charm of the South seas is combined in a new program which KEX offers listeners on Tuesday evenings from 8:30 to 9:00. A Hawaiian stringed orchestra plays native music while the Beach Comber, obviously a philosopher, builds through the music, an atmosphere which is a mixture of the East and West.



Loyce Whiteman
... KFWB ...



And to return to Los Angeles; Rose Dirmann of KFI recently gave a concert program accompanied by the orchestra, which was broadcast from KFI to San Francisco over the National Broadcasting Company of the coast. Miss Dirmann, well-known lyric soprano, is a frequent contributor over the Anthony station and appeared in "The Elizabethan Frolic," presented by the Shakespeare Club in Pasadena, and several other productions. Frank Gage, known as "Boss Frank" wherever tubes are lighted sings old ranch songs and plays various instruments over KFVD every Sunday morning from 10 to 11. Joe Bjorndahl, baritone, who will be remembered for his programs with the Pacific Coast Club Rhythm Makers, is now singing over KGER Monday, Wednesday and Friday mornings at 9:35 on Polly's program. And finally, in case you haven't heard "Nip and Tuck," two-piano team over KFWB, do so tonight at 6:30 o'clock. As we go to press they are on every night except Sunday and Tuesday at 6:30 o'clock, but if you tune in and find a grand opera program being presented call up HOLLYWOOD 0315 and find out where they are and when, because you'll be delighted with their tickling piano playing and perfect team work.



On Tuesday night at 6:30 over KFWB you can hear Loyce Whiteman's easy-to-listen-to blues voice and Jerry Joyce's syncopated dance music. Miss Whiteman has considerably more to her voice than just the everyday "blues" quality and this theory is sub-

stantiated by the fact that she has been singing over radio for many years and her popularity is constantly on the increase. Dial 950 kilocycles on week days and 4:00 p. m. (Friday at 4:30) and hear Loyce and the orchestra.



Four Little Words—"Get your gun, Blue."—The four words were spoken in a back office of the KHJ studios and radio history was made. Radio listeners know those loveable nit-wit sleuths, Black and Blue. They hear them in "Folgeria" every Thursday night and in their newly launched daily series broadcast over the Don Lee Chain between 5:30 to 5:45 o'clock, every night except Saturdays and Sundays. Here is how the four words and what followed happened:

It was decided to add the two sleuths to the characters in "Folgeria." But who would take the roles? Harry Earnshaw, author of the continuity, was reading the lines out loud to members of the staff in hope that inspiration might burst forth and the right man be found for the job. He read—"Get Your Gun, Blue;" Charles Forsythe, staff technician, repeated the sentence. "You're nominated and elected," shouted Mr. Earnshaw. Forsythe's protests didn't matter. The next job was to find the Blue. It needed a high, squeaky, complaining voice.

At that point the meeting was interrupted by the intrusion of one Len Wright, staff drummer. "Hey! Charlie," he complained, "What'd you do with my drum sticks."

"You're Blue," shouted Harry Earnshaw. Wright didn't believe it and it took fast talking to convince him that he was Blue. But Blue he was and is.



KFVD is broadcasting an Hungarian program on Sunday nights at 9:15 to 10:15 which is one of the finest Sunday evening programs on the air. A feature of the hour is Joseph Diskay, former tenor of the Royal Opera at Budapest, Hungary, who is well known to both American and European music lovers. If you are dissatisfied with the Sunday evening programs of other stations listen to the Hungarian Broadcasting Company over KFVD. You will be greatly entertained.



Joseph Diskay
... KFVD ...

On Your Right, Ladies and Gentlemen

By DICK CREEDON . . . Publicity Director . . . KHJ

MY public! KHJ greets you. For 18 hours daily you may hear us—but, fortunately or otherwise, as the fact may be, you can't see us. So for the brief span of two pages, you find us caught by the all-seeing camera's eye, which, as you know, never lies: though some cameras do sort of make the best of a bad job. But not these cameras.

We of KHJ want you to know us better. To know us is to love us. We are just one

big happy family of one hundred human souls. (Crashing of sound effects.) And there being so many of us, and our space for pictures so limited, and the need for keeping our big happy family in that condition, it became necessary to invent some absolutely impartial means of deciding whose map, mug, face would appear on these pages and whose wouldn't. So it was decided to put the hundred photographs in a specially constructed derby and

let a pretty, not too heavily clothed and blindfolded maiden draw out a dozen. Being practically blind after putting this magazine to bed, Dorothy Hummel, your radio editor of your RADIO DOINGS was selected. To make doubly sure of fair play, she was further blindfolded with a striped necktie belonging to Kenneth Ormiston, who, not getting the idea immediately, wrapped the necktie around Miss Hummel's mouth. Is this a gag? Miss Hummel thought—not being able to shout.

So Dorothy drew and drew and drew and a survey of these pages should convince us that she is a master of drawing things (out of a hat.) Next month, we are assured this inspired draughtsman will draw a dozen more portraits of KHJ's staff while blindfolded and with one arm tied behind her back to make it more difficult.

Now, on our right, ladies and gentlemen, we find Charles W. Hamp, whose intermittent bounces from West to East to East to West (tell me when to stop) in-



Dr. Carl Omeron



Nell Larson



Charles W. Hamp

spired that poignant and dramatic utterance: "Clap Hands, Here Comes Charlie." C.W.H. is the highest paid entertainer on the air. He accumulates at the rate of \$150,000 per year. One hundred and Fifty thousand dollars can't be wrong. My uncle's mother-in-law says that she thinks Charlie is lou . . . no, my uncle said that . . . thinks he is terrible. But I notice that the old lady always listens to him and uses Strasska's tooth paste. In fact, I caught her eating a tube of the peppermint flavor once.

Hulda Dietz has been a soprano for a long time. The fact that she is still alive and still a soprano proves something. She is also a mother. A very sweet, plump one about a minute high. She perks her head around and pecks at the microphone like a little brown wren. When you look at Mrs. Dietz you always want to hug her. And sometimes you do.

Carl Omeron, the plenty tenor, is a dentist. Unquestionably one of the most distinguished of his profession. He turned down an offer to sing grand opera in Berlin in order to pursue his career of making mountains out of molar. That's a bum pun and full credit should go to Ted Osborne. Why can't he keep his puns to himself? Dr. Omeron pulled a tooth for me last month (he's a dentist of Nordic extraction.) While he worked, he discussed Chinese art, poetry, oil wells, sang a few snatches of song—and before I knew it, the tooth and I were both completely out.

Nell Larson! Our Nell has been organ grinding and piano patting at KHJ so long that she's part of the plant. She's included in all inventories and appraisals of the property. We have to pay taxes on her and no allowance made for depreciation. And Our Nell is one of those vulgarly healthy and happy mechanisms that never needs repairs. Her smile is like the sun coming out to stay. That smile goes places and does things—right to your heart.

Raymond Paige, musical director and pro-

gram manager. Yet still the most sincerely-liked and respected man of all of us who create assorted sounds for your especial edification. A tremendously vital personality with an overcharge of enthusiasm and good nature. He works from 8 a. m. to 10 p. m. every day at the studio. We haven't got the heart to check on how much work he does at home. Cool in emergencies; and radio is a series of them. He has youth, vision and



Hulda Dietz

amazing versatility. As far as KHJ is concerned, Raymond Paige is the golden-haired lad of all the personalities that wander down the ether lanes to you.

Elvia Allman is like nobody else that anybody ever knew, but would like to. In action before the microphone she is like a pailfull of energetic electric eels. She is the answer to perpetual motion. Her arms and legs and head and hips are constantly darting out in the most startling directions. She'll be hard to bury. Some unidentified force or, perhaps, a mechanical device must hold her together. This constant physical flux and seething is the external overflow of an vitalized and volatile temperament and intellect. Very sensitive, very subtle, very delightful, very talented, very many things. Elvias only happen once. Let's stuff her and give her to the Metropolitan Museum.

It is just too bad, ladies, that there isn't enough of Ted White to go around. Charles McGurk, the author, said of Ted in a story published in Liberty: "He is the most romantic singer I've ever heard."



Ray Paige

Ted, himself, thinks Bing Crosby is the best of the present army of tenors who sing the songs that are here today and gone tomorrow. But Mrs. Crosby hands the palm right back to Mr. White. Ted has a rare personality. It is in constant retreat and hard to catch up with. It evades you quietly and persistently. It achieves mystery and leaves a ripple of friendliness and fine



Elvia Allman

charm behind it. Ted is one of those tall, brunette Southern gentlemen. He has even been seen in a wide brimmed black felt bonnet. He would choke anybody who called him "Colonel" — but quietly, politely, without a show of anger or temperament.

Bob Swan is our chief announcer. His fan mail looks like a rainbow and smells like an old fashioned garden. The letters contain interesting things like pressed flowers, checks, tear stains and invitations to go places and eat things. It's just as well that Mrs. Swan always knows where Robert is. There are many places he might be. We are still looking for the guy that doesn't like Bob. If you know one, let us know. Mr. Swan's ambition is to be a radio announcer at KHJ. He is painlessly conscientious. Ashes on the floor make him unhappy. He is even tempered even when at the wheel of his stumbling wreck. He also has a Cadillac, a



Ted White

plump, pretty daughter, walnut trees in his back yard. After a 14-hour day, Bob looks like he was picking up walnuts from the lawn. He bends over so far he steps on his eyelashes. What a life! But he loves it.

Several months ago, Leigh Harline, some of the salt from Salt Lake, was about to become a father. In fact, he did. The daughter's name is Karen. I want to name a daughter Karen, too. You have all heard how a pin dropped in the Salt Lake Tabernacle echoes and echoes. Leigh is the boy that used to pick up the pin after the guide dropped it. He saved his pins and came to Los Angeles. His arrangements and compositions are creating a much prettier and louder echo than the pins did.

Lindsay MacHarrie is something to think about after you get through looking at him — which takes some girls I know a long time. The only thing he doesn't do around KHJ is sweep up. Now, maybe he does that, too. I have seen him sneaking into the studio after midnight. Yep! He's probably forgotten to sweep up. Not that our ex-assistant graduate manager of the University of Washington makes a mess of things. He is production manager, master of ceremonies, continuity writer, actor, singer, makes out programs, placates sponsors, announces and has a private secretary to answer his



Bob Swan



John P. Medbury

fan mail. MacHarrie is Scotch. When writing for pictures of him, don't be hurt if he sends you a little one. He's Scotch. And while the big pictures only cost fifty-cents a piece and he can easily afford to spend several hundred bucks a month on 'em, he won't do it. Not an admirable trait in our tall and handsome admirable boy.

John P. Medbury, famous columnist and California Melodies' master without ceremonies, is a radio's premiere gag man. When he comes into the studio, the microphone begins to chuckle. So do you. He and Ted Osborne, our humorist and philosopher, used to work side by side in New York. They must have signed an iron-clad agreement to pat each other on the back wearing only soft mittens. When their arms give out, we'll lend them ours.

Kenneth Niles is Montana's gift to California. He arrived by way of the University of California and, his old friend, Lindsay MacHarrie found him on the doorstep one morning all wrapped up in collegiate clothes and tied with a remarkable necktie. Here was a masterful and handsome youth looking for something to master. He found some ceremony on the Hallelujah Hour and mastered it completely. Since then, Kenny has



Ted Osborne

been your official master of ceremonies for that engaging bit of morning diversion. He is also the only Pacific Coast announcer heard regularly on a coast-to-coast hook-up. I refer to California Melodies. Every morning on the Hallelujah Hour he is heard over the entire Pacific Coast. This is very convenient as it costs a lot to telephone the University of Washington campus.



P. S. — Dorothy Lindsay MacHarrie Hummel has just, but even now telephoned to inquire in an, er, informal tone of voice, why this article passed over Ted Osborne and John P. Medbury so hurriedly, slightly. Miss Hummel feels that good, clean comedy is rare on the air and that its purveyors should be held in great honor. Well, the boys are clean. Perhaps, I'm a little bit jealous. You see, I was a gag writer once myself. I only wrote one gag and it was never printed; but it was a good one and marked me as a lad that shouldn't be over-looked. I have always been determined to get it in print. Furthermore, I illustrated the gag myself. I'm nothing if not versatile. So don't tell me I'm not versatile. I drew a little picture of the entrance to a maternity hospital and on the door printed: TERMS—C.O.D. This gag is for sale at very reasonable price considering there is only one of them left. Let me hear from you. Now take Medbury, for instance. Personally, I can take him or leave him alone. He is master of ceremonies



Leigh Harline

every week on California Melodies. I write the introduction for the program. The introductions are very fine. Nobody laughs at them. But the minute Medbury starts talking, the country starts laughing. I can't help but think that Medbury is responsible for this. But I forgive him because he is an unfortunate—more to be censored than pitied. You know, the nurse actually dropped him when he was a baby and he has never been picked up. Not even in Hollywood. There MUST be something wrong with him. At an early age he had spots behind his ears and his head seemed to be going round. He figured, therefore, that if he stood on his head, he'd spin. He did! He's been dizzy ever since. That explains a lot of things about California Medberries. Now Ted Osborne is a great guy and if he'd stop looking over my shoulder I'd tell you some nice things about him. I thought it would work!



Kenneth Niles

THE TECHNIQUE OF SOUND EFFECTS

By CHARLES FORSYTHE

Charles Forsythe, KHJ staff sound effect engineer, will conduct a monthly column in RADIO DOINGS. He will answer all questions concerning the perfection of sound effect devices which broadcasters submit to him. The object being to improve and develop this very important phase of modern radio productions.

There are vast inconsistencies in our programs daily as regards sound effects. The most glaring of these is the railway train. In this article, Mr. Forsythe will attempt to bring out clearly what he means by "glaring inconsistencies."

To begin with any of you who have ever heard Raymond Paige's orchestra, over the Don Lee Stations, playing the current hit from "Monte Carlo" entitled "Beyond the Blue Horizon," will undoubtedly recall the train effect augmenting this vocal number. We mention this as an example of perfect sound imitation. This effect is the outcome of years of study in attempting a perfect reproduction of a train. Mr. Forsythe continues:

"Have you ever known of a steam railway train coming to a regular stop at a station with the chug or exhaust continuing and said chug slowing down with the momentum of the train to a complete stop? This is the most conspicuous mistake in broadcasting a train effect. In the first place, a railway steam locomotive is very similar to your own automobile as regards stopping; for instance, if you were approaching a place where you expected to stop, the first thing you do is to throw out the clutch of your car. Now this we all know, disconnects the power from your transmitter or wheels, therefore, at the time you actually come to a stop your motor has been reduced to the idling speed. When coming to a stop the engineer closes the throttle of a steam locomotive, therefore immediately stopping the chug; this is done long before the train actually comes to a stop. When a train comes into a station there is nothing heard except the rumble of the weight of the wheels on the rails and slight exhaust of steam. The effect of arriving trains are invariably done exactly this way, the only exception to this rule is when a train is stopped on an incline from sheer lack of power to pull the hill. All railway men know that no matter where a railway station may be located, in building and grading such yard limit, several hundred feet are made level by the builders of the railway. This makes it possible, except for an extremely long freight train, for the average passenger train to coast into the station, regardless of how long a hill he may have climbed before arriving at the yard limits. The chug is the most important element as a train leaves the station.

"Most all train effects when done over the radio, for one reason or another, are at fault in this first part of the effect. In other words, most radio trains are in a hurry to get away. There should be an exhaust of steam that alternates between chugs; in the term of a musician, we would say we have our chugs down on a piece of paper as notes. The down beat in 4-4 time is the chug, and the second beat is for the steam exhaust, and this exhaust is more or less sustained and is not staccato like the chug. There is real labor behind the chug, and this hiss of steam should be almost sustained as a background for the chug; however, it should have an impulse so that it is standing out as the object of the chug—chug—hiss—chug—hiss. Of course, in a disappearing train this hiss of steam is a detail that isn't necessary much more than the first 15 or 20 chugs as the

LINES AND ANGLES

By TED OSBORNE

Some folks' idea o' gettin' behind th' government is to attack it from th' rear.

Th' wise man measures his words by th' weight; th' fool measures his by th' length.

Ambition an' hard work are all right in their place, but it don't do no good t' chase an express train on a handcar.

Mebbe th' reason women talk an' gossip more'n men is 'cause they have th' men t' talk an' gossip about.

Th' world seems t' be made up o' two kinds o' people—them as has more appetite than dinner, an' them as has more dinner than appetite.

Th' fellers who are always tryin' t' save trouble for themselves often find that they've saved more'n they can take care of.

Love is like an owl, an' gets along best at night. If every proposal o' marriage was made on a crowded street at noon, a lot o' divorce lawyers 'ud starve t' death.

A rollin' stone don't gather no moss; but most of 'em get so smooth y' can't get nothin' else on 'em neither.

Advice is somethin' like a rainstorm: th' easier it falls, th' deeper it sinks in.

There's two possible reasons why a man won't mind his own business. One is, he hasn't got any business, an' th' other is that he hasn't got any mind.

When a feller is climbin', he sometimes has t' step down a bit so's he can get a better foothold.



train would disappear sufficiently far from the hearer to make it unheard.

"And now for signals, practically all train rules are the same as regards whistling for stations, whistling for crossings, arriving at stations, and leaving stations. Probably everyone of us know the crossing whistle, which is too long and two short. But isn't it inconsistent to broadcast a real convincing effect of a train and then spoil the whole thing to give a crossing whistle for a train pulling out of a station?"

"In the next issue I will take up the subject of Correct Whistles and will also go into the subject of rail clicks, and various sounds which are used as the setting for interior railway coach scenes; at the same time answering all questions pertaining to sound recreation for the microphone."

CORRECTION!—Too late to catch an error on the index page we hasten to correct the listing of the National, Columbia and United Broadcasting Company programs. These schedules are for the month of FEBRUARY and NOT for January.

KJR's LYRIC TRIO



The Lyric Trio is one of the best known instrumental trios in the Pacific Northwest, having been heard over Northwest Broadcasting System stations KJR, KEX and KGA for more than a year.

All three members of the Trio are players in the Seattle Civic Orchestra. They are Hubert Graf, harpist; Sam Meyer, violinist, and Jan Naylor, 'cellist.

In addition to being popular with Pacific Northwest listeners, the Trio is well known to Alaska, Canada, Montana and Idaho listeners, their programs being broadcast by the three most powerful stations in the Northwest.

WITH THE COMMISSION

Zone Equalization Policy Adopted

After rejecting successively four proposals for effecting an equalization of radio broadcasting facilities among the Five Zones, and the States, the Federal Radio Commission has adopted a new policy, by means of which the long-talked-of equitable distribution is expected to be achieved.

While this order will undoubtedly bring about a general though gradual, reallocation of frequencies and power over the country, the discrepancies, with a few exceptions, are so slight between the over-quota and the under-quota areas that no great shake-up of broadcasters as in the Fall of 1928 is anticipated.

The plan, encompassed in a new General Order (No. 102) is a compromise of the four schemes formerly discarded and was proposed by Judge E. O. Sykes. It was adopted by a 4-to-1 vote, Commissioner Harold A. Lafount dissenting. Mr. Lafount was the only one of the Commissioners who had not offered an equalization proposal.

The order pointed out that the First and Second Zones, or the Eastern and Mid-Western areas, are under-quota, while the other three zones are over-quota. The States are about equally divided between those having more than their share of facilities and those having less.

Under the new General Order, a Zone or a State that has its quota of radio facilities or more will not be granted any further frequencies or additional power. Broadcasters in an under-quota State within an over-quota Zone, however, may apply for facilities of over-quota States in the same Zone; or a station owner in an over-quota State may seek facilities already assigned to another station within the State.

An applicant from an under-quota State may ask for facilities in use either in an over-quota State in the same Zone or an over-quota State in an over-quota Zone.

As the Order became effective upon its announcement, provision was made for all applications pending to be altered so as to conform with the new regulations.

Under some of the plans formerly proposed, the shake-up would have been more abrupt. The plan adopted provides for a more gradual distribution.

Illinois, New York, and California probably will be the greatest targets for under-quota States under this system as they lead the States in possessing more than their share of facilities. According to the 1930 census, under which the order will operate, Illinois is 10.28 units above quota, New York, 3.49, and California 2.68.

* * *

Prosecutor Prepares Radio Case

Warren Olney, Jr., formerly an Associate Justice of the California Supreme Court, is in Washington preparing the Government's prosecution case against the Radio Corporation of America and nine other defendant corporations, alleged to constitute the "radio trust." The suit was instituted several months ago in Wilmington, Del., by the Department of Justice.

Judge Olney has been employed by the Government as special prosecutor in the case. He is a graduate of the University of California and Harvard and holds an LL. D. from the former.

W8XAR Will Use 400,000 Watts

The highest powered broadcasting station in the world, W8XAR, at Pittsburgh, has been authorized to conduct experiments in the early morning hours to determine whether ultra-high powers can overcome fading, static and interference.

Power of 400,000 watts, twice that of any previous experimental station and eight times the maximum power now permitted any station in the United States for regular service, is to be used. The Westinghouse Electric and Manufacturing Company, which also operates the oldest broadcasting station, KDKA, will operate the new transmitter.

W8XAR will utilize the 980 kilocycle channel, now assigned KDKA, between 1 a. m. and 6 a. m. The power of the former will be stepped up gradually from 50,000 watts to 400,000 watts so as to ascertain the changes in reception achieved by each increase.

Monitors are to be operated at strategic locations throughout the United States to pick up the signals of the super-power station. Phonograph records and speeches will be put on the air during the experiments.

The highest power heretofore used in experiment was 200,000 watts and that was by the General Electric Company at Schenectady, N. Y. Technical improvements in transmitters are also expected to result from the W8XAR broadcasts.

* * *

Bill Seeks Educational Channels

The Federal Radio Commission would be instructed to set aside 15 per cent of the broadcasting facilities available to the United States for educational purposes exclusively under the terms of a bill introduced by Senator Fess (Republican), of Ohio, in the Senate. The measure was sponsored by the National Committee on Education by Radio and educators who gathered in Chicago recently.

The bill reads as follows:

"Not less than 15 per cent, reckoned with due weight to all factors determining effective service, of the radio broadcasting facilities which are or may be subject to the control of or allocation by the Federal Radio Commission, shall be reserved for educational broadcasting exclusively, and allocated when and if applications are made therefor, to educational agencies of the Federal or State governments and to educational institutions chartered by the United States or by the respective States or Territories."

Organized broadcasters of the country are opposed to the proposal on the belief that it would constitute a waste of facilities, while even some members of the Radio Commission have expressed dislike for the plan on the grounds that other agencies would be discriminated against.

Educators of the country are in complete accord with the proposed law and will give it their hearty support, the chairman of the National Committee on Education by Radio, Joy Elmer Morgan, stated.

* * *

Six-Months' License Period Delayed

To prevent the expiration of broadcasting license in the middle of a dull summer period, the Federal Radio Commission has postponed its new order providing for broadcasting licenses of 6 months instead of 90 days from January 31 until April 30th.

All broadcasters in good standing will have their licenses extended on January 31 for three months only as heretofore.

'ROUND THE DIAL

I am just in receipt of a letter from The National Broadcasting Company of Australia with the very latest information on their chain of stations and they are very anxious to have same printed in Western States call books. Here it is—"Listing of stations of Australian National Broadcasting Service of the Commonwealth Government of Australia for which programs are supplied by the Australian Broadcasting Co. Ltd.:

2FC—Sidney, New South Wales.....	451 M.	665 Kc.	5 K.W.
2BL—Sidney, New South Wales.....	350 M.	855 Kc.	5 K.W.
3LO—Melbourne, Victoria.....	375 M.	800 Kc.	5 K.W.
3AR—Melbourne, Victoria.....	484 M.	620 Kc.	5 K.W.
4QG—Brisbane, Queensland	394.5 M.	760 Kc.	5 K.W.
5CL—Adelaide, South Australia	412 M.	730 Kc.	5 K.W.
6WF—Perth, Western Australia	435 M.	690 Kc.	5 K.W.
7ZL—Hobart, Tasmania	516 M.	580 Kc.	3 K.W.

Eastern states' time in Australia, which covers Melbourne, Sidney, Hobart and Brisbane is comparable with Pacific time as follows: 12-noon Tuesday, Australia equals 6 p. m. Monday in Los Angeles.

Around 3 a. m. (P.S.T.) Tuesday, the time when Australian stations are received in the states, it is 9 p. m. Tuesday in Sidney. Adelaide is one-half hour later than their Australian Eastern States' time. 8:30 p. m. in Adelaide means 9 p. m. in Melbourne.

Perth time is two hours later than Melbourne. Most of the above stations broadcast as follows: 6 p. m. to 11 p. m. on weekdays and 11:30 on Saturdays. Sunday hours, 6 p. m. to 10 p. m.

—P. E. Donnelly, 901 Third Ave., Los Angeles, Calif.

* * *

Here is some information from Karl Halpern, 1435 Coney Island avenue, Brooklyn, N. Y. He said for me to pass it on with his compliments. KFPW, Fort Smith, Ark., 1340 Kc., 50 watts, is on the air 5 to 6:30 a. m. (P.S.T.) CFLC, Prescott, Ont., 1010 Kc., 50 watts, is on the air 4 to 4:30 p. m. (P.S.T.) Friday nights 4 to 7:30 and 4:45 to 5:45 o'clock every morning.

Sunday night I tuned in 550 Kc. at 8:50 o'clock and WGR, Buffalo, N. Y., 1000 watts, was coming in like a house afire. I have every station on 550 Kc. now except KFDY. Who knows anything about KFDY?

