

RADIO PROGRAMS

Continued from Page Eleven.

Questions submitted will be answered by radio.

11:00 a. m.—Rhode Island Tuberculosis Association talk.

11:05 a. m.—Musical program.

11:15 a. m.—Radio Household Institute.

11:30 a. m.—Weather report.

11:35 a. m.—Providence Journal and Evening Bulletin news flashes.

12:00 p. m.—Democratic national convention, direct from the convention hall, Houston, Tex.

7:20 p. m.—Providence Journal and Evening Bulletin news flashes.

7:25 p. m.—Barnard Comfort Hour.

7:30 p. m.—Weather report.

8:00 p. m.—Musical program by Edward Keenan, tenor.

9:00 p. m.—Rhode Island State Board of Public Roads talk.

9:05 p. m.—Studio program under the direction of Fred Deitz, Jr., baritone.

9:55 p. m.—P. J. Cosgrove, assistant chairman of the Republican city committee, will talk on "Registration."

10:00 p. m.—Halsey-Stuart Hour.

10:30 p. m.—Correct time.

10:35 p. m.—Providence Journal and Evening Bulletin news flashes.

10:38 p. m.—Baseball scores.

10:40 a. m.—Housewives' Radio Exchange. A department devoted to Mrs. Wood on matters of household interest. Questions submitted will be answered by radio.

10:45 a. m.—Beauty talk.

10:48 a. m.—A. & P. Bureau of Home Economics.

11:00 a. m.—Musical program.

11:15 a. m.—Radio Household Institute.

11:30 a. m.—Weather report.

11:35 a. m.—Providence Journal and Evening Bulletin news flashes.

12:00 p. m.—Democratic national convention, direct from the convention hall, Houston, Tex.

8:15 p. m.—Providence Journal and Evening Bulletin news flashes.

8:20 p. m.—Baseball scores.

8:25 p. m.—Roy Partington, tenor, accompanied by Violetta Marks.

9:00 p. m.—An evening in Paris.

9:30 p. m.—Automobile Club of Rhode Island talk.

9:35 p. m.—William I. Carrigan, tenor.

10:00 p. m.—Palmolive Hour.

10:30 p. m.—Correct time.

11:00 p. m.—Providence Journal and Evening Bulletin news flashes.

11:05 p. m.—Baseball scores.

10:45 a. m.—Musical program.

11:15 a. m.—Radio Household Institute—National Broadcasting Company features.

1:05 p. m.—Providence Journal and Evening Bulletin news flashes.

1:10 p. m.—Al Williams and his orchestra.

1:30 p. m.—Weather report.

1:35 p. m.—Al Williams and his orchestra.

8:00 p. m.—Providence Journal and Evening Bulletin news flashes.

8:05 p. m.—Baseball scores.

8:10 p. m.—Thomas Cross, tenor, accompanied by Violetta Marks.

8:20 p. m.—Rhode Island Humane Education Society.

8:25 p. m.—Weather report.

8:30 p. m.—Correct time.

8:35 p. m.—Goldman band concert under the direction of Edwin Finko, conductor.

10:15 p. m.—Providence Journal and Evening Bulletin news flashes.

10:20 p. m.—Baseball scores.

WLSI—LINCOLN STUDIOS, INC.—248.

5:30 p. m.—International Bible students' program.

8:30 p. m.—Service from the Church of the Seventh Adventists.

Monday

8:00 p. m.—Official market report of the Providence Bureau of Markets, Rhode Island State Department of Agriculture.

Tuesday

7:00 p. m.—Charles Miller and his dance orchestra.

8:00 p. m.—Official market report of the Providence Bureau of Markets, Rhode Island State Department of Agriculture.

8:05 p. m.—New Victor releases.

8:30 p. m.—Mr. Murphy and his pupils.

Wednesday

7:15 p. m.—Organ recital.

8:00 p. m.—Official market report of the Providence Bureau of Markets, Rhode Island State Department of Agriculture.

8:05 p. m.—Rhode Island artists' hour.

9:05 p. m.—Home hour with the WLSI housewives.

Saturday

WFOI—FRANK CROOK, INC.—242.

Today

10:45 a. m.—Service from Central Falls Congregational Church.

