

New B Eliminator; "Sure-Fire Stuff"

Radio Digest

TWICE
A MONTH

FIFTEEN
CENTS

FIRST JULY NUMBER

Vol. XVII No. 8



Conclusion of Hugh Fullerton's "Big Rabbit"; New Broadcasting Cruiser, Grebe's WRMU; Anthology of WSM, Nashville; How WGHP Was Started; Latest Gold Cup Standings

No. 10 OFFICIAL BALLOT

Announcers' Contest

RADIO DIGEST THIRD ANNUAL GOLD CUP AWARD

GOLD CUP AWARD Editor, Radio Digest,
510 North Dearborn Street, Chicago, Ill.

Please credit this ballot to:

.....of Station.....
(Announcer's Name) (Call Letters)

Signed.....

Address.....

City..... State.....

7-1-26

ARNOUX TOPS MAY IN SPECTACULAR CLIMB

VOICE OF HOT SPRINGS UPSETS GOLD CUP "DOPE"

Gaylord of WTAG Also Gives Thrill—Pat Barnes Holds His Own—Canada Is Dormant

Crashing up from eleventh place and upsetting the "dope bucket" by polling almost ten times as many votes as he had previously been credited with, G. C. Arnoux, announcer and director of KTHS, the New Arlington hotel station at Hot Springs, Ark., clinched first place this issue in the 1926 Gold Cup Award competition for world's most popular announcer. In so doing he took the lead away from Earl E. May who has occupied top position this year since actual standings have been published.

In the last previous standing, Mr. Arnoux had gained seven places by arriving at eleventh from eighteenth in order. The tremendous support being given the new leader by listeners all over the country indicates that he is one of the most popular and strongest contenders for the 1926 Gold Cup Award.

Gaylord of WTAG Gains

Almost as spectacular a rise as that of Mr. Arnoux is shown this issue for Chester Gaylord, announcer for WTAG, the Worcester (Mass.) Star-Telegram broadcaster. This easterner rose from sixteenth to sixth place by adding more than 10,000 votes to his total.

Other contestants for the most part added to their count but maintained the same order as previously, that is, allowing for their being nosed down several places by the radical jumps of Arnoux and Gaylord. On the other hand some few candidates even increased their advantage despite the forced downward movement.

Pat Barnes, of WHT, kept fourth place by topping A. S. Kyne, of KMMJ, who had gone above him last issue. Jerry Sullivan, of WQJ, gained two notches from nineteenth to seventeenth. John T. Schilling of WHB, came from obscurity to eighteenth in line. Paul Johnson, of Gold Medal WCCO, E. L. Tyson, of WWJ, and Sen Kaney, of KYW, each gained one place apiece.

Standing of Leading Twenty-Five

The present standing of the first twenty-five candidates is given below. The figure in parentheses following the name and station of certain announcers, indicates their order in the standing last issue if they were in the first twenty-five:

1. G. C. Arnoux, KTHS (11).....22,423
2. Earl E. May, KMA (1).....19,514
3. N. Brokenshire, WJZ (2).....16,831
4. Pat H. Barnes, WHT (4).....14,456
5. A. S. Kyne, KMMJ (3).....12,753
6. C. Gaylord, WTAG (16).....11,688
7. Henry Field, KFNF (5).....10,916
8. The Hired Hand, WBAP (6)..... 7,843
9. Phillips Carlin, WFAF (7)..... 5,286
10. Peter MacArthur, WOC (8)..... 3,802
11. C. R. Randall, WSMB (10)..... 3,427
12. Louis J. Johnen, WLW (9)..... 3,329
13. Lester Palmer, WOAW (12)..... 2,884
14. Gayle V. Grubb, KFAB (13)..... 2,535
15. R. W. Griffin, WHO (14)..... 2,520
16. Lambdin Kay, WSB (15)..... 2,186
17. Jerry Sullivan, WQJ (19)..... 1,683
18. John T. Schilling, WHB..... 1,584
19. Wm. (Bill) Hay, WGN (17)..... 1,519
20. Paul Johnson, WCCO (21)..... 1,457
21. Edw. B. Husing, WRC (18)..... 1,417
22. Harold Isbell, KNX (20)..... 1,402
23. E. L. Tyson, WWJ (24)..... 1,294
24. Sen Kaney, KYW (25)..... 1,135
25. E. Konecky, WOAW (22)..... 1,026

Canadian Silver Cup Standing

Canada is dormant. Standings of the leading five candidates for the 1926 silver cup to be awarded to the most popular Canadian announcer, have not changed in

(Continued on page 27)

STUDY OUR COVER GIRL—THEN GUESS

DID you take a psychoanalytical observation of the face on the Radio Digest cover this issue? Before you read any further do so and guess the color of her hair.

We call your attention to the calm, well-poised expression. Cover one half of the face with your hand, then study the other half. One is the twinkling taunt of a mischievous elf, the other is the classical serenity of Minerva.

And the crown of glory over all—did you guess it? Well, it's red gold. She was picked for the part of Hazel Stanton in the Radio Digest's famous mystery play, "A Step On the Stairs," at the Denver station of General Electric and her name is Miss Dorothy Reynolds. She has done many other noteworthy things at this mile-high broadcaster and is well known to all KOA listeners.

To Broadcast Moose Convention

CHICAGO.—Practically all sessions of the Loyal Order of Moose convention will be broadcast by WJJD, the Mooseheart

station at Mooseheart, Ill. The convention will be in Chicago from July 1 to 6, and the broadcasting is to be handled through WJJD's Chicago central in the new Palmer House.

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Looking Ahead

Speaking of the Big Pacific Coast Radio Show, did you ever hear the inside story of Major Lawrence Mott and his Radio activities on Catalina Island? Thousands of fans who have written to KFWO have received bags of silver ore taken from the mines near this island broadcasting station. Read it in the next Radio Digest, out July 14.

A Little Weather-Beaten Church in Oakland, California, suddenly found its field of usefulness expanded over a vast area through one of the San Francisco Radio stations. Then came a change of plans and the little church found itself alone with no place to go—such was the beginning of KTAB as told in the mid-July number of Radio Digest.

It Has Been Something of a Task to Unite the Junior Members of the Household into some common interest through the Radio. Big Brother Emery of WEEL, Boston, seems to have discovered the secret with his Big Brother club. Pictures and story in a coming issue of Radio Digest.

Down in "Santone," Texas, the City of the Alamo, the quaint little river and the ancient missions, is the home of Radio Station WOAI. From this station may be heard the distinguished Jose Conrado Tovar and the Gebhardt Mexican players. The story will appear soon.

Fiction Features in Our Next Issue will include the beginning of a new story that will attract wide interest throughout the country. Van Demark's "Sure-Fire Stuff" will introduce Bobby in a new light and you will like Sheila and Johnny better than ever. First installment this issue.

England's Radio Fans Are Ablaze over Sir Oliver Lodge's brand new circuit. What it's all about and why, will be a brand new story in the next issue, out July 14.

"Dos and Don'ts" is the subject of another interesting article by the Technical Editor. These are convenient, short and snappy helps for home repairs on your receiver and its accessories.

Newsstands Don't Always Have One Left

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SHORT WAVES

By Marcella

From the heaps of correspondence WHT dialers have piled upon my desk, it appears that I will have to open the program today with a few numbers dedicated to the personnel of that station. We will first hear a wedding march in honor of Pat and his new bride.

Ta-ta-ta-ta. Yes, he's gone and done it! And the lucky girl was Eleanor Gilmour, who many of you have heard singing from the Wrigley building studio. Now watch his Marcella mail fall off! Brief sketch of Pat: handsome, brown eyes, straight black hair, tall and not too slender, dark sheik type brunette, but a man's man. Weighs 168 pounds, stands 6 feet tall, and is 32 years old. Was overseas in the A. E. F., and made fame in his "A Buck on Leave." Don't think he has ever written any music, "Linne."

And does Pat play around with Al Carney, asks "Betty." Probably so, Betty, as Pat and Al are just as good friends outside as in the studio.

Now a soft organ melody for Al. Our friend, Mr. Carney, is a smiling 195-pound bachelor, 25 years old and just living by himself in a cozy corner. For diversion he loves to drive his car about with both arms.

All right, the next is a tenor solo for Oscar Heather, "Radio's Smiling Tenor." For the benefit of "Anne," "J. M. R.," and others, I'll be very thorough. Oscar, besides having a personality-plus lyric tenor voice, is a tall, broad and heavy bachelor weighing 230 pounds, rising 5 feet 10 inches, and possessing blue eyes, brown hair, fair skin and beautiful teeth. His disposition is sunny, aversion is women, hobby is music and age is 30. Born in Mitchell, South Dakota, and was started in Radio by Morgan L. Eastman of KYW.

You will enjoy the classical piano solo Miss Helen Rauh, WHT's delightful accompanist and Saturday morning juvenile program conductor. Gee, she's dandy! Like her myself. Unruffled, smiling disposition that breaks out like rays of sunshine to meet you. Beautiful dark brown eyes and naturally curly brown hair, 5 feet 2 inches above the floor, 23 years old since she was born at Phoenix, Arizona, 110 pounds light—ah-h-h! Her pet aversions, to quote her, "people who can't be themselves, and dumb women." Her hobbies, sticking her finger in Jean Sargent's ice cream at lunch time, her music, outdoor sports and her fiancé. Yes—it's true, but of course, competition still might have a chance.

And next let us have the noon farm report from Edwin Kemp, whose particular hobby this is. Edwin, when not exercising his dramatic tenor voice, is usually wondering what other people think he looks like. The picture, aided in quoted spots by Mr. Kemp's own imagination, is this: Eyes, "dizzy" blue; hair, "dirty" blond; complexion, fair but "hurts like the devil to shave"; weight, 165 pounds; height, 5 feet 8 inches; age, 28; disposition, happy; dislikes egotism, flies and going without meals; likes music, Lillian Knowles, children and other animals. Edwin was born in Louisville, Kentucky, with a southern accent, and while he is still a "happy" bachelor, me thinks he is not long to be so.