A Spanish station on about 1145 Kc. fooled me for a while until I finally heard his announcement one night—it is XEF, 105 watts, Oaxaca, Oax, Mexico. He is supposed to be on 1131 Kc. He is way down there, nearly to Central America, about 1,875 miles.

At 4:30 o'clock one morning I heard a time signal on 1270 Kc., as 7:30 (E.S.T.): this must have been WLBW, Oil City, Penna., 500 watts. Has anybody got him?

WKAV, Laconia, N. H., 1310 Kc., 100 watts, is on the air 1 to 3 a. m. (P.S.T.) on the third Sunday of each month.

—A. R. Van Compernelle, 618 North Baker, Santa Ana, Calif.

* * *

I wish to be permitted to submit more information to your interesting column. The station dope listed in it I find most useful, as without it I would not have been able to have received the log I have. Just recently I was the fortunate receiver of a list of Mexican broadcasters sent me by one of their stations, together with their respective assigned frequencies. The information was quite valuable, as I find that many of them have been changed by the Mexican government to different channels. One of them is XEI, Morelia, Mich., who is now on 688 Kc. On 750 Kc. we find XEQ, located in Juarez, Chih. It uses a power of 1000 watts. XEB, Mexico City, uses 1030 Kc. while on 1080 Kc. is located XEG, also in the same city. XETA is on 1140 Kc. and XEK, 101 watts, Mexico City, is on 1000 Kc. I have many more Mexican stations and their frequency and I will be only to glad to answer questions on them if you will drop me a line. Does anyone know of a Spanish speaking station on 825 Kc? By the way it's not XFC.

Say, what happened to our Tom Elliot? I don't see his articles in this column any more. The letters he wrote were quite full of good DX dope.

Has anyone logged KGMB in Honolulu, Hawaii? I picked them up one morning. They came in on 1330 Kc.

WGAR, 1450 Kc. is on at 5:30 a. m. every morning.

—Constantino Stefani, Rt. 1, Box 65, Merced, Calif.

Here are a few stations to get in the mornings: WJAG, 5 a. m. daily; WMBI, 5 a. m. daily except Sundays; KPOF, 5:45 a. m. daily; KOY, until 1 a. m. Sunday mornings.

On Sunday morning, March 1st, WDAG will broadcast a special DX program and souvenirs are to be given away.

—Stuart Walmsley, 1641 West 60th St., Los Angeles, Calif.

The following stations may be picked up after 4 a. m. Saturday:

WMT—Waterloo, Iowa, 600 Kc.

WSBT—South Bend, Indiana, 1230 Kc.

WSPD—Toledo, Ohio, 1340 Kc.

KSO—Clarinda, Iowa, 1380 Kc.

WKBF—Indianapolis, Indiana, 1400 Kc.

KLZ—Denver, 560 Kc.

Saturday at 10:20 p. m. I picked up WASH in Grand Rapids, Mich., 1270 Kc. In a letter of verification from WOOD, Grand Rapids, using the same frequency as WASH, WOOD asked me to spread the news in California that they put on the Owls Club program starting half an hour past mid-night, Central Time, and continuing into the early hours of Sunday morning. They are anxious to hear from DX fans in California and will reply.

In the early hours of Sunday morning I picked up a new station at Havana, CMBZ, broadcasting on a frequency of 1015 Kc. I also noted a new station in Mexico on KECA's wave length. I listened to at least 20 announcements, but could not make out the call letters or the name of the city at all well. The call letters sounded to me like XETC, and the name of the town sounded like "Ayarma," which would very likely be Guaymas. I can find no listing of such a station, and shall be glad to hear from any DX fans who picked up this station last Saturday night or early Sunday morning, and who can give me some definite information as to the call letters and location?

CKLC, Red Deer, Alberta, 840 Kc., can be picked up Sunday after 5:30 p. m. I also had KGMB at Honolulu Sunday from 1:07 a. m. to 2 a. m. Reception was particularly good. At 2 a. m., which would be 11:30 Saturday night in Honolulu, they announced a program from the Royal Hawaiian Hotel.

I have some information about two Mexican stations. The station on 1095 Kc. is evidently XEB at Mexico City. I received this information from Karl Halpern of the Newark News Radio Club. He tells me that this station does not announce at all clearly and it took the members a long time to find out that it was XEB. In fact, they had to write to the different stations in Mexico to find out as they could never make out the call letters. I have also identified the station on 1150 or 1155 Kc. This is XER. I heard the call letters distinctly last Friday night. The station is often on the air quite late, staying on until past eleven. It plays records and comes in very clearly. The call letters sound like ack-A-air, and unless one listens closely it sounds like k-k-i. I am not altogether sure where it is located, but think it is in Mexico City.

Karl Halpern, in a letter to me, gives information about KFPW, which is on the air daily except Sunday from 5 to 6:30 a. m. (P.S.T.), and WRAX, which is on the air Sunday from 6 a. m. (P.S.T.), on. It will doubtless be very hard to get these stations, but they will be worth trying for.

—A. E. Armstrong, 2021 Bonita Drive, Glendale, Calif.

* * *

Here are the Mexicans that I have received so far. Your readers will probably notice some corrections over my other list. Many changes have occurred and I am listing them the way they are now listed and not as I receive them: XFE, 632-250; XEN, 720-1000; XEQ, 750-1000; XEW', 780-5000; XFI, 820-1000; XEJ, 857-101; XFX, 860-500; XES, 890-500; XFF, 915-250; XED, 960-10,000; XEG, 970-2000; XEI, 1000-100; XEU, 1035-101; XETA, 1100-500 (received on 1150); XEH, 1130-101; XEA, 1200-101 (received on 1150.)

I am listing my Cuban stations: CMK, 2000 W.-730 Kc.; CMC, 500 W.-840 Kc.; CMX, 890 Kc.; CMHD, 920 Kc. and CMHA, 1150 Kc. (250 watts each); CMCQ, 955 Kc. and CMBC, 1070 Kc. (500 W. each.)

Some of my best catches are: (not listed above) WCAC, 250 W.; WCAO, 250 W.; WRBX, 250 W.; WMBR, 100 W. and KQU, 500 W.

I have received stations on 97 channels, CKX being the 97th.

Can anyone tell me when I may receive the following: WTAR, WBOQ, WCOC, WKAQ, CJGC, WDBJ, WDAE, KID, WCOA and WJAZ?

I will be interested to here from anyone who has received any of these stations (the ones with time given, also.) I have some schedules of Eastern stations that I will send to any requesting them. (Such stations as CKX, WCSH, WLWL, WAIU, WASH, etc.)

—Donald Teague, Jr., R.F.D. No. 2, Santa Paula, Calif.

January Prize DX Contest

THE January DX Contest, held in the early morning hours of Saturday, January 3rd, proved an exceedingly interesting one, even to the old timers in the DX game. More logs were submitted than in the previous contests conducted during evening hours, and many stations were listed which have never been reported by our readers before. The number of stations logged varied from 30 to 86. Some contestants counted the all-night locals, and some did not. Many fans took part who reside in localities where there are no all-night locals close by. In fact, the longest list submitted by Donald Teague, Jr., of Santa Paula, containing 86 stations, would be the prize winner, were it not for the fact that he is in an ideal location with no local interference. In judging the logs we try to take into consideration the difficulties under which the log was obtained. Thus, it is more of a feat for a fan in Beverly Hills to tune in 71 stations than for Donald to log 86.

The grand prize, a Tiffany-Tone radio, is awarded to W. H. Nicholson, 320 No. Oakhurst Drive, Beverly Hills, Calif. His letter is printed below. To conserve space we have omitted the names of selections heard and the time, grouping the stations into half hour periods as logged by Mr. Nicholson:

"I set the old alarm clock for 2:50 a. m. and hopped out of bed at that time to see what I could do about winning that Tiffany Tone radio you are offering in this contest.

"I have been up several mornings before, but this morning was about all you could ask for in DX reception. Stations were rolling in faster than I could log them. My list has 71 stations, and about 20 more got away. I either forgot to go back after them, or else could not get what they were playing.

"I used a Westinghouse Super WR6 model. I live on the second floor of a 20-unit apartment house, and have an aerial 200 feet long with 27 feet of lead-in. The ground lead is 23 feet long, connected to a copper tube buried six feet in the ground.

"Since October 1st I have logged 396 stations in the U. S., 22 in Canada, 10 in Mexico, 1 in Haiti, 1 in Porto Rico, 2 in South America, 8 in Japan, 2 in New Zealand, and 4 in Australia.

"I am not a member of the DX Club yet, but hope to be soon. Have been a constant reader of RADIO DOINGS for several years."

Stations logged on January 3, 1931. 3 to 6 a. m.:

3:00 to 3:30—4QG, 2YA, WJR, JOCK, JOIK, KGBZ, WWJ, KFKB, KJBS and WRHM.

3:30 to 4:00—KMMJ, WRC, WBEN, WGY, WOR, CKGW, WEAJ.

4:00 to 4:30—WLW, KFAB, KWKH, WLS, KFNF, KMA, KMBC, KRLD, WBT, WTIC, KTNT, KTAT.

4:30 to 5:00 KFPL, KFH, KSCJ, KWK, WHK, KGRS, KTSP, WLAC, WJAZ, KFEQ.

5:00 to 5:30—WMAQ, WAAW, WDAF, KFJR, WOI, WREC, WGN, WFAA, WCCO, WHAS, WKY, WDAY, WCFL, WOC-WHO, KDKA, KFKX, KSOO, KMOX.

5:30 to 6:00 KDYL, KGNF, WOW, WTAM, KOCW, KCRC, WOAI, WREN, KPOF, WSUN, WIBW, KOIL, WSPD, KTBS.

—W. H. Nicholson, 320 No. Oakhurst Drive, Beverly Hills, Calif.

Jack Whitley, 2245 Fulton street, San Diego, submitted

a log of 70 stations, including the locals. Arranged in order of frequency the list is as follows: KFJR, KMTR, WOW, WDAF, WOI, WAAW, WMAQ, KFEQ, WLW, WOR, KMMJ, WJR, JOBK, KFAB, WGY, WFAA, JOGK, WCCO, JOCK, WHAS, JOIK, JOFK, KWKH, W HB, JOAK, WENR, KFNF, WKY, WWJ, KFXF, KMA, WDAY, KJR, KFVD, KYW, KRLD, KTHS, KFKB, WJAG, WTAM, WBT, KMOX, KSOO, KMIC, KVOO, KTNT, KEX, KOB, WOAI, KGFJ, WREN, KTAT, KFOX, KIDO, KDYL, KFH, KFPL, KGIQ, KWK, KCRC, KSO, KOY, KOCW, KGRS, KFXD, KGNF, KSTP, WLAC, KFJF and WORD.

The long list sent in by Donald Teague, Jr., of Santa Paula, which the judges seriously considered for first prize (finally deciding that the difference between his locations and that of Mr. Nicholson justified a handicap), is as follows: KGBZ, 2YA, WJR, WWJ, WRHM, JOHK, JOIK, KFKB, KMMJ, KMTR, KCRC, KJBS, CL, JOAK, WJAY, WHK, KQU, WRC, WJAX, JOCK, WGY, WOR, WEAJ, WKRC, WEEL, WCAE, WSMK, CKGW, JOBK, WOB, WMT, WLW, KWKH, KMBC, WTIC, KGNF, KFPL, KFNF, KFEQ, WAAW, WAIU, KFAB, WCFL, KRLD, WSAI, KSCJ, WKBF, WDAY, WMAQ, KFOM, KGRS, WAPI, KMOX, KPRC, WKY, WCCO, KFRU, KDYL, KWK, WFAA, WFLA, WSUN, KFH, WLS, WOI, WDAF, WHAS, WCKY, WREN, WHO-WOC, WOW, WMBI, KGFJ, WIDX, KSOO, KYW, WKBW, KFIF, KGNO, KGIQ, WHB, KPOF, KSO, KRKA, KGKY.

Other contestants whose logs were worthy of honorable mention are: George Schmidt, P. E. Donnelly, Constantino Stefani, R. E. Doman, Almer L. Kelsey, R. J. Culpepper, E. Ellsworth Fearn, Anthony J. Biley, E. R. Fantz, Walter J. Meyer, Mrs. W. L. Pantier, Verne Broun, Mr. and Mrs. L. R. Cockerel, A. R. Van Compernelle, John Hinsdale, Robert D. Peterson, John Webb, Bruce Lyon, Stuart Walmsley, Frank Weston, Mrs. L. C. Traylor, P. E. Caldwell, R. B. Hall, William Kopp, Charles W. Rogers, Tom Hennion, G. W. Yoakam, Charles Mora, Roy Muse, Richard Farmer, William Caldwell, Hubert McAllister, P. Edmiston, D. W. Spriggs, Seymour Schulberg and A. L. Patton.

The Tiffany Tone radio awarded to Mr. Nicholson is a four-screen-grid set, with four-gang condenser, dynamic speaker, tone control, and unusually good DX capabilities. It is manufactured by the Herbert H. Horn Radio Manufacturing Company, of Los Angeles.

The picture serves to introduce John Webb, winner of our December Contest, shown with the Avalon midget radio which was given as first prize. Since receiving this set, Mr. Webb has written to say that he is very agreeably surprised by the performance of the midget, and has logged many DX stations with it.



'Round the World DX Club News



Our Club report for the past month shows a very decided increase in the various departments of the Club. Memberships are coming in and we are confident in saying that by the end of the current DX season, the Club Membership roll will contain approximately 60 to 75 Dyed-in-the-Wool DX fans from all parts of the world. New members initiated during the past month include such names well known in DX circles, some of them being George Schmidt, Stewart Walsmley, W. H. Nolan and Douglas A. Taylor. The latter being located in Mexico and from "inside information" has been badly bitten by the "Candy Bug." For more detailed information regarding Mr. Taylor's illness, please get in touch with our treasurer, George Viliani.

In a report given out at the last regular meeting by Mr. Viliani, the club treasurer, we note with great satisfaction that the club now has quite a substantial bank balance. This is, indeed, very good news for the club is self-supporting and every dollar banked means that we are on the road to success. It is to be remembered that this money is only to be used for such payment of accounts and bills incurred by the club in line with its regular business.

We have been delayed in giving out the final results of our Prize DX Contest held December 10th and at this time, are yet unable to give complete information concerning the winners. However, the judges have notified us that their report will be complete and ready for publication by the time the next issue of RADIO DOINGS goes to press. On account of the delay in the December contest, we were unable to hold a contest in January as we had planned.

At this time we are pleased to announce that we will hold our next Club Prize Contest Saturday morning, February 14th. The hours are from 12 midnight Friday night till 6 a. m. Saturday morning, February 14th. For the benefit of members living in other parts of the United States and the world—they are to "fish" during the above hours using their own standard local time. During our last contest, members living in the Middle West and on the East Coast became confused and did not know whether to use their local standard time or Pacific time. **EVERY CONTESTANT IS TO USE HIS OWN STANDARD LOCAL TIME.**

All logs are to be mailed to 314 E. 12th Street, Los Angeles, Calif., addressed to the Round the World DX Club Contest Committee and must reach the above address not later than February 21st. The names of the judges for the February contest will be given out at a later date. We hope that every member will send in a log for this contest, as we are gathering valuable information from the various logs received. Much of this information will be compiled and published.

At the last regular meeting, a trip to William MacDonalds at Chula Vista was discussed and it was found that about fifteen members wish to make the trip and spend an evening with Mac and get some real pointers on how to get DX. Mr. McDonald has won the title of being the World's DX Champion, a title to which there is no dispute. Mr. MacDonald has logged 1225 stations in approximately 65 countries and a glance over his files filled with verifications dispels any doubt that may come into any one's mind regarding Mr. MacDonald's achievements. Mr. MacDonald is an honorary member of our club and we are very proud to have him with us.

In response to our request, we received a telegram from Radio KGBU, located in Ketchikan, Alaska, stating that they

were putting on a DX program for us and that they would be pleased to receive reports from any members receiving this special broadcast. This broadcast took place on the morning of January 15th from 1 a. m. till 3 a. m. Many members stated that they tried for this program but met with no success. However, one of our new members, George Schmidt, reported that he received them and had written for a verification. We all are awaiting his verification with much interest.

We are negotiating with other distant stations for more of these DX programs and as we hear from them, we will immediately notify all members in order that they may try for them. We are very grateful for this co-operation from the various broadcasters and it is the wish of the executive committee that all members receiving any of these DX broadcasts, immediately communicate with the station putting the program on the air asking for a verification and expressing their thanks.

We have some real good news for members and prospective members living outside of Los Angeles County. At the regular meeting of the club, held Monday night, January 5th, a motion was made and passed to the effect that yearly dues for these members will be one dollar per year and for those living outside of the United States—no dues at all, BUT in both cases the entrance fee of one dollar still remains in force. This entrance fee is to be attached to all applications when applying for membership. With this new ruling in effect, we expect many distant DX fans who have probably held back feeling that they would not derive any benefit from the club, to send in their application upon receipt of this news. Only members living in Los Angeles County will have to pay the regular monthly dues of fifty cents per month. We feel that such members are able to attend meetings and thereby receive full benefit from these club meetings.

The next issue of RADIO DOINGS will contain a more detailed report on the club, DX news and notes and letters from various members. If any members have any questions they would like answered, just drop a note to the club and we shall try to publish these questions and answers in our section. On account of our space being limited, it may be impossible to answer and publish all letters, but we shall do the best we can.

The next regular club meeting will be held Monday night, February 2nd, at 7:30 o'clock at 314 East 12th street, Los Angeles. All DX fans are cordially invited to attend any of our meetings and we feel certain our meetings will prove of great interest to them. If any prospective member wishes any information regarding the club and its activities, please drop us a line and we shall be very glad to supply the desired information.

—Edward C. Roth, President.

* * *

During the past month I have found that: 1.—WMBI has only one late program and it is broadcast on Friday night between 10 and 11 o'clock (PST.) 2.—CKGW in Toronto, Ontario, Canada, is on 690 Kcys., has 5,000 watts, and is on the Red and Blue Networks of the National Broadcasting Company. It is the only Canadian station that has NBC programs. They broadcast on the following schedule: 6:45 a. m. 'til midnight or after every weekday, and on Sundays from 11 a. m. to 11:15 p. m. (EST.) 3. WCBD is on the air on Wednesdays in the evening and the hour of their broadcast is 9 to 10 p. m. (PST.) 4. WMAQ has a DX broadcast every Monday night from 8:45 to 9 o'clock (PST), and I find that there is much information given on it. In fact I have already logged a new station from their information. It is called "The Chicago Daily News DX Club" and I think that every DXer that will listen will surely gain from their broadcasts.

—George Schmidt, 1642 W. 82nd St., Los Angeles, Calif.

Directory of Western Stations

- KBPS**—Portland, Ore.—1420 Kc., 211.1 mtrs., 100 w.—Benson Polytechnic School.
- KDB**—Santa Barbara, Calif.—1500 Kc., 199.9 mtrs., 100 w.—Dwight Faulding, owner; Eddie Conners, Studio-Mgr.
- KDYL**—Salt Lake City, Utah—1290 Kc., 235.5 mtrs., 1000 w.—Intermountain Broadcasting Corp., S. S. Fox, Gen. Mgr.
- KECA**—Los Angeles, Calif.—1430 Kc., 209.7 mtrs., 1000 w.—Tel. WE 0331. Earl C. Anthony, Inc., Carl Haverlin, Mgr.
- KELW**—Burbank, Calif.—780 Kc., 384.4 mtrs., 500 w.—Union Bank & Trust Co. Tel. 1603 and GR 3193.
- KEX**—Portland, Ore.—1180 Kc., 254.1 mtrs., 5000 w.—Western Brdestg Co., William Norvell, Mgr. Tel. At 3111.
- KFBK**—Sacramento, Calif.—1310 Kc., 228.9 mtrs., 100 W.—James McClatchy Company.
- KFI**—Los Angeles, Calif.—640 Kc., 468.5 mtrs., 5000 w.—Earl C. Anthony, Inc., Carl Haverlin, Mgr. Tel. WE 0331.
- KFIO**—Spokane, Wash.—1120 Kc., 267.7 mtrs., 100 w.—Spokane Broadcasting Company.
- KFJI**—Astoria, Ore.—1370 Kc., 318.8 mtrs., 100 w.—KFJI Broadcasters, Inc.
- KFOX**—Long Beach, Calif.—1250 Kc., 239.9 mtrs., 1000 w.—Nichols & Warriner, Inc., H. G. Nichols, Mgr. Tel. 672-81.
- KFJR**—Portland, Ore.—1300 Kc., 230.6 mtrs., 500 w.—Ashley C. Dixon and Son.
- KFQU**—Holy City, Calif.—1420 Kc., 211.1 mtrs., 100 w.—W. E. Riker, owner.
- KFPY**—Spokane, Wash.—1340 Kc., 223.7 mtrs., 1000 w.—Symons Broadcasting Company.
- KFRC**—San Francisco, Calif.—610 Kc., 491.5 mtrs., 1000 w.—Don Lee, Inc., Harrison Holliday, Mgr. Tel. Prospect 0100.
- KFSD**—San Diego, Calif.—600 Kc., 499.7 mtrs., 1000 w.—Airfan Radio Corp., Leslie Adams, Mgr. Tel. Franklin 6353.
- KFSG**—Los Angeles, Calif.—1120 Kc., 267.7 mtrs., 500 w.—Echo Park Evan. Asso., Aimee McPherson, Pres. EX 1141.
- KFVD**—Culver City, Calif.—1000 Kc., 299.8 mtrs., 250 w.—Auburn-Fuller Co., J. W. Swallow, Mgr. Tel. Empire 1171.
- KFWB**—Hollywood, Calif.—950 Kc., 315.6 mtrs., 1000 w.—Warner Bros. Brdestg Corp., Gerald King, Mgr. HO 0315.
- KFWI**—San Francisco, Calif.—930 Kc., 322.4 mtrs., 500 w.—Radio Entertainment, Inc., J. B. Geisen, Mgr. Franklin 0200.
- KFXM**—San Bernardino Calif.—1210 Kc., 247.8 mtrs., 100 w.—J. C. and E. W. Lee, owners. Tel. 4761.
- KGAA**—Spokane, Wash.—1470 Kc., 204.1 mtrs., 5000 w.—Northwest Broadcasting System Inc. H. E. Studebaker, Mgr.
- KGB**—San Diego, Calif.—1330 Kc., 225.4 mtrs., 250 w.—Pickwick Broadcasting Corp. Tel. Franklin 61512.
- KGDM**—Stockton, Calif.—1100 Kc., 272.6 mtrs., 250 w.—E. F. Pepper.
- KGEF**—Los Angeles Calif.—1300 Kc., 230.6 mtrs., 1000 w.—Trinity Methodist Church, Bob Schuler, Pres. WE 8887.
- KGGC**—San Francisco, Calif.—1420 Kc., 211.1 mtrs., 100 w.—The Golden Gate Broadcasting Company.
- KGER**—Long Beach, Calif.—1360 Kc., 220.4 mtrs., 1000 w.—C. Merwyn Dohyns, owner; Bill Ray, Mgr. Tel. 632-75.
- KGfJ**—Los Angeles, Calif.—1200 Kc., 249.9 mtrs., 100 w.—Ben S. McGlashan, owner and manager. Tel. WE 7788.
- KGO**—San Francisco, Calif.—790 Kc., 379.5 mtrs., 7500 w.—National Brdestg. Co., Inc. Tel. Sutter 1920.
- KGW**—Portland, Oregon—620 Kc., 483.6 mtrs., 1000 w.—The Morning Oregonian, Paul R. Heitmyer, Mgr.
- KHJ**—Los Angeles, Calif.—900 Kc., 333.1 mtrs., 1000 w.—Don Lee, Inc., Lewis A. Weiss, Mgr. Tel. VAndyke 7111.
- KHQ**—Spokane, Wash.—590 Kc., 508.2 mtrs., 2000 w.—Lonis Wasmer, Inc. Tel. Main 5383.
- KJBS**—San Francisco, Calif.—1070 Kc., 280.2 mtrs., 100 w.—Julius Brunton and Sons Co. Tel. Ordway 4148.
- KJR**—Seattle, Wash.—970 Kc., 309.1 mtrs., 5000 w.—Northwest Brdestg Systems, Inc., T. P. Smart, Mgr. Main 2495.
- KLX**—Oakland, Calif.—880 Kc., 310.7 mtrs., 500 w.—The Tribune Publishing Company.
- KLS**—Oakland, Calif.—1440 Kc., 208.2 mtrs., 250 w.—Warner Brothers. Tel. Lakeside 6223.
- KMCS**—Hollywood, Calif.—1120 Kc., 267.7 mtrs., 500 w.—Dalton, Inc. Metropolitan Studios. Tel. VA 2466 (Temporary Phone.)
- KMO**—Tacoma, Wash.—1340 Kc., 223.1 mtrs., 500 w.—KMO, Inc., owner; Carl E. Hammond, Mgr. Main 4144.
- KMPC**—Beverly Hills, Calif.—710 Kc., 422.3 mtrs., 500 w.—Macmillan Petroleum Co., Glenn Rice, Mgr. CRestview 3101.
- KMTR**—Hollywood, Calif.—570 Kc., 526 mtrs., 500 w.—KMTR Radio Corp., V. G. Freitag, Mgr. Tel. Hollywood 3026.
- KNX**—Hollywood, Calif.—1050 Kc., 285.5 mtrs., 5000 w.—Western Broadcasting Co., Naylor Rogers, Mgr. Tel. HE 4101.
- KOA**—Denver, Colo.—830 Kc., 361.2 mtrs., 12,500 w.—General Electric Co., Freeman H. Talbot, Mgr. Tel. York 5090.
- KOAC**—Corvallis, Ore.—550 Kc., 545.1 mtrs., 1000 w.—Oregon State Agricultural College.
- KOIN**—Portland, Ore.—940 Kc., 319.0 mtrs., 1000 w.—KOIN Inc. Tel. Atwater 4151.
- KOL**—Seattle, Wash.—1270 Kc., 236.1 mtrs., 1000 watts.—Seattle Brdestg. Corp., L. F. Van Schuck, Mgr. Main 2312.
- KOMO**—Seattle, Wash.—920 Kc., 325.9 mtrs., 1000 w.—Fisher's Blend Sta., Inc., O. D. Fisher, Pres. Tel. Elliot 5809.
- KOOS**—Marshfield, Ore.—1370 Kc., 318.8 mtrs., 100 w.—H. H. Ranseth, Inc.
- KORE**—Eugene, Ore.—1420 Kc., 211.1 mtrs., 100 w.—Eugene Broadcasting Station.
- KPCB**—Seattle, Wash.—650 Kc., 461.3 mtrs., 100 watts.—West Coast Broadcasting Co. Tel. Main 7997.
- KPO**—San Francisco—680 Kc., 440.9 mtrs., 5000 w.—Hale Bros. and The Chronicle, J. W. Laughlin, Mgr. Garfield 8300.
- KPPC**—Pasadena, Calif.—1210 Kc., 247.8 mtrs., 50 w.—Pasadena Presbyterian Church. Tel. Terrace 1163.
- KPSN**—Pasadena, Calif.—1360 Kc., 220.4 mtrs., 1000 w.—Pasadena Star-News Publ. Co. Tel. Wakefield 3111.
- KQW**—San Jose, Calif.—1010 Kc., 296.6 mtrs., 500 w.—Calif. Farm Bureau, F. J. Hart, Mgr. Tel. Columbia 777.
- KRE**—Berkeley, Calif.—1370 Kc., 218.8 mtrs., 100 w.—First Congregational Church of Berkeley.
- KREG**—Santa Ana, Calif.—1500 Kc., 199.9 mtrs., 100 w.—Pacific-Western Broadcasting Federation, Ltd.
- KROW**—Oakland, Calif.—930 Kc., 322.4 mtrs., 1000 w.—Educational Brdestg. Corp. Tel. Glencort 6774.
- KSL**—Salt Lake City, Utah—1130 Kc., 265.3 mtrs., 5000 w.—Radio Serv. Corp. of Utah., E. Glade, Mgr. Wasatch 3901.
- KSMR**—Santa Maria, Calif.—1220 Kc., 249.9 mtrs., 100 w.—Santa Maria Valley R. R. Co.
- KTAB**—San Francisco, Calif.—560 Kc., 535.4 mtrs., 1000 w.—Associated Brdesters, Inc., Bob Roberts, Mgr. Garfield 4700.
- KTAR**—Phoenix, Arizona—620 Kc., 483.6 mtrs., 1000 w.—KTAR Brdestg Corp., Richard O. Lewis, Mgr.
- KTBI**—Los Angeles, Calif.—1300 Kc., 230.6 mtrs., 1000 w.—Bible Institute of L. A., Christian M. Books, Dir. MA 1641.
- KTBR**—Portland, Ore.—1300 Kc., 230.6 mtrs., 500 w.—M. E. Brown, owner.
- KTM**—Los Angeles, Calif.—780 Kc., 384.4 mtrs., 1000 w.—Pickwick Brdestg Corp., Glenhall Taylor, Mgr. Tel. EX 1341.
- KTW**—Seattle, Wash.—1370 Kc., 236.1 mtrs., 1000 w.—First Presbyterian Church of Seattle.
- KVI**—Tacoma, Wash.—760 Kc., 394.5 mtrs., 1000 w.—Puget Sound Brdestg Co., Inc., E. M. Dorenbecker. Brdwy 42111.
- KVOS**—Bellingham, Wash.—1200 Kc., 249.9 mtrs., 100 w.—KVOS, Inc. owner.
- KWG**—Stockton, Calif.—1200 Kc., 249.9 mtrs., 100 w.—Portable Wireless Telephone Company, Inc.
- KWJJ**—Portland, Ore.—1060 Kc., 282.8 mtrs., 500 w.
- KWSC**—Pullman Wash.—1220 Kc., 245.8 mtrs., 2000 w.—State College of Washington.
- KXA**—Seattle, Washington—570 Kc., 526.0 mtrs., 500 w.
- KXL**—Portland, Ore.—1420 Kc., 211.1 mtrs., 100 w.—KXL Broadcasters.
- KYA**—San Francisco, Calif.—1230 Kc., 243.8 mtrs., 1000 w.—Pac. Brdestg Corp., Lewis Lacey, Mgr. Prospect 3456.
- KZM**—Hayward, Calif.—1370 Kc., 218.8 mtrs., 100 w.—Universal Brdestg Co., Leon A. Fry, Mgr. Tel. 1185.