Monday

2:00 p. m.—Studio program.

6:00 p. m.—Family hour.

7:00 p. m.—Baseball scores.

7:05 p. m.—To be announced.

Tuesday

2:00 p. m.—Musical program.

6:00 p. m.—Family hour.

7:00 p. m.—Baseball scores.

7:05 p. m.—Piano recital by Edith Nickerson.

Wednesday

2:00 p. m.—Studio program.

6:00 p. m.—Ernie and his Danceland Orchestra.

7:00 p. m.—Baseball scores.

7:05 p. m.—To be announced.

Thursday

2:00 p. m.—Musical program.

6:00 p. m.—Family hour.

7:00 p. m.—Baseball scores.

7:05 p. m.—To be announced.

Friday

2:00 p. m.—Studio program.

6:00 p. m.—Family hour.

7:00 p. m.—Baseball scores.

7:05 p. m.—To be announced.

Saturday

2:00 p. m.—Virginia Troubadours.

6:00 p. m.—Family hour.

7:00 p. m.—Baseball scores.

WOOT—OON'S OLYMPIA—222.

Today

1:30 p. m.—Musical program.

2:00 p. m.—Address on current events by Jacob Conn.

Monday

2:30 p. m.—Studio program.

7:30 p. m.—Blanchard's better be protected hour.

Tuesday

2:30 p. m.—Studio program.

7:30 p. m.—Anna Bar, soprano soloist, and Felix Testa, pianist.

7:50 p. m.—Faith Underwood, address on registration.

Wednesday

2:30 p. m.—Studio program.

7:30 p. m.—Arthur Gullmet in vocal selections.

8:00 p. m.—Dora Von Helwig, mezzo soprano, and Arthur Gullmet, pianist.

Thursday

2:30 p. m.—Studio program.

7:30 p. m.—Olympia radio service hour, presenting Prof. Zangar, Hindu mentalist.

Friday

2:30 p. m.—Ideal battery entertainers.

7:30 p. m.—Organ recital.

8:00 p. m.—Wesleyan Church of the Nazarene service.

Saturday

2:30 p. m.—Studio program.

7:30 p. m.—Rooney's Pioneer Entertainers.

8:00 p. m.—Louis the newboy and his harmonica orchestra.

EASTERN STATIONS

KDKA—PITTSBURGH—316.

10:45 a. m.—Correct time.

11:00 a. m.—Church service.

11:30 a. m.—Boxy and his gang.

12:00 p. m.—Correct time.

12:30 p. m.—Organ recital.

1:00 p. m.—Vesper services from Shadyside Presbyterian Church.

6:00 p. m.—Baseball scores.

6:10 p. m.—Ensemble.

7:00 p. m.—Correct time.

7:45 p. m.—Same as WJZ.

8:15 p. m.—Same as WJZ.

WBAL—BALTIMORE—288.

7:30 p. m.—Concert orchestra.

8:45 p. m.—Whitall program.

8:15 p. m.—Same as WJZ.

WBET—BOSTON—104.

1:15 p. m.—Organ recital.

WBSO—BARNSTON PARK—284.

12:00 p. m.—Midnight ministry.

10:45 a. m.—Service from the Church of the Unity.

2:00 p. m.—Same as KDKA.

3:00 p. m.—Same as WJZ.

4:00 p. m.—Same as WJZ.

5:00 p. m.—Songs of French Canada by Union Saint Jean-Baptiste d'Amérique.

7:15 p. m.—Ensemble.

7:45 p. m.—Same as WJZ.

8:45 p. m.—Same as WJZ.

10:15 p. m.—Lyric trio.

11:00 p. m.—Correct time and weather.

10:30 a. m.—Service from State Street Church.

1:30 p. m.—Radio Parish Church.

2:30 p. m.—Same as WJAR.

3:00 p. m.—Musical program.

4:00 p. m.—L. B. S. A.

5:00 p. m.—Musical program.

8:00 p. m.—Studio program.

9:00 p. m.—Same as WJAR.

WDRS—NEW HAVEN—283.

11:00 a. m.—Service from the Church of the Redeemer.

WEAF—NEW YORK—492.

1:00 p. m.—An hour of chamber music with Katherine Palmer, soprano.