Before signing off, we must hear last, but not least, from our own Jean Sargent, WHT's Jean, who will address the Women's club. Jean is one of WHT's best bets and most liked staff members. Personality is just what you'd imagine from listening to her; age, now getting less every year; matrimonial condition, unhitched; height, 5 feet 8 inches; weight, "it takes too many pennies," quoth she; hair, silver gray; likes her work first; dislikes snakes; plays bridge excellently; entertains royally, and is one of those few persons you can enjoy listening too by the hour. Incidentally she prefers Chicago to Boston.

It would not be fair to sign off without delivering the message that each and every one of the WHT "gang" (except Pat) gave to nosey Marcella when she sought them out for statistics. "Why talk about us?" they asked. "Tell everybody that Pat Barnes is the best in the world, is nice to work for, and he certainly should win the 1926 Gold Cup for most popular announcer." There—I have done as they asked. Marcella will adjourn to the next studio.

Hah, smiling "Bill" W. G. Hay, the Scoo-ootchman who has been doing the main part of the announcing from WGN and WLIB, has received a deserved promotion to manager of the two stations. But he is still doing most all the announcing. Between his arduous duties he manages to squeeze in a few games of golf, each stroke of which he carefully recounts to me the next time I see him. You ex-KFKX fans surely remember Bill, don't you? At this point, I might as well answer "M. J." who asks about Charles Erbstein. Yes, Charlie is back again on

(Continued on page 14)

COOLIDGE TO BROADCAST JULY 4

PHILHARMONIC WILL OPEN AT WJZ JULY 7

C. B. POPENOE ANNOUNCES SUMMER ARRANGEMENT

To Give Stadium Concerts Wednesdays and Saturdays Over WJZ; Also Saturdays Over WRC

NEW YORK.—The Radio audience will have the opportunity of listening to the Lewisohn stadium concerts of the New York Philharmonic orchestra twice weekly during the coming summer, announces Charles B. Popenoe, manager of Station WJZ. WJZ will broadcast the splendid concert biweekly, on Wednesday and Saturday nights and WRC in Washington will also broadcast them on Saturday nights. Each of the concerts begins at 8:30 p. m. Eastern daylight saving time.

The opening concert will be given on Wednesday night, July 7, and the series will continue throughout the summer until September 1. As in the past few years, the New York Philharmonic orchestra will play at all of the stadium concerts.

An additional feature of the opening concert on July 7, will be an address to be given in the intermission by Adolph Lewisohn, donor of the Lewisohn stadium, who is often referred to as "the Andrew Carnegie of the Musical World," having given generously of his wealth for the advancement of music in America in much the same way that Carnegie advanced literature through his policy of establishing libraries throughout the land.

Van Hoogstraten Chief Conductor

The chief conductor for the season will be Willem Van Hoogstraten who has led the stadium concerts for the past four years. The guest conductors will be Nikolai Sokoloff, of the Cleveland orchestra; Henry Hadley, associate conductor of the Philharmonic orchestra; and Frederick Stock, conductor of the Chicago Symphony orchestra. Messrs. Sokoloff and Hadley are already well-known to the Radio and stadium audiences; but Mr. Stock's appearance will be his first in the New York summer season.

Mr. Van Hoogstraten will open the season on July 7 and will conduct until July 28, when Mr. Sokoloff will appear until August 3. Henry Hadley will lead the concerts from August 4 until August 10, with Mr. Van Hoogstraten reappearing for the week of August 11. Mr. Stock is to conduct during the week of August 18, and Mr. Van Hoogstraten will conduct the concerts of the final week, beginning August 25.

Listeners to Build Final Concert

As an added feature of the broadcast stadium concerts this year, the Radio audience is to be allowed to select the compositions to be rendered by the Philharmonic in the last Radio concert of the season. As the season nears its close, listeners will be requested to send in the names of the selections which they consider would make an ideal farewell concert, or a selection which they have particularly enjoyed, and from these selections of the Radio audience, the program of the final concert will be compiled.

This announcement by the head of Station WJZ, is a direct refutation of the common assertion that the summer is "dead season" for Radio. In discussing the coming summer, Mr. Popenoe expressed himself of the opinion that this summer will bring to the listening audience bigger and better programs than they have ever before experienced, excelling in most cases even the mid-winter programs of seasons past.

"Hoover Should Not Be Only Head"—Colleges

University Broadcasters Prefer Commission for Radio

UNIVERSITY PL., Nebr.—Broadcasting should not be left entirely in the hands of Secretary of Commerce Hoover, unanimously declare the forty members of the Association of College and University Broadcasting Stations. All members, however, expressed themselves in favor of the general provisions of the White bill, announces J. C. Jensen, secretary, if adequate machinery for a court of appeal is provided to which disputed questions may be referred, with assurance of prompt decisions and minimum expense.

As between establishing a separate Radio commission and referring Radio questions to the interstate commerce commission, the members are almost unanimous in favor of the separate commission.

WJZ "IMPS" RECEIVE IVORY IMP CHARMS

NEW YORK.—Some member of the Radio audience was so favorably impressed with the concerts given by the Imperial Imps from Station WJZ every Wednesday night that he wanted to send them a token. As they all live in separate parts of New York, one gift could not be given to all of them, so he had made four little imps. The charms are about an inch tall, fashioned from real ivory and identical. The four imps are now proudly displaying the gifts on their watch chains.

JULY 4 BANGS WILL BE HEARD ON WAAM

NEWARK, N. J.—Summer broadcasting literally will be inaugurated with a bang when WAAM broadcasts Independence Day fireworks here, direct from the chamber of commerce Fourth of July celebration at the South Orange village center. Several microphones will be placed in advantageous positions for picking up the entire pyrotechnic display with maximum effect. Since the Fourth of July this year falls on Sunday, the celebration will be on July 5 at 8 p. m. Eastern daylight saving time.

CINCINNATI GIRL IS RADIO PLAYER



The charming, intelligent appearance of Miss Helen Nugent is not deceiving. Her ability at interpreting various dramatic roles has been employed to the fullest extent by Crosley Station WLW at Cincinnati. Her last role there was in "Gondoliers," played several weeks ago. She played a leading part in WLW's version of "A Step on the Stairs." Miss Nugent also sings with a pleasing contralto voice.

RADIO SECTION TELLS OF STATION CHANGES

WEW Increases Power—Three Stations Change Hands

WASHINGTON, D. C.—An increase in power, a new station at Vera Cruz, Mexico, and three changes in ownership are announced by the Radio division of the department of commerce.

Station WEW, owned and operated by St. Louis University, at St. Louis, has completed the installation of their new 1000-watt equipment and has been given permission to increase power accordingly.

The new Vera Cruz, Mexico, station has a wave length of 337 meters, power of 50 watts, and call letters CIC.

Ownership of WHBD of Bellefontaine, Ohio, has been changed from Charles W. Howard to the chamber of commerce of that city; ownership of WDBZ at Kingston, N. Y., has been changed from the Ulster County Council of the Boy Scouts

of America to the Kingston Radio corporation, and WOKO, of New York city, formerly owned by Otto Baur, has been transferred to H. E. Smith at Peekskill, N. Y.

Friday Night Is Amateurs' Night at Hartford, WTIC

HARTFORD, Conn.—Have you made your Radio debut yet? This is the question which many talented amateur performers are asking each other ever since WTIC inaugurated its amateur tryout period, officially known on the program as "The Debutants."

These contests take place at 9:45 p. m. Eastern time on Friday evenings, and are open to all amateurs. Nor must they necessarily be of any one category, as songs, skits, instrumental renderings, in fact anything that will serve to amuse the Radio audience, is in order.

In case you feel the urge, and have an idea you might perform creditably before the microphone, don't hesitate, but write the WTIC Studios.

SESQUICENTENNIAL TO HEAR PRESIDENT

JULY 4 ADDRESS MAY GO ON ETHER NATION WIDE

Nation's Head Expected to Jam Exposition Grounds—E. A. Davies Is Official Announcer-in-Chief

PHILADELPHIA.—July 4, 1926, means much more than only another Fourth of July, for it marks the 150th anniversary of the signing of the Declaration of Independence. In this city a great sesquicentennial celebration of that event is being held. On July 4, President Coolidge will testify to the importance of the occasion by delivering an address at Municipal stadium, here, to more than a capacity crowd of 100,000 people.

The address will be broadcast through many stations. At the time of going to press the complete chain carrying the president's speech had not been announced. However, it is definite that WIP of Philadelphia, WGBS of New York, and WPG of Atlantic City will carry the address.

In addition it is practically certain that many regular WEAFF chain stations will be linked and broadcast the message simultaneously.

E. A. Davies Exposition Announcer

Hundreds of Sesquicentennial exposition events have been and are yet to be enacted and broadcast by the Philadelphia-New York-Atlantic City chain. Several score of national organizations are holding their 1926 conventions in Philadelphia so as to enjoy the exhibitions, pageants and activities of the exposition. The Shrine convention has just closed here. The American Legion will hold its annual gathering here in the fall.

Edward A. Davies, director of WIP, Gimbel Brothers Philadelphia station, is the official announcer-in-chief of the Municipal stadium and exposition grounds events of the Sesquicentennial exposition, and he finds himself a busy man. Mr. Davies enjoys a splendid reputation for having broadcast all the important musical and sport events in the past for WIP. He is well qualified for descriptive announcing and is an accomplished musician. His keen sense of humor and large fund of up-to-date stories make his services much sought after to act as toastmaster at banquets and the like.