WHAT 1931 HOLDS FOR RADIO

WHAT does 1931 hold for radio?

A symposium of a score of the leading technicians, broadcasters, and industrial executives reveals a variety of opinions but a striking similarity of views regarding super-power stations, television, synchronization, and international broadcasts. Likewise, there is a virtual unanimity of beliefs that the year holds no startling inventions or revolutions in the field of radio.

Despite the adverse action of the Federal Radio Commission regarding the recommendations of its Chief Examiner that all clear channels be opened to 50,000 watt broadcasting stations, optimism for super-power was prevalent in the answers to the question of whether stations of beyond 50,000 watts would "be found practical and be licensed" next year.

C. W. Horn, chief engineer of the National Broadcasting Company, expressed the opinion that "what opposition there has been to the use of high power is gradually diminishing as the need for such powers is becoming recognized."

Another noted radio engineer, who would not permit his name to be used, expressed a contrary view: "Broadcasting powers in excess of 50,000 watts are somewhat doubtful of value. It is possible that stations located on either coast have a greater excuse for increased power beyond 50,000 watts in order to get greater inland coverage."

This achievement of super-power stations will not be effected in 1931 in the opinion of William S. Hedges, former president of the National Association of Broadcasters.

Mr. Hedges, on the other hand, stands alone in his belief that television will be placed on a commercial scale in 1931. The general view of those answering the query was that progress would be made in visual broadcasting experiments, but that the stage of the art where it could provide public entertainment is at least more than a year away.

Opinions on the value and the future of synchronized broadcasting were diverse.

Dr. A. Hoyt Taylor, chief of the Naval Research Laboratories, said that synchronization will give "better service in certain areas and worse in other areas," but that on the whole it will be "a distinct gain."

Said Mr. Horn: "I know that synchronization is practical, and I feel that during the next couple of years, it will be generally introduced, particularly in order to overcome specific conditions and difficulties that now exist."

Another dissenting view is offered by the anonymous engineer: "The cost of synchronization, which is sufficiently precise to be satisfactory, is so high that I doubt very much whether the plan will have a marked effect during 1931. The experiments will be carried out by the larger broadcasters and will be of technical interest only."

Former Radio Commissioner H. A. Bellows agrees by saying: "I do not believe that synchronization is out of the experimental stage."

Morris Metcalf, president of the Radio Manufacturers' Association; W. J. Damm, president of the National Association of Broadcasters, and Frank Russell, vice-president of the National Broadcasting Company, hold that synchronization "will prove feasible and be generally adopted."

Others assert either that its value will be limited or that it will not become popular.

Interesting comments are offered on the moot problem of static. Dr. Taylor emphatically answers "No" to the ques-

tion: "Are there any indications that static will be entirely conquered?" while Mr. Horn has this to say: "Static is no longer a big problem, except in the Southern States in the summertime, and even here the use of higher powers has greatly improved conditions. Static has been conquered, but in such a manner that it cannot be adapted to broadcasting."

A general agreement, with a few reservations, was found that international broadcasts would increase in popularity during the new year.

The "growth of international program service" will probably be "the most important development in broadcasting in 1931," Mr. Bellows believes.

A. H. Kirchhofer, managing editor of the Buffalo Evening News, which operates WBEN, offers a reservation "when the quality improves," and Mr. Russell says, "to a limited extent."

There are also diverse views on what the greatest technical contribution to radio this year was, while a number recall nothing outstanding. The synchronization plan as developed by the National Broadcasting Company poles the majority of the scattered votes.

Dr. Taylor, one of the world experts on short waves, designates the important contribution thus: "Increased frequency stability permitting (a) more stations to be operated, (b) synchronization, (c) better photoradio."

"The greatest technical contribution to radio in 1930 was synchronization of stations," asserts Mr. Horn. "This development is of basic importance and will influence all future developments in radio."

Martin P. Rice, manager of broadcasting for the General Electric Company, suggests: "Recognition of the principle that high power is necessary for reliable reception as evidenced by the large number of applicants for 50,000 watt transmitters. While there have been numerous refinements of existing methods, there is nothing outstanding."

Regarding the best solution for the congestion of broadcasting stations, most of those interviewed would place the responsibility on the Radio Commission to thin out the undesirable stations, but no one suggested a standard for judging stations.

Mr. Bellows, who knows what the Radio Commissioners are up against, frankly says: "I don't believe there is any."

"A systematic plan of licensing about fifty stations to operate on cleared channels and high power," suggests Mr. Rice. "Other stations would be limited to low power and would serve as local stations."

The age-old "survival of the fittest" is offered as the best solution by Mr. Horn.

Concerning electrical transcriptions, there is also a divided opinion as to whether they will likely increase in use by broadcasters.

Mr. Bellows says: "It looks to me as if electrical transcriptions have passed the peak of their popularity and are going down hill."

The age is too insistent upon speed and first-hand entertainment to put up with transcriptions to any extent, Mr. Horn believes. Mr. Rice dissents, saying: "Electrical transcriptions, when perfected, offer the opportunity to select the best of many performances for reproduction in broadcasting and should therefore eventually furnish one of the highest types of programs."

SCHEDULE OF DX STATIONS

EVENING HOURS ONLY

PACIFIC STANDARD TIME

Call Letters	Location	Kc.	W.L.	Power	Sun.	Mon.	Tues.	Wed.	Thurs.	Fri.	Sat.
KLZ	Denver, Colo.....	560	535.4	1000	4- 9:30	4-10:00	4-11:00	4-11:00	4-11:00	4-11:00	4-11:00
WOW	Omaha, Neb.....	590	508.2	1000	4-10:00	4-10:00	4-10:00	4-10:00	4-10:00	4-10:00	4-10:00
WDAF	Kansas City, Mo.....	610	491.5	1000	4- 9:00	4-10:30	4-10:30	4-10:30	4-10:30	4-10:30	4-10:30
WFLA-WSUN	Clearwater, Fla.....	620	483	2500	4- 8:30	4- 9:00	4- 9:00	4- 9:00	4- 9:00	4- 9:00	4- 9:00
WSM	Nashville, Tenn.....	650	461.3	5000	4- 8:00	4- 9:00	4- 9:00	4- 9:00	4- 9:00	4- 9:00	4- 9:00
WMAQ	Chicago, Ill.....	670	447.5	5000	4-10:00	4-12:00	4-12:00	4-12:00	4-12:00	4-12:00	4-12:00
WOR	Newark, N. J.....	710	422.3	5000	4- 9:00	4- 9:00	4- 9:00	4- 9:00	4- 9:00	4- 9:00	4- 9:00
WGN	Chicago, Ill.....	720	416.4	25KW	4-10:30	4-10:30	4-10:30	4-10:30	4-10:30	4-10:30	4-12:15
WSB	Atlanta, Ga.....	740	405.4	5000	4- 9:00	4- 9:00	4- 9:00	4- 9:00	4- 9:00	4- 9:00	4- 9:00
WJR	Detroit, Mich.....	750	400	5000	4-11:00	4-11:00	4-11:00	4-11:00	4-11:00	4-11:00	4-12:00
KFAB	Lincoln, Neb.....	770	389.4	5000	8- 9:00	8- 9:15	8- 9:15	8- 9:15	8- 9:15	8- 9:15	8- 9:15
WBBM	Chicago, Ill.....	770	389.4	25KW	4- 8:00	4- 8:00	4- 8:00	4- 8:00	4- 8:00	4- 8:00	4- 8:00
WBAP	Fort Worth, Texas.....	800	374.8	10KW	7:30-10	7-10:00	4- 7:00	6:30-10	4- 7:00	7-10:00	4- 7:00
WCCO	Minneapolis, Minn.....	810	370.2	7500	4- 9:00	4-10:00	4-10:00	4-10:00	4-10:00	4-10:00	4-11:00
WHAS	Louisville, Ky.....	820	365.6	10KW	4- 8:30	4- 9:00	4- 9:00	4- 9:00	4- 9:00	4- 9:00	4- 9:00
KOA	Denver, Colo.....	830	361.2	12KW	4-11:00	4-11:00	4-11:00	4-11:00	4-11:00	4-12:00	4-12:00
WENR	Chicago, Ill.....	870	345	50KW	6-12:00	6:30-11	6:30-11	6:30-11	6:30-11	6:30-11	10-12:00
WLS	Chicago, Ill.....	870	345	5000	4- 6:00	5- 6:30	5- 6:30	5- 6:30	5- 6:30	5- 6:30	5-10:00
WCFL	Chicago, Ill.....	970	309.1	1500	4- 6:45	4- 6:45	4- 6:45	4- 6:45	4- 6:45	4- 6:45	4- 6:45
WBZ	Springfield, Mass.....	990	302.8	15KW	4- 8:15	4- 9:00	4- 8:15	4- 9:00	4- 9:00	4- 9:00	4- 8:30
WOC-WHO	Davenport, Des Moines.....	1000	299.8	5000	4- 9:00	4-10:00	4-10:00	4-12:30	4-10:00	4-10:00	4-10:00
KYW	Chicago, Ill.....	1020	294	10KW	4-10:00	4-11:00	4-11:00	4-11:00	4-11:00	4-11:00	4-12:00
KTHS	Hot Springs, Ark.....	1040	288.3	10KW	7- 8:30	8- 9:00	8- 9:00	7-10:00	7:30-10	7-10:00	8- 9:00
WBAL	Baltimore, Md.....	1060	283	10KW	Off at 4	Off at 4	4- 9:00	Off at 4	4- 9:00	Off at 4	4- 9:00
WTIC	Hartford, Conn.....	1060	282.8	50KW	4- 9:00	4- 9:00	silent	4- 9:00	silent	4- 9:00	silent
WTAM	Cleveland, Ohio.....	1070	280.2	50KW	4-10:00	4-10:00	4-10:00	4-10:00	4-10:00	4-10:00	4-10:00
WBT	Charlotte, N. C.....	1080	277.6	5000	4- 9:00	4- 9:00	4- 9:00	4- 9:00	4- 9:00	4- 9:00	4- 9:00
WRVA	Richmond, Va.....	1110	270.1	5000	4- 8:30	4-10:00	4-10:00	4-10:00	4- 9:00	4- 9:00	4- 9:00
KSL	Salt Lake City.....	1130	265.3	5000	4-12:00	4-12:00	4-12:00	4-12:00	4-12:00	4-12:00	4-12:00
WAPI	Birmingham, Ala.....	1140	263	5000	5:15-9	6- 8:00	6- 9:00	4-11:00	4-11:00	4- 6:00	4- 6:00
WHAM	Rochester, N. Y.....	1150	260.7	5000	4- 8:30	4- 8:45	4- 8:00	4- 8:00	4- 9:00	4- 8:00	4- 8:30
WOWO	Fort Wayne, Ind.....	1160	258.5	10KW	4- 8:00	4- 8:00	4- 8:00	4- 9:00	4- 8:00	4- 8:35	4- 6:00
WOAI	San Antonio, Texas.....	1190	252	50KW	4- 8:30	4- 9:15	4- 9:15	4- 9:15	4- 9:15	4- 9:15	4- 9:15
KDYL	Salt Lake City.....	1290	232.6	1000	4-12:00	4-12:00	4-12:00	4-12:00	4-12:00	4-12:00	4-12:00
KWK	St. Louis, Mo.....	1350	222.1	1000	4- 9:02	4-11:00	4-11:00	4-11:00	4-11:00	4-11:00	4-11:30
KSTP	Saint Paul, Minn.....	1460	205.4	10KW	4-10:00	4-11:00	4-11:00	4-11:00	4-11:00	4-11:00	4-11:00
WCKY	Covington, Ky.....	1490	201.6	5000	4- 6:00	4- 8:00	4- 8:00	4- 8:00	4- 8:00	4- 8:00	4- 8:00

Government Monitoring Service

The efforts of the federal government to provide better reception of broadcast programs and other radio transmissions are revealed in the annual report of W. D. Terrell, Chief of the Commerce Department's Radio Division.

One of the chief causes for poor reception, the report points out, is the tendency of radio transmitting stations to deviate from their assigned wave length or frequency. In order that a close check may be kept on all stations and that those deviating may be immediately advised, a widespread system of monitoring has been inaugurated by the Radio Division. This monitoring service consists of a primary station located at Grand Island, Nebraska, and nine secondary stations in various parts of the country. In addition to these stations the division maintains a fleet of six test cars for supplementary work. The site of the primary station was chosen as near the geographical center of the country as possible, it is pointed out. The location is practically free from all man-made electrical disturbances.

The apparatus installed in the various monitoring stations is the most complete of any in the world. During the last fiscal year tests conducted at the primary station at Grand

Island resulted in reception of transmissions from numerous foreign countries, including those as far separated as Russia and Argentina. A recent program transmitted from Tokyo was picked up at this primary station and made available for broadcasting in the United States.

One of the functions of the Radio Division is to inspect radio apparatus on all vessels leaving American ports. During the year under review the division made 11,334 inspections of this type as compared with 10,715 during the preceding year. Radio installations on airplanes are also subject to inspection by this division. Last year, the report shows, 215 planes, exclusive of those of the Army and Navy, were equipped with radio, as compared with less than 100 for the year 1928-29. In order that life may be properly safeguarded, Mr. Terrell points out, the radio apparatus on passenger-carrying planes should receive the same attention as is now given to the radio equipment on merchant vessels.

All licensed radio stations must be operated by licensed operators, the report explains. The duty of examining and certifying to the qualifications of these operators is one of the functions of the Radio Division. During the last fiscal year approximately 10,000 operators were examined and in addition more than 6,000 licenses were renewed.

SHORT-WAVE PAGE

The National SW-5

We have had many requests from short wave fans for the circuit diagram of the National SW-5. It is given below, with data and notes on this highly efficient receiver. Engineered from the ground up for short-wave one-dial humless AC reception, the SW-5 has a sensitivity comparable with that of many multi-stage RF broadcast sets.

The tuned radio frequency stage ahead of the regenerative detector is necessary if anything like worthwhile short wave reception is desired. The added sensitivity and selectivity of this stage brings the whispers up to audibility and permits spreading them out in the congested bands to avoid interference. In the design, every precaution has been taken to prevent energy losses in the radio frequency circuits, to provide smooth control of regeneration and in tuning, to eliminate all hum so that headphones may be used when desired.

Amateurs have found that the SW-5 provides reception on their bands superior to that which they have heretofore obtained with their home-constructed and more or less hazy-wire layouts. These receivers have been adopted for certain phases of commercial short wave work, which is strong evidence of their efficiency.

Referring to the diagram, C1 and C2 are special 270-degree tuning condensers of 90 micro-microfarads capacity. C3 is a midget trimming condenser. It will be noted that this trimmer is not connected in the tuned circuit connected to the grid of the RF tube, but rather is in a separate coupled circuit, which permits of more exact ganging of the two tuning condensers for one-dial control. C4 is a 100 micro-microfarad mica condenser. C5 is a small coupling condenser. C6 1 mfd paper condenser. C7 is 100 to 250 mmfd. mica condenser. C8 is .5 mfd. paper condenser. C9, C10, C11 and C12 are .01 mfd mica condensers. P1, S1, T1 represent the windings of the antenna input transformer. P2, S2, T2 are the windings of the detector transformer. R1 is a 350 ohm bias resistor. R2 is a 5 megohm grid leak. R3 is the audio bias resistor, 2000 ohms. R4 is the second audio bias resistor of 1000 ohms. R5 is the regeneration and volume control potentiometer, 50,000 ohms. R7, R8 and R9 represent the voltage divider, having a total resistance of 12,000 ohms, tapped at 3100 and 4100 ohms from the negative end.

A careful study of the diagram and the values of the units will enable many experimenters, fans and amateurs to improve their shortwave reception.

The antenna and inter-stage plug-in coils are identical.

The range of the four sets of coils is as follows: Black, 14 to 25 meters, 21.2 to 12.0 megacycles. Red, 23 to 41 meters, 13 to 7.33 megacycles. White, 38 to 70 meters, 7.9 to 4.3 megacycles. Green, 65 to 115 meters, 4.7 to 2.61 megacycles.

The first broadcast stations to locate when learning to operate the set are the group in the 48-49 meter band. W9XF (Chicago), W9XAA (Chicago), W2XE and W3XAL (New York), W3XAU (Philadelphia), W8XK (Pittsburgh), and other Americans will be readily found near 90 on the dial when using the white coils. Messed in with them are HKT, Bogota, Columbia, and HRB in Honduras. The foreigners may be searched for after the operator is familiar with the operation of the set. VK2ME in Australia comes in at about 85 on the red coil, and G5SW, London, near 55 on the red. However, in going after the foreigners, one must take into consideration the time difference throughout the world and try at the proper hours.

There's a little more to bringing in those elusive foreign short-wave broadcasters than merely sitting down to your receiver, flipping the filament switch and carelessly twiddling the dials. Yet, many a broadcast listener has been led to believe that it's just as easy as listening to a local program. Not only must the operator of a short-wave receiver exercise greater care in tuning in to a distant station, but he must use his judgment as to when to listen. All the tuning on earth won't bring in a station if it doesn't happen to be on the air. Matters become more complicated in this respect because of the difference of time between the location of the receiver and the transmitter. There's no doubt about it, a fellow's got to use his head when tuning in on the short waves. The list of shortwave broadcasters in the New 1931 RADIO DOINGS CALL BOOK is the most authoritative and latest which it has been possible to compile.

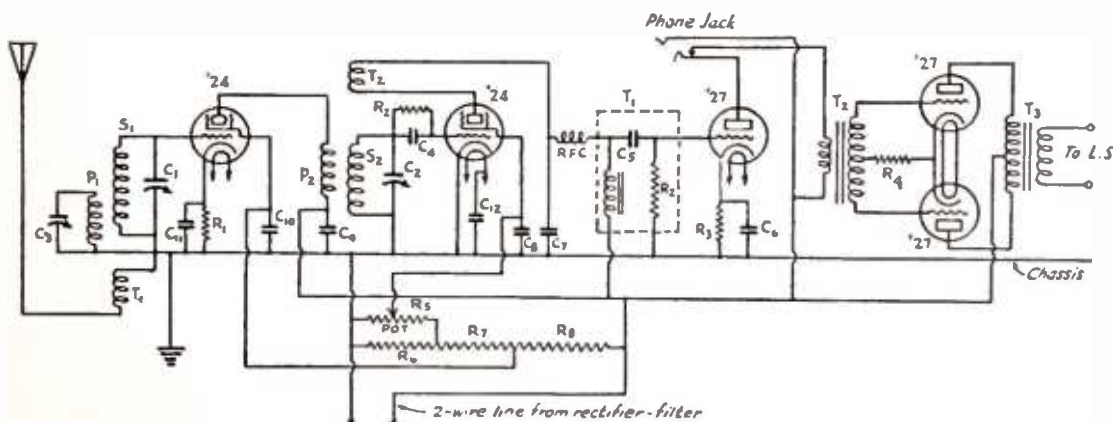
Skip distance effects vary with wavelength, time of day, and the condition of the atmosphere. Therefore, divide your listening schedule something like this. 14 to about 20 meters, best from daybreak to about 2:00 p. m., and then fades out as darkness approaches: it is useless to listen below 20 meters after dark. 20 to 35 meters from 1:00 p. m. to about ten in the evening. 35 to 75 meters, best between twilight and daybreak.

* * *

"Ham" Call Book Issued

A call book listing the 19,000 "ham" radio stations has just been issued by the Radio Division of the Department of Commerce. The amateur stations are listed alphabetically by states and cities and call signals.

The book also contains a list of the technical and training school stations, experimental stations, relay broadcasting stations, visual broadcasting stations, the International Morse Code and conventional signals, a list of abbreviations used in radio communications, and a list of the nine radio districts with the headquarters of each. Copies of this book may be obtained directly from the Radio Division, Department of Commerce, Washington, D. C.