2:00 p. m.—Same as WJAR.

3:00 p. m.—Same as WJAR.

4:00 p. m.—Gena Zelniska, soprano, and Wilfred Corliss, pianist.

4:30 p. m.—National string orchestra with Earl Behrman, baritone.

5:30 p. m.—Ballad songs.

6:30 p. m.—Same as WJAR.

7:00 p. m.—Hans Barth, concert pianist.

7:25 p. m.—Baseball scores.

7:30 p. m.—Same as WJAR.

8:00 p. m.—Classical trio.

8:15 p. m.—Atwater Kent hour.

8:45 p. m.—Correct time.

9:45 p. m.—Biblical drama.

WEEL—BOSTON—448.

10:45 a. m.—Service from the First Church of Christ, Scientist.

5:00 p. m.—Sam Curtis radio chat.

6:00 p. m.—University male quartet.

6:30 p. m.—Same as WJAR.

7:00 p. m.—Sessions chimes.

7:20 p. m.—News dispatches.

7:30 p. m.—Musical program.

8:00 p. m.—Singer hour of hospitality.

9:00 p. m.—Sessions chimes.

9:15 p. m.—Masterpiece pianist.

9:45 p. m.—Same as WEAF.

9:45 p. m.—Correct time.

10:15 p. m.—News dispatches.

WFI—PHILADELPHIA—408.

10:20 a. m.—Services from Arch Street Methodist Episcopal Church.

6:00 p. m.—Same as WJAR.

8:15 p. m.—Instrumental ensemble.

9:45 p. m.—Correct time.

9:45 p. m.—Same as WEAF.

WGDS—NEW YORK—349.

8:30 p. m.—Carnival Serenaders, mandolin, harp, cello, violin, Berlin, tenor.

9:30 p. m.—Evelyn Schiff, "The Wood Thrush," songs.

9:40 p. m.—String quartet.

10:10 p. m.—Evelyn Schiff, lyric coloratura soprano.

10:25 p. m.—String quartet.

10:55 p. m.—Ernest Hemby, tenor.

11:30 p. m.—Studio trio.

11:30 p. m.—Ernest Hemby, tenor.

WGR—BUFFALO—308.

10:45 a. m.—Service from Westminster Presbyterian Church.

12:00 p. m.—Correct time and weather.

3:00 p. m.—Same as WJAR.

6:00 p. m.—Same as WJAR.

7:45 p. m.—Service from Central Presbyterian Church.

9:00 p. m.—Classical trio.

9:15 p. m.—Same as WEAF.

9:45 p. m.—Correct time and weather.

WGT—SCHENECTADY—380.

10:30 a. m.—Service from First Lutheran Church.

5:30 p. m.—Same as WEAF.

6:00 p. m.—Same as WJAR.

7:00 p. m.—Same as WEAF.

7:25 p. m.—Baseball scores.

7:30 p. m.—Same as WJAR.

8:00 p. m.—Same as WEAF.

8:15 p. m.—Same as WEAF.

8:45 p. m.—Same as WEAF.

10:15 p. m.—Correct time.

WHAM—ROCHESTER—280.

12:00 p. m.—Morning church service.

3:00 p. m.—Correct time.

4:00 p. m.—Friendly hour.

4:30 p. m.—Popular concert.

5:00 p. m.—Same as WJAR.

7:30 p. m.—Dinner concert.

8:00 p. m.—Same as WJZ.

8:45 p. m.—Same as WJZ.

9:15 p. m.—Eastman School of Music hour.

10:15 p. m.—Organ recital.

WHAP—NEW YORK—236.

8:00 p. m.—Sacred music.

8:15 p. m.—Augusta E. Euston, C. S. D., Christian Science, reading from the writings of Mary Baker Eddy, and remarks.

9:15 p. m.—Gibby Martin Huse, speaker.

9:45 p. m.—James P. B. Hyndman, speaker.

WHN—NEW YORK—398.

12:30 p. m.—Organ recital.

1:30 p. m.—The Little Bachs.

2:00 p. m.—To be announced.

3:00 p. m.—Orchestra.

4:00 p. m.—Orchestra.

5:00 p. m.—Orchestra.

6:00 p. m.—American celebrity hour.