HE GUESSED THEY TOO WOULD GUESS

And They Did—WGBF Listeners Determine Sources of Miscellaneous Noises

EVANSVILLE, Ind.—Here's a new one! Of course, they've tried almost everything on the Radio, but maybe not this one. WGBF's program director sat holding his head, despondently attempting to think up a new skit, a new wrinkle that would tickle the ears of the jaded invisible audience.

To those not so well informed, we will inform that WGBF is the broadcaster of the Finke Furniture company here.

As the program director, Harold Finke, cogitated in vain, a crash sounding like the proverbial bull in the legendary china shop, greeted his ears.

"What was that?" he shouted, awakened from his lethargy. Unanswered, he exclaimed, "Ah-hah, I have it! We'll have a noise guessing contest. We'll make all sorts of noises and let the listeners guess what causes them."

So WGBF did. The furniture store being well stocked, it wasn't difficult to make a noise like a man bumping his shins on a footstool, a buffet full of china coasting downstairs, or many other things. Rehearsals—noise rehearsals—were given listeners prior to the event. Prizes were given for the real event. Thousands of letters came from the aforementioned jaded audience.

"It's a weak noise," concluded Mr. Finke, "that doesn't wake somebody up."

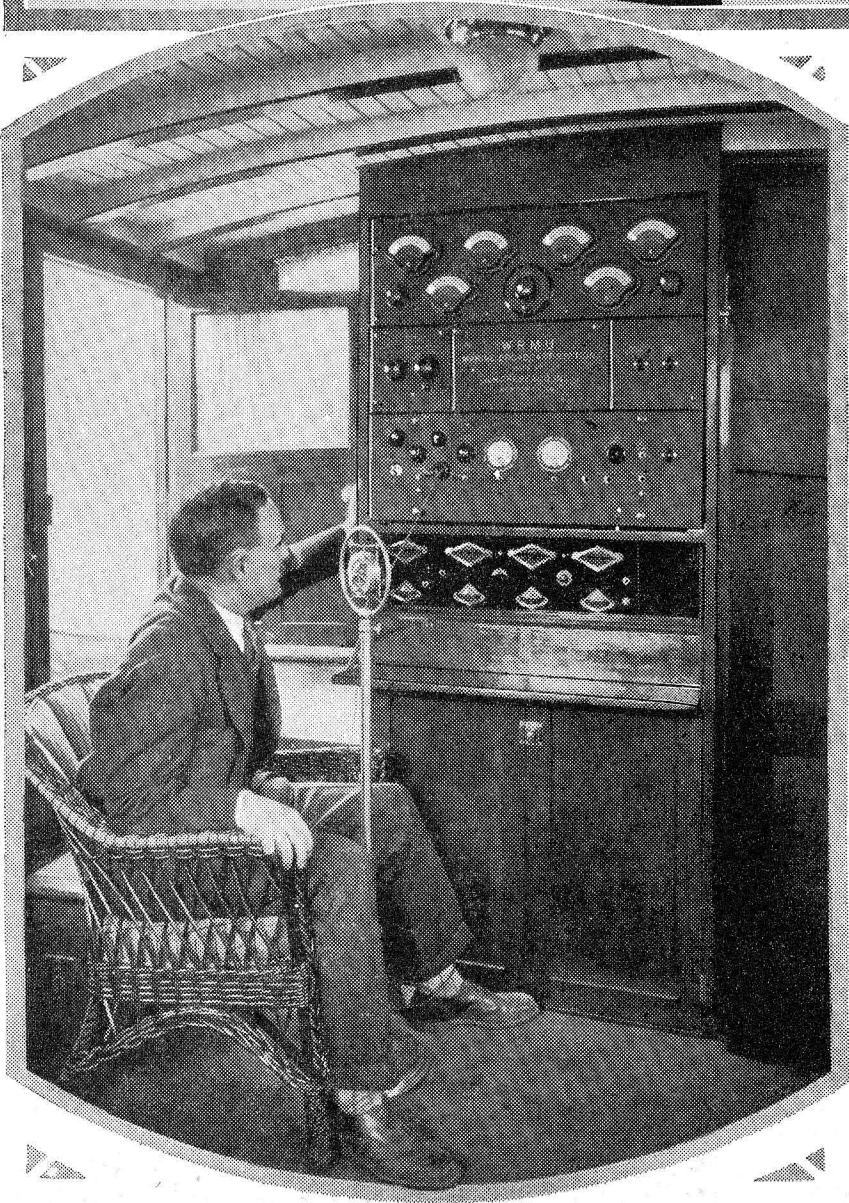
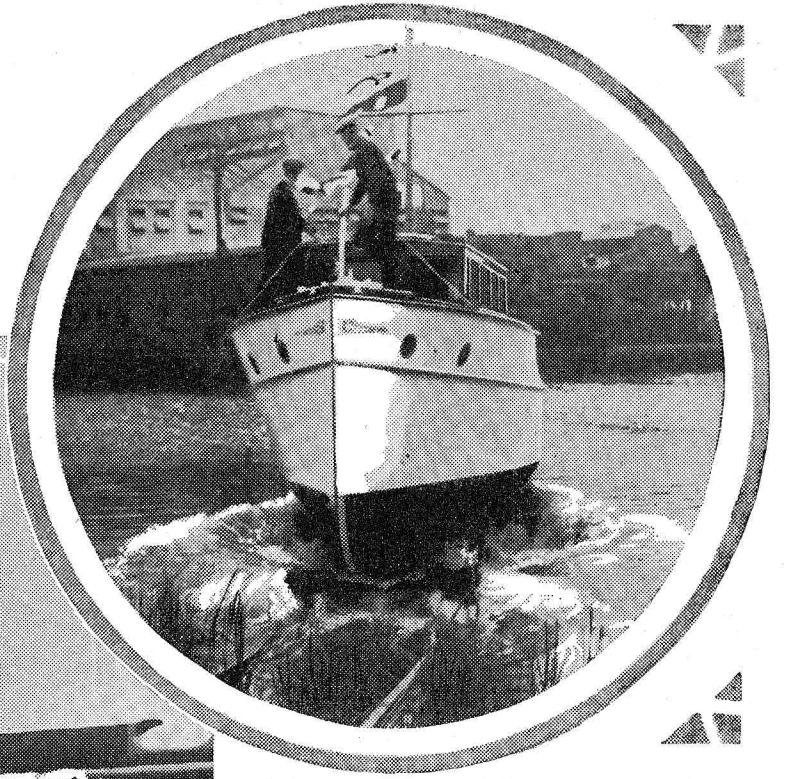
Like WGN Piano Lessons

CHICAGO.—Piano lessons over WGN are becoming quite popular. Hundreds of pupils listen each Friday at 5 p. m. Eastern time for them. Here is the way Edward Barry does it:

An illustrated copy of each lesson is sent to everyone who enrolls in the Radio Class. This the pupil has on the piano before him while he listens. With Mr. Barry in the studio while the lesson is being given is a pupil, who asks questions.

Launch New Broadcast Cruiser

GREBE Station WRMU, Aboard the MU-1, Begins Career as Event in News History. Will Follow Water Sports and Announce Direct and by Relay.



"I christen thee, the MU-1," said four-year-old Ruth Rigney crashing a bottle of champagne over the prow of new Radio cruiser. At left her dad, Douglas Rigney, owner; A. C. F. Kyle and Mrs. Rigney. Lower, Mr. Rigney. Sliding down the ways, in circle.

EACH decade marks a long stride in the efficiency of gathering and disseminating the news. Speed and more speed has been the fleeting goal. Yet in the span of one human life has marched a brilliant pageant of progress from the era of the Pony Express to modern Radio.

The days of the covered wagon are not so remote. Uncle Ezra Meeker heard the news of Abraham Lincoln's election through the medium of the dispatch rider and he obtained the news of the last presidential election from the period of the national convention to the president's inauguration speech over the air as it happened. And Ezra Meeker with his ox cart helped blaze the trail to the Northwest for the railroads!

The parade moved along. On came the telegraph, railway mail, then air mail. Old flat-bed presses were elbowed out of the line by the new high-speed web rotary presses, coupled in multiple units, with a capacity of a million newspapers between daylight and daylight. Motion pictures joined in step bringing to the eyes of the world news of great events with visual reality—in action, life-like; Byrd and his monoplane, Amundsen and Ellsworth on the Norge flying across the Arctic wastes to conquer the North Pole.

Then descending out of the air came the microphone to serve the news. First it relayed the casual news from the editorial rooms of the newspapers. Later it followed

the camera into the field of action and conveyed the news as it happened. More recently this has been particularized in sporting events. Escorted by a staff of operators, announcers, engineers and assistants it has taken its position at the race track to convey the sounds of the pattering hoofs on the turf, the throbbing roar of the motor and the whine of spinning wheels at the speedway, the crash of bone and brawn on the sidelines of football fields or the crack of the bat connecting with a baseball at a world's series game.

Somehow it seems that the Radio has adapted itself better to the service of sport news. That is where speed is needed most. Sport gives the reader something to anticipate, a thrill of suspense. Skill meets skill. Champions challenge champions. Who will win? Which is the greatest team? Can this one or that one make good against those others? Always an anxious, waiting moment for the outcome of supreme effort of physical perfection.

With the advent of summer come the water sports—not so easy for the microphone to follow. But now, even that contingency has been conquered. It will not be necessary to string relay wires through the water or post a confusing flank of microphones along a course. We have now the floating broadcaster, the fleet little monitor of a parent station located in the heart of New York City, Station WRMU, aboard the de luxe cabin cruiser MU-1.

Flecked with sparkling foam from the bottle with which it was christened the MU-1 slid down the ways to its historic career just four weeks ago. It was launched at the Jackson & Sharp yard of the American Car & Foundry Co., Wilmington, Delaware. Following is an extract of the formal announcement sent to Radio Digest:

"Ruth Rigney, four-year-old daughter of Douglas Rigney, Treasurer of A. H. Grebe & Company smashed a bottle of champagne on the bow, christening the vessel the 'MU-1'. Instantly the boat slid down the ways proudly into the waters of the Delaware.