Schematic diagram of National short wave receiver SW-5. A fine tube all-electric single control set engineered for the highest efficiency in short wave reception

Classified Directory of Western Programs

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- KFSD**—11:00-11:30 PM. Douglas Night Club. (Sun., Mon., Tues., Fri.)
 10:00-10:30 P.M. Kennedy's Cafe. (Mon., Tues.)
 11:00-11:30 P.M. Kennedy's Cafe. (Thurs., Fri. and Sat.)
 11:30-12:00 P.M. Kennedy's Cafe. (Wed.)
 9:45 P.M. Kennedy's Cafe. (Sun.)
 12:30-1:00 P.M. Douglas Nite Club. (Wed.)
- KFI**—10:30-11:00 P.M. Mort Kibbe's Dance Orch. (Sun.)
 11:00-12:00 P.M. Hotel St. Francis Dance Orch. (Ex. Sat. and Sun.)
- KHJ**—9:30-10:00 P.M. Val Valente and his Roof Garden Orch. (Sun.)
 10:10-11:00 P.M. Vai Valente and his Roof Garden Orch. (Sun.)
 10:05-10:20 P.M. Earl Burtnett's Biltmore Hotel Dance Orch. (Mon.)
 10:20-11:00 P.M. Anson Weeks Orch. (Mon.)
 11:00-12:00 P.M. Earl Burtnett's Orch. (Mon.)
 10:05-12:00 P.M. Earl Burtnett's Biltmore Orch. (Nightly Ex. Sun. and Mon.)
- KFWB**—10:00-12:00 P.M. Gus Arnheim and his Ambassador Hotel Orch. (Nightly, Tues. 10:30 P.M.)
- KFVD**—11:00-12:00 P.M. Louie Armstrong and his Cotton Club Orch. (Ex. Sun.)
- KGFJ**—6:00-7:00 P.M. Glenn Edmund's Orch.
 9:30-10:00 P.M. Mosby's Blue Serenaders. (Ex. Sun.)
 12:00- 1:00 P.M. Mosby's Blue Serenaders. (Ex. Sun.)
 11:00-12:00 P.M. Lou Hilliker's Rainbow Gardens Orch. (Ex. Sun.)
 10:30-11:00 P.M. Mosby's Blue Serenaders. (Sun.)
 12:30- 1:00 P.M. Mosby's Blue Serenaders. (Sun.)
- KFOV**—10:00-11:00 P.M. Silver Slipper Orch. (Ex. Sun.)
 11:00-12:00 P.M. Majestic Ballroom.
 12:00- 1:00 P.M. Silver Slipper Orch.
 4:30- 5:00 P.M. Len Nash's Orch.
- KGER**—10:00 P.M. Brick English and Orch. (Nightly Ex. Mon.)
 5:15 P.M. Studio Dance Orch. (Ex. Sun.)
- KGB**—8:30-9:00 P.M. Gus Arnheim and Coconut Orch. (Thurs.)
 6:00- 7:00 P.M. Paul Kendall's Little Club Orch. (Ex. Sun. and Mon.)
 9:00- 9:30 P.M. Jimmy Bittick's Townhouse Orch. (Fri.)
 9:00-10:00 P.M. Jimmy Bittick's Townhouse Orch. (Sat.)
- NORTHERN CALIFORNIA**
- KTAB**—8:30-9:00 P.M. Gus Arnheim's Coconut Grove Orch. (Thurs.)
 9:30-10:30 P.M. Jimmy Bittick's Orch. (Fri.)
 9:00- 9:30 P.M. Jimmy Bittick's Orch. (Sat.)
- KFRC**—9:30-11:00 P.M. Val Valente's Roof Garden Orch. (Sun.)
 7:00- 7:30 P.M. Guy Lombardo's Orch. (Mon.)
 10:20-11:00 P.M. Anson Weeks and His Hotel Mark Hopkins' Orch. (Mon., Thurs., Fri. and Sat.)
 11:00-12:00 P.M. Earl Burtnett's Biltmore Orch. (Mon., Wed., Sat.)
 12:00- 1:00 A.M. Dance Music. (Ex. Sun.)
 10:20-11:00 P.M. Val Valente's Roof Garden Orch. (Tues.)
- KPO**—10:00-11:00 P.M. Jess Stafford's Dance Orch. (Ex. Sun.)
- KYA**—11:00-12:00 P.M. Dance music.
- KFWI**—11:00-12:00 P.M. Bagdad Ballroom Orch. (Mon.)
 11:00-12:00 P.M. Joe Wright's Cinderella Orch. (Wed. and Fri.)
 11:30-12:00 P.M. Joe Wright's Cinderella Orch. (Tues. Thurs. and Sat.)
- NORTHWEST**
- KHQ**—11:00-12:00 P.M. Best Steppers' Dance. (Ex. Sun.)
- KGW**—11:00-12:00 P.M. Dwight Johnson's Orch. (Ex. Sun.)
- KVI**—9:00-11:00 P.M. Val Valente and his Roof Garden Orch. (Sun.)
 11:00-12:00 P.M. Mike Doty's Orch. from the Oakes. (Sun.)
 10:30-11:00 P.M. Anson Weeks and his Orch. (Mon.)
 11:00-12:00 P.M. Val Valente and his Orch. (Mon., Thurs. and Fri.)
 10:00-12:00 P.M. Val Valente and his Roof Garden Orch. (Tues.)
 10:00-11:00 P.M. Mike Doty's Orch. (Wed. and Sat.)
 11:00-12:00 P.M. Earl Burtnett's Orch. (Wed. and Sat.)
 12:00- 1:30 P.M. Mike Doty's Orch. (Wed. and Sat.)
 10:30 P.M. Earl Burtnett's Orch. (Thurs.)
- KMO**—9:00-10:00 P.M. Leon Mills and Orch. (Sat.)
- KOMO**—11:00-12:00 P.M. Olympic Hotel Varsity Vagabonds. (Ex. Sun., Thurs. and Sat.)
- KJR**—11:00-12:00 P.M. Vic Meyer's Club Orch. (Ex. Sun. & Mon.)
- KFN**—11:30-12:00 P.M. Vic Meyer's Club Victor Orch. (Ex. Sun. & Mon.)
- MOUNTAIN STATES**
- KOL**—10:15-12:30 P.M. Varied Dance Orchestras.
- KGA**—11:00-12:00 P.M. Vic Meyer's Club Victor. (Ex. Sun and Mon.)
- KLZ**—10:00-11:00 P.M. Dance Orch. (Ex. Sun.)
- KOA**—1:00-2:00 P.M. Hotel Cosmopolitan Orch. (Mon.)
 8:45- 9:00 P.M. Horace Heidt and Orch. (Mon.)
 7:30- 8:00 P.M. Lucky Strike Orch. (Tues.)
- KOA**—3:30-3:45 P.M. Horace Heidt and Orch. (Wed.)
 5:00-6:00 P.M. Rudy Vallee and Orch. (Thurs.)
 7:00-8:00 P.M. Lucky Strike Orch. (Thurs. and Sat.)
 8:45-9:00 P.M. Duke Ellington and Cotton Club Orch. (Thurs.)
 9:30-10:00 P.M. Horace Heidt and Orch. (Thurs.)
 9:00-9:30 P.M. Rudy Vallee and Orch. (Sat.)
 5:30-6:00 P.M. Anson Week's and Orch. (Tues.)
- KSL**—5:30-6:00 P.M. Anson Week's and Orch. (Tues.)
 5:00-6:00 P.M. Rudy Vallee and Orch. (Thurs.)
 7:00-8:00 P.M. Lucky Strike Orch. (Thurs. and Sat.)
- KDYI**—7:00- 7:30 P.M. Guy Lombardo and Orch. (Mon.)
 9:45-10:15 P.M. Dick Forscutt and his Orch. (Mon., Tues.)
 8:00- 8:30 P.M. Guy Lombardo and Orch. (Wed.)

FAVORITE FEATURES AND WHERE THEY ARE

Amos 'n' Andy (nightly Ex. Sun.)—8:00 PM over KGO
KHQ KOMO KGW KECA KFSD. (Thurs. at 8:30.)
Beverly Hill Billies (nightly Ex. Mon.)—10 PM over KMPG
Bert Butterworth and his Optimistic Donuts (Fri.)—8:00 PM over KXY.
Black and Blue (nightly Ex. Sun.)—5:30 PM over KHJ.
Cecil and Sally in Person (nightly Ex. Sun.)—6:15 PM over KPO.
Cecil and Sally (nightly Ex. Sun.)—6:45 PM over KFWB.
Charles W. Hamp (Tues. and Thurs.)—10:30 AM over KHJ.
Charles W. Hamp (Sun.)—8:30 PM over KHQ KGW
KFBK KMJ KFRC KOIN KVI KOL KFPY.
Charles W. Hamp (Tues.)—7:15 PM over same stations as above.
Charles W. Hamp (Fri.)—7:30 PM over same stations as above.
Charlie Wellman (Mon., Wed., and Fri.)—10:00 AM over KGO KHQ KOMO KGW KFI KECA KFSD KTAR
Discount Standard McWebster (Thurs.)—8:30 PM over KXY.
"Jo and Vi" (Tues.)—7:00 PM over KHJ KFRC KOL KDYL KLZ
KTM Ranch Band (nightly)—9:00 PM over KTM.
Shell Happy Time (daily Ex. Sun.)—8:00 AM over KHQ KOMO KGW KPO KFI KSL
Tom Brenneman presents "Tom and Wash." (Daily)—12:00 noon over KFWB.
Tom Murray and his Hollywood Hill Billies (daily Ex. Sun.)—7:00 AM over KMTR.

Dance Orchestras

- National Broadcasting Co.**—5:00-5:30 P.M. Rudy Vallee and Orchestra. (Thurs.) KGO, KHQ, KOMO, KGW, KECA, KTAR.
 5:00 P.M.—Paul Whiteman's Painters. (Tues.) KGO KHQ KOMO KGW KFSD KTAR.
 6:00-6:30 P.M. Maytag Orchestra. (Mon.) KGO, KHQ, KOMO, KGW, KECA.
 7:00-7:30 P.M. Lucky Strike Orchestra. (Thurs. and Sat.) KFSD, KGO, KTAR, KHQ, KOMO, KGW, KFI
 7:30-8:00 P.M. Lucky Strike Orchestra. (Tues.) KGO, KHQ, KOMO, KGW, KFSD, KECA.
 9:00-9:30 P.M. Gus Arnheim and Coconut Grove Orch. (Thurs.) KGO, KHQ, KOMO, KGW, KFI, KFSD, KTAB, KOA.
 9:00-9:30 P.M. Anson Weeks and Orch. (Tues.) KGO, KHQ, KOMO, KGW, KECA, KFSD, KTAR.
 11:00-12:00 P.M. Laughlin-Harris Hotel St. Francis Orch. (Ex. Sun.) KGO, KGW, KFI.
- Columbia Broadcasting Co.**—7:00-7:30 P.M. Guy Lombardo's Orchestra. (Mon.) KLZ, KDYL, KVI, KOL, KOIN, KHJ, KFRC.
 8:00-8:30 P.M. Guy Lombardo's Orch. (Wed.) KLZ.
 8:00-9:00 P.M. Ben Bernie and Bobbie Meeker and their orchestras. (Thurs.) KLZ.
 1:45 P.M. Rhythm Ramblers. (Fri.) KLZ, KVI.
- United Broadcasting Co.**—9:00-9:30 P.M. Jimmie Bittick's Townhouse Orch. (Fri.) KFWB-KTM (alternating), KTAB, KORE, KXL, KMED, KXA, KVOS.
 9:00-10:00 P.M. Jimmie Bittick's Townhouse Orchestra. (Sat.) Same stations.
 8:30-9:00 P.M. Gus Arnheim and his Ambassador Orch. (Thurs.) Same stations.
- SOUTHERN CALIFORNIA**
- KMTR**—10:30-11:00 P.M. Deacon Brown and His Peacemakers.
 10:30 P.M. Abe Lyman's Roosevelt Hotel. (Nightly Ex. Sun.)
 9:30 P.M. Abe Lyman's Orch. (Mon. only.)

Symphony, Concert and Salon Orchestras

- Columbia Broadcasting Co.**—12:00 Noon, New York Philharmonic Symphony Concert with Arturo Toscanini, conductor. KLZ KDYL KVI KFPY KHJ KFRC. (Sunday.)
5:30 PM. Toscha Seidel and Concert Orch. (Wed.) KLZ
1:00 PM. Curtis Institute of Music. (Fri.) KLZ, KVI KFPY KHJ KFRC.
8:30 PM. Romanelli and His King Edward Orchestra (Fri.) KLZ.
- National Broadcasting Co.**—5:00 PM. Sunday Concert. KGO.
8:00 AM. Symphony Concert. KGO KOMO KGW KECA KFSD.
6:15 PM. Atwater Kent concert. (Sun.) KHQ KOMO KGW KGO KFI.
1:00 PM. Concert Jewels. (Sun.) KGO.
2:30 PM. NBC Matinee. (Mon.) KGO KGW KECA.
8:00 PM. Rudy Seiger's Shell Symphonists. (Mon.) KGW KHQ KOMO.
5:00 PM. Brazilian - American program. (Tues.) KGO KHQ KOMO KGW KECA.
10:00 PM. National Concert Orches. (Tues.) KGW KOA.
7:30 PM. Standard Symphony Hour with Los Angeles Philharmonic Orchestra alternating with the San Francisco Symphony Orch. (Thurs.) KGO KHQ KOMO KGW KFI.
5:00 PM. Cities Service Concert Orch. (Fri.) KGO KHQ KOMO KGW KECA.
6:00 PM. General Electric Orch., Walter Damrosch, director. (Sat.) KGO KHQ KOMO KGW KFI KFSD KTAR.
6:00 PM. McKesson Musical Magazine. (Tues.) KGO KHQ KOMO KGW KECA KFSD KTAR.
1:00 PM. Eastman School Symphony Orch. (Wed.) KGO KECA KTAR.
- United Broadcasting Co.**—7:00 PM. Concert Orchestra. (Daily Ex. Fri.) UBC affiliated stations.
- KMTR**—8:00 PM. Salon Orch. (Thurs.)
KFSD—4:00 PM. Sunday Concert NBC.
5:15 PM. East San Diego Little Symphony.
5:00 PM. Dinner Concert. (Tues.)
6:30 PM. Concert Ensemble. (Wed.)
6:00 PM. General Electric Orch. NBC. (Sat.)
- KFI**—9:50 AM. Pryor Moore's Orch. and Soloists. (Sun.)
10:00 PM. Slumber Hour. (Sun.)
8:00 PM. Shell Symphonists. (Mon.)
9:30 PM. Concert Orch. (Nightly Ex. Sun., Thurs., at 10.)
7:30 PM. Los Angeles Philharmonic and San Francisco Symphony Orch. alternating. (Thurs.)
6:00 PM. General Electric Concert Orch. (Sat.)
- KTM**—10:00 PM. Concert Orch. (Sun.)
KHJ—9:00 AM. Sunday Morning Concert. (Sun.)
6:30 PM. Detroit Symphony Orch. (Sun.)
12:00 Noon. N. Y. Philharmonic Symphony Orch. (Sun.)
8:45 PM. Concert Orch. (Sun.)
11:15 AM. Columbia Little Symphony Orch.
11:30 AM. Columbia Salon Orch. (Sat.)
12:00 Noon. Biltmore Concert Orch. (Daily Ex. Saturday and Sunday.)
- KFWB**—9:00 PM. Liboribus Hauptmann's Orch. UBC. (Sun.)
2:30 PM. Salon Orch. (Mon.)
6:30 PM. Salon Orch. (Wed.)
8:30 PM. KFWB Salon Orch. and Soloist. (Wed.)
8:00 PM. Concert Orch. (Fri.)
8:00 PM. KFWB Concert Orch. and Soloists. (Sat.)
- KNX**—9:00 PM. Calman Luboviski and Claire Mellonino. (Sun. and Thurs.)
9:00 PM. Calman Luboviski Violin Choir. (Mon.)
8:30 PM. 18 Piece Orch. and Quartet. (Wed.)
7:30 PM. Pacific Concert Orch. (Thurs.)
12:00 Noon. KNX Ensemble. (Sat.)
- KGFJ**—12:00 Noon. KGFJ Concert Orch. (Sun.)
11:00 AM. KGFJ Little Symphony.
1:00 PM. Concert Ensemble. (Sun.)
8:30 PM. KGFJ Salon Orch. with Allan Fairchild. (Daily Ex. Sun.)
- KGER**—4:00 PM. Symphony Concert. (Sun.)
KGB—12:00-1:00 PM. Luncheon Lyrics. (Ex. Sun.)
5:15-6:00 PM. Dinner Diversities. (Ex. Mon., Thurs. and Sun.)
11:00-12:00 Noon. With the Masters. (Sun.)
6:30-7:00 PM. Bits from the Classics. (Sun.)
- KECA**—12:00 Noon. Luncheon Concert. (Daily Ex. Sun.)
2:30 PM. NBC Matinee. (Mon.)
9:30 PM. KECA String Ensemble. (Mon.)
1:00 PM. Eastman Symphony Orch. (Wed.)
9:00 PM. KECA String Ensemble. (Sat.)
2:00 PM. The Vagabonds NBC. (Sat.)
- NORTHERN CALIFORNIA**
- KTAB**—7:00 PM. UBC Concert Orch. (Daily Ex. Tues.)
3:30 PM. KTAB Melody Masters. (Mon and Sat.)
KFRC—9:00 AM. "Home, Sweet Home Concert." (Sun.)
12:00 Noon. N. Y. Philharmonic Orch. (Sun.)
6:30 PM. Detroit Symphony Orch.
8:45 PM. Miniature Concert. (Sun.)
6:00 PM. Miniature Concert. (Tues.)
8:00 PM. Cadillac La Salle Concert Orch. (Tues.)
8 PM. Symphony Orch. (Sat.)
8:30 PM. Rudy Seiger's Fairmont Hotel Concert Orch. (Sunday.)
8:30 PM. Romanelli and His King Edward Orch. (Fri.)
10:00 PM. KPO Salon Orch. (Sun.)
- KPO**—8:00 PM. Shell Symphonists. (Mon.)
9:00 PM. Philadelphia Symphony Orch. (Tues.)
9:30 PM. Packard Concert Orch. from KFI. (Nightly Ex. Sun., Mon. and Thurs.)
3:00 PM. KPO Salon Orch. (Tues., Wed., Fri.)
4:00 PM. KPO Salon Orch. (Sat.)
9 PM. Cy Trobbe's Concert Orch. (Sat.)
- NORTHWESTERN STATES**
- KGW**—4:00 PM. Sunday Concert NBC. (Sun.)
8:00 PM. Shell Symphonists. (Mon.)
(See NBC for other features.)
12:00 Noon. Luncheon concert. (Wed.)
- KOMO**—4:00 PM. Sunday Concert NBC. (Sun.)
8:15 PM. Shell Symphonists. (Mon.)
10:30 PM. Concert Orch. (Sun.)
1:00 PM. Concert Orch. on Monday.
3:15-6:00 PM. Concert Orch. on Tuesday.
1:00 PM. Concert Orch. and 5 PM. on Wednesday.
12:15 and 2 PM. Concert Orch. on Thursday.
2:00 PM. Concert Orch. (Fri.)
2:00 and 6:00 PM. General Electric Orch. NBC. (Sat.)
- KJR**—8:00 PM. Damski's Imperial Grand Orch. (Sun.)
4:00 PM. Concert Ensemble. (Mon.)
9:00 PM. Damski's Wood-Wind Ensemble. (Tues.)
8:00 PM. Northwest Salon Orch. (Thurs.)
9:00 PM. Henry Damski's Neapolitans. (Wed.)
- KEA**—8:00 PM. Henri Damski's Orch. (Sun.)
4:00 PM. Concert Ensemble. (Mon.)
9:15 PM. Damski's Wood-Wind Ensemble. (Tues.)
9:00 PM. Henri Damski's Ensemble. (Wed.)
8:00 PM. Northwest Salon Orch. (Thurs.)
- KGA**—8:00 PM. Henri Damski's Orch. (Sun.)
4:00 PM. Concert Ensemble. (Mon.)
9:00 PM. Damski's Ensemble. (Tues.)
9:00 PM. Damski's Neapolitan Orch. (Wed.)
8:00 PM. Northwest Salon Orch. (Thurs.)
- KVI**—12:00 Noon N. Y. Philharmonic Orchestra. (Sun.)
(See CBS Program for other features.)
- KOL**—6:30 PM. Detroit Symphony Concert. (See CBS program.)
- KSL**—6:00 PM. General Electric Program with Walter Damrosch. (Saturday.)
- KOA**—9:00 AM. Luncheon Ensemble. (Ex. Fri.)
- KDYL**—(See Columbia Broadcasting Co.)

Sport Talks, Athletic Events

- National Broadcasting Co.**—5:00 PM. Bobby Jones Golf Talks. (Every Wednesday.) KHQ KOMO KECA KFSD KTAR.
- KMTR**—7:45 PM. Mrs. Jack James Sport Review. (Sat.)
- KFSD**—7:30 PM. NBC, Grantland Rice. (Wed. only)
- KFWB**—7:30 PM. R. W. Shirey's Sport Talks. (Mon.)
9:30 PM. Olympic Auditorium Event. (Tues. only.)
- KNX**—9:45 PM. Broadcasting Main Events from Hollywood Legion Stadium. (Fri.)
- KGER**—9:30 PM. Olympic Auditorium event. (Tues. only.)
9:30 PM. Wilmington Bowl. (Wed. only.)
- KECA**—7:30 PM. NBC, Grantland Rice Interview. (Wed. only.)
- KFRC**—6:00 PM. Bobs, Noted Sports Authority. (Thurs. only.)
6:45 PM. Pat Frayne's Sports Talk. (Friday only.)
- KPO**—6:00 PM. Tennis Talk by Geo. Hudson.
- KHQ**—5:00 PM. Bobby Jones Chat.
7:30 PM. NBC, Grantland Rice's "Topnotchers." (Wed. only.)
5:15 PM. Sport News. (Mon. only.)
- KGW**—7:30 PM. Grantland Rice's Sport Program, NBC. (Wed. only.)
5:00 PM. Bobby Jones Chat. (Wed.)
- KOMO**—7:30 PM. Grantland Rice's Topnotchers. (Wed.)
- KMO**—9:00 PM. Wrestling Match from Greenwich Coliseum. (Tues. only.)
- KJR**—5:00 PM. Ken Stuart's Sport Talk. (Daily.)
- KEA**—5:00 PM. Ken Stuart's Sport Talk.
- KGA**—5:00 PM. Ken Stuart's Sport Talk.
9:30 PM. Wrestling Bouts.
- KOA**—7:30 PM. NBC, Grantland Rice Sport Talk. (Wed. only.)
- KSL**—7:30 PM. Grantland Rice Sportologues. (Wed. only.)
5 PM. Bobby Jones Sport Chat. (Wed.)

Travelogues and Book Reviews

- National Broadcasting Co.**—9:45 PM. The Reader's Guide. (Sun.) KGO.
- Columbia Broadcasting Co.**—4:45 PM. The Early Bookworm. KFRC KLZ. (Tues.)
- KFI**—2:30 PM. Winnie Fields Moore, the Nomad Novelist. (Mon.)
2:15 PM. The Nomad Novelist. (Wed.)
3:00 PM. Los Angeles Public Library Book Reviews. (Monday.)
12:30 PM. "Seeing Southern California." (Tues. and Fri.)
- KHJ**—3:45 PM. Los Angeles Public Library Book Review. (Wed.)
5:00 PM. "Seeing Southern California." (Tues. & Fri.)
3:30 PM. Margaret Macdonald. (Wed.)
- KNA**—5:00 PM. Travelogue. (Daily Ex. Sun.)
1:30 PM. Eddie Albright reading late fiction.
- KGER**—3:00 PM. Seeing Southern California. (Tues. & Fri.)
- KECA**—7:00 PM. Winnie Fields Moore, Nomad Novelist. (Thurs.)
- KTAB**—4:30 PM. Books and Drama with Samuel B. Dickson. (Sunday.)
- KFRC**—3:15 PM. The Observer About New Books, Monroe Upton. (Wed.)
- KVI**—4:45 PM. The Early Bookworm. (Tues.)
- KOL**—4:45 PM. The Early Bookworm. (Tues.)
- KLZ**—4:45 PM. The Early Bookworm. (Tues.)

DON'T FAIL TO SEE PAGE 28 FOR STATION IDENTIFICATION OF WESTERN STATIONS!

