

# RADIO IS STABLE AID TO FARMERS

Investigation of the ways that radio is aiding agriculture in America, recently made for Atwater Kent of Philadelphia, threw light on the problem of how to keep the young folks down on the farm.

Farmers in many states, after stating that they use their apparatus to receive weather and market reports, added that "it keeps the young folks at home."

The chief contribution of radio to the farm, however, the survey proved, is daily distribution of agricultural information. Gardens have been saved by radio warnings of coming frost. Splendid profits on crops have been netted, because the radio announced when the market was paying highest prices. In 1,260 townships of Iowa, farm women are studying home topics over the radio. In applying radio to his daily work, the farmer is far ahead of the city dweller, the investigation showed.

Good preaching and church choir music are other gifts of the radio much appreciated in rural regions. Aged persons especially reported that they tune in to hear sermons of the nation's eloquent clergymen. One Kansas farmer gave this typical reply:

"My daughter Fanny and the young man who is keeping company with her have been listening to our radio for the last six Saturday nights. They say it beats any entertainment they can get elsewhere. 'What do we like to hear? Old-fashioned songs and fiddling concerts every time, and the big band concerts, too.'"

### BEHIND THE MICROPHONE

When Dolly Macdonald sang for her radio tryout she was the most nervous girl the KFI judges had ever seen, in spite of which she made a very favorable impression and was booked for the 10 to 11 program the following night. Her log for the following night would read as follows: "9:00, left home for KFI; 9:05, my sedan wrecked by speeding car, which turned over twice; 9:20, police station to report; 9:30, police car took me to KFI; 9:45 KFI elevator stuck; 9:55, KFI elevator unstuck; 9:56, music lost; 9:57, accompanist faints; 9:58, music found; 10, sang two songs and accompanied myself." The moral seems to be, when singing for a radio station, leave home an hour before scheduled. When Miss Macdonald was complimented on her nerve, she said: "After trying out in front of that instrument of torture they call a microphone, nothing will ever have any effect on me again."

### ACROSS THE ATLANTIC

International broadcast from England and Germany are expected to reach this country for rebroadcasting soon, according to David Sarnoff of the R. C. A. In exchange he expects to transmit a suitable program abroad. An R. C. A. station at Belfast, Me., is now experimenting with

broadcast reception and retransmission of European signals. Already they hear Daventry's 40 KW set on 1600 meters, but weakly. Hope to transmit and retransmit over the Atlantic this year is expressed by R. C. A.

### AUDIO AMPLIFICATION

Much has been written the past few months of the advantages and disadvantages of resistance-coupled audio frequency amplification, and generally it has been agreed that the quality obtained from such an amplifier is an improvement over that emanating from most transformer coupled amplifiers. Describing a new receiver in the Dec. Radio Broadcast magazine, Glen H. Browning of Browning-Drake fame, advocates the use of choke or impedance-coupled stages for the audio amplification.

### Station Control Is Solution of Radios

WASHINGTON, Nov. 28.—From out of a confusing mass of resolutions, proposals, conferences and suggestions, presented, talked of and discussed at the Fourth National Radio conference, which was held in Washington beginning on November 9, the following definite decisions were made:

No more broadcasting stations will be allowed to go on the air until there are suitable channels released. No more stations will be forced to divide time or wave lengths. The broadcasting band will remain between 262 and 545 meters.

The manufacture of radiating or regenerative receivers was condemned by the conference. Spark sets, used by amateurs and the navy were condemned. Five years to be the duration of a station license.

Government censorship was rigidly opposed. Direct methods of advertising in broadcasting were condemned. Designations of stations as Class A and Class B to be discontinued. Speculation in wave lengths was condemned.

Rebroadcasting of programs without permission of the station will be prohibited. Amateur wave assignments were maintained but amateurs are to be warned to strictly observe silent hours.

Specific legislation from congress demanded. Appeals from the radio decisions of the secretary of commerce to be provided for.

No arbitrary power to be vested in Secretary Hoover. A special radio bill embodying all recommendations to be presented to congress at its next session. When no attempt to draw up a radio bill was made, a number of salient features were outlined and will be presented to congress through Chairman White of the house radio committee. These recommendations covered licensing of stations, opposed a monopoly in radio communication, and suggested an appeal of the secretary of commerce decisions.

## Education Is Cure For Interference

WASHINGTON, D. C., Nov. 28.—Throughout the whole conference the keynote was "service to the radio public." The manufacture and sale of radiating or regenerative receivers was opposed by the conference, it being pointed out that although control of some types of oscillating receivers was possible and that education was needed, the committee on interference was anxious at some early date to prevent the further manufacture and use of this type of listening device.

While opposing this drastic action, Powell Crosley of Crosley company, suggested that there were three types of receivers which might cause such interference, he was willing to let the resolution stand. Arc apparatus, it was held, might be further improved and the use of high power only when necessary was advocated.

An hour and a half of music, Tuesday night, December 1, between 8 and 9:30 o'clock, will be broadcast by KGO Little Symphony orchestra, under the baton of Carl Rhodohamel. Three guest artists will assist the orchestra. Arthur S. Garbett, musical interpretative writer; Ruth Waterman, contralto; and Josephine Holub, violinist.

To find the positive and negative posts on a storage battery, dip the wires in a diluted solution of salt in water. The most bubbles will form on the wire attached to the negative terminal of the battery.