"Many Radio fans will be interested to know that in this cabin cruiser is contained the completely equipped marine broadcasting station, WRMU, designed to operate on 63 meters for relay work and on 236 for direct broadcasting. The boat and transmitter have been principally designed to broadcast aquatic sporting events as did the original marine broadcaster last year, also called the MU-1. Many race events for the Radio public were covered, including the Gold Cup Regatta, held under the auspices of the Columbia Yacht club of New York. The Gold Cup races will be repeated this year at Manhasset Bay, Port Washington, Long Island, under the same auspices.

"Other events on the schedule of the MU-1 include the New York-Bear Mountain race on the Hudson River; the New York-Block Island race; the race from Larchmont Yacht club to Glou-

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Solemn Old Judge Likes South

ANTHOLOGY of Announcers and Artists at Memphis Station. King Writes About Hay and Hay Writes About Keefe. Uncle Dave Macon Shares Limelight, Historic Character of Tennessee.

IT'S the personality before the microphone that gives personality to a Radio station. Fortunate is that station which shines with outstanding personalities. Such a station is WSM of the National Life and Accident Insurance company, at Nashville, Tenn., where George D. Hay, "The Solemn Old Judge," holds court and guides the destinies of the little ether waves summoned before him "for a hearing."

Almost every Radio fan has read or heard something about "Old Judge Hay," but in this anthology of the personalities at WSM we are going to present the gleanings of Mr. George A. King.

* * * *

"A STORY OF THE SOLEMN OLD JUDGE"

By George A. King

GEORGE DEWEY HAY, known to the Radio fans of the country as "The Solemn Old Judge," now director of Radio Station WSM, Nashville, Tennessee, won his way to fame and popularity not only through his original ideas of broadcasting and novel stunts, but because of strict adherence to his Radio slogan, "Never Fail to Broadcast a Smile." Mr. Hay is now living up to his reputation at WSM, where he is guiding genius of the station as well as chief announcer, for "The Solemn Old Judge" still keeps in touch with his large Radio following over the microphone, in addition to directing the activities of WSM.

"It isn't so much what the announcer says into the 'mike,'" declares Mr. Hay, "as what he doesn't say, that counts toward popularity." And a host of Radio fans put their seal of approval on this philosophy when, through the Radio Digest

popular announcer contest, they voted him the most popular Radio announcer in the world in 1924. "The Solemn Old Judge" is a newspaper man who recognizes the importance of the Radio as a news medium; a humorist who appreciates a joke when it is on himself as well as when it is on the other fellow, and who understands without being cynical that people and their doings are always amusing; a psychologist who knows the importance of putting himself in a position of middleman between the artist and the listeners.

Mr. Hay was born in Attica, Indiana, and spent ten years of his life in the Hoosier town. Before his debut as a Radio announcer he was a newspaper reporter and feature writer on the Memphis Commercial Appeal. He brought every bit of this experience to his Radio work and regards Radio as practically a new kind of newspaper, with a circulation running into the millions. "The announcer must have a nose for news," he says. "Radio is the world's newspaper and the announcers are its reporters."

"The Solemn Old Judge" took his first Radio steps as chief announcer for WMC, the Commercial Appeal station, at Memphis, Tennessee. Everybody in the Southland listened in on George Hay when he started down the Mississippi river from WMC with his "Hushpuckiny," a river boat whistle. Within a year both the announcer and the Memphis station were known wherever people talked or listened "via Radio." The "Hushpuckiny" was Hay's original idea and it floated over the Southland like an invisible boat steaming down the inland streams.

When Hay deserted the South for Chicago about two years ago to become chief announcer for WLS there, he left the "Hushpuckiny" in Memphis and started cross country with the locomotive as his Radio vehicle. Radio listeners soon learned that when they tuned in on the long, hoarse whistle of the locomotive they would hear the familiar, cheery voice of "The Solemn Old Judge" in another second; "WLS-Chicago, the WLS Unlimited is starting on its daily transcontinental trip over the trackless paths of the air."

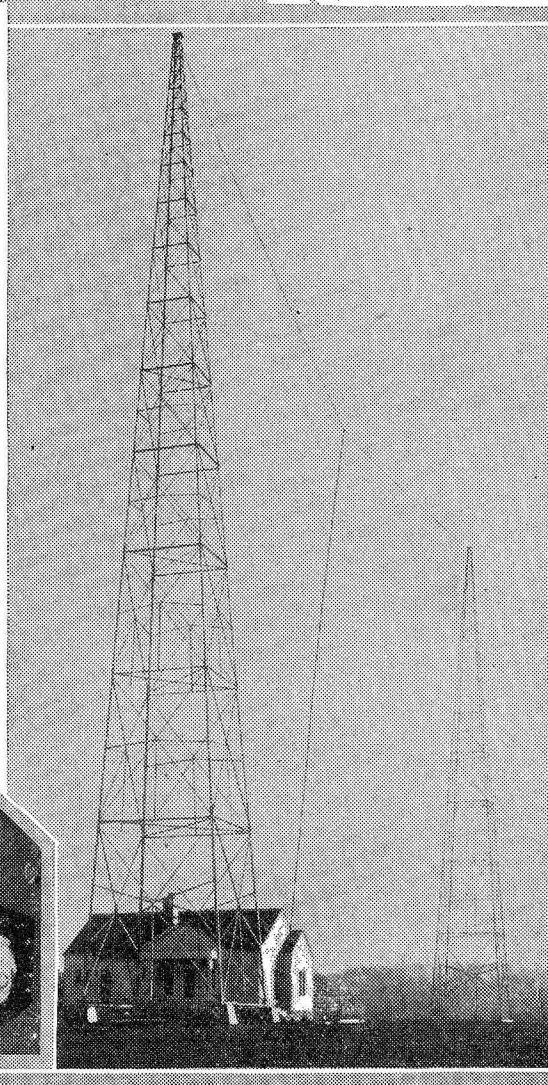
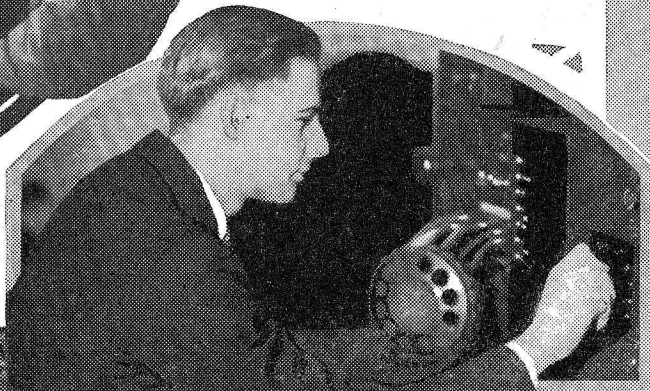
While in Chicago, Hay was the chief cog in a human appeal sent out over Radio following a tornado which cut a swath of death and destruction in Missouri, Illinois, Indiana, Kentucky and Tennessee. "The Solemn Old Judge," with the quick judgment and action acquired through his newspaper training, immediately started to broadcast appeals for financial aid for the victims over WLS. A relief fund was started, and night and day "The Solemn Old Judge" was at the microphone with little

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"Dixie Dew Drop," is popular name given to Uncle Dave Macon (left) who has plunked his banjo in the ears of millions. Thomas L. Parkes (below), WSM engineer, is equally handy at the mike or controls.

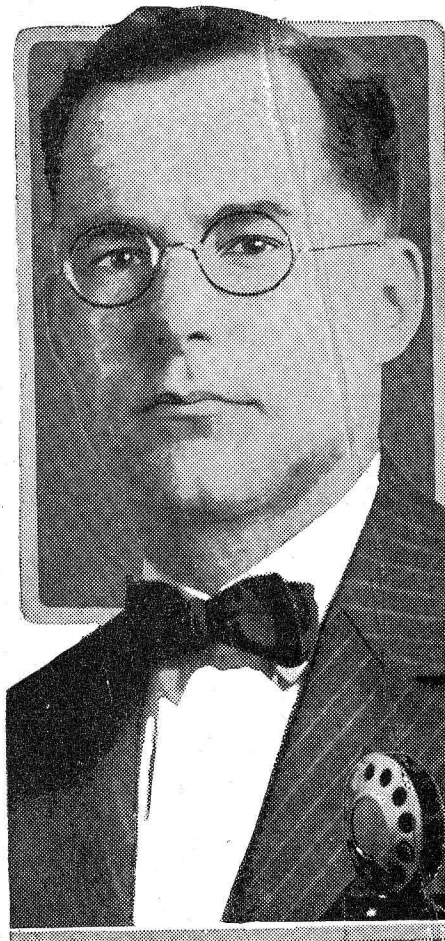


Kindly and "folksy" sorta man is Solemn Old Judge Hay (right), first winner of loving cup. Jack Keefe (below), associate director. WSM station towers at lower right.

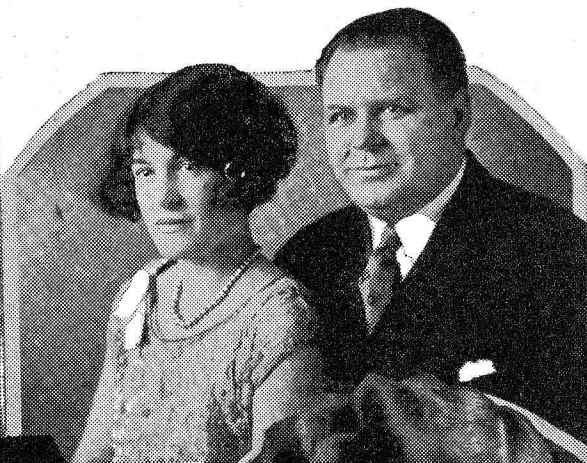


Radio Plays Motor Obligato

DETROIT, AUTOMOBILE Capital of World, Seeks New Laurels as Broadcasting Center with Station WGHP Leading Way in Adroit System of Air Exploitation.