11:00 p. m.—Organ recital.

11:30 p. m.—Orchestra.

12:00 p. m.—Orchestra.

WICC—BRIDGEPORT—245.

2:00 p. m.—Margaret Carney, mezzo solo.

2:30 p. m.—To be announced.

3:00 p. m.—Norwalk Guild.

3:30 p. m.—Dorothy O'Brien and Whispering Art.

4:00 p. m.—Jimmie Reilly's entertainers.

WIP—PHILADELPHIA—340.

10:45 a. m.—Service from Holy Trinity Church.

WJZ—NEW YORK—454.

9:00 a. m.—Children's hour.

1:00 p. m.—National concert orchestra.

2:00 p. m.—Boxy and his gang.

3:00 p. m.—Classical melody.

4:00 p. m.—Dr. Sockman's question hour.

5:00 p. m.—Twilight reveries.

6:00 p. m.—String trio, with Henry Shope, tenor.

8:25 p. m.—Baseball scores.

6:30 p. m.—Mme. Lolita Cabrera Gainsborg, concert pianist.

7:00 p. m.—Correct time.

7:00 p. m.—Majorie Horton and Cyril Pitts, with string trio.

7:30 p. m.—Sonata, Mathilde Harding and Arcadio Birkenholz.

8:00 p. m.—High spots of melody, with Leon Salathiel, bass.

8:45 p. m.—Whitall Anglo-Persians.

9:15 p. m.—Goldman band.

10:15 p. m.—Correct time.

WKWB—BUFFALO—217.

9:30 a. m.—Episcopal service.

10:45 a. m.—Public worship.

1:00 p. m.—Organ recital.

1:00 p. m.—Evangelistic service.

10:15 p. m.—Back home gospel melody hour from the studio.

WOR—NEWARK—422.

3:00 p. m.—Same as WEAN.

4:00 p. m.—Same as WEAN.

5:00 p. m.—Wickwire Spencer tenor.

7:30 p. m.—In the organ loft with Emil Telasco.

8:00 p. m.—Choir invisible.

9:00 p. m.—Same as WEAN.

9:45 p. m.—Same as WEAN.

10:15 p. m.—Same as WEAN.

WYAP—FALSADES—393.

9:00 a. m.—Children's hour.

WPG—ATLANTIC CITY—271.

3:30 p. m.—Creator and his band and Pauline Talma, soprano.

Continued on Page Thirteen.

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Get it now and enjoy it all summer. Tuck it into your car for your vacation. Plug it in wherever there's a lamp socket. Dance to distant music, brought up close. Reserve your living-room seat for the Tunney-Heeny fight. Follow the great airplane adventures. Tour the air tonight—any night—with this surer and simpler and better receiver.

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HOW TO LENGTHEN LIFE OF VACUUMS

Watch Filament Voltage Carefully and Constantly

One Bias Also Important Factor in Question.—Owner Should Not Jar Tubes, as Elements Are Easily Loosened.—Voltage Use Is Recommended

Accidentally lighting up a radio tube too brightly may spoil it altogether. Sometimes, a tube damaged in this way can be brought back nearly to its former sensitivity by a process known as "regeneration."

However, let's not bring early damage or "death" to our tubes by such unfortunate circumstances. It isn't very difficult to see to it that they are never lighted over-brilliantly, and that they receive due consideration in handling and in operation.

But—how shall we do it? So far as the actual handling goes, it is easy enough to carry new tubes home from the store carefully, protected in their soft wrappings and to avoid dropping or jarring them. Such mistreatment may result in loosening some of the elements or in weakening or breaking the filament. Lay the tube down gently. A tube whose elements are loosened by rough handling may become microphonic, that is, may howl easily, especially when inserted in the detector or first audio socket.

As for the voltage applied to the tube, it is difficult even to estimate this unless one has some sort of measuring instrument to go by. It is possible to insert an ammeter in series with the battery wire and to keep the current supplied within the proper limits. To determine the proper current, it is necessary to learn the maximum current required for each tube in the set that is lighted from the storage battery.

Adding these separate figures will give the total current required and the ammeter may be mounted on the panel or convenient to the set in keeping tab on the filament adjustment. Even this method, however, is not entirely safe, because it is possible to turn up one rheostat more than the others so that, while most of the tubes would be lighted at less than the normal current, one or more might be over-powered.