Educational Features

(National and International Events)

- National Broadcasting Co.**—5:15 PM. 15 Minutes in the Nation's capital. KGO, KHQ, KOMO, KECA, KFSD. (Mon.)
8:15 PM. This Amazing Universe. KGO. (Mon.)
3:25 PM. John B. Kennedy Talk. KGO, KGW. (Wed.)
4:15 PM. Science Talk. KGO, KOMO, KPO, KECA, KFSD, KTAR. (Wed.)
4:45 PM. Back of the News in Washington. KGO, KOMO, KECA, KFSD.
11:00 AM. Standard School Broadcast. KGO, KHQ, KOMO, KGW, KPO, KFI, KFSD. (Thurs.)
1:30 PM. Pacific Coast School of the Air. KGO, KHQ, KOMO, KGW, KECA, KFSD, KTAR. (Mon & Wed.)
12:15 PM. Western Farm and Home Hour. KGO, KHQ, KOMO, KGW, KECA, KFSD, KSL, KTAR. (Ex. Sat. and Sun.)
- Columbia Broadcasting Co.**—5:00 PM. The World's Business. KLZ, KFRC. (Sun.)
11:30 AM. Columbia School of the Air. (Ex. Sat.) KFRC, KHJ, KVI, KLZ, KDYL.
2:45 PM. Columbia Educational Series. KLZ, KOL, KFRC. (Sat.)
4:15 PM. Columbia Educational Series. KFRC. (Sat.)
6:30 PM. National Radio Forum. KFRC, KOL, KLZ.
- KFSD**—5:15 PM. Fifteen Minutes in the Nation's Capital. (Mon. only.)
4:45 PM. Back of the News in Washington, NBC. (Wed. only.) See NBC list.
- KFI**—3:00 PM. Better America Federation Speaker. (Thurs. only.)
11:00 AM. Standard School Broadcast. (Thurs. only.) (See NBC list.)
- KMPC**—3:00 PM. USC Lectures. (Mon. and Wed.)
9:00 PM. U. S. C. Lectures. (Mon. and Wed.)
5:00 PM. Norbert Savoy, author, lecturer, etc. (Sun.)
- KHI**—1:30 PM. The Times Forum. (Daily.)
1:00 PM. University of the West. (Fri. only.)
3:15 PM. Dr. Walter Hertzog's School Program. (Fri. only.)
3:45 PM. Council of International Relations. (Fri. only.)
4:15 PM. Romance of American Industry. (Sat. only.)
6:30 PM. National Radio Forum. (Sat. only.)
11:30 AM. American School of the Air. (Ex. Sun., Thurs., and Sat.)
- KNA**—7:15 PM. Dr. Mars Baumgardt Talking of "Popular Science." (Wed. only.)
3:30 PM. Federation of Women's Clubs. (Fri. only.)
- KGFJ**—8:30 AM. Dr. Wiseman's Talk.
- KECA**—12:00 PM. National Youth Conference, NBC. (Sun. only.)
11:30 AM. California Federation of Women's Clubs. (Mon. only.)
4:15 PM. James G. McDonald. "The World Today." (Mon. only.)
5:15 PM. Fifteen Minutes in the Nation's Capital. (Mon. only.)
4:15 PM. Science National Research Council. (Wed.)
4:15 PM. Laws That Safeguard Society, NBC. (Sat. only.)
- KGB**—9:30 AM. Ninth Dist. Parent-Teachers Association. (Tues.)
- NORTHERN CALIFORNIA**
KTAB—6:00 PM. The Voice of Psychology. (Sun.)
4:00 PM. Short Story Course, Samuel B. Dickson. (Mon. only.)
12:30 PM. Latin-American Program. (Daily.)
- KFRC**—5:00 PM. The World's Business. (Sun. only.)
11:30 AM. American School of the Air. (Ex. Sat.)
3:30 PM. Something About Everything. (Mon. and Wed. only.)
4:00 PM. Current Events, H. V. Kaltenborn, CBS. (Mon. only.)
4:15 PM. The Political Situation in Washington Tonight. (Tues. only.)
4:15 PM. Columbia Educational Features. (Sat. only.)
2:45 PM. Columbia Educational Features. (Sat. only.)
6:30 PM. National Radio Forum from Washington. (Sat. only.)
- KPO**—4:15 PM. California State Chamber of Commerce Talk. (Mon. only.)
5:15 PM. Federal Business Association Talk. (Tues. only.)
- KFWI**—7:00 PM. Judge Matthew Brady on Crime Prevention. (Mon. only.)
- KQW**—6:10 PM. Farm Topic Discussions. (Ex. Sat.)
- KYA**—10:15 AM. R. B. Gorton Educational Talk. (Sun. only.)
8:00 PM. Judge Mathew Brady. (Fri. only.)
8:00 PM. Mr. Brunson, Psycho-Analyst.
- NORTHWESTERN STATES**
KHQ—12:00 PM. National Youth Conference, NBC. (Sun. only.)
5:00 PM. In the Nation's Capital. (Mon. only.)
- KGW**—12:00 Noon. National Youth Conference, NBC. (Sun. only.)
11:00 AM. Standard School Broadcast, NBC. (Thurs. only.)
- KVI**—9:00 AM. Jewish Art Program, CBS. (Sun. only.)
9:30 AM. London Broadcasts, CBS. (Sun.)
10:30 AM. Conclave of the Nations, CBS. (Sun.)
11:30 AM. American School of the Air. (Daily Ex. Sun.)
4:00 PM. Current Events, CBS. (Mon. only.)
4:15 PM. The Political Situation in Washington Tonight. (Tues. only.)
- KOMO**—12:00 PM. National Youth Conference, NBC. (Sun. only.)
4:00 PM. Laws That Safeguard Society, NBC. (Tues. only.)
11:00 AM. Standard Schol Broadcast. (Thurs. only.)
- MOUNTAIN STATES**
KOA—10:00 AM. National Oratorio Society. (Sun. only.)
12:00 PM. National Youth Conference. (Sun. only.)
1:00 PM. Dr. S. Parkes Cadman from New York. (Sun. only.)
4:15 PM. The World Today. (Mon. only.)
- KSL**—12:15 PM. National Youth Conference. (Sun. only.)
- KDVI**—9:30 AM. CBS London Broadcasts. (Sun. only.)
5:00 PM. The World's Business. (Sun. only.)
12:45 PM. Columbia Educational Features, CBS. (Fri. only.)
- Health Talks and Exercises**
SOUTHERN CALIFORNIA (Daily Ex. Where Indicated)
KHJ—10:30 AM. Pure Food Talk.
KTM—1:45 PM. The Health Man. (Daily Ex. Sun.)
5:30 PM. Dr. H. Edward Myers "Care of the Teeth." (Monday only.)
- KNA**—8:30 AM. Clinic of the Air. (Tues.)
9:15 AM. Golden Rule Health Service Program. (Mon. & Thurs.)
- KFVD**—Health Talk and Records
- KGFJ**—8:30 AM. Dr. Wiseman's Health Talk.
- KFOX**—1:00 PM. Dr. Clark, Health and Efficiency. (Thurs.)
8:00 PM. Treatments of "Harmonious Suggestions," by Dr. J. F. Raush. (Monday and Friday only.)
- KGB**—9:00 AM. Chiropractic Talk.
6:45 PM. Associated Chiropractors. (Tues and Fri.)
- KECA**—8:30 AM. Health Exercises, Louis Rueb.
10:45 PM. Health Exercises, Louis Rueb.
- NORTHERN CALIFORNIA**
KTAB—10:30 PM. Dr. B. L. Corley. (Ex. Sun.)
1:30 PM. Dental Clinic. (Mon., Tues. & Thurs.)
- KFWI**—10:30 AM. Health Talk by Dr. T. G. Linebarger.
- KQW**—11:30 AM. La Vida Health Program.
- CBS**—10:45 AM. The Health Man.
- KYA**—7:00 AM. Drury's Daily Dozen.
3:15 PM. Health Talk on Mon., Tues. and Sat.
- NORTHWEST**
KHQ—5:45 PM. Health Hints. (Mon. & Wed.)
1:00 PM. Dental Hygiene. (Ex. Thurs.)
- KMO**—12:45 PM. Tacoma Dairy Health Program.
- KVI**—3:30 PM. Dental Clinic of the Air. (Ex. Sun. & Sat.)
- KJR**—1:15 PM. Dental Lecture. (Ex. Sat.)
5:30 PM. Health Talk. (Ex. Sat. & Sun.)
- KEX**—1:15 PM. Dental Lecture. (Ex. Sat.)
- KOL**—5:30 PM. Tooth Talk, Dr. Hobson.
- KGA**—1:15 PM. Dental Lecture. (Ex. Sat.)
- MOUNTAIN STATES (Pacific Standard Time.)**
KOA—7:00 AM. Safeguarding Your Food and Drug Supply. (Monday only.)
- ARIZONA**
KTAR—6:00 AM. YMCA Health and Happiness Hour.
- Foreign Language Lessons**
KFSD—3:30 PM. French Lessons. (Tues. and Thurs.)
- KFI**—11:45 AM. French Lessons by Annette Doherty. (Mon. and Wed.)
- KFI**—12:30 PM. German Lessons by Annette Doherty. (Thurs.)
- KFI**—9:30 AM. Spanish Lessons. (Thurs. 11:45 AM. Sat.)
- KECA**—3:15 PM. German Lesson, by Annette Doherty (Thurs. only.)
4:00 PM. Alexander Bevani, on the Italian language.
- KFRC**—2:45 PM. French Lessons by Dr. Thatcher Clark. (Sat. only.)
- KVI**—2:45 PM. French Lessons, CBS. (Sat. only.)
- Light and Grand Opera**
National Broadcasting Co.—9:00 PM. Chase and Sanborn Comic Opera program. (Sun.) KGO, KHQ, KOMO, KFI, KFSD, KTAR, KSL, KOA.
6:30 PM. Maxwell House Ensemble. KGO, KHQ, KOMO, KGW, KECA, KFSD, KTAR.
- Columbia Broadcasting System**—2:00 PM. Light Opera Gems. (Fri.) KLZ, KDYL.
9:00 PM. "Folgeria," Don Lee Chain. (Thurs.)
5:15 PM. Grand Opera Miniatures. KLZ, KOL, KFRC.
- United Broadcasting Co.**—7:00 PM. Opera Sketches. (Wed.) KGB, KFWB, KTM, KTAB, KORE, KNL, KMED, KXV, KVOS.
- KFAD**—1:00 PM. Light Opera Records. (Sun.)
- KGB**—7:00 PM. Opera Sketches. (Wed.)
- KTAB**—1:30 PM. Grand Opera. (Sun.)
- KFRC**—9:00 PM. "Folgeria." (Thurs.)

FOR COMPLETE STATION DIRECTORY SEE PAGE 28!

Programs for the Housewife

- SOUTHERN CALIFORNIA (Daily Ex. Sun. Unless Indicated)**
- KMTR**—9:00 AM. Mildred Kitchen Home Economics Expert.
KFSB—9:15 AM. Amy Lou Shopping Hour.
 10:50 AM. NBC Woman's Magazine of the Air. Thurs.
 10:00 AM.)
- KFI**—9:00 AM. Helpful Hints to Housewives. Bess Kilmer.
 10:30 AM. NBC Woman's Magazine of the Air. (Thurs.
 10:00 AM.)
 10:15 AM. Mary Hale Martin
 10:15 AM. Josephine Gibson Food Talks. (Monday and
 Wednesday only.)
 10:00 AM. Color Harmony NBC. (Tuesday only.)
- KMPC**—10:10 AM. Violet Schramm. Shopping Service.
KTM—2:00 PM. Over the Tea Cups with Nell Cleary.
- KHJ**—9:15 AM. Kathleen Clifford Beauty Talks.
 9:30 AM. Feminine Fancies. (Ex. Saturday.)
 10:30 AM. Pure Food Talks. (Ex. Tuesday.)
 6:00 PM. Peggy Hamilton, Romance of Fashion.
 (Tuesday only.)
- KFWB**—10:00 AM. Prudence Penny.
KFVD—10:30 AM. Hints to Housewives.
KNN—9:00 AM. Radio Shopping News. C. P. R.
 10:30 AM. Home Economics Talk by Kate Brew Vaughn
- KFOX**—9:00 AM. Beauty Talk.
KGER—9:00 AM. Polly and Gene.
 10:45 AM. Beauty Chat.
- KGB**—10:00 AM. Blanche Wood's Shopping Tour.
KECA—11:30 AM. California Federation of Women's Clubs.
 (Monday.)
 9:15 AM. Grace Hale, speaker. (Ex. Fri. & Sat.)
- NORTHERN CALIFORNIA**
- KTAB**—10:00 AM. Household Hour with Alma La Mar.
KFRC—9:30 AM. Feminine Fancies. (Ex. Saturday.)
 11:00 AM. Mary Lewis Haines Domestic Science Talk.
 (Monday.)
 11:15 AM. Mary Lewis Haines Domestic Science Talk.
 (Wednesday.)
 9:00 AM. Mildred Kitchen's Household Talk. (Tuesday
 and Thursday only.)
 3:00 PM. Colonial Dames Beauty Talk. (Monday
 only.)
 10:45 AM. Barbara Gould Talk. (Thurs.)
- KPO**—10:30 AM. NBC Woman's Magazine of the Air. (Thursday
 10:00 AM.)
 11:30 AM. Julia Hayes' Helpful Hints to Housewives.
 (Thursday at 11:45 AM.)
 11:45 AM. Helen Gordon Barker Art Talk. (Monday
 only.)
- KROW**—2:30 PM. Betty, the Shopper.
KYA—12:15 PM. Parent-Teachers' Association. (Monday only.)
- NORTHWEST**
- KHQ**—10:30 AM. Woman's Magazine of the Air. Thursday at
 10:00 AM.)
 9:30 AM. Betty Crocker Talks. (Wed.)
 10:15 AM. Josephine Gibson's Food Talk. (Monday and
 Friday only.)
 10:15 AM. Mary Hale Martin. (Wednesday only.)
 12 Noon. Edna Wallace Hopper Beauty Talks. (Wed. &
 Fri.)
- KGW**—9:15 AM. Cooking School.
 9:30 AM. Betty Crocker. (Wed.)
 10:15 AM. Josephine Gibson's Food Talk. (Monday &
 Wednesday only.)
 10:30 AM. Woman's Magazine of the Air. (Thursday
 at 10:00 AM.)
 11:30 AM. Julia Hayes Talk. (Monday and Tuesday
 only.)
- KVI**—9:30 AM. Feminine Fancies. (Ex. Saturday.)
KMO—11:00 AM. Tips on the Shoppe Market.
KOMO—10:30 AM. Woman's Magazine of the Air. (Thursday
 at 10:00 AM.)
 11:45 AM. Barbara Gould. (Thurs.)
 10:00 AM. Color Harmony. (Tues.)
 12 Noon. Prudence Penny.
 9:45 AM. Way to a Man's Heart.
- KJR**—8:30 AM. Thrift Home of the Air.
 9:15 AM. Mary From Proctors.
 10:15 AM. Julia Hayes Program. (Ex. Sat.)
- KEX**—9:15 AM. Julia Hayes Talk. (Ex. Saturday.)
KOL—9:30 AM. Feminine Fancies. (Ex. Sat.)
KGA—9:15 AM. "Mary."
- MOUNTAIN STATES (Pacific Standard Time)**
- KOA**—10:30 AM. Woman's Magazine of the Air. (Thursday at
 10:00 AM.)
 8:00 AM. Your Child. (Tuesday only.)
 8:15 AM. Radio Household Institute. (Wed.)
 10:15 AM. Mary Hale Martin. (Wednesday only.)
 2:30 PM. A Recipe a Day. (Monday only.)
- KSL**—9:00 AM. Home Economics Program.
 9:30 AM. Housewives Program.
 10:00 AM. A Visit with Mrs. Jennie Lee.
 9:45 AM. Dietary Discussions. (Monday and Thursday
 only.)
 10:30 AM. Helen Webster. (Monday and Wednesday
 only.)
 10:50 AM. Ann Holden. (Monday and Thursday only.)
 10:15 AM. Favorite Recipes of Mary Hale Martin.
 (Wednesday only.)

Plays, Stories, Dramatic Readings

- (United Broadcasting Company)**
- 8:30 PM. Dramatic Program. (Mon., Tues. & Thurs.)
KORE KXL KMED KXA KVOS
 8:00 PM—Detective Stories. (Fri.) **KGB KFWB-KTM KTAB**
KORE KXL KMED KXA KVOS
- Columbia Broadcasting Company**
- 5:30 PM—Arabesque, a Desert Play. (Mon.) **KLZ KDYL**
 7:00 PM—"Jo and Vi." **KLZ KDYL KOL KHJ KFRC**
 7:00 PM—Hank Simmon's Show Boat. (Sat.) **KLZ KDYL KOL**
KFPY KHJ KFRC
 7:30 PM—Don Amaizo. (Mon.) **KLZ KDYL KOL KFPY KHJ**
KFRC KNX
- National Broadcasting Company**
- 7:30 PM. Empire Builders. (Mon.) **KGO KFSB KOMO KHQ KGW**
KECA KTAR
 9:15 PM. NBC Drama Hour. **KGO KOMO KGW**. (Wed.)
 9:30 PM. The Story Teller. (Thurs.) **KGO**
 1:00 PM—Radio Guild. (Fri.) **KGO KOMO KECA KFSB KTAB**
 9:30 PM—Mystery Serial. (Fri.) **KGO KSL KOA**
 9:00 PM—Adventures of Sherlock Holmes. (Mon.) **KGO KHQ**
KOMO KGW KFI KFSB KTAR
 9:30 PM. Jack and Ethyl. **KGO KHQ KOMO KGW KFI**
KFSB—2:00 PM. Matinee Story Time. (Daily Ex. Sat.)
 1:00 PM. Radio Guild. (Fri.)
- KFI**—9:15 PM. "D-17. Emperor." James Carden & Cast. (Mon.,
 Wed. and Fri.)
 9:00 PM. Adventures of Sherlock Holmes. (Mon.)
 10:00 PM—Tom Terriss. "Vagabond Movie Director." (Mon.)
- KTM**—1:00 PM. Dramatic Readings. (Sun.)
 4:30 PM. Dramatic Reading. (Daily Ex. Sat. & Sun.)
 8:00 PM. Noreen Gammel. (Mon.)
- KHJ**—6:00 PM. Prof. Lindsley and Leigh Harline. Reading with
 Organ. (Thurs.)
 7:00 PM. Jo and Vi. (Tues.)
 9:00 PM. "Folgeria," Serial Comic Opera of the Air.
 (Thurs.)
 6:45 PM. Times Pershing Program.
 7:00 PM. Hank Simmon's Show Boat. (Sat.)
 7:30 PM. Don Amaizo. (Mon.)
 5:30 PM. Black and Blue. (Daily Ex. Sat.)
- KFWB**—8:00 PM. Album of Familiar Faces.
 6:45 PM. Cecil and Sally. (Daily Ex. Sun.)
- KNN**—1:30 PM. Eddie Albright's Reading of Late Fiction.
 (Daily.)
 8:00 PM. **KNX** Players directed by Georgia Fifield. (Tues.)
- KGER**—6:30 PM. Frank Ausman. (Sun.)
KFOX—9:30 PM. Detective Story. (Thurs.)
KGB—8:00 PM. Album of Familiar Faces. (Sun.)
KECA—5:00 PM. Nick Harris Detective Story Program. (Sun.)
 8:30 PM. Raine Bennett, Poet of the Air. (Sun.)
 7:30 PM. NBC Empire Builders, Dramatization of the West.
 (Monday.)
 9:30 PM. NBC Memory Lane. (Tues.)
- NORTHERN CALIFORNIA**
- KTAB**—8:30 PM. Dramatic Sketch from UBC. (Mon., Tues. &
 Thurs.)
KFRC—5:30 PM. Fred Benioff Players. (Sun.)
 7:00 PM. "Jo and Vi." (Tues.)
 9:00 PM. "Folgeria," Comic Opera of the Air. (Thurs.)
 7:00 PM. Hank Simmon's Show Boat. (Sat.)
- KQW**—4:30 PM. Story Time. (Daily Ex. Sun.)
KPO—8:00 PM. **KPO** Players. (Sun.)
 6:15 PM. Cecil and Sally. (Daily Ex. Sat.)
- KHQ**—7:30 PM. Empire Builders. (Mon.)
KYA—9:15 PM. **KYA** Players. (Mon.)
 8:00 PM. **KYA** Players. (Tues.)
- NORTHWESTERN STATES**
- KGW**—9:00 PM. "On to Oregon," Dramatization. (Fri.)
 7:30 PM. Empire Builder's Program, NBC. (Mon.)
 9:30 PM. Memory Lane. (Tues.)
- KOMO**—7:30 PM. Empire Builder's Program, NBC. (Mon.)
KVI—9:00 PM. "Folgeria," Comic Opera of the Air. (Thurs.)
KOL—9:00 PM. "Folgeria," Comic Opera of the Air. (Thurs.)
 7:00 PM. Hank Simmon's Show Boat. (Sat.)
 7:00 PM. Jo and Vi. (Tues.)
 7:30 PM. Don Amaizo's Adventures. (Mon.)
- INTERMOUNTAIN STATES**
- KOA**—9:30 PM. Empire Builders. (Mon.)
 9:30 PM. Mystery Serial, NBC. (Fri.)
- KSL**—2:00 PM. Radio Matinee. (Daily Ex. Sun.)
 9:30 PM. Dramatic Readings and Music. (Thurs.)
 7:30 PM. Empire Builders, NBC. (Mon.)
- KDYL**—5:30 PM. Arabesque, a Desert Play. (Mon.)
 7:30 PM. Don Amaizo. (Mon.)
 7:00 PM. CBS Graybar's "Mr. and Mrs." (Tues.)
 9:00 PM. "Folgeria." (Thurs.)
 7:00 PM. Hank Simmon's Show Boat. (Sat.)

Religious Services and Talks for Sunday

National Broadcasting Company—12:00 Noon. National Youth Concert KGO KHQ KOMO KGW KPO
1:00 PM. Dr. S. Parkes Cadman KGO KHQ KOMO KGW KPO.
2:00 PM. National Vespers KGO KHQ KOMO KGW KPO KTAR.
3:00 PM. Catholic Hour KHQ KOMO KGW KECA KTAR.
7:45 PM. Seth Parker's Sunday Evenings.

Columbia Broadcasting Co.—11:00 AM. Cathedral Hour KLZ KVI KFPY KDYL.
KFSO—7:45 PM. Sunday Evenings at Seth Parker's.
KFI—10:50 AM. Temple Baptist Church.
4:00 PM. Lelia Castberg. "Advanced Thoughts."
KMPC—3:00 PM. Church of the Latter Day Saints.
KTM—9:00 AM. I. B. S. A. Watch Tower.
KHJ—11:00 AM. First M. E. Church of Los Angeles.
5:30 PM. Rabbi Magnin.
KNN—10:00 AM. Religious Service.
10:00 AM. Inspirational Bible Recordings.
11:00 AM. First Presbyterian Church of Hollywood.
1:00 PM. Watchtower I. B. S. A. Program.
4:00 PM. Sacred Recordings.
4:30 PM. Dr. John Mathews; First Radio Church of the Air. (11:00 AM. on Fridays.)
6:30 PM. Dr. Theo Curtis Abel of Hollywood Humanist Society.
8:00 PM. First Presbyterian Church of Hollywood.
8:00 AM. Daily Except Sunday—Inspirational Talk and Morning Prayer.
6:30 PM. Saturday—Announcement of leading Los Angeles Church Services.
KFSG—8:00 AM. Sabbath Sunrise Service.
10:30 AM. Sunday Morning.
2:30 PM. Dispensational Message.
6:30 PM. Evangelistic Service.
7:00 AM. Daily Ex. Sunday. Family Altar Service.
2:30 PM. Wednesday and 7:30 Saturday. Divine Healing.
7:30 PM. Thurs. Baptismal Service.
3:00 PM. Thurs. and Fri. Bethesda Hour.
KGEF—9:30 AM. Radio Sunday School.
10:00 AM. Bible Study.
10:45 AM. Trinity Church Service.
5:00 PM. Vesper Hour.
7:00 PM. Trinity Church Service.
9:00 PM. Tues. South Park Christian Church Bereans.
9:30 PM. Tues. Torrance Methodist Church.
7:00 PM. Wed. Conrey Bible Class.
7:00 PM. Radio Revival. (Thurs.)
KTBI—8:00 AM. Church of the Open Door.
8:00 AM. Daily Except Sunday. Gospel Song Requests.
8:15 AM. Daily Except Sunday. Devotional Service.
8:45 AM. Gospel Message. (Daily Ex. Sun.)
2:00 PM. Visiting Pastors.
1:00 PM. Devotional Bible Study. (Ex. Mon. and Sun.)
10:30 AM. Bible Study. (Daily.)
KGER—9:30 AM. Bible Class.
10:00 AM. Calvary Church.
5:30 PM. Catholic Church.
KFOX—11:00 AM. St. Luke's Episcopal Church.
2:30 PM. Salvation Army Program.
8:00 PM. First Church of Christ, Scientist.
KFXM—8:00 AM. Sunshine Hour. (Wed. only.)
4:00 PM. Rev. Olsen's Bible Class.
KGB—6:00 PM. L. D. S. Service.
3:30 PM. L. D. S. Service. (Tues.)
10:00 AM. Watch Tower Service.
KECA—10:00 AM. National Oratorio Society.
11:00 AM. Bible Stories.
3:00 PM. Catholic Hour.

NORTHERN CALIFORNIA
KTAB—10:00 AM. Bible Class from 10th Ave. Baptist Church.
11:00 AM. Church Services from 10th Ave. Baptist Church
1:00 PM. Church of the Latter Day Saints.
7:30 PM. Church Services.
9:00 AM. Daily-Morning Prayers.
KPO—10:45 AM. Interdenominational and Non-sectarian Church Services.
1:00 PM. S. Parkes Cadman Cathedral Hour.
3:00 PM. Catholic Service.
11:59 AM. Daily Except Sunday. Scripture Readings.
KFWI—8:00 PM. Second Church of Christ, Scientist.
KROW—10:15 AM. Watchtower Program.
1:00 PM. Watchtower Program.
6:00 PM. Watchtower Program.
9:00 PM. Watchtower Service.
8:00 PM. Watchtower Service. (Tues.)
KQW—10:15 AM. Sunday School Lessons.
11:00 AM. Morning Services, First Baptist Church.
7:30 PM. Evening Services.
KYA—10:45 AM. Old St. Mary's Church.
8:00 PM. Old St. Mary's Church.

NORTHWESTERN STATES
KHQ—11:00 AM. Central Methodist Episcopal Church.
3:00 PM. Catholic Hour.
8:00 PM. New Episcopal Church.
KGW—10:00 AM. International Bible Students.
12:00 Noon. National Youth Conference.
3:00 PM. Catholic Hour.
7:45 PM. Seth Parker's Program.
KOMO—11:00 AM. First Unitarian Church.
11:15 AM. Plymouth Congregational Church.
12:15 PM. National Youth Conference.
1:00 PM. S. Parkes Cadman.
2:00 PM. National Religious Service.
3:00 PM. Catholic Service.