T. Stanley Perry (left), directs musical features at WGHP. Mr. and Mrs. Eddie McGrath (below), stars in the Wolverine Frolics.



By HAROLD P. BROWN

EVER since Henry Ford quit the farm, moved to town and started in business for himself, Detroit has been bowling along with the pace makers of American cities, getting "bigger and better."

Automobiles and more automobiles has been her motto until now, it would seem, she can justly claim to be the automobile capital of the world. Yet Henry Ford cannot claim all the glory. No single automobile industry could fairly flaunt such a phrase as "the car that made Detroit famous." Detroit is famous for all kinds of cars—from twin-twos to twin-sixes. "Detroit" and "automobiles" are the real twins so far as name identity is fixed in the motoring mind.

Indirectly, out of this association, the Michigan metropolis seems now about to achieve a new kind of fame. The great indoor sport of Radio is weaving a laurel wreath for her brow.

Less than a year ago a keen-minded young man who had already made his mark in the world, literally as well as figuratively speaking, came home from a strenuous day in the office and stretched himself out in a comfortable chair in his house. He observed, rather curiously, against the opposite wall a new object of furniture. It was a new top-notch Radio receiver. He never had taken much interest in Radio because the few that he had heard did not seem to reproduce very satisfactorily. They lacked the true artistic relay of the original sounds.

Rather indifferently he watched a member of the household adjust the dials. Music, sweet and gentle, drifted melodiously into the room. It was a bit of opera from the Detroit Symphony orchestra. George Harrison Phelps sat up abruptly and alert. He was more than surprised. He was positively startled.

"I didn't know Radio was really like that," he observed, still listening. "Why that is real music! I can scarcely believe it. It seems incredible! Why that must be the magic rug and I am actually in the presence of the orchestra! How can it be?"

FROM that moment the man who created and acquainted the world with the unique style of advertising of the Dodge Brothers motor cars was a Radio enthusiast. He hailed it as a triumph in the way of a new vehicle for entering the American home with treasures from the world of art. He saw the practical side of it, too, for he was the head of a great advertising concern bearing his name. Yet he scorned the thought of utilizing Radio to cheapen the works of the masters harnessed irreverently and irrelevantly with petty exploitation.

At last he devised a way and Station WGHP, Detroit, came into being. It was inaugurated last autumn, dedicated to the best that Radio could produce. Its mission would be to convey, unostentatiously, a tribute of appreciation from the united clientele of the George Harrison Phelps, Inc., national advertisers, to patrons and the public in general.

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Talented musicians who are capable of playing the best in unison or in solo make up the operatic features and the Little Symphony orchestra. Among the several who have particularly distinguished themselves are the ones whose pictures are seen here: Mildred Carner Johnson (extreme left), contralto; Albertine Schmittke (second), soprano; Leona E. Mitchell (center), soprano; Mme. Gizi Szanto (third), pianist, and William D. Laurie (right), managing director.



Travelers Hear Station R. R.

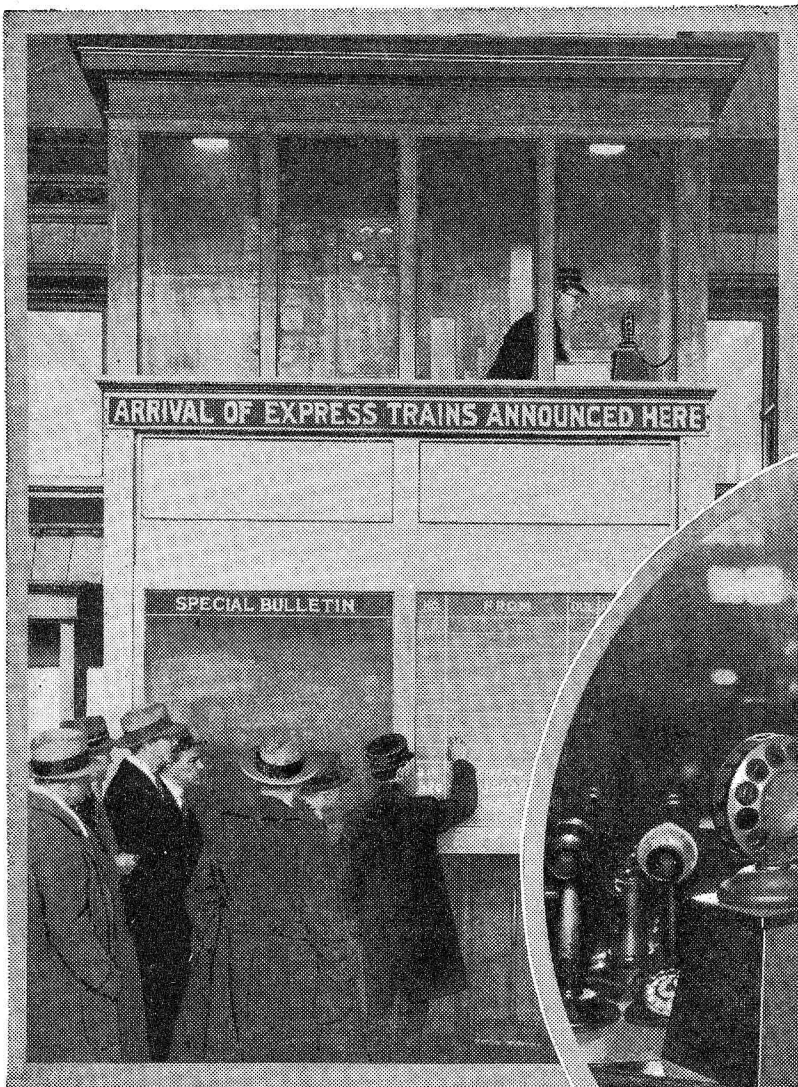
SCENE: Waiting room of a metropolitan railroad station a few years hence. Broadcasting studio seen through a window from the main waiting room. Loud speakers placed about big room convenient for a thousand or more passengers. Announcer at mike.

"LADIES and gentlemen: While we are waiting for the Pullman boys to get sleepers ready for the Nighthawk Express to Chicago we will listen to a few negro melodies by the George Brothers of Georgia."

Four white jacketed colored men may be seen through the transom taking their position before the microphone. Soon the vast waiting room is resonant with their voices intermingled with strains from banjos and guitars. The singers finish one song and then another. People come in from the street until every seat is filled. The big waiting room is transformed into an auditorium. The announcer steps again to the microphone. His voice is heard from the loud speakers.

"Twenty minutes before the Nighthawk sleepers are ready. I have some very good news. Mr. Tito Curci, the famous tenor of the Metropolitan opera, has just come into the station on his way to Chicago and has consented to sing for you."

The great artist is observed removing his overcoat and a moment later he is heard and his golden voice thrills the audience that now nearly fills the station for it happens that nearly every evening now some celebrity may be depended upon to be heard in this station. Sometimes a program may be heard brought in from a distant broadcasting station.



PENNSYLVANIA Lines Install System to Inform and Entertain Passengers in Philadelphia Waiting Room. Broad Service May Follow.



Above may be seen the first "Station R. R." in America with uniformed announcer at microphone located at Broad Street station, Philadelphia. At right is near view of announcer at microphone. Only antenna is missing. Lower pictures show loud speaker arrangement.

By **K. D. PULCIPHER**
Editor of *The Pennsylvania News*

A MINIATURE broadcasting system is now being used with marked success for train announcing by the Pennsylvania Railroad in Broad Street station, Philadelphia. An experimental test made several weeks ago, in which temporary equipment was used, clearly demonstrated the advantages of broadcasting train

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Is this mere fancy? No, sir, it is not. The idea was conceived some time ago by J. O. Hackenberg, superintendent of the Philadelphia terminal division of the Pennsylvania Railroad. In a modified form it already has been installed in the Broad Street station of that line in Philadelphia. John R. Harper, an employe of the railroad whose voice had been heard from various of the local broadcasting stations was selected to announce and direct. The expressions of surprise and satisfaction on the part of the waiting passengers seemed to warrant all that had been hoped for. K. D. Pulcifer, editor of the Pennsylvania News, was asked to prepare the following report of the experiment:



John R. Harper of Penna. Lines, experienced Radio broadcaster, is first "Station R. R." Announcer. He jokes and chats over mike.



SURE-FIRE STUFF

by HARRY VAN DEMARK

JOHNNY CLAVERING paused in the wings as a deafening round of applause came from the auditorium. Appearing in the next-to-closing position at the Palladium, billed as "the world's greatest monologist," Johnny had finished dressing and strolled upstairs some time ahead of his turn as he frequently did. It was the opening matinee of the week, and on such occasions he often watched the other acts from the wings, or through the little square hole in the tormentor.

Out in "one," singing syncopated melodies before a silk drop, was about as charming a bit of femininity as Johnny had ever seen.

"Clever kid, ain't she?" queried the stage electrician. His eyes were glued on the cue sheet, as he gradually adjusted the dimmers, and made the transition from "whites" to "blues," as called for on the light-plot.

"Seems to be," Johnny returned. "Who is she?"

"Some new gal from the West. Name's Sheila Shambaugh. Took the place o' Hindle and Harrington, outa the bill on account o' sickness."

Johnny nodded. "A nifty little hooper," he observed.

Sheila Shambaugh was small, not in height so much as in extreme slenderness. Her lithe body had all the hard gracefulness of a boy's, with the delicacy of a young girl's fragile bones. She had a head of glorious brown hair, bobbed in the prevailing fashion, and curling close to her neck, and brooding, black, velvet eyes that suggested Latin forebears. Her tilted chin and indeterminate nose matched her curly locks.