The really safe way is to use a voltmeter. The ordinary "garden variety" voltmeter, such as is used on an auto dashboard, will not answer, however. A suitable voltmeter for the purpose will cost from four to ten dollars. It would be possible to have the testing done by the dealer and to make marks on the rheostat knobs so that you would be unlikely to light the tubes too brightly.

The terminals of the voltmeter should be touched across the filament terminals of each socket in turn and the voltage noted. In the usual set, several tubes are controlled by a single rheostat, so that all tubes connected to a single rheostat will give out the same reading of voltage. The rheostat knob should be marked or its dial reading noted, so that you will use care not to exceed the indicated position.

Brand new tubes need not be lighted as brightly as older tubes to get the same results. The point desired is that at which no increase in volume is gained by turning the rheostat farther "on." Always light the tubes at the minimum brightness consistent with good reception. If the audio tubes are not lighted brightly enough, however, the reproduction may be imperfect.

The voltmeter should be of the "high resistance" type. The low-priced voltmeter takes almost as much and sometimes more current than a tube uses, so that connecting it across the filament terminals of the socket will cause the tube to glow dim and to give a very incorrect reading. The right voltmeter will give an accurate indication and will not cause any change at all in the filament illumination as it is connected and disconnected.

It is very important that the proper plate voltage be not exceeded if you want your tubes to last a long time. It is equally essential that the right C voltage be applied. The instruction sheet supplied with the tubes will indicate that correct relationship between the B and C battery voltages and these should be adhered to exactly. For example, a UX-210 tube operating at about 350 volts should have about 30 to 35 volts of C battery, either secured from a battery or perhaps from a special resistor in the B eliminator. A 201A tube, operating at 90 volts in the audio stages, should have about 4½ volts of C applied. If your set is not equipped with connections for the C battery, by all means have one installed. You will secure much better tone quality, in addition to greatly lengthening the life of the tubes.

Not only does a proper C voltage reduce the plate current on the tubes, and thus increase its term of life, but at the same time, this reduction of plate current means that the B batteries won't have to deliver so much "juice." Accordingly, the B batteries, too, are saved by applying the correct value of C battery in cases where none has been employed.

Consult Manufacturer. When "troubleshooting" in the receiver very few cheapman-made sets work intelligently on manufactured sets. When something goes wrong, the only recourse is to take it back to the dealer and have him send the set to the factory branch or main plant for inspection. A number of manufacturers put a stipulation in the guarantee that the inside of the set must not have been tampered with or the free

repair work paragraph "does not go." Some have so put in the screws that a seal would have to be broken to open the set and then the guarantee is certainly "off."

"RADIOIZING" HOME

How to Wire Every Room for Loud-Speaker Service. Nowadays our use of radio is likely to begin early in the morning with the health exercises, to continue during the morning with the cooking and household programs, provide light entertainment for the afternoon sewing circle, bring in the evening news and the heavier entertainment of the evening. Nor must we overlook the widespread dependence upon the radio receiving set for setting the household watches and clocks. The commuters on the 7.48 especially like the time service as they are able to catch their trains accurately and without too much time wasted in waiting.

Of course we can go to the living room for all these features, but what a convenience it would be if we could bring our radio exercises into the bedroom—our kitchen talks right into the kitchen, our dinner music to the dining room, our light entertainment to the porch besides!

It is quite simple to rig up the necessary wiring. Regular radio receptacles are on the market which may be screwed to the baseboard or wall of the room. Ordinary annunciator wire can be used for making the connection to the set and as many receptacles as desired can be connected in circuit. It may be helpful to provide extra switches for turning on the set and this has been done in many cases as an added feature.

Some listeners obtained one or two extra loud-speakers of the cheap sort as being good enough for kitchen and bedroom service. The house wife is then able to carry on her morning's work while listening to the morning programs and can easily stop to jot down a recipe or useful suggestion or the name of a book she would like to send for. And anyone can install the requisite wiring in a few moments.

WIRED RADIO

People of The Hague Get Programs Over Phone Wires.