8:00 PM. First Church of Christ, Scientist.
KJR—10:00 AM. International Bible Students Association.
KEN—1:00 PM. Family Altar Hour.
4:30 PM. Radio Gospel School.

INTERMOUNTAIN STATES

KSL—9:15 AM. International Bible Students.
12:00 Noon. National Youth Conference.
1:00 PM. L. D. S. Services from Tabernacle.
7:15 PM. First Presbyterian Church.
8:15 PM. L. D. S. Service with Great Mormon Organ.
KOA—12:00 Noon. National Youth Conference.
1:00 PM. Dr. S. Parkes Cadman.
3:00 PM. Catholic Hour.
7:45 PM. Sunday Evening at Seth Parker's.
KLZ—9:00 AM. I. B. S. A. Watchtower Services.
11:30 AM. Cathedral Hour.
KDYL—11:30 AM. Cathedral Hour.

Organ Concerts

National Broadcasting Co.—10:15 PM. Paul Carson, Organist. (Sun.) KGO KECA KOA.
Columbia Broadcasting System—7:00 PM. Jesse Crawford, Royal's Poet of the organ over KDYL KOL KOIN KHJ KFRC. (Sun. only.)
9:30 PM—Ann Leaf at the Organ over KLZ KVI. (Mon. Thurs.)
6:00 PM—Gold Medal Fast Freight Program KLZ KDYL KOL KOIN KHJ KFRC KFBK. (Wed.)
1:00 PM—Ann Leaf at the Organ KLZ KVI KOL KFRC (Sat.)
KMTR—5:15 PM. Harold Curtis from the Egyptian Theatre.
8:05 AM. Old Favorites. Organ. (Daily Ex. Sun.)
KFSO—2:30 PM. Organ Recital from Balboa Park. (Ex. Mon.)
KFI—3:30 PM. Aeolian Organ Recital. (Sun. only.)
KMPC—10:00 AM. Organ recital. (Sun.)
KTM—8:30 PM. Organ Recital. (Sun.)
9:30 PM. Organ Recital. (Sun.)
11:00 PM. Organ Recital. (Sun.)
1:30-3:00 and 4:15 PM. Organ Recitals. (Daily Ex. Sun.)
KHJ—7:00 PM. Jesse Crawford, Poet of the Organ. (Sun. only.)
11:00 PM. Leigh Harline at the Organ. (Sun.)
12:00 PM. Leigh Harline at the Organ. (Nightly Ex. Sun.)
5:00 PM. Organ Recital. (Thurs.)
1:00 PM. Ann Leaf. (Sat.)
KFSG—10:00 PM. Organ Recital. (Sun.)
11:00 AM. Organ Recital. (Daily Ex. Sun. and Mon.)
KFWB—11:30 AM. Wade Hamilton at the Organ. (Daily Ex. Sun.)
KFVD—2:00 PM. Organ Recital by J. Newton Yates. (Sun.)
10:00 PM. J. Newton Yates. (Nightly Ex. Sun.)
11:00 PM. J. Newton Yates. (Nightly Ex. Sun.)
KNN—6:00 PM. Wesley Tourtelotte, noted organist. (Daily Ex. Sun.)
11:00 PM. Wesley Tourtelotte. (Nightly Ex. Sun.)
KFOV—10:30 AM. Organ Recital, Vera Graham. (Daily Ex. Sun.)
10:00 AM. Angelus Abbey Organ Recital. (Sun.)
KGFJ—10:00 AM. Archie Fritz. (Sun.)
12:00 PM. Organ Recital.
4:00 PM. Organ Recital by Archie Fritz.
10:30 PM. Organ Melodies, Gilbert Jaffy, violinist.
KTBI—6:30 PM. Organ Program. (Sun.)
KGER—11:00 PM. Dick Dixon at the Organ.
KECA—2:00 PM. NBC Organ Recital. (Sun.)
10:15 PM. Paul Carson, Organist. (Sun.)

NORTHERN CALIFORNIA
KTAB—7:30 PM. Alice Blue at the Organ. (Ex. Sat. and Sun.)
KFRC—8:00 AM. "Good Morning Organ Recital." (Sun.)
7:00 PM. Jesse Crawford. (Sun.)
11:00 PM. Organ Recital. (Sun.)
6:00 PM. Gold Medal Organist. CBS. (Wed.)
1:15 PM. Ann Leaf at the Organ. (Sat.)
KPO—3:15 PM. Mormon Tabernacle Organ. (Mon.)
6:30 PM. Organ Recital. (Mon. & Tues.)
6:00 PM. Organ Recital. (Thurs., Fri. & Sat.)
KYA—10:15 PM. Organ Recital, Rollo Sargent, organist. (Daily.)
2:30 PM. Organ Recital. (Daily Ex. Sun.)
2:00 PM. and 10:00 PM. Organ Recital. (Sun.)

NORTHWESTERN STATES
KHQ—11:45 AM. Organ Recital. (Mon., Tues., Wed. & Sat.)
11:30 AM. Organ Recital. (Thurs. & Fri.)
KGW—9:30 AM. Organ Recital. (Sun.)
11:00 AM. Organ Recital. (Sun.)
11:00 PM. Organ Recital. (Sun.)
3:15 PM. Organ Recital. (Mon.)
2:00 PM. Organ Recital. (Wed.)
3:15 PM. Organ Recital. (Fri.)
3:15 PM. Organ Recital. (Sat.)
KMO—10:30 AM. Organ Recital from Fox Broadway.
KOMO—7:00 AM. Organ Recital. (Ex. Sun.)
12:00 Midnight. Fox 5th Ave. Theatre Organ Recital. (Ex. Sunday.)
9:30 AM. Organ Recital. (Sun.)
KJR—7:45 AM. Organ Concert. (Ex. Sun.)
11:00 AM. Organ Recital. (Daily Ex. Sun.)
2:30 PM. Organ Concert. (Ex. Sat. and Sun.)
10:30 PM. Organ. (Ex. Mon., Fri. & Sat.)
KEN—8:00 AM. Organ Concert. (Daily Ex. Sun.)
2:30 PM. Organ Concert. (Ex. Sun.)
10:00 AM. Organ Concert. (Sun.)
KGA—8:00 AM. Organ Concert.
2:30 PM. Organ Concert. (Sun. at 2:00 PM.; Sat. at 4:00 PM.)
KVI—8:00 AM. Organ Recital. (Sun.)
12:00 Midnight. RKO Organ Recital. (Sun.)
1:00 PM. Ann Leaf at the Organ. (Sat.)
KOL—6:00 PM. Gold Medal Organist. (Wed.)
7:00 PM. Jesse Crawford. (Sun.)
1:00 AM. Ann Leaf at the Organ. (Sat.)
8:00 AM. Organ, Daily on "Hallelujah Hour."
5:30 PM. Catholic.

FOR COMPLETE STATION DIRECTORY SEE PAGE 28!

Organ Concerts

INTERMOUNTAIN STATES

- KOA**—8:30 AM. Organ Melodies. (Mon. & Sat.)
12:00 PM. Organ Program. (Mon.)
10:30 AM. Organ Recital. (Wed.)
7:15 AM. Organ Melodies. (Fri.)
- KSL**—8:15 PM. Mormon Tabernacle Great Organ. (Sun.)
8:45 PM. Organ Reveries. (Tues.)
10:30 PM. Organ Concert. (Wed. & Fri.)
- KDYI**—7:00 AM. Organ Vignettes. (Daily.)
6:00 PM. Gold Medal Organist. (Wed.)
10:15 PM. Organ Melodies. (Fri.)

News, Stock Market Reports, Weather

Financial Reports. (Daily Ex. Sunday.)

- National Broadcasting Co.**—8:00 AM. Financial Service. (Daily).
KGO.
4:45 PM. News Service. **KGO** (Mon., Thurs. & Fri.)
5:45 PM. News Service. **KG** (Tues. & Wed.)
5:00 PM. News Service. **KGO** (Sat.)

United Broadcasting Co.—10:00 PM. Hughespaper of the Air.

SOUTHERN CALIFORNIA

- KMTR**—11:45 AM. Public and City Officials.
8:00 AM. Stock Quotations.
12 Noon. World in Review.
5:45 PM. Reporter of the Air.
- KFSD**—5:45 PM. San Diego Union News Report.
- KFI**—10 AM. Wall Street Financial News.
7:30 AM. Opening Stock Market Quotations.
12 PM. U. C. & U. S. Dept. of Agriculture.
12:15 PM. Federal and State Market Reports.
4 PM. KFI-KECA Editorial Review.
5:45 PM. Closing Stock Market Reports.
- KMPC**—12 PM. Livestock Report.
9:00 AM. Radio News Service.
1:15 PM. Radio News Service.
5:00 PM. Radio News Service.
- KIHJ**—12:30 PM. World-Wide News (L.A. Times.)
4:45 PM. World-Wide News.
10:00 PM. World-Wide News.
7:30 AM. Stock Exchange Reports.
- KFWB**—8:00 AM. Country Editor of the Air.
- KNA**—3:15 PM. Monday. Lost and Found Reports.
3:25 PM. Tuesday. Lost and Found Reports.
3:00 PM. Wednesday. Lost and Found Reports.
3:25 PM. Friday. Lost and Found.
3:30 PM. Thursday. Lost and Found Reports.
1:25 PM. Saturday. Lost and Found Reports.
8:00 PM. Nightly Frost Warnings for Citrus Growers.
- KGFJ**—5:00 PM. Market Reports.
- KFAM**—11:15 AM. News Report.
6:15 PM. Los Angeles Record News Report.
8:30 PM. 9:00 and 10:00 PM. Frost warnings.
- KFOX**—7:15 AM. Early News Report.
11:30 AM. Press Telegram News Report.
4:00 PM. Press Telegram News Report.
- KGB**—2:45 PM. News Flashes.
5:00 PM. Lost and Found ads.
- KGER**—4:00 PM. News Brevities.
6:30 AM. News, weather, etc.
- KPSX**—8:00 AM. World Wide News.
12:45 PM. World Wide News.
6:00 PM. World Wide News.
- KECA**—10:30 PM. KFI-KECA Editorial Review.
- NORTHERN CALIFORNIA**
- KPRC**—7:30 AM. N. Y. Stock Quotations.
11:25 AM. S. F. Call-Bulletin News Items. (11:10 AM. Mon. & Thurs.)
1:00 PM. Closing Stock Market Reports. (1:15 PM. Mon.)
1:05 PM. S. F. Call-Bulletin News Items. (1:20 PM. Monday.)
5:50 PM. S. F. Call-Bulletin News Items. (5:45 PM. Monday.)
- KPO**—2:50 PM. Ye Towne Crier. (Sat. 3:00 PM.)
5:45 PM. News Digest with Scotty Mortland.
- KQW**—9:30 AM. Weather Report.
12:30 PM. Market Report.
6:00 PM. U. S. D. A. Farm Flashes.
6:30 PM. S. F. Market Place.
7:00 PM. Farm Bureau Radio News.
7:05 PM. News Dispatches.
- KYA**—12:45 PM. News casting.
6:45 PM. Delivery of Stock Yard Prices and Quotations.

NORTHWEST

- KIHQ**—7:00 AM. The Towne Crier.
1:15 PM. Farm Markets.
- KGW**—1:00 PM. Town Crier.
- KMO**—10:00 AM. Town Crier.
11:45 AM. News Casting.
- KOMO**—11:30 AM. Farm Talk: Grain and Food Reports.
10:45 PM. News Flashes. 10:00 PM. Sat.)
- KJR**—7:40 AM. Stock Reports.
12 PM. World in Review.
3:30 PM. News Casting.
5:40 PM. Market Reports.
- KEX**—7:00 AM. Oregon Journal News.
12:00 PM. Weather Reports.
11:30 PM. Police Reports.
- KGA**—6:45 AM. News.
3:30 PM. News Casting.

MOUNTAIN STATES

- KOA**—11:30 AM. Monday, weather, stocks, markets, livestock. (P. S. T.)
10:50 AM. Tuesday, weather, stocks, markets, livestock.
10:55 AM. Friday, weather, Stocks, Markets, Livestock.
11:30 AM. Wednesday, weather, stocks, markets, livestock.
11:00 AM. Thursday, weather, etc.
1:00 PM. Monday, weather, stocks, etc.
4:00 PM. Monday, weather, stocks, markets, livestock.
4:15 PM. Tuesday, weather, stocks, etc.
3:45 PM. Wed., Thurs., Fri. & Sat. weather, stocks, etc.
- KDYI**—7:30 AM. News Flashes, Police Bulletins.

Bridge Lessons

- KFSD**—4:00 PM. Bridge Lessons. (Tues. only.)
- KFWB**—8:00 PM. Bridge Lesson. (Tues.)
- KFAM**—9:00 PM. Bridge Lesson. (Tues.)
- KPO**—4:00 PM. Bridge Game. (Tues. only.)
- KYA**—3:15 AM. Willis Boardman Zink, Authority on Contract Bridge. (Wed. and Fri.)
- KIHQ**—10:00 PM. Bridge Lesson. (Mon.)
- KGW**—2:30 PM. Auction Bridge. (Wed.)
- KMO**—9:00 PM. Bridge Game. (Wed. only.)
- KJR**—8:00 PM. Bridge Game. (Wed. only.)
- KOA**—3:45 PM. Bridge Lessons. (Tues. only.)

For the Youngsters

SOUTHERN CALIFORNIA (Daily Except Where Indicated)

- National Broadcasting Co.** 2 PM—Maltine Program. (Mon.) **KGO**
KOMO **KGW** **KFI**.
- KFSD**—2:00 PM. Maltine Story Time. (Mon.)
- KFI**—4:14 PM. Big Brother Don (Ex. Sat.)
5:00 PM. Baron Keyes, The Story Man. (Ex. Sat.)
- KMPC**—9:30 AM. Bob, Bunny and Junior.
4:15 PM. Just Kids Club. (Ex. Mon., Wed. & Sat.)
- KIHJ**—5:30 PM. Black and Blue. (Ex. Sun.)
- KNX**—5:15 PM. Big Brother Ken's Kiddies Hour.
- KPSG**—4:00 PM. Kiddies' Hour (Fri. only.)
- KTBI**—6:00 PM. Aunt Martha's Children's Program. (Sun.)

NORTHERN CALIFORNIA

- KFWI**—7:00 PM. Child Guidance Forum. (Tues.)
- KPO**—5:00 PM. Big Brother (Ex. Mon.)
- KLA**—5:00 PM. Big Brother's Club.
- KQW**—4:30 PM. Baron Keyes's Story Castle.

NORTHWEST

- KGW**—5:00 PM. Franz's Children's Hour. (Wed.)
- KJR**—5:15 PM. Baron Keyes and His Air Castle.
- KEX**—2:00 PM. Uncle Frank's Story Hour. (Ex. Sat.)
- KGA**—5:15 PM. Uncle Frank's Story Hour. (Ex. Sat.)

MOUNTAIN STATES (Pacific Standard Time)

- KSL**—1:00 PM. Story Hour. (Mon.)

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Chain Programs for January

National Broadcasting Co.

SUNDAY

- 8:00 AM—Popular Symphony Concerts
KGO KOMO KGW KECA
KFSD
- 9:00 AM—Breakfast with Sperry KHQ
KOMO KGW KPO KFI KFSD
- 9:00 AM—Miniature Recital
- 9:15 AM—John Barclay and Dagmar Ryb-
ner KGO.
- 9:30 AM—Neapolitan Days KGO KECA
KGW KFSD
- 10:00 AM—National Oratorio Society KGO
KOMO KGW KECA
- 11:00 AM—Grace Cathedral Service KGO
- 12:00 PM—National Youth Conference
KGO KHQ KOMO KGW KPO
- 1:00 PM—Dr. S. Parkes Cadman KGO
KHQ KOMO KGW KPO
- 1:00 PM—Concert Jewels KGO
- 2:00 PM—National Vespers KGO KHQ
KOMO KGW KPO KTAR
- 3:00 PM—Catholic Hour KGO KHQ
KOMO KGW KTAR KECA
- 4:00 PM—Musical Moods KGO KOMO
KFSD
- 4:30 PM—RCA Victor Program KGO
KHQ KOMO KGW KFI KFSD
KTAR
- 5:00 PM—Sunday Concert KGO KOMO
KGW KFSD
- 5:00 PM—Enna Jettick Melodies KHQ
KOMO KGW KPO KFI KFSD
KTAR
- 5:15 PM—Collier's Radio Hour KHQ
KOMO KGW KPO KFI
- 6:00 PM—News Service KGO
- 6:15 PM—Atwater Kent Hour KOMO
KGW KPO KFI KHQ
- 6:15 PM—The Vagabonds KGO
- 7:15 PM—Studebaker Champions KGO
KHQ KOMO KGW KFI
- 7:45 PM—Sunday at Seth Parker's KGO
KGW KFSD KTAR
- 8:15 PM—Heel Huggar Program KGO
KFSD KTAR
- 8:30 PM—Walter V. Ferner KGO KFSD
KTAR KGW
- 9:00 PM—Chase & Sanborn Program
KGO KHQ KOMO KFI KTAR
KSL KOA
- 9:30 PM—Enna Jettick Melodies KGO
KOMO KGW KECA KTAR
KHQ
- 9:45 PM—The Reader's Guide KGO
- 10:15 PM—Paul Carson, Organist KGO
KECA KOA
- 11:00 PM—The Vagabonds KGO KFI KSL

MONDAY

- 7:30 AM—Sunrise Serenaders KGO
- 7:30 AM—Quaker Start O' the Day KHQ
KOMO KGW KPO KFSD KFI
- 8:00 AM—Shell Happytime KHQ KOMO
KGW KPO KFI KSL
- 8:00 AM—Financial Service Program KGO
- 8:15 AM—Morning Melodies KGO
- 8:30 AM—Cross-Cuts of the Day KGO
- 9:00 AM—Vermont Lumberjacks KGO
KHQ KOMO KGW KECA
- 9:15 AM—Morning Glories KGO
- 9:45 AM—The Entertainers KGO
- 10:00 AM—Charlie Wellman, Prince of
Pep KGO KHQ KOMO KGW
KTAR
- 10:15 AM—Josephine B. Gibson Food Talk
KGO KGW KFI KFSD KTAR
KOMO KHQ
- 10:30 AM—Woman's Magazine of the Air
KGO KHQ KOMO KGW KPO
KFI KFSD KSL KOA KTAR
- 11:30 AM—California Federation of Wo-
men's Clubs KGO KECA KFSD
- 12:00 PM—Luncheon Concert KGO KGW
KFSD KECA
- 12:15 PM—Western Farm and Home Hour
KGO KHQ KOMO KGW KTAR
KFSD KSL
- 1:00 PM—Hotel Sir Francis Drake Dance
Orchestra KGO KFSD KTAR
KECA.
- 1:30 PM—Pacific Coast School of the Air
KGO KGW KFSD KTAR
KECA
- 2:00 PM—Maltine Story Program KGO
KOMO KFI KFSD KGW
- 2:30 PM—NBC Matinee KGO KGW KECA
- 3:00 PM—What's in a Name? KGO KGW
KPO
- 3:15 PM—Mormon Tabernacle Choir and
Organ KGO KOMO KGW KPO
KFSD KTAR
- 3:45 PM—Parisian Quintet KGO KPO

- 4:15 PM—The World Today by James G.
McDonald. KGO KECA KFSD
- 4:30 PM—Bits of Melody KGO
- 4:45 PM—News Service KGO
- 5:00 PM—How's Business? Merle Thorpe
KGO KHQ KOMO KGW KECA
- 5:15 PM—Fifteen Minutes in the Nation's
Capital KGO KHQ KOMO
KECA KFSD
- 5:30 PM—Piano Capers KGO KGW
- 6:00 PM—Maytag Orchestra KGO KHQ
KOMO KGW KECA
- 6:30 PM—General Motors Family Party
KGO KHQ KOMO KGW KFI
- 7:00 PM—Stromberg - Carlson Program
KGO KHQ KOMO KGW KFI
KFSD KTAR
- 7:30 PM—Empire Builders KGO KHQ
KOMO KGW KECA KFSD
KTAR
- 8:00 PM—Rudy Seiger's Shell Symphon-
ists KPO KFI KHQ KOMO
KGW
- 8:00 PM—Amos 'N Andy KGO KHQ
KOMO KGW KECA KFSD
- 8:15 PM—This Amazing Universe KGO
- 8:30 PM—Sparklets KGO
- 9:00 PM—Adventures of Sherlock Holmes
KGO KHQ KOMO KGW KFI
KFSD KTAR
- 9:30 PM—Pacific National Singers KGO
KSL KOA
- 10:00 PM—Musical Echoes KGO KECA
KOA KSL
- 10:30 PM—Yir Frien' Scotty KGO KSL
KOA
- 10:45 PM—Walter Ferner, cellist KGO
KSL KOA
- 11:00 PM—Laughner-Harris Hotel St.
Francis Dance Orchestra KGO
KGW KFI

TUESDAY

- 7:30 AM—Sunrise Serenaders KGO
- 7:30 AM—Quaker Start O' the Day KHQ
KOMO KGW KPO KFSD KFI
- 8:00 AM—Shell Happytime KHQ KOMO
KPO KFI KSL

- 8:00 AM—Financial Service Program
KGO
- 8:15 AM—Morning Melodies KGO
- 8:30 AM—Cross-Cuts of the Day KGO
- 9:00 AM—Vermont Lumberjacks KGO
KHQ KOMO KGW KECA
- 9:15 AM—Snowdrift - Wesson Program
KGO KHQ KOMO KGW KTAR
KFSD
- 9:30 AM—The Entertainers KGO KECA
- 10:00 AM—Color Harmony Program KGO
KHQ KOMO KGW KFI
- 10:30 AM—Woman's Magazine of the Air
KGO KHQ KOMO KGW KPO
KFI KFSD KTAR KSL KOA
- 11:30 AM—NBC Philharmonic Organ Re-
cital KGO KECA
- 12:00 PM—Luncheon Concert KGO KECA
KGW
- 12:15 PM—Western Farm Hour KGO
KOMO KGW KECA KFSD KSL
KTAR
- 1:00 PM—Pacific Vagabonds KGO KFSD
KTAR KOA KGW KECA
- 2:00 PM—NBC Matinee KGO KTAR KHQ
KOMO KGW KFI
- 3:00 PM—Black and Gold Room Orches-
tra KGO KGW
- 3:30 PM—Who's Behind the Name? Ed-
win Alger KGO KOMO
- 3:45 PM—Black and Gold Room Orches-
tra KGO KGW
- 4:00 PM—Voter's Service KGO KGW
- 4:30 PM—The Vagabonds KGO
- 5:00 PM—Paul Whiteman's Painters KGO
KGW KHQ KOMO KFSD
KTAR
- 5:30 PM—Bits of Melody KGO KGW
- 5:45 PM—News Service KGO KGW
- 6:00 PM—McKesson Musical Magazine
KGO KHQ KOMO KGW KECA
KFSD KTAR
- 6:30 PM—Happy Wonder Bakers KGO
KHQ KOMO KGW KECA
- 7:00 PM—Westinghouse Salute KGO
KHQ KOMO KGW KECA
KFSD KTAR
- 7:30 PM—B. A. Rolfe and His Lucky
Strike Dance Orchestra KGO
KHQ KOMO KGW KECA
KFSD KTAR
- 8:00 PM—Amos 'N Andy KGO KHQ
KOMO KGW KECA KFSD
- 8:15 PM—Violet Ray Music Box KGO
KHQ KOMO KGW KFI KFSD
KTAR
- 8:45 PM—Sperry Smiles KGO KHQ
KOMO KGW KECA KFSD
- 9:00 PM—Florsheim Frolic KGO KHQ
KOMO KGW KECA KFSD
KTAR
- 9:30 PM—Memory Lane KGO KGW
KECA KFSD KTAR KOA
- 10:00 PM—National Concert Orchestra
KGO KOA KGW
- 11:00 PM—Laughner - Harris Hotel St.
Francis Dance Orchestra KGO
KFI KSL

WEDNESDAY

- 7:30 AM—Sunrise Serenaders KGO
- 7:30 AM—Quaker Start O' the Day KHQ
KOMO KGW KPO KFSD KFI
- 8:00 AM—Shell Happytime KHQ KOMO
KGW KPO KFI KSL
- 8:00 AM—Financial Service Program
KGO
- 8:15 AM—Morning Melodies KGO
- 8:30 AM—Cross-Cuts of the Day KGO
- 9:00 AM—Vermont Lumberjacks KGO
KHQ KOMO KGW KECA
- 9:15 AM—The Recitalists KGO
- 9:30 AM—Betty Crocker Gold Medal
Home Service Talks KGO KHQ
KOMO KGW KFI KFSD
- 9:45 AM—Modern Melodists KGO KPO
KECA
- 10:00 AM—Charlie Wellman, Prince of Pep
KGO KHQ KOMO KGW
KFSD KTAR
- 10:15 AM—Mary Hale Martin's Household
Period KGO KHQ KOMO KGW
KFI KSL KOA
- 10:30 AM—Woman's Magazine of the Air
KGO KHQ KOMO KGW KPO
KFI KFSD KTAR
- 11:30 AM—Organ Recital KGO KECA
- 11:45 AM—Sisters of the Skillet KGO
KECA
- 12:00 PM—Edna Wallace Hopper KGO
KHO KOMO KGW KECA
KFSD
- 12:15 PM—Western Farm and Home Hour
KGO KHQ KOMO KGW KECA
KFSD KTAR

The Adventures of Detectives

BLACK and BLUE

5:30 to 5:45 P. M. Daily (Except
Saturday and Sunday)

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(FOREST LAWN)

Every Tuesday, 8 to 9 P. M.