Her slender, but graceful limbs, spick and span in black silk tights and dancing pumps, flashed through the concluding number of her routine, as she bowed herself off but a few feet from where Johnny stood.

"That's the way to do it," Johnny called encouragingly. "Take a bow now like a nice little girl."

She nodded toward him unsmilingly, flashing a look of resentment from her somber eyes. She took three bows, waved a dainty hand to the orchestra leader, signifying that she was through, and made her final exit.

"You could 'a' took an encore," growled the electrician. "However, that ain't none o' my affair."

"You're right; it isn't!" she snapped.

"MAYBE you'll be good now, Tom," laughed Johnny. The girl turned the same unsmiling gaze upon him again.

"I don't know who you are, and I don't care. But I resent flip comment from stage hands and if you don't behave I'll report you to the front of the house."

For an instant Johnny was non-plussed. Then he laughed. "All right, sister, if you think that will do any good," he advised. Then to the electrician: "The younger they come and the greener they are, the more upstage they get—eh, what?" And Johnny walked away.

"Mr. Fresh!" the girl flung after him. She paused at the head of the stairway leading down to the dressing rooms. "Who is he, anyway?"

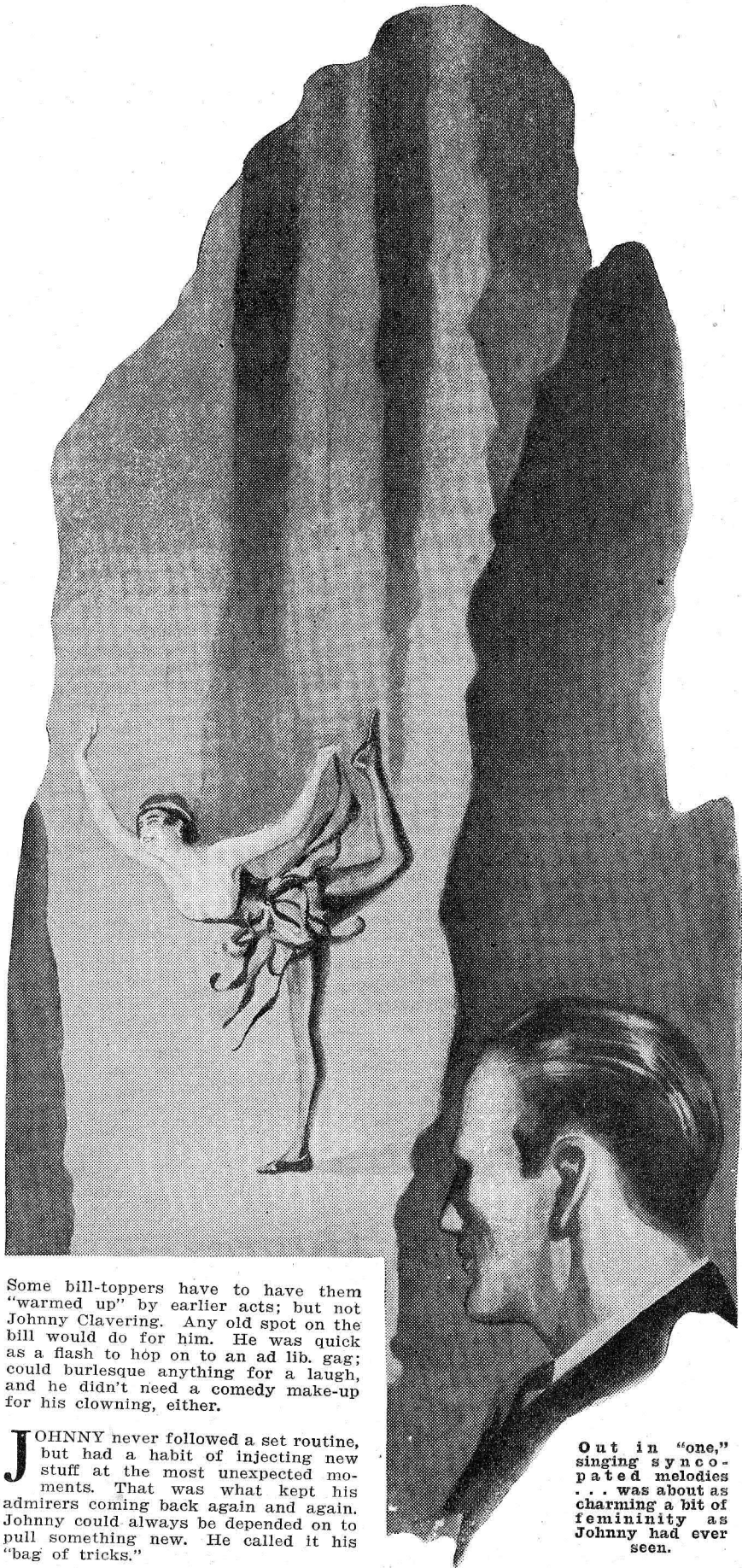
"Him? Oh, that's only Johnny Clavering, the headliner on this bill," returned the electrician in mock gravity.

"Johnny Clavering? The—the monologist!" gasped the girl.

"Yep; that's him. And say—you think they liked you out there. Wait till Johnny goes on and sets 'em wild. And say, Miss Shambaugh, there wasn't no sense in your talkin' to him the way you did. Why, if you was in trouble he'd be the first person to help you out. Everyone in the show business knows Johnny. He's helped more sick actors get well, an' more down-an'-outers get work than any dozen other fellers put t'gether."

The girl did not reply, but after a moment went slowly down the stairs, a serious look on her face. Fifteen minutes later, while Johnny was doing his act, Sheila Shambaugh, a dressing-gown draped about her, stood in the wings and heard him "wow" them.

IT WAS TOUGH LUCK When an Accident Broke Up the Vaudeville Team of the Dancing Shambaughs. Sheila Had to Carry On Alone, Make a Living and Pay the Doctor Bills for Bobby. Then Johnny Clavering, the Headliner, Saw Her, and Just in Time—It's a Peppy Romance of Love and Danger Behind the Footlights—This SURE-FIRE STUFF by Harry Van Demark.



Some bill-toppers have to have them "warmed up" by earlier acts; but not Johnny Clavering. Any old spot on the bill would do for him. He was quick as a flash to hop on to an ad lib. gag; could burlesque anything for a laugh, and he didn't need a comedy make-up for his clowning, either.

JOHNNY never followed a set routine, but had a habit of injecting new stuff at the most unexpected moments. That was what kept his admirers coming back again and again. Johnny could always be depended on to pull something new. He called it his "bag of tricks."

Out in "one," singing syncopated melodies... was about as charming a bit of femininity as Johnny had ever seen.

At the night performance Sheila was more civil. She seemed to be trying to make amends for her hasty words of the afternoon; and, with it all, she looked tired and worried.

Johnny was standing in the wings again when she came off, and she turned a rather shame-faced gaze in his direction as she bowed a contrite recognition.

"They liked you even better tonight," he said, in a friendly tone.

"Do you think so? I thought they were rather cold."

"Audiences are that way. Sometimes we work our heads off and they're undertakers out in front; then, again, they go wild over nothing."

She started for the steps, then turned and frankly extended her hand. "Mr. Clavering, I'm terribly sorry for the way I spoke today. I—I didn't recognize you, and—well, I was irritated over something, and—"

"That's all right, Miss Shambaugh. Suppose we lunch together after the show and see if we can't be friends."

There was just the slightest hesitation before she replied:

"Very well—and—thanks!"

Across the table that night in a modest little coffee house—Sheila had steadfastly refused to go the Ritz as Johnny urged—the headliner eyed his companion keenly as he sought to fathom the reason for those melancholy eyes.

She ordered modestly and sensibly. "I don't eat much after the show," she said half-apologetically.

"NOR I," returned Johnny. "As a consequence my sleep is usually free from the nightmares so often associated with lobster and other dainties of the fish and animal tribes. Come now, little girl," he urged, suddenly serious, "what's the big trouble about?"

"The—big trouble?" she faltered, surprised at the query.

"You're not happy. Any complications in your bookings?"

"Well, I haven't played as often as I'd have liked to; that seems to be a general complaint of performers. But you, Mr. Clavering—you're booked all the time."

"I've been rather fortunate. Good agent. That means a lot. Who's yours?"

"Barnes Jadwyn."

"Jadwyn!" exclaimed Johnny. "You don't mean to tell me that—" He broke off and drummed in nervous fashion on the table.

"Evidently you do not like Mr. Jadwyn." This a little resentfully.

Johnny's reply was evasive. "I don't know him well enough to either like or dislike him."

"But you started to tell me something about him."

"On second thought, perhaps I'd better not."

"Who was it wrote something about it being better to leave a thing unsaid than tell but half?" she chided.

"I don't know. That's a new one on me. Longfellow, or Bobby Burns, or some of those poetical chaps, I'll bet. Whoever wrote it, it's a sure-fire gag."

"Tell me why you dislike Mr. Jadwyn." "I don't, unless I've developed an instinctive dislike for him because of the way he's treated some of my friends."

"I'm sorry to hear that. But, of course, there are two sides to every story. In my case, I'm sure Mr. Jadwyn is square. He—well, he is a friend of Bobby's—and—" She broke off and bit her lip. Was it confusion—or regret at having said so much? Johnny could not tell.

Sheila did not divulge who Bobby was, either believing that Johnny knew, or because it was not a subject she cared to discuss. She continued: "So when the—the accident occurred, he told me to go right ahead—to leave everything in Mr. Jadwyn's hands. He's been fair with me so I have no cause for complaint."