So successful has supplying radio by telephone proved in The Hague, according to reports reaching the Department of Commerce, that there is in contemplation an extension of the system to Rotterdam and other municipalities. The Hague is just completing the first year of the service. Reception of the programs is afforded both to telephone subscribers and non-subscribers upon payment of an initial installment charge of \$7.20 per year. They need only to buy an amplifier and loud speaker, which are supplied by an American manufacturer at a cost of \$23 and \$34, respectively. Lower grade articles are also obtainable.

It is estimated that since the number of subscribers has passed 1000, a lower annual subscription rate will be made possible. The number of subscribers is now about 2400 and will probably reach 2500 by the end of the year.

ANSWERS TO WEEKLY RADIO TEST

1. The A battery is not fully charged. It recuperates a little when standing and delivers more current for the first few minutes the set is operated. Then its output falls off.

2. A trailing wire with a lead weight attached to the free end. There are many objections to this arrangement and a metal rod type of antenna may replace it.

3. Yes. It furnishes a handy and necessary connection for plugging in a power speaker.

4. As noise, yes, but not as pictures.

5. It now is customary to hold "auditions" before the regular air performance. In this way, performers have an opportunity to learn their mistakes and become familiar with the technique of the job.

150 Vacation Trips to Choose From

An illustrated travel catalog "Big and Little Journeys" is full of suggestions for Summer vacation travel. Tells where to go and what it will cost on all expense tours through the Great Lakes, St. Lawrence River, Niagara Falls, Quebec, Newfoundland, Nova Scotia, Bermuda, California and the National Parks. Secure free copy from EXPLORERS TOURING CO., 7 Weybosset St., Providence. Estab. 1879.

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for
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One roll of film takes 50 pictures to show on the screen enlarge the best shot for individual photographs

RADIO PROGRAMS

Continued from Page Twelve

4:15 p. m.—Community vocal and instrumental recital.
5:15 p. m.—Religious service.
9:00 p. m.—News flashes and baseball scores.
9:15 p. m.—Operatic concert.
10:30 p. m.—Correct time.
10:30 p. m.—Sunday evening musical.

WQAO—NEW YORK—305.
11:00 a. m.—Calvary morning services.
3:30 p. m.—Inspiration hour.
7:30 p. m.—Calvary evening services.

WRC—WASHINGTON—160.
12:00 p. m.—Church service.
1:00 p. m.—Chamber music.
2:00 p. m.—Same as WJZ.
3:00 p. m.—Same as WJAR.
4:00 p. m.—Studio program.
4:30 p. m.—Same as WEAP.
5:00 p. m.—Service from Washington Cathedral.
6:00 p. m.—Same as WJAR.
7:30 p. m.—Same as WJAR.
9:15 p. m.—Correct time.
9:15 p. m.—Same as WEAP.
10:15 p. m.—Same as WEAP.
10:45 p. m.—Weather report.

WTAG—WORCESTER—317.
6:00 p. m.—Same as WJAR.
7:00 p. m.—Old World Cathedral.
7:05 p. m.—Organ recital.
8:30 p. m.—Studio program.
9:00 p. m.—Correct time.
9:00 p. m.—Same as WEAP.
9:00 p. m.—News bulletin.

WTIC—HARTFORD—533.
6:00 p. m.—Same as WJAR.
7:00 p. m.—Old World Cathedral.
7:20 p. m.—Song recital.
8:30 p. m.—Same as WJAR.
9:00 p. m.—Baseball scores.

LOCATING TROUBLE

Listener Told What to Look for in "Dead" Receiver.

When your radio set suddenly "goes on the blink" and stops working, here are a few hints to help you in finding the trouble.

1. Be sure all tubes are lighted. Wiggle them in the sockets to find whether poor contact caused stoppage.
2. If loud speaker gives no sound at all, disconnect it and touch terminals across storage or "B" battery. Strong click should be heard.
3. Examine antenna wire and antenna, also ground connection, for a possible break.
4. Test "B" batteries or "B" eliminator for proper voltage.
5. In case of current supply set or "B" eliminator not operating, perhaps fuse has blown or plug is not making contact in wall or lamp socket.
6. Don't meddle with internal connections or parts unless you know how. Be sure all wires are making good contact on terminal strip or in connections.