KHJ

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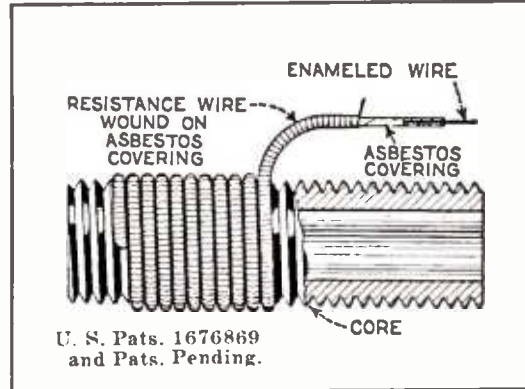
FOR COMPLETE STATION DIRECTORY SEE PAGE 28!

- 1:00 PM—Pacific School of the Air KGO KHQ KOMO KGW KPO KECA KFSD KTAR
- 2:00 PM—NBC Matinee KGO
- 2:00 PM—Series of Talks KTAR KECA
- 2:15 PM—Soloists KECA KTAR
- 2:30 PM—Tea Timers KECA
- 3:00 PM—Saltzman Restaurant Orch. KGO KGW KTAR
- 3:25 PM—John B. Kennedy Talk KGO KGW KTAR
- 3:30 PM—Black and Gold Room Orch. KGO
- 3:45 PM—The Vagabonds KGO
- 4:00 PM—Rodeheaver Sing KGO
- 4:15 PM—Science KGO KOMO KPO KFSD KTAR KECA
- 4:30 PM—Sarah Kreindler, Violinist KGO KGW
- 4:45 PM—Back of the News in Washington, William Hard KGO KOMO KECA KFSD
- 5:00 PM—Bobby Jones Golf Chat KGO
- 5:15 PM—Radiotron Varieties KGO KHQ KOMO KECA KFSD KTAR
- 5:30 PM—Bits of Melody KGO
- 5:45 PM—News Service KGO
- 6:00 PM—Halsey, Stuart Program KGO KHQ KOMO KGW KFI
- 6:30 PM—Palmolive Hour KGO KHQ KOMO KGW KFI
- 7:30 PM—Coca Cola Program KGO KHQ KOMO KGW KECA KFSD
- 8:00 PM—Amos 'N Andy KGO KHQ KOMO KGW KECA KFSD
- 8:15 PM—Camel Pleasure Hour KGO KHQ KOMO KECA KFSD
- 9:15 PM—NBC Drama Hour KOMO KGO KGW
- 9:45 PM—Modern Melodists KGO KGW
- 10:30 PM—Pacific Nomads KGO
- 11:00 PM—Laughner-Harris Hotel St. Francis Dance Orchestra KGO KGW KFI

THURSDAY

- 7:30 AM—Sunrise Serenaders KGO
- 7:30 AM—Quaker Start O' the Day KHQ KOMO KGW KPO KFSD KFI
- 8:00 AM—Shell Happytime KHQ KOMO KGW KPO KFI KSL
- 8:00 AM—Financial Service Program KGO
- 8:15 AM—Morning Melodies KGO
- 8:30 AM—Cross-Cuts of the Day KGO
- 9:00 AM—Vermont Lumberjacks KGO KHQ KOMO KGW KECA
- 9:15 AM—Piano Capers KGO
- 9:45 AM—The Coquettes KGO KECA
- 10:00 AM—Woman's Magazine of the Air KGO KHQ KOMO KGW KPO KFI KTAR KSL KOA KFSD
- 11:00 AM—Standard School Broadcast KGO KHQ KOMO KGW KPO KFI KFSD
- 11:45 AM—Organ Recital KGO KECA
- 12:00 PM—Luncheon Concert KGO KSL KFSD KECA
- 12:15 PM—Western Farm and Home Hour KGO KHQ KOMO KGW KECA KFSD KSL
- 1:00 PM—Hotel Sir Francis Drake Orch. KGO KFSD
- 2:00 PM—NBC Matinee KGO
- 2:00 PM—In the Spotlight KFSD KGW KECA KTAR
- 3:00 PM—Black and Gold Room Orchestra KGO KGW
- 3:45 PM—The Vagabonds KGO
- 4:15 PM—News Service KGO KFSD
- 9:00 PM—Demi-Tasse Revue KGO KHQ KOMO KGW KFI KFSD KTAR KSL
- 4:45 PM—Friendly Five Footnotes KGO KHQ KOMO KECA KFSD KTAR
- 5:00 PM—Fleischmann Hour KGO KHQ KOMO KGW KECA KTAR
- 6:00 PM—Arco Birthday Party KGO KHQ KOMO KGW KECA
- 6:30 PM—Maxwell House Ensemble KGO KHQ KOMO KGW KECA
- 7:00 PM—B. A. Rolfe and His Lucky Strike Dance Orchestra KGO KHQ KOMO KGW KFI KFSD KTAR
- 7:30 PM—Standard Symphony Hour KGO KHQ KOMO KGW KFI
- 8:30 PM—Amos 'N Andy KGO KHQ KOMO KGW KECA KFSD
- 8:45 PM—Sperry Smiles KGO KHQ KOMO KGW KECA KFSD
- 9:00 PM—Demi-Tasse Revue KGO KHQ KOMO KGW KFI KFSD KTAR KSL
- 9:30 PM—The Story Teller KGO KOA
- 10:00 PM—Parisian Quintet KGO KFI KOA

- 10:30 PM—Yip Frier' Scotty KGO KOA
 - 10:45 PM—Sarah Kreindler, violinist KGO KOA
 - 11:00 PM—Laughner - Harris Hotel St. Francis Dance Orchestra KGO KGW KFI KSL
- FRIDAY**
- 7:30 AM—Sunrise Serenaders KGO
 - 7:30 AM—Quaker Start O' the Day KHQ KOMO KGW KPO KFSD KFI
 - 8:00 AM—Shell Happytime KHQ KOMO KGW KPO KFI
 - 8:00 AM—Financial Service Program KGO
 - 8:15 AM—Morning Melodies KGO
 - 8:30 AM—Cross-Cuts of the Day KGO
 - 9:00 AM—Vermont Lumberjacks KGO KHQ KOMO KGW KECA
 - 9:15 AM—Meet the Folks KGO



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- 9:30 AM—Betty Crocker Gold Medal Home Service Talks KGO KHQ KOMO KGW KFI KFSD
- 9:45 AM—The Entertainers KGO KECA
- 10:00 AM—Charlie Wellman, Prince of Pep KGO KGW KHQ KOMO KECA KFSD KTAR
- 10:15 AM—Josephine B. Gibson, Food Talk KGO KHQ KOMO KGW KFI
- 10:30 AM—Woman's Magazine of the Air KGO KHQ KOMO KGW KPO KFI KFSD KTAR KSL
- 11:30 AM—NBC Philharmonic Organ Recital KGO KECA
- 12:00 PM—Edna Wallace Hopper KGO KHQ KOMO KGW KECA KFSD
- 12:15 PM—Western Farm and Home Hour KGO KGW KOMO KECA KFSD KTAR
- 1:00 PM—Radio Guild KGO KOMO KECA KFSD KTAR
- 2:00 PM—NBC Matinee KGO KECA KGW
- 3:00 PM—The World in Music KGO KGW KTAR
- 3:15 PM—Black and Gold Room Orchestra KGO KGW KTAR
- 3:45 PM—Bits of Melody KGO
- 4:00 PM—Spotlights in Drama and Literature KGO KOMO KFSD
- 4:15 PM—College Memories KGO KHQ KOMO KECA KFSD KTAR KGW
- 4:30 PM—Bits of Melody
- 4:45 PM—News Service KGO
- 5:00 PM—Cities Service Concert Orchestra KGO KHQ KOMO KGW KECA
- 6:00 PM—Interwoven Pair KGO KHQ KOMO KGW KFI KFSD KTAR
- 6:30 PM—Armour Program KGO KHQ KOMO KGW KFI
- 7:00 PM—Armstrong Quakers KGO KHQ KOMO KGW KFI
- 7:30 PM—Radio-Keith-Orpheum Program KGO KHQ KOMO KGW KFSD KTAR KFI
- 8:00 PM—Amos 'N Andy KGO KHQ KOMO KGW KECA KFSD
- 8:15 PM—Brownbilt Footlites KGO KHQ KOMO KGW KFI KFSD KTAR
- 8:30 PM—S. & W. Mellow'd Melodies KGO KHQ KOMO KGW KFI KFSD KTAR
- 9:15 PM—Hill Billy Boys KGO
- 9:30 PM—Mystery Serial KGO KSL KOA
- 9:30 PM—The Boswell Sisters KGO KSL KOA
- 11:00 PM—Laughner - Harris Hotel St. Francis Dance Orchestra KGO KFI KSL

SATURDAY

- 7:30 AM—Sunrise Serenaders KGO
- 7:30 AM—Quaker Start O' the Day KHQ KOMO KGW KPO KFSD KFI
- 8:00 AM—Shell Happytime KHQ KOMO KGW KPO KFI KSL
- 8:00 AM—Financial Service Program KGO
- 8:30 AM—Cross-Cuts of the Day KGO
- 9:00 AM—Vermont Lumberjacks KGO KHQ KOMO KGW KECA
- 9:15 AM—Sox Appeal KGO KECA
- 9:30 AM—National Farm and Home Hour KGO KHQ KOMO KFI KFSD KGW KPO
- 10:30 AM—Woman's Magazine of the Air KHQ KOMO KGW KPO KFI KFSD KTAR KGO
- 12:00 PM—Hotel Sir Francis Drake Orchestra KGO KTAR
- 1:00 PM—The Hollywailians KGO KECA KTAR
- 1:15 PM—Pacific Feature Hour KGO KTAR KECA
- 2:00 PM—NBC Matinee KGO KGW KECA KTAR
- 3:00 PM—Black and Gold Room Orchestra KGO KGW
- 3:45 PM—Bits of Melody KGO
- 4:00 PM—Rodeheaver Sing KGO
- 4:15 PM—Laws That Safeguard Society KGO KHQ KOMO KECA KTAR
- 4:30 PM—Snoop and Peep KGO KGW
- 4:45 PM—The Highroad of Adventure KGO KGW KFSD KTAR
- 5:00 PM—News Service KGO
- 5:15 AM—Radiotron Varieties KGO KHQ KOMO KGW KECA KFSD KTAR
- 5:30 PM—The Fuller Man KGO KHQ KOMO KGW KECA
- 6:00 PM—General Electric Hour KGO KHQ KOMO KGW KFI KFSD KTAR

A COMPLETE DIRECTORY TO WESTERN STATIONS APPEARS ON PAGE 28

Columbia Broadcasting System

SUNDAY

- 9:00 AM—Jewish Art Program, Talks, Script and Music KVI KLZ
- 9:30 AM—London Broadcast KLZ KDYL KVI KFPY
- 9:45 AM—H. M. Canadian Grenadier Guards Band from Montreal KLZ KVI KFPY
- 10:30 AM—Conclave of Nations, music directed by Channon Collinge KFPY KLZ KVI
- 11:00 AM—Cathedral Hour. All musical presentation of a cathedral service KLZ KVI KFPY
- 12:00 Noon—New York Philharmonic Orch. KLZ KDYL KVI KHJ KFRC
- 2:30 PM—The French Trio KLZ KDYL KVI KFRC
- 5:00 PM—Devil, Drugs and Doctors KLZ KDYL KOL KHJ KFRC KFPY
- 5:15 PM—U. S. School of Music KLZ KOL KFPY
- 5:45 PM—The New World Symphony KLZ KDYL
- 6:00 PM—Around the Samovar KLZ KDYL KFPY
- 6:30 PM—Detroit Symphony Orchestra KLZ KDYL KFPY KOIN KHJ KFRC
- 7:00 PM—Jesse Crawford, Royals' Poet of the Organ KLZ KDYL KOL KOIN KHJ KFRC

MONDAY

- 5:45 AM—The Old Dutch Girl KLZ KDYL
- 6:00 AM—Something for Everyone KDYL
- 9:00 AM—Paul Tremaine and His Yoeng's Restaurant Orchestra KLZ KFPY
- 9:30 AM—Columbia Revue, Emery Deutsch and his Orchestra, KDYL KVI
- 11:00 AM—Columbia Artists Recital KLZ KVI KFPY
- 11:30 AM—American School of the Air KLZ KDYL KVI KOL KFPY KOIN KHJ KFRC
- 12:00 Noon—Columbia Salon Orchestra, Emery Deutsch, director KDYL KVI
- 12:30 AM—Ann Leaf at the Organ KLZ KDYL KVI KOL KFPY
- 1:00 PM—Radio Listening Test KDYL KVI KHJ KFRC
- 1:30 PM—U. S. Army Band KLZ KDYL KVI KFPY
- 1:30 PM—Wardman Park Hotel Orchestra, dance music KRLD KDYL KVI KOL KFPY KFRC
- 2:00 PM—Gypsy Music Makers, Emery Deutsch and his Orchestra KDYL
- 2:45 PM—Virginia Arnold, pianist KLZ KDYL
- 3:00 PM—Paul Tremaine and Orch. KDYL KOL KFRC KHJ
- 3:45—Tony's Scrap Book KLZ KOL KFRC
- 4:00 PM—Current Events, H. V. Kaltenborn KVI KOL KFRC
- 4:15 PM—The Vagabonds KVI KFRC
- 5:30 PM—Arabesque, Desert Play KLZ KDYL
- 6:00 PM—The Three Bakers KLZ KDYL KOL KFPY KFRC KHJ
- 6:30 PM—Bourgeois, An Evening in Paris KLZ KFPY KOL KDYL KOIN KHJ KFRC
- 7:00 PM—Guy Lombardo and his Orchestra KLZ KDYL KVI KOL KFPY KOIN KHJ KFRC
- 7:30 PM—Don Amazo KLZ KDYL KOL KOIN KHJ KFRC KNX
- 8:15 PM—Columbia Radio Column, Heywood Brown KOL
- 8:30 PM—Fletcher Henderson and His Orch. KLZ KDYL

TUESDAY

- 6:15 AM—Something for Everyone, Music, News, Humor, Poetry KDYL
- 6:30 AM—Morning Moods, Nat Brusiloff and his Orchestra KDYL
- 9:00 AM—Paul Tremaine and his Yoeng's Restaurant Orchestra, dance music KLZ KDYL KVI KOL KFPY KHJ KFRC
- 9:30 AM—Columbia Revue KDYL
- 11:00 AM—The Four Clubmen KLZ KVI KFPY KHJ KFRC
- 11:30 AM—American School of the Air, KLZ KDYL KVI KFRC
- 12:00 Noon—Columbia Salon Orchestra, Emery Deutsch, director KLZ KDYL KVI
- 12:30 PM—Pancho and his Orchestra, dance music KLZ KDYL KVI
- 1:15 PM—Italian Idyl, Vincent Sorey and his Orchestra KLZ KDYL KVI KFRC
- 1:30 PM—Columbia Artists' Recital KLZ KDYL KOL KFPY KFRC WORC KVI
- 2:00 PM—Rhythm Kings, Nat Brusiloff and his Orchestra KLZ
- 2:30 PM—Bert Lown and his Biltmore Orchestra, dance music KDYL KLZ
- 3:00 PM—Harry Tucker and His Barclay Orchestra, concert music KDYL KOL KFPY
- 3:45 PM—Tony's Scrap Book KLZ KOL KFRC KFPY
- 4:00 PM—Morton Downey KVI KFPY KHJ
- 4:15 PM—Columbia Educational Features The Political Situation in Washington KFRC KFPY KVI
- 5:45 PM—Premier Salad Dressers, Colin O'More, tenor and Premier Chef KLZ KDYL KVI KOL KFPY KOIN KHJ KFRC
- 7:00 PM—Graybar's Mr. and Mrs. KLZ KDYL KVI KOL KFPY KOIN KHJ KFRC
- 7:15 PM—The Gypsy Trail KLZ KOL KFPY KFRC
- 7:30 PM—Paramount Publix Radio Playhouse, Guest Screen Stars KLZ KDYL KVI KOL KFPY KOIN KHJ KFRC KNX
- 8:00 PM—Paul Tremaine and His Yoeng's Orch KLZ KOL
- 8:30 PM—Mickey Alpert and Orch. KLZ KDYL

WEDNESDAY

- 6:00 AM—Something for Everyone, music, news, humor, poetry KDYL KHJ
- 6:30 AM—Morning Moods, Vincent Sorey and his Orchestra KDYL
- 9:00 AM—Paul Tremaine and his Yoeng's Restaurant Orchestra, dance music KLZ
- 10:30 AM—Pickle Packers Program KVI KOL KHJ KFRC
- 11:00 AM—Columbia Artist's Recital KLZ KVI KOL KFPY
- 11:30 AM—American School of the Air, "Robinson Crusoe" KLZ KDYL KVI KOL KOIN KHJ KFRC
- 12:30 PM—Syncopated Silhouettes, Nat Brusiloff and his Orchestra KLZ KDYL KVI
- 1:00 PM—Musical Album, Columbia Salon Orchestra KLZ KDYL KVI KOL KFPY KFRC CFRB
- 2:00 PM—Asbury Park Casino Orchestra, dance music KLZ KDYL
- 2:45 PM—Eddie Connors KLZ KDYL
- 3:00 PM—"Bill Schudt's Going to Press," special program KLZ KDYL KOL
- 3:15 PM—Winegar's Barn Orch KDYL KOL KFRC KHJ
- 3:45 PM—Tony's Scrap Book KVI KOL KFRC KFPY
- 4:15 PM—Musical Aviators Orch. KVI KOL KFRC
- 5:15 PM—U. S. Marine Band KDYL KOL KFRC KFPY
- 5:30 PM—Toscha Seidel and Concert Orchestra KDYL, KFRC
- 6:00 PM—Gold Medal Fast Freight KLZ KDYL KOL KOIN KHJ KFRC KFBK KMJ
- 8:00 PM—MJB Coffee Program KLZ KDYL KVI KOL KFPY KOIN KHJ KFRC
- 8:30 PM—California Melodies, orchestra, Biltmore Trio, soloists, and guest stars KLZ KDYL

THURSDAY

- 5:45 AM—Morning Minstrels KDYL
- 6:00 AM—Something for Everyone KDYL
- 9:00 AM—Paul Tremaine and his Yoeng's Restaurant Orchestra KHJ KFRC KLZ KDYL KOL
- 11:30 AM—American School of the Air, "Schubert" KLZ KDYL KVI KHJ KFRC
- 12:00 Noon—United States Navy Band KLZ KDYL KVI KOL KHJ
- 1:00 PM—Asbury Park Casino Orchestra, dance music KLZ KDYL KVI KFRC
- 1:30 PM—Melody Magic KLZ KDYL KVI KFPY KFRC
- 2:30 PM—Bert Lown and his Biltmore Orchestra KLZ KDYL
- 3:00 PM—Paul Tremaine's Orch KLZ KVI KOL KFRC
- 3:30 PM—Pancho and His Orch. KLZ KFPY
- 3:45 PM—Tony's Scrap Book KLZ KOL KFRC KFPY KHJ
- 4:30 PM—Voice of Columbia KVI KFPY KDYL
- 6:00 PM—Savino Tone Pictures KLZ KDYL KFPY KHJ
- 7:00 PM—The Lutheran Hour—Dr. Walter A. Maier, large choir and organist KLZ KDYL KOL KOIN KHJ KFRC
- 8:00 PM—Ben Bernie and his Orchestra, KLZ KDYL
- 9:00 PM—Folgeria comic opera of the air KDYL KVI KOL KFPY KOIN KHJ KFRC

FRIDAY

- 6:00 AM—Something for Everyone KDYL
- 6:30 AM—Morning Moods KDYL
- 9:15 AM—Paul Tremaine's Orch. KLZ KDYL KLZ KVI KFPY
- 11:00 AM—Columbia Artists Recital KLZ KVI KFRC
- 11:30 AM—American School of the Air KLZ KDYL KVI KOL KOIN KHJ KFRC
- 12:00 Noon—U. S. Marine Band Concert KLZ KDYL KVI KOL
- 12:45 PM—Columbia Educational Features KLZ KDYL KVI
- 1:00 PM—Curtis Institute of Music KLZ KDYL KVI KOL KFRC
- 1:45 PM—Rhythm Ramblers KDYL KVI KFRC KLZ
- 2:00 PM—Light Opera Gems KLZ KDYL
- 2:45 PM—Ebony Twins, piano duo KDYL
- 3:00 PM—Winegar's Barn Orch. KLZ KDYL
- 4:15 PM—Morton Downey KVI KFPY KHJ
- 4:15 PM—Howard's Lanin's St. Moritz Orchestra KLZ KOL KFPY KFRC
- 5:15 PM—Grand Opera Miniatures KDYL KFPY KOIN KHJ KFRC
- 7:00 PM—Columbia Male Chorus KLZ KDYL KFPY
- 7:30 PM—Nit-Wit Hour KDYL
- 8:30 PM—Romanelli and his King Edward Orchestra from Toronto, dance music KLZ KDYL

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DON'T FAIL TO SEE PAGE 28 FOR STATION IDENTIFICATION OF WESTERN STATIONS!

SATURDAY

- 6:00 AM—Something for Everyone, music, news, humor, poetry, etc KDYL
- 6:30 AM—Morning Moods, Vincent Sorey, director KDYL
- 8:00 AM—New York Philharmonic Symphony Children's Orch. KDYL KVI KFPY KHJ
- 9:00 AM—Paul Tremaine's Orch. KLZ KDYL KVI KFPY KHJ KFRC
- 11:00 AM—Columbia Artists' Recital KLZ KVI KFPY
- 11:30 AM—Columbia Salon Orch. KLZ KDYL KVI KHJ KFPY
- 12:00 Noon—The Four Clubmen KLZ KDYL KVI KOL KFPY
- 12:30 PM—Saturday Syncopators KLZ KDYL KVI KOL KFPY KHJ
- 1:00 PM—Ann Leaf at the Organ KLZ KDYL KVI KOL KFPY KHJ KFRC
- 1:30 PM—Spanish Serenade, Vincent Sorey and his Orchestra KLZ KDYL KVI KOL
- 3:00 PM—Morton Downey and Orch. KLZ KDYL KHJ KVI KFPY
- 3:45 PM—Columbia Educational Features KLZ KVI KOL
- 4:00 PM—Morton Downey and Orch. KVI KFPY KHJ
- 5:30 PM—Fletcher Henderson and His Orch KLZ KDYL KHJ KFRC
- 6:30 PM—Columbia Educational features KLZ KDYL KFPY KHJ KFRC
- 7:00 PM—Hank Simmons' Show Boat KLZ KDYL KHJ KFRC
- 8:00 PM—Jack Denny and his Mt. Royal Orchestra from Montreal, dance music KLZ KDYL
- 8:30—Guy Lombardo and his Royal Canadians, dance music KLZ KDYL

**UNITED BROADCASTING CO., Ltd.
SUNDAY**

- 8:00 AM—Bill Sharples and His Gang. KVOS KXA KXL KMED KORE KTAB KTM KGB
- 8:30 AM—Zoro the Astrologist. KXA KXL KMED KORE KTAB KGER
- 7:00 PM—Calendar of the Air. KVOS KXA KXL KORE KTAB KGB
- 7:30 PM—Sunday Serenade. KVOS KXL KGB
- 8:00 PM—Brick English's Orchestra. KVOS KFWB KGB
- 8:30 PM—Album of Familiar Faces KVOS KGB KFWB KTM KXL
- 9:00 PM—On Parade. KVOS KXA KMED KORE KFWB KGB KXL
- 9:30 PM—Traumerei. KVOS KXA KXL KMED KORE KGB KGER
- 10:00 PM—Hughespaper of the Air KVOS KXA KXL KMED KORE KGB KGER

MONDAY

- 8:00 AM—Bill Sharples and His Gang. KVOS KXA KXL KMED KORE KFWB KGB KTAB
- 8:30 AM—Zoro the Astrologist. KXA KXL KORE KMED KTAB KGER
- 9:00 AM—Modern Girl Philosopher KXA KXL KMED KORE KGER
- 7:00 PM—Calendar of the Air KVOS KXA KXL KMED KORE KTAB KGB
- 7:30 PM—The Hoofers KVOS KXA KXL KMED KORE KGB KGER
- 7:45 PM—Novelty KVOS KXA KXL KMED KTAB KORE KGB KGER
- 8:00 PM—Long Beach Municipal Band KVOS KXA KXL KMED KTAB KGB
- 8:30 PM—Dramatic Program KVOS KXA KXL KMED KORE KTAB KFWB KGB
- 9:00 PM—Musical Gems KVOS KXA KMED KORE KTAB KFWB KGB
- 10:00 PM—Hughespaper of the Air KVOS KXA KMED KORE KTAB KFWB KGB

TUESDAY

- 8:00 AM—Bill Sharples and His Gang. KVOS KXA KXL KMED KORE KTAB KTM KGB
- 8:30 AM—Zoro the Astrologist. KXA KXL KORE KMED KTAB KGER
- 9:00 AM—Modern Girl Philosopher KXA KXL KMED KORE