She laughed—a forced laugh, Johnny thought—and turned the conversation into other channels. Johnny tried artfully to steer the talk back to Bobby, but each time she forestalled him by some inconsequential remark. There was a note of frigidity in her manner by the time the waiter brought the food.

(Continued on page 29)

BIG RABBIT & by HUGH FULLERTON

IT WAS a dramatic moment on that broad, open air stage in the Florida jungle. Major Gaskill, proud and erect, stood defiantly between the giant negro, Trimble, and his beautiful ward, Roberta Tonneson. The rumbling mob of negroes behind us watched the developments expectantly. Trimble, in his regalia as Big Rabbit, had raised a vicious whip to bring the lash down over the white man's shoulder when the attention of the mob was diverted to a new entrant on the stage. From one side there waddled forth a tremendous turtle. Big Rabbit whirled about in amazement and immediately recognized an enemy. The turtle brought a roar of welcome from the noisy horde. Big Rabbit sprang to attack the new arrival with his whip. The mob growled its displeasure but the turtle proved he could take care of himself. Rearing himself on his hind flippers he delivered a crashing blow at Big Rabbit's mouth. I recognized the fist of my indomitable buddy, Borton. Big Rabbit collapsed and lay kicking feebly like a dying rabbit should. In the melee that followed Danforth and I seized Roberta and her faithful maid from behind the stage and rushed them to our boat. We were hotly pursued but soon eluded them all. Trimble was trussed in an ignoble heap beneath the seat. When all was still from the shore we quietly turned about and retraced our course in the hope of picking up Borton. Cautiously we crept along in the darkness, hoping that the half savage fanatics had dispersed.

CHAPTER XII

Borton Grins

FOR a mile we crept along, dangerously close to the bank, not daring to use the searchlight for fear of discovery. Then, from the darkness a voice hailed:

"Hello—over this direction."

"Dick—" I called hoarsely.

"Here—in the river," he called, guiding us. Twenty feet out from the trees, swimming towards us was Borton. I grasped his hand and helped him as he clambered over the side.

"Thank God—you're safe, Dick," I said, getting mellow with sentiment, "I was afraid—"

"Heard you go past a mile a minute. Knew you'd be back," he said, panting a little. "I swam the river and climbed a tree. Heard you returning, so dropped in and swam out."

I could not see his face, but gripped his hand hard. He was grinning—I felt that he was grinning, even though I could not see him. Then, with a chuckle he said:

"Say, wasn't that a peach of a wallop I handed that Rabbit?"

THE rising sun was laying a pathway of red and gold along the broad St. Johns, tinting the lotus pink, and gilding the water it touched when our overloaded boat, threatening to become disabled any minute, limped under the railroad bridge at Palatka. The negress, Tillie, still wearing her rabbit skins, was asleep, her head pillowed on the knee of her mistress.

Trimble, sullen and frightened, lay cramped and shackled in the bottom of the boat, Borton, plastered with mud and utterly exhausted, was curled in an uncomfortable arc, his head on a gasoline tank, grinning in his uneasy sleep.

Danforth was at the steering wheel, smoking to keep awake. In front of me Roberta was so close I could have touched her as I strove to keep the crippled motor going. She scarcely had spoken since I told her gently as possible, of Major Gaskill's death. She had wept silently for a few minutes and then said:

"He was good to me when I was small. Money drove him mad, I think."

"I fear he lost heavily," I said, thinking how to soften the blow. "He speculated. I fear your money is lost."

"The money does not count," she said. "He was my best friend when I was a little girl."

I repressed a smile, which came because she looked so small and childlike as she spoke as of a far distant time. "You have relatives, and friends?" I asked.

"None that I care for, excepting Mr. Kincaid. I will not be a burden. I must think."

She fell silent, thinking, almost

motionless. She had not slept during the slow, perilous trip through the Ocklawaha and down the St. Johns. Now, as the sun rose, she turned her face to me.

"It is beautiful," she said quietly, her soft, southern tones more tender because of sorrow and trouble.

She seemed so brave and so helpless I longed to tell her I loved her, and beg her to permit me to care for and protect her. The sight of the sullen negro watching us as we talked, and of Danforth's hunched shoulders silenced me. Then the thought that I, penniless and out of work, should offer her succor made me glad I had not spoken.

"It will all come out all right," I said inanely.

OUR landing at Palatka was observed only by a few negroes who had gathered to load freight for the early morning boat. They gazed curiously at the dethroned and shackled king, and at our disguises, now half washed away, but did not move. We hurried the women from the boat and waked Borton to escort them. Danforth and I took Trimble to the nearest store where we telephoned, delivering him presently to the sheriff, who relieved us of the prisoner and agreed to summon the coroner and to send a posse to bring the body of Major Gaskill. That duty done I hurried to the telegraph office and sent a telegram to Mr. Kincaid which read:

"Miss Tonneson safe. Major murdered by negro Trimble, who is under arrest."

Then I went to Putnam, fell into bed and slept until four o'clock in the afternoon. My first inquiry after I awoke and sent bell boys skirmishing to bring me clean raiment, was for Miss Tonneson. I found her on the porch, pale and a little worn by grief and fatigue, but calm, and she greeted me with a wan smile. Borton was lounging lazily in a big chair, drawn close to hers. His athletic body was now clothed in white flannels, his face wreathed in its customary grin. A little pang of jealousy smote me as I saw how handsome he appeared even in makeshift togs from the nearest store, and I prepared to plead business with the sheriff and leave them together.

"I have been trying to thank Mr. Borton," said Roberta, offering me her hand but making no effort to change her easy position, "I have waited to thank you."

"Let her do it, Wen," said Borton, grinning joyously. "She piles it on thick

and rubs it in. It is quite the most delightful experience I have had."

He arose as he spoke, lazily, but with his inimitable grace.

"It is best to be alone when she thanks you. I'm off to find Danforth."

"Bring him back with you, Mr. Borton," she commanded smiling at his quaint mannerisms. "Then you must tell us how you found me."

"Yes, do Dick," I urged. "I have been puzzled to try to figure how you ever worked out your theory."

"Back in a quarter of an hour, if Miss Tonneson can finish thanking you in that time. I had half an hour myself."

He grinned and sauntered away, and I blessed him for leaving me alone with her, even for so short time.

Instead of speaking we both sat gazing out toward the river.

"I understand how you feel," I said, breaking the silence. "Please do not try to thank us. We are all glad you are safe."

"I felt all the time you would come," she said quietly. "I never doubted it."

"Knew we would come; how?"

"I did not say 'we'—I said you," she replied steadily. "I knew only you. I feared at times you had not received my message."

"Did you know we were in the car that night?"

"No—not until Trimble turned on Uncle, then Uncle told me. It was all like a dream until we were on the boat in the river."

"We never could have traced you but for Borton," I said, with a jealous pang.

"I knew you would try. It seemed all the time as if you were coming closer."

WE TALKED calmly of the weird events of the fortnight, of her alarm when she discovered Major Gaskill in the conspiracy with Trimble and herself being carried away in the car, of her change of fortunes. With every accent of her soft voice my wild hopes rose higher.

"Miss Tonneson—Roberta," I said, using the stilted form of the novelist.

"Now that you are no longer wealthy I—"

"Mistah Lindsay—Mistah Lindsay."

A colored boy, bearing a telegram emerged onto the porch. Storming inwardly I tore open the yellow envelope and read:

"Good work. Inform Miss Tonneson principal investments saved. Market turned. Ship body here. Keep mouth shut. Kincaid."

I stared at the telegram as its meaning became clear, and passed it to the girl.

"I congratulate you," I said dumbly, "You are again wealthy."

She paid no attention, but commenced to weep softly.

"Poor Major," she sobbed. "If, he—"

At that instant Borton and Danforth returned.

"All arrangements made," Borton said cheerfully ignoring the distressing tableau. "Nothing to do, so I'll take great satisfaction in relating to you the inside story of the great rabbit hunt. I say great delight for the reason that my little playmate, Wendell Phillips Lindsay, scoffed at my theories and even went so far as to insinuate that my mind was affected."

"I apologize, Dick," I hastened to say, "I'll admit I was an ass—but how did you figure it; I cannot understand yet?"

"WHEN I was a kid," Borton commenced, stretching himself comfortably in a chair, "I had a black mammy on our place in Alabama. She was from the Guinea coast and she told me the folk lore and traditions of her people until I used to creep into bed and shiver with fear. Since then I have read as much as possible about the negroes of the South. Most of the tales on Southern plantations are garbled forms of the zootheism of African tribes; the worship of animals. Some of the animal gods are good, some bad, some serious, some humorous. The Rabbit is the best known. I suppose in this country he'd be the god of Big Business. He is the smartest and shrewdest of the zootheistic deities, and usually wins by trickery. He is also a luck bringer, which accounts for the superstition that the left hind foot of the rabbit killed in a graveyard brings good luck. Big Rabbit is associated with Mammy Bammy, sometimes called Big Money by the American negroes. Possibly Mammy Bammy means Big Money. Big Rabbit is also called Riley Rabbit. Perhaps all the names are corruptions of African tribal words. If you have read Uncle Remus you have heard of the doings of Riley Rabbit and his Mammy."

Borton paused to ask permission to smoke, then continued:

"As soon as we heard of this case we heard of rabbits. The disappearance of Major Gaskill, his returns with money, his intimacy with Trimble, the evident fear and respect of Trimble by other negroes, and Trimble's unnatural



Miss Tonneson sat in a steamer chair, wrapped in a rug. . . . "I'm afraid Mr. Borton is right about—about—your mulishness," she said. "I beg your pardon," I answered stiffly. "I do not quite understand." She made a little gurgling sound, her eyes danced and she broke into a nervous, light laugh.

influence led me to the conclusion Major Gaskill was playing upon the superstitions of the negroes and using Trimble to get money.