Soldering Tip

The most efficient way of soldering untinned wires is to file a groove in the soldering iron. This will fill up with solder, so that the wire end may be readily tinned by inserting it in the groove.

No Elastic—
in Oakland Mausoleum
This marble Memorial Shrine will not stretch nor can we add to it. Sometimes it will be too late to make your reservation. You can avoid disappointment by a phone call.
Broad 4639

Anthracite Coal
Guaranteed best quality Pennsylvania Anthracite, equal to any sold in Providence and at \$1.00 per ton less. White Ash Egg, \$11.15; Chestnut or Stove, \$13.00 per ton; Lehigh Egg, \$15.50; Chestnut or Stove, \$15.75; Pea \$12; delivered in your cellar.
Bowen Coal Co
88 WEYBOSSET ST.
Study Bldg. Gaspee 4376

EXAMINER NAMED

Board Appoints Radio Field Man to Tour Fourth Zone.

The first of a new type of Federal radio official—an examiner—has just been appointed in the Fourth, or Middle Western Zone. The appointee is Gerard Taylor, a radio engineer formerly connected with the Kansas State Agricultural College.

It will be his duty to travel about among the broadcasters in his zone, to secure data desired by the Federal Radio Commission and even to hold hearings and take testimony if desired.

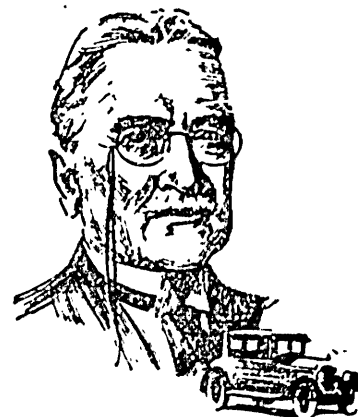
Just as the radio supervisors and inspectors are the field men of the radio division of the Commerce Department, the examiners will be the men on the ground for the Radio Commission. It is expected there will soon be one or more of these examiners appointed from every zone.

How to Build Wave Trap

A wave trap is constructed as follows: Wind about 50 turns of No. 24 double silk-covered copper wire on a three-inch diameter bakelite form. Connect a 0005 mfd variable condenser across this coil. Connect the coil and condenser combination in series with the antenna lead-in and adjust the wave trap condenser and the set until the interference is reduced to a minimum. When the inside loop is used with the set, it may be necessary to tilt the loop slightly in the direction of the aerial of the interfering station and rotate it slowly to find the minimum point of pickup. The reason for this is because the "wave front" at short distances from a transmitter may not be proceeding in a vertical plane.

Shielding Important.

Shielding is considered almost a necessity in the modern receiver, particularly if it is to be operated in a congested district. Although not absolutely essential, nothing is harmed by enclosing the audio section in a shield also.



The Doctor

It is essential that my car should always operate properly and accordingly I use Champion Spark Plugs.

Champion is the better spark plug because it has an exclusive sillimanite insulator specially treated to withstand the much higher temperatures of the modern high-compression engine. Also an patented solid copper gasket-seal that remains absolutely gas-tight under high compression. Special analysis electrodes which assure a fixed spark-gap under all driving conditions.

CHAMPION
Spark Plugs
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Dependable for Every Engine

BUY A GOOD USED CAR
~and save the difference
Drive One For a Week

You take no chances when buying a used car here—we know they are real good buys and are willing to let you select any model from our Big Stock, drive it for a week—then—if you are not satisfied that it is worth what you paid for it—bring it back to us and get your money back.

Our money-back guarantee protects you, you take no chances. What more could you ask? So come in—see what we have to offer.

Some of the Models on Display

1928 Essex Coach	1926 Chrysler Sedan
1927 Essex Roadster	1926 Dodge Roadster
1927 Paige Coach	1926 Hudson Brougham
1927 Essex Coach	1926 Overland Coach
1927 Essex Coupe	1925 Hudson Coach

GET OUR PRICES BEFORE BUYING
ROBERT W. POWERS CO.
USED CAR DEPARTMENT
134 BROAD STREET

Vagrant Waves of Interest to Fans

If your storage battery no longer holds a good charge, but drops off rapidly after being put in use after a charge, it is an indication that the battery is about worn out. After long use, a storage battery loses much of its efficiency, due to the dropping out of active material from the plates and the increasing spread of the sulphate or non-conducting crust that forms on the active material.