- 7:00 PM—Calendar of the Air KVOS KXA KXL KORE KGB KMED
- 7:30 PM—The Hoofers KXA KXL KMED KORE KGB KGER
- 7:45 PM—Novelty Musical KVOS KXA KXL KORE KMED KTAB KFWB KGB
- 8:00 PM—Hi-Way Highlights KTM KTAB KGB
- 8:30 PM—Dramatic Program KVOS KXA KXL KMED KORE KFWB KGB KGER
- 9:00 PM—Phantoms of Broadway KVOS KXA KXL KMED KORE KGB KGER
- 10:00 PM—Hughespaper of the Air KVOS KXA KXL KMED KORE KGER KGB

WEDNESDAY

- 8:00 AM—Bill Sharples and His Gang. KVOS KXA KXL KMED KORE KTAB KTM KGB
- 8:30 AM—Zoro the Astrologist. KXA KXL KORE KMED KTAB KGER
- 9:00 AM—Modern Girl Philosopher KXA KXL KORE KGB KMED
- 7:00 PM—Calendar of the Air KVOS KXA KXL KMED KORE KTAB KGB
- 7:30 PM—The Hoofers KVOS KXA KXL KMED KTAB KORE KGB KGER
- 7:45 PM—Novelty KVOS KXA KXL KMED KTAB KORE KGB KGER
- 8:00 PM—Long Beach Municipal Band KVOS KXA KXL KORE KMED KTAB KGB KTM KGER
- 8:30 PM—Album of Familiar Faces KVOS KXA KXL KMED KORE KTAB KGB KGER
- 9:00 PM—Musical Contrasts KVOS KXA KMED KORE KTAB KFWB KGB
- 9:30 PM—Land of Dreams KVOS KXA KMED KORE KTAB KGB KGER
- 10:00 PM—Hughespaper of the Air KVOS KXA KMED KORE KTAB KGB KGER

THURSDAY

- 8:00 AM—Bill Sharples and His Gang. KVOS KXA KXL KMED KORE KTM KTAB KGB
- 8:30 AM—Zoro the Astrologist. KXA KXL KORE KMED KTAB KGER
- 9:00 AM—Modern Girl Philosopher KXA KXL KORE KGB KMED
- 7:00 PM—Calendar of the Air KVOS KXA KXL KMED KORE KTAB KGB
- 7:30 PM—The Hoofers KXA KXL KMED KORE KGB KGER
- 7:45 PM—Musical Novelty KVOS KXA KXL KORE KGB KFWB KGER
- 8:00 PM—Boris Karmarenko KVOS KXA KXL KTAB KTM KGB KORE
- 8:30 PM—The Crystal and the Press KTAB KXL KXA KGB KFWB KVOS KORE KMED
- 9:00 PM—Dancing Strings KVOS KXL KXA KMED KORE KTAB KFWB KGB
- 9:30 PM—Musical Paintings KVOS KXL KMED KORE KTAB KFWB KGB KXA KGER
- 10:00 PM—Hughespaper of the Air KVOS KXA KMED KORE KTAB KGB KFWB KXL KGER

FRIDAY

- 8:00 AM—Bill Sharples and His Gang. KVOS KXA KXL KMED KORE KTAB KTM KGB
- 8:30 AM—Zoro the Astrologist. KXA KXL KORE KMED KTAB KGER
- 9:00 PM—Modern Girl Philosopher KXA KXL KORE KGB KMED
- 7:00 PM—Calendar of the Air KVOS KXA KXL KMED KORE KTAB KGB
- 7:30 PM—The Hoofers KVOS KXA KXL KMED KORE KGB KGER
- 7:45 PM—Novelty KVOS KXA KXL KMED KTAB KORE KGB KGER
- 8:00 PM—High-Way Highlights KTM KTAB KGB KXL
- 8:30 PM—Harrison Hargraves KVOS KXA KXL KMED KTAB KGB KFWB KORE
- 9:00 PM—Venetian Nights KVOS KXA KXL KMED KTAB KFWB KGB

- 9:30 PM—Jimmy Bittick's Town House Orchestra KVOS KXA KXL KMED KTAB KGB KGER
- 10:00 PM—Hughespaper of the Air KVOS KXA KXL KMED KTAB KGB KGER

SATURDAY

- 8:00 AM—Bill Sharples and His Gang. KVOS KXA KXL KMED KORE KFWB KGB KTAB
- 8:30 AM—Zoro the Astrologist. KXA KXL KORE KMED KTAB KGER
- 9:00 AM—Modern Girl Philosopher KXA KXL KORE KGB KMED
- 7:00 PM—Calendar of the Air KVOS KXA KXL KMED KORE KTAB KGB
- 7:30 PM—The Hoofers KXA KXL KMED KORE KTAB KGB KGER
- 7:45 PM—English Gibson Orchestra KVOS KXA KXL KORE KMED KFWB KGB KGER
- 8:00 PM—Ray Martinez and His Tango Orchestra KVOS KXA KXL KMED KORE KTAB KTM KGB
- 9:00 PM—Jimmy Bittick's Town House Orchestra KVOS KXA KXL KMED KORE KTAB KGB KGER
- 10:00 PM—Hughespaper of the Air KVOS KXA KMED KORE KTAB KGB KXL KGER

(Continued from Page 17)

Mr. Wilson is next.

"Don, you'll have to read up on Einstein. We're broadcasting a banquet tonight from the University Club. He's going to speak, and you'll have to ad lib for some time."

"Holy cats! Einstein? How can I? I can't even understand my stub-book."

"Well, read up on him. The banquet starts at seven."

"But I've been working since three this morning!"

"Can't help it. We're short-handed."

"Can't Mr. Rodriguez write something about Einstein?"

"He's not here."

"Is he ever here?"

—o—

Mr. Rodriguez is miraculously found, and persuaded by guileful flattery to write material for both symphony and Einstein. So he prepares some acceptable and non-committal phrasery about the Coriolan overture and the shifting of the infra-red rays.

But no mention is made of the infra-red rays at the banquet and the symphony conductor decides at the last minute to play the Egmont overture.

The announcers, both in a state of nervous collapse, are compelled to extemporize. Being gentlemen of infinite resource and sagacity, however, they acquit themselves nobly.

So, in spite of the exhausting requirements of the day, of which the above is only a partial picture, they both leave the studios at midnight, conscious of duty well performed. As they pass out of the elevator, they hear two orchestral players lamenting their own fate.

"My Gawd, Bill—what a life! Rehearsing since nine this morning. And then getting bawled out because that damn' tenor can't count up to four. And then missing supper!"

"I know. 'S tough. I often wish I was an announcer. Nothing to do but sit on your shoulder-blades all day long reading magazines and once in a while wake up to say, 'This is KECA, Earle C. Anthony, Inc., distributor in California of Packard motor cars.' O boy, what a life!"

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Byrd To Broadcast

Rear-Admiral Richard E. Byrd will be the principal speaker on a program presented by the National Education Association over WABC and other stations of the Columbia Broadcasting System at 5:30 p. m., Monday, February 23. The meeting from which the explorer's address is to be broadcast will be held in the main auditorium of the Masonic Temple in Detroit.

Other speakers will be Norman R. Crozier, president, Department of Superintendence of the National Education Association; Gilbert Grosvenor, president of the National Geographic Society, and S. D. Shankland, executive secretary of the Department of Superintendence.

A musical program will be provided by organizations drawn from the public schools of Detroit.

* * *

Best Wishes . . . Robert Hurd!

Sincere wishes for a speedy recovery are extended to Robert Hurd, KFI-KECA tenor, who has been ill for some time with complications resulting from a throat operation. As we go to press, the Program Department of KFI assures us that Mr. Hurd is improving rapidly and we hope that the time is not far distant when the radio audience will again be enjoying Mr. Hurd's concerts.

* * *

If one expects to see wireless masts, great steel affairs almost brushing the clouds, as at Arlington, Va., they will be disappointed when approaching Station KDKA, which houses the most powerful radio equipment in the world. The masts used for the long wave transmission are five in number, arranged in circular form, and look like over-grown wooden telegraph poles. Wood is used because it does not absorb the current, as does steel.



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Radio Row

THE OFFICE BOY SEZ:

Folks; meet two of our veteran radio impresarios.

Yes, sir, folks The Not-Good-But-Loud Rag-Time Revue is about to be perpetrated right here before your very ears! What's the first one on the list, Jack? Alright, Let's Go! "When You Wore a Tulip and I Wore a Big Red Rose." Not Good, but LOUD!

And here's the debonair originator of this famous program and even more famous slogan. Bill Ray, in person, now busily and efficiently managing KGER in Long Beach. Bill's most engaging feature over the ether is a youthful enthusiasm which instantly takes hold of his audience. Don't be misled by all this youthful talk. Bill talks young, he dresses young and he IS young, but in spite of all that, he is one of California's veteran announcers. Years ago he used to help Jerry King keep KFWB going smoothly and about a year ago, C. Merywin Dobyms, owner of KGER, found Bill and gave him his big break. How do you like Bill's natty suit, jaunty cane, and general appearance of just being about to take off into a neat bit of dancing?

* * *



HaLO . . . dear EVERYBODY, EVERYWHERE! KFWO on the air and Lawrence Mott greeting you from Santa Catalina Island, that dee-LIGHTFUL little isle in the emerald green Pacific Ocean! . . . EVERYBODY HAPPY this GLORIOUS morning??? The St. Catherine Hotel Concert Orchestra will now entertain you, dear people, with a charming hour of concert music . . . After this SPLENDID program, I have a REAL surprise for for ye . . . Wasn't that a MARVELOUS program, folks?? and now . . . for the SURPRIZE! I have my big Magnaformer Super-heterodyne (adv.) all tuned up . . . and WE, all my DEAR Listeners and I,

are going to TOUR the country by AIR!! We will pick up the distant stations on my POWERFUL set and re-broadcast them over KFWO for your entertainment . . . Now listen ye! HERE'S KOA, DENVER . . . Now Chicago, WGN . . . and now KDKA, East Pittsburgh! Think of it, my dear friends! The marvel of radio!

"Them were the days" when the jolly Major's cheery greeting from the Sunshine Isle made your day a success.

Looking Backward

With R. B. Yale

NOT SO LONG AGO:

Dave Saranoff was a wireless operator on a tramp steamer. F. A. D. Andrea of Fada fame made Swiss watches.

E. T. Cunningham manufactured the first audions with pigtales in a small shop in 'Frisco.

Charles Freshman was a big shot in the Florida real estate boom.

W. E. and W. H. Jackson, purveyors of radio in San Francisco, sold sewing machines and parts.

Mr. Freed of Pacific Radio Supply sold bicycle supplies, spokes and coaster brakes.

John G. Rapp, who made Kolster sales galore, used to make that good old Ranier beer.

Lucas was one time chief technician of Angelus Temple radio station.

Tom Lambert held the only independent RCA license in this part of the country.

Cloyd Marshall was factory representative for Crosley.

George Lane was the head man in this territory for Kennedy.

The Federal, made in Buffalo, was the most popular crystal set.

Harkess and Flewelling were the best known circuit developers.

Bakelite, the only material for panel use—if not used, look at the losses.

Aeroplane cloth speakers were hot stuff.

Television apparatus was being sold to the public.

Public address systems were a novelty and stopped the boys on the street.

Freeman Lang was just a good radio technician.

Les Taufenbach was a first-class ham operator.

Ken Ormiston went to sea in ships and was called "Sparks."

No one had ever heard of a midget set—"Happy Days!" Sam Van Royne, who established Radio Supply Company, was selling auto parts and accessories.

The Union Hardware Company was one of the big radio jobbers.

Fritz Falck cluttered up the country with battery chargers of his own manufacture.

Edgcomb ran the Wireless Shop and owned all the sheet bakelite in this part of the country.

Erla made the best fixed crystal detectors.

Console radio sets were being sold at from \$275.00 up.

Atwater-Kent made swell variometers and variocouplers instead of radio sets.

No one had ever heard a chain broadcast program.

Folks really used to listen to sets playing in the dealer's doorway.

Screen-Grid tubes were only used in England and Europe.

Two or three hundred feet of wire made a good antenna.

O. K. Smith ran Broadway's main exclusive radio store.

The Major's hearty voice, which greeted us over his own KFWO some three years ago and lately over metropolitan stations, simply radiates happiness and enthusiasm. The Major is a world traveler, an author of numerous books, veteran of several wars in which his conduct has been nothing but honorable as attested by the decorations on his manly chest and an all-around good chap and sportsman. Major Mott has been making a gallant fight against ill-health the last few months and we wish him the greatest success and a speedy return to the microphone.

RADIO GOINGS ON AROUND TOWN

The Jackson-Bell Company held a sales convention at their factory, located at 1682 West Washington boulevard during the third week in January. The distributors from the East, South, Middle West, Inter-Mountain states and the Northwest were in attendance. All expressed pleasure at the volume of business procured this last year and expected a larger turn-over during 1931.



The photographer was fortunate enough to catch a few of them when he called one morning, so snapped the picture you see on this page. Reading from left to right are Messrs. Herbert Bell, president of the company; B. Stark, Texas distributor; R. S. Shelley, Michigan, Iowa and Nebraska distributor; Howard D. Thomas, Oregon and Washington distributor; R. Bell, an officer of the company and McCubbin, Utah distributor.

* * *

Electrad, Inc., announced the addition of two newly perfected power amplifiers utilizing the revolutionary Loftin-White Direct-Coupled System, which with their Model A-245, completes a line of Amplifiers suitable for the present-day requirements of sound amplification of all types.

These Electrad Direct-Coupled Amplifiers are readily adaptable to all usual requirements of sound amplification from microphones, phonograph pickups, radio tuners—in fact, for all types of amplification at audio frequencies.

Electrad, Inc., will be glad to supply additional technical information on request to their engineering department at 175 Varick street, New York, N. Y.

* * *

William Hitt returned last month from an extended trip throughout the East where he visited numerous factories which he represents in California. He stated that he had returned with samples of new products from both Eby and Aerovox and believes that he will be of even greater assistance to the local manufacturers this season in supplying parts necessary to their new model midgets.

* * *

The offices of the Radio and Music Trades Association of Southern California were moved last month from the Commercial Exchange building to the Chamber of Commerce building, located at 12th and Broadway. They now have a very fine suite on the second floor and Mr. Farquharson, the Secretary, hopes that all members will come up and see him in room 234

The Radio Manufacturers' and Agents' Association, presided over by Lombard Smith held their semi-monthly luncheon meeting at the Metropole Cafe, Friday, January 9th. There were forty-two in attendance, which clearly demonstrated the interest in the subject to be discussed. "Will it be to the interest of the public and the trade to introduce at this time the new Super-Heterodyne midget"—A red-hot subject, to be handled with care.

Most of the prominent midget manufacturers were there and the consensus of opinion seemed to be—now is the time to introduce the new models, especially if Los Angeles is to remain the center of the midget manufacturing business.

It was an excellent meeting and we will look forward to many more of them during the coming year.

* * *

The Polymet Manufacturing Corporation of New York, manufacturers of high quality condensers, transformers, volume controls and resistors are now distributing their new 1931 catalogue. This catalogue is of special interest to dealers, service men and radio set manufacturers as it not only gives all the specifications of the different units, but contains dimensional drawings of them.

* * *

Among the new faces along Radio Row is that of A. J. Carlson, representing the United American Bosch Corporation, who has transferred his activities to the Southern California territory, working in conjunction with Collins-Lane Company, Bosch Radio distributors.

Carl, as he is better known to the radio trade, celebrates something of a home-coming, in his return to Southern California, as he was formerly a radio retailer in Los Angeles, and at one time manager of the Radio Department of Parmalee-Dohrman.



George Lane

George Lane, manager of Collins-Lane Company, reports that the demand for Bosch radio receivers is keeping up and with the sales assistance of Mr. Carlson they expect to greatly expand their sales organization.

* * *

Among those who were absent from Los Angeles last month was David Marshank of the Marshank Sales Company, 224 East 16th street. Mr. Marshank spent a week in San Francisco and neighboring cities visiting the manufacturers and the dealers.

RADIO GOINGS ON AROUND TOWN

Optimism regarding the 1931 outlook for radio business was the key-word of sales talks at the four-day annual convention of district managers and salesmen of E. T. Cunningham, Inc., radio tube company, held here this past month (Jan. 9-13.)

At the meeting which was presided over by C. R. King, vice-president and assistant general manager, was gathered the entire sales personnel, including district managers from the company's main distributing centers.



Above is shown some of the leading figures of the Cunningham convention. They are, left to right, as follows: Frank M. Burns, general sales manager, N. Y.; Harry Goodwin, district sales manager, Boston; H. A. Edwards, district sales manager, Minneapolis; E. R. Haines, Eastern district sales manager, N. Y.; F. H. Larabee, assistant district sales manager Western district, Chicago; J. W. Cocke, district sales manager, Dallas; C. R. King, vice-president and assistant general manager, New York; W. R. Cunningham, district sales manager, Philadelphia; H. E. Harding, district sales manager, Chicago; L. F. Randolph, assistant general sales manager, New York; E. Lloyd Sutton, district sales manager San Francisco; P. M. Jefferys, district sales manager, Atlanta.

* * *

Charles Kierulff of Kierulff and Ravenscroft, California and Arizona distributors for Crosley Radio Receivers, attended the Crosley distributors' meeting the latter part of last month.

Mr. Kierulff believes that the new Crosley merchandise will find a great deal of favor in the eyes of the trade and public in this territory.

* * *

Messrs. Hoffman and Dean, formerly of Prest & Dean, Long Beach, have opened a retail store of their own at 1814 Atlantic avenue, Long Beach. Their new establishment is up-to-date in every respect with the latest type testing and repair equipment. They are featuring Majestic and General Electric sets. All their friends wish them success in their new venture.

* * *

Frank Davison, head of the Davison-Haynes Manufacturing Company of 717 South Mateo street, Los Angeles, has been traveling almost constantly for the last month. He took a flying trip to San Francisco where he booked many orders for the new 9-tube super-heterodyne receiver which they have just introduced.

When this was written Mr. Davison was on his way to Portland and Seattle and will probably visit the important Inter-Mountain cities before returning to Los Angeles. He reported that the new models were received enthusiastically by the trade wherever they were demonstrated and that it looks as though 1931 will be a banner year for the Angelus radio.

A very enthusiastic sales meeting was held at the Commercial Club, Thursday, January 29th. Mr. Yale, president of the Yale Radio Electric Company, distributor in Southern California for Apex and Steinite, introduced the new models to the assembled dealer guests.

After inspecting the new models everyone expressed the opinion that they would meet with instant approval by the public. A fine buffet supper was served.

* * *

Messrs. George Stevenson and James Hescer, long connected with the radio industry of Southern California, have opened a radio department for the Electric Supply Company, of 1801 South Hill street. They will make an announcement in the very near future as to the radio line which they will feature.

* * *

Walter Fagan, president of Pacific Wholesale, Inc., Southern California and Arizona Distributors for Sparton radio receivers, just recently returned from a visit to the Sparks-Withington factory at Jackson, Michigan. Mr. Fagan was bubbling over with enthusiasm about the New Sparton equipment and believes that 1931 will be a real Sparton year.

* * *

While most business men are complaining about business depression and the lack of buying on the part of the public, Mr. Nazareth, head of the Universal Music Company, not only keeps on doing a good business, but opens up another retail store.



The picture shown on this page was taken of the display room in his new establishment, located at 1466 W. Santa Barbara avenue, Los Angeles. Universal Music Company is featuring several nationally known lines of radio receivers and two or three locally-built midgets. Their main store is located at 1632 S. Maple avenue.

* * *

Instead of the regular Breakfast Club meeting which is usually held at 8 o'clock on the first Thursday of each month the Radio and Music Trades Association will hold a dinner dance in the Los Angeles Realty Board building on Thursday evening, February 5th. The officers are looking for a large turn-out at this meeting.

Of Necessity!

Prior to and including the Feb. 1st license period scores of stations have been shifted.

Many have been discontinued; others started.

The only way for Western listeners to get all this information and more is in the

1931 SPRING RADIO CALL BOOK

PUBLISHED BY

RADIO DOINGS

The final results of all license hearings ending February 1st will be included in the complete, triple-indexed logs of stations.

Television broadcasters, short wave, Canadian, Mexican and all other foreign stations of the world are presented to you in neat, convenient and accurate form.

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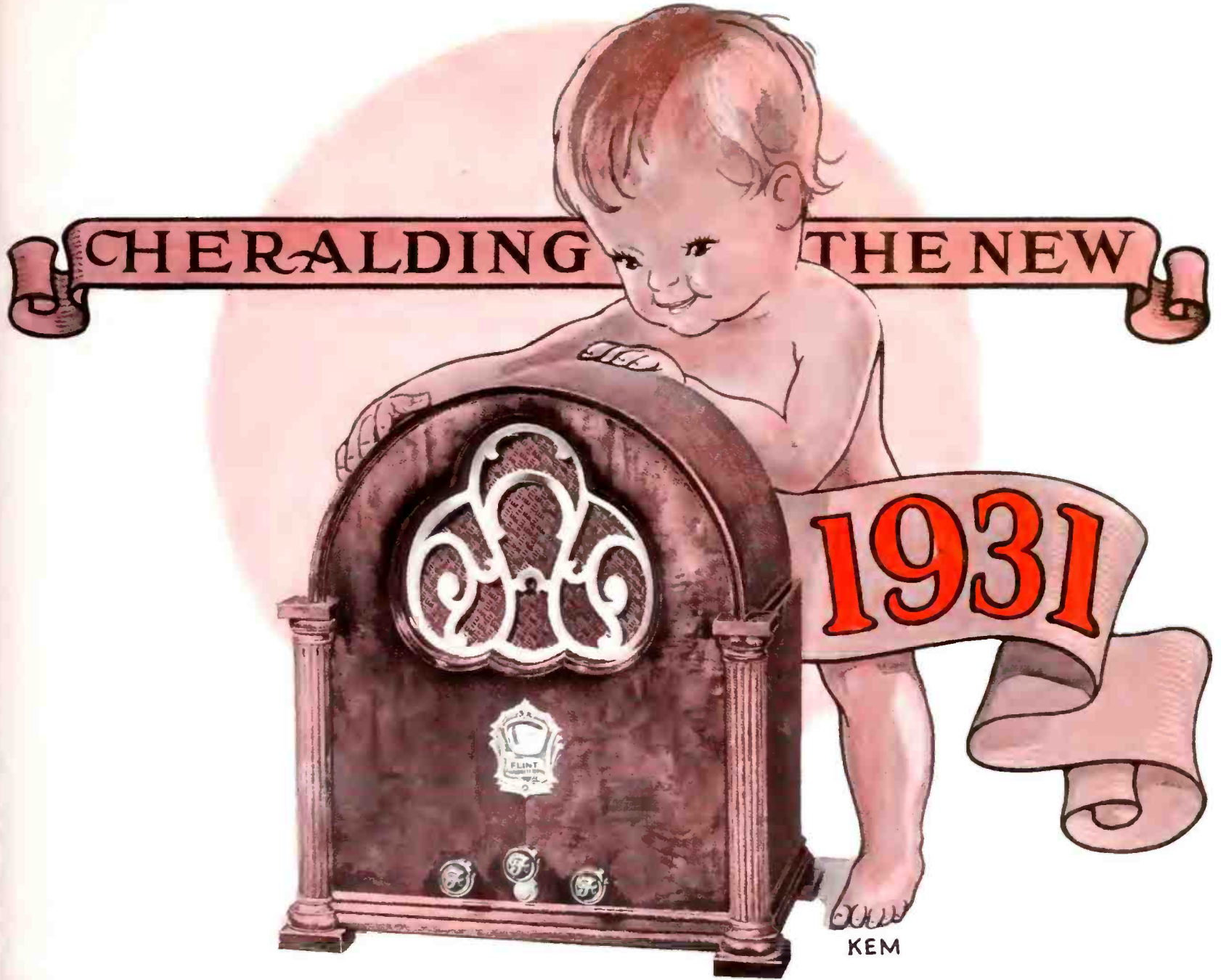
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RADIO DOINGS

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LOS ANGELES

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SAN FRANCISCO

Dealers are urged to place their orders now for early delivery



FLINT SUPERHETERODYNE

L I C E N S E D B Y R . C . A .

Completely Equipped with Eight Matched Tubes

R . C . A . R A D I O T R O N S O R C U N N I N G H A M S

PLUS every refinement of the highest priced radio
 ... tone control ... local and distance switch ... Vernier dial ...
 phonograph connection ... microphone connection ... dynamic
 speaker and 45's in push-pull.

\$79⁵⁰
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1931 - 1932

MODELS

Brand New Apex Radio



New in design, every set built since January 1st, 1931. Not a re-hash of old models.

Values that are unparalleled in radio history!

To the left: Illustrating Model 32B. Full sized console—not a midget.

Unexcelled for beauty. Triple screen grid, power detector, four tuned circuits, real sensitivity and fidelity of tone. Two 245 tubes in push pull amplification. Seven tubes in all.

\$87⁵⁰

Complete With Tubes



To the right: Illustrating Model 32A Table Set. Full size table type, self contained, radio receiver, chassis and circuit identically the same as Model 32B. All sets equipped with new hi-gain screen grid tubes and electro dynamic speakers.

\$69⁵⁰

Complete With Tubes

Apex Gloritone Midget Set, \$49.95 Complete with Tubes

Exclusive Wholesale Distributor

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