Radio listeners of the west will have their first opportunity of hearing another world-famous artist on Sunday, December 6, when Toscha Seidel, violinist, appears before the microphone of KFO, San Francisco, Calif. He will be assisted in his broadcast by Arthur Looser, pianist. The broadcast will be on the air from 9 to 10 p. m., Pacific time, and is expected to be the forerunner of similar appearances of famous musical stars in the west during the winter.

More than 550,000 farms in the United States are now equipped with radio, the department of agriculture estimates, following a nation-wide survey through county agricultural agents. A similar survey last year showed 365,000 farms on which there were sets, and in 1923 only 145,000 farms.

## Radio Program

Sunday, November 29

KPO, 425.5 Meters, Hale Bros. and Chronicle, San Francisco.—9:45 a. m., non-sectarian church service; 5 p. m., organ recital; 6 p. m., States orchestra; 6:30, 8 p. m., Palace orchestra; 8:30 p. m., Seiger orchestra.

KGO, 361 meters, General Electric, Oakland.—11 a. m., 7:30 p. m., Calvary Presbyterian church, San Francisco; 3:30 p. m., KGO Little Symphony.

KNX, 337 meters, Express, Hollywood.—10 a. m., 7 p. m., First Presbyterian church; 2 p. m., musical program; 8 p. m., Ambassador orchestra; 9 p. m., feature program.

KHJ, 405.2 meters, Times, Los Angeles.—10 a. m., sermon, Miss Annette Foster; 10:30 a. m., First M. E. church; 4 p. m., musicale; 6:30 p. m., Arcade orchestra; 7 p. m., organ recital; 8 p. m., program.

KFI, 467 meters, Earle C. Anthony, Los Angeles.—10 a. m., church federation; 4 p. m., vespers; 6:45 p. m., Father Richard's sunset weather forecast, music appreciation; 7 p. m., organ recital; 8 p. m., classic hour; 9 p. m., program; 10 p. m., Packard orchestra.

KGW, 491.5 meters, Oregonian, Portland.—10:25 a. m., First Presbyterian church; 7:45 p. m., First Church of Christ Scientist.

Monday, November 30

KFO, 423.5 Meters, Hale Brothers and Chronicle, San Francisco.—Regular features: 1 p. m., Seiger orchestra; 2:30 p. m., matinee; 3:30 p. m., children's hour, stories; 6:40 p. m., States orchestra; 7 p. m., Ceiger orchestra; 8 p. m., Ida Waldrop Night, Waldrop at the organ; 8:45 p. m., talk on exercise for children; 9 p. m., program; 10 p. m., States orchestra.

KGO, 361 meters, General Electric, Oakland.—Usual features: 10:40 a. m., class room instruction; 3 p. m., musical program; 5:30 p. m., Kiddies Klub; 6 p. m., concert; 7 p. m., news, weather, stocks, markets; 8 p. m., program.

KIX, 595 meters, Tribune, Oakland.—4 p. m., women's hour; 5 p. m., sunset matinee; 7 p. m., news;

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8 p. m., program, 9 p. m., Knights of Pythias guest night, Lake Merritt Ducks.  
KFBK, 248 meters, Bee, Kimball-Upson, Sacramento.—7:30 p. m., weather; 7:40 p. m., children's story; 8 p. m., music; 8:40 p. m., instrumental and vocal; 9 p. m., California orchestra.

KNX, 337 meters, Express, Hollywood.—Usual features: 12 m., West Coast theatres; 2 p. m., program; 4 p. m., Helen's Household Hints; 7 p. m., mirth contest; 7:30, 8, 9 p. m., programs; 10 p. m., Goodrich orchestra; 11 p. m., West's orchestra.

KHJ, 405.2 meters, Times, Los Angeles.—Usual features: 12 m., Arcade orchestra; 12:30 p. m., program.

KFI, 467 meters, Earle C. Anthony, Los Angeles.—10:45 a. m., cooking talk; 5:30 p. m., matinee; 7 p. m., vocal program; 8 p. m., Pasadena Artists Students club; 9 p. m., Pryor Moore orchestra; 10 p. m., program.

KGW, 491.5 meters, Oregonian, Portland.—7:15 a. m., physical culture; 10:30 a. m., music, weather, news; 12:30 p. m., Rose City trio; 6 p. m., concert; 7:30 p. m., weather, markets, news, sports; 9 p. m., p. m., program; 6:45 p. m., orchestra; 8:15 p. m., music; 8:45 p. m., Goodrich orchestra.

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er, markets, news, sports; 9 p. m., p. m., program; 6:45 p. m., orchestra; 8:15 p. m., music; 8:45 p. m., Goodrich orchestra.

KFOA, 454.3 meters, Rhodes Store Seattle.—12:45 p. m., Lions club; 4 m., Goodrich orchestra.

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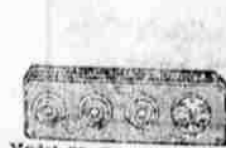
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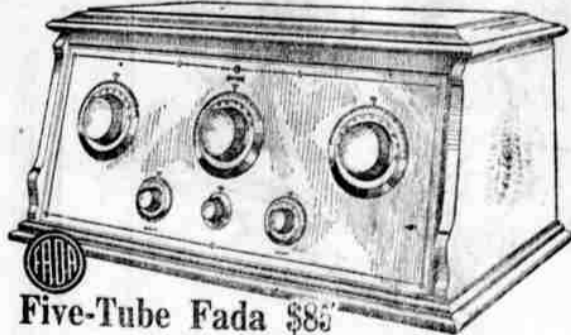
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