If you must see the level of the water in your A eliminator or storage battery, don't go looking with a lighted match. Remember, there is hydrogen present in most of these devices, and

hydrogen plus air plus a lighted match equals a violent explosion.

Noise in a radio receiver can be sometimes traced to leaky grid condensers and noisy grid leakers. Try new ones.

Don't forget to install that lightning arrester!

Persistent noises in a set may be due to faulty resistors, especially those of the compression type. Try shorting the various resistors, one after the other, until the noise disappears, indicating the defective unit.

Of the 7,287,000 homes throughout the United States equipped with radio sets, New York leads with 853,000 sets; Pennsylvania is second with 613,000; Illinois is third with 578,000, and California is fourth with 536,000.

New York city has an "Association of Women Broadcasters." The purpose of the organization is to further the interests of women radio speakers and

stimulate the spirit of co-operation between radio managers and women.

One of the chief causes of weak signals is dirt on antenna insulators, lightning arrester and antenna wire.

A radio school is to be opened in Paris, France.

Radio has replaced the carrier pigeon in the United States Marine Corps.

Use an insulated wire aerial if situated in a locality where there is much smoke. Bare wire becomes covered with soot, and corrodes, causing loss of efficiency.

It is estimated radio has already saved the world \$60,000,000 in communication charges.

Johanna Grosse, organist of Station WLW, claims to have memorized 8000 tunes.

Tristan da Cunha, the world's loneliest spot, is to be linked with the civilized world by radio. There are only 150 inhabitants on the tiny spot in the South Atlantic.

France is planning governmental control of radio broadcasting with three big, national sending stations and 18 smaller regional ones.

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Broken windows on any make of car reset with plate glass—Special this week \$2.50

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FRANKLIN AUTOMOBILE COMPANY, SYRACUSE NY

COMPLETED TRANSCONTINENTAL ROUNDTrip RECORD RUN AT 4.53 THIS AM HAVING COVERED

6692.8 MILES FOR WHICH MY TOTAL ELAPSED TIME WAS 157 HOURS AND 23 MINUTES PERIOD

THIS CLIPS 10 HOURS AND 36 MINUTES OFF FORMER RECORD PERIOD CAR CAME THROUGH

ENTIRE GRIND WITHOUT ANY TROUBLE WHATSOEVER PERIOD THE MOTOR PERKING AS NICELY

NOW AS IT DID AT THE START LESS THAN ONE WEEK AGO PERIOD THE PERFORMANCE OF THE

FRANKLIN AIRCOOLED ENGINE IS A REVELATION AS IT DID NOT FALTER ONCE DURING ITS

GRUELLING PUNISHMENT WHETHER IT WAS BEING DRIVEN UP GRADES ACROSS THE MOUNTAINS

OR THROUGH THE DESERTS PERIOD THE RUN CERTAINLY PROVED THE INBUILT STAMINA AND

CAPABILITIES OF THE AIRCOOLED MOTOR PERIOD SPEED POWER PICKUP ACCELERATION AND

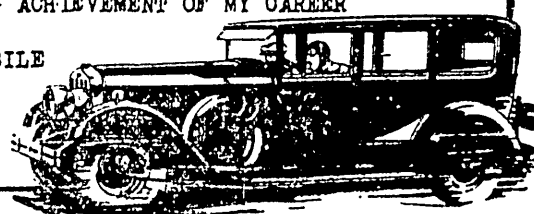
ABSOLUTE DRIVING COMFORT ARE THE OUTSTANDING FEATURES OF YOUR CAR PERIOD WITH

THESE THE MOTORIST MUST HAVE POWERFUL BRAKES AND YOURS ARE CERTAINLY QUICKACTING

AND POSITIVE PERIOD I CONSIDER THIS RUN THE OUTSTANDING ACHIEVEMENT OF MY CAREER

AND WISH TO CONGRATULATE YOU ON BUILDING A REAL AUTOMOBILE

CANNON BALL BAKER



Beating former record by 10 hours, 36 minutes

Total mileage: 6692.8 Total elapsed time: 157 hours, 23 minutes [6½ days]

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