"When I discovered Major Gaskill had rabbit signs all over his library and that he was an authority on the subject of negro superstitions I jumped to the conclusion he had set Trimble up as a sort of deity, and was using him to control many of the ignorant negroes. When Trimble, at orders of Col. Gaskill, abducted Miss Tonneson to prevent exposure of their plans, I was alarmed, convinced that Gaskill had trained up a Frankenstein who would assume the power and turn upon his master.

"Trimble was a victim of self hyp-

(Continued on page 28)

Old Man Static's Funeral

WAY back in the days when Mr. Edwin Armstrong was having a "heck" of a time trying to persuade the "Hams what were" that they should own a license to use his circuit regenerative at ten dollars per privilege, two "brass pounders" made the best galena survey Dubuque County, Iowa, ever had. Every inch of ground which had a rock upon it that might possibly prove grade one to twelve galena was tramped over a dozen times—and we got our "hunk." Oh boy, if you old hammers know what I mean!

Those two ambitious little trampers were a fellow named Le Vin and the writer. Le Vin claims that he cannot write a story to his wife that gets by, hence he delegated me to go ahead but leave his name out, which I have, so far as the first part of it is concerned.

With this "golden nugget" we copied calls and messages—sometimes. Then came the big night when a CQ rolled in, distant almost forty miles. CQ was enough. What he may have wanted to say was of no consequence. We had his call, and inasmuch as it was miles further than we had ever hoped to receive for the next fifty years, we called it a night, stuck out our manly chests and refused to converse with the ordinary mortals.

But the next afternoon came the big surprise. Overly kind and considerate painters when working on the home the previous fall, had broken the lead-in and wrapped it around a convenient nail. To make a long story short, our first big time reception had been accomplished with about seven feet of lead-in and—well, it must have been a whale of a ground. What phenomena had done the trick and how were we able to receive at all was quite beyond two small boys. In place of broadcasting the facts, we were careful to keep very quiet about them realizing that if we mentioned that we had used practically no aerials—then both of us would have been liars instead of but one.

The Mystery Solves Itself

Yet, you who are interested will appreciate that years after, altogether too many years—the reason why has been made clear and from this early experience the simple underground aerial which will be described in this article has been evolved. In reality, it is not an underground aerial, but in truth a mighty good ground with a touch of Clerc Maxwells gray matter added to the batter and the finding of Sir Oliver Lodge put over it for the crust.

It works well in more localities than the other types that have been described, while its usual performance is such as to warrant the statement that the system is a correct step forward to the solution of the static bugbear. Before describing its installation, the author feels that a more clear understanding of the word "resonance" is desirable, as well as "oscillator excitation."

These words need not alarm you as they constitute the first and last attempt to use technical phrases in this article. Webster defines the state of resonance as "a result from the repetition of small impulses which, when two bodies are in tune, have a purely additive effect, but otherwise tend to neutralize each other. Electrical resonance occurs when an electrical circuit has a natural period equal, or nearly equal to the period of the source of alternating electromotive force." Or in other words, this means to vibrate in sympathy or

WHAT SIR Oliver Lodge Has Recently Said About Forced and Free Vibrations, and Why a Good Ground Is Necessary. Part V.

By MILO GURNEY

synchronism with some other source of sound or electrical oscillation.

"Forced" and "Free" Vibrators

There are two classes of vibrators, viz, "forced" and "free." A "free" vibrator is one with a definite frequency of its own and not coupled to an influencing or driving medium. Once excited and left to itself, the vibrations will gradually die away. A tuning fork is an example of a free vibrator. Electrically, any closed circuit possessing inductance and capacity, such as an inductance used in Radio receivers, is a free vibrator so long as there is no driving agent near it.

Conversely, any such circuit coupled to an exciting circuit immediately becomes a "forced" vibrator. Receiver circuits are always forced vibrators, with the strength of the excited oscillations depending upon the tuning. Any mass may be caused to vibrate, however, independent of tuning by the application of sufficient stimulus. A child can readily cause a church bell to ring irrespective of the strength of its blow, if such blows are properly timed. This is because of additive power at the point of resonance.

Sir Oliver Lodge points out a most unusual observation which is often noticed when tuning one's receiver. He says that in such cases when tuning, the free vibrator tries to vibrate at its own period and does so until the driver or impressed frequency dominates. When at this point, that which is thought to be a

heterodyne whistle occurs. In effect it is a true heterodyne, for the two frequencies are superposed. Once the driver dominates, the free vibrator synchronizes and we secure a response at a given amplitude.

Strong Signals Not Needed

It is obvious, however, if one will but follow the analogy of the child causing the church bell to ring, that extremely strong driving signals are not required from the antenna to bring the input into resonance, as its directed power is additive, or builds up. It matters little how weak the received signal may be. If the acceptor circuit is of the correct design, the received signal may be worked up through the power of resonance to a desirable value. Bear this statement in mind as it has much to do with the underground antenna which is offered herewith later.

This further, interesting statement should also be rehearsed until one is letter perfect in his understanding of it:

"When two circuits are coupled together, neither of them are free vibrators, and each interferes more or less with the other, while the combination of such circuits cannot hope to attain the energy of a free vibrator. Successful amplitudes are therefore to be had only when the circuit used is of very low resistance and so arranged that it will be driven or disturbed by the forced vibrations arriving from the station tuned to, in a slight manner." My authority again is Sir Oliver Lodge, inventor of tuning, and Sir Oliver is not to be denied.

Reducing to Layman Language

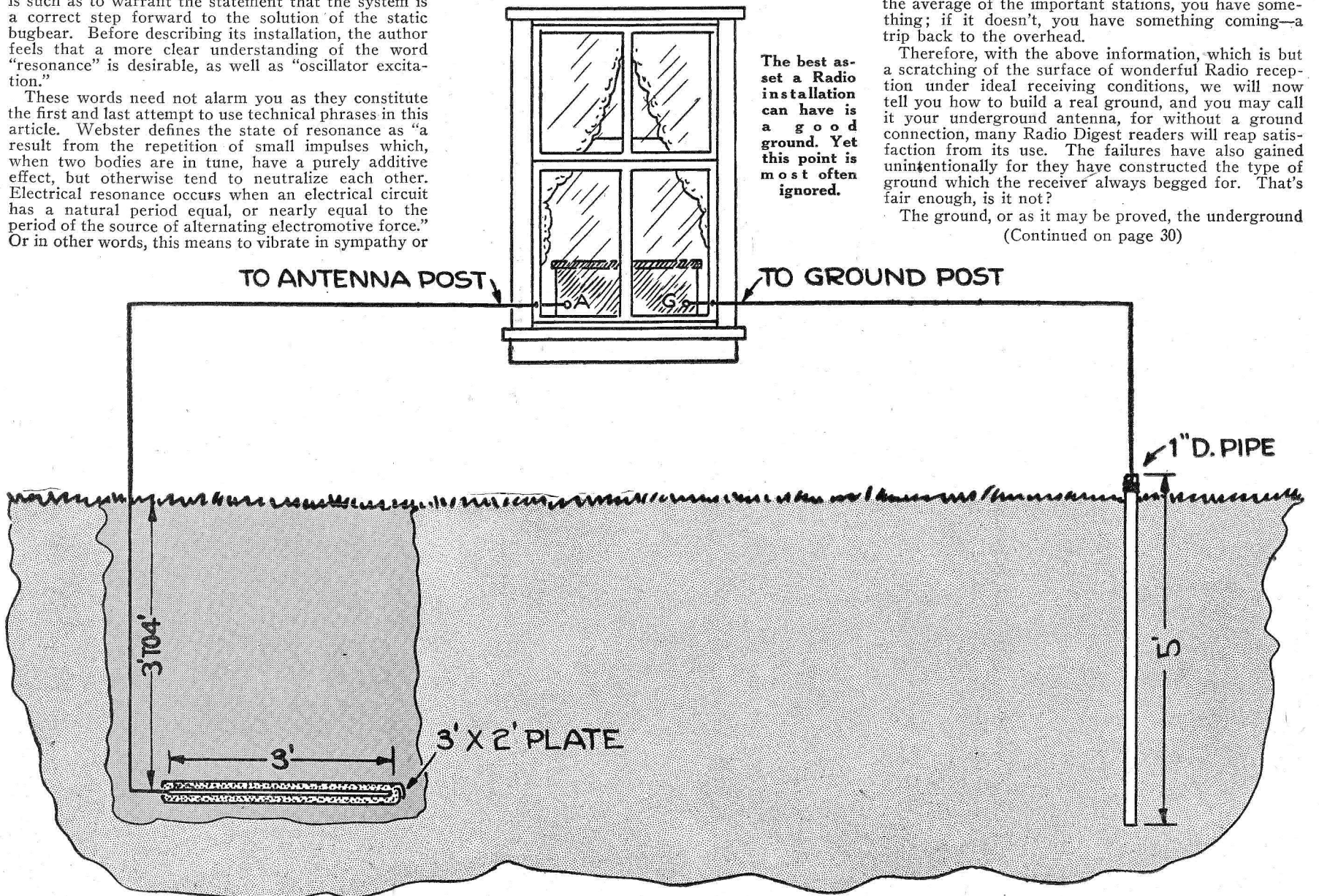
What does all of this mean in language of the layman? This and this only: (1) We are using altogether too much antenna. (2) We should not conductively couple to the grid input. (3) A fixed condenser of some value should be inserted between the aerial and its connection to the receiver. (4) Any tendency for the existence of magnetic coupling should be avoided.

That is a pretty big order. One cannot well change their present set or the coils to enlist the advantages of this ideal, but in direct ratio to the efficiency of your receiver is the lack of any antenna required. What you will do then, unless you have the crack performer in the Radio receiver line in your town, is to forget the installation of other than a husky outside aerial and suffer in silence. How are you to determine this point? Build the best ground connection possible, attach it to your receiver and go to it. If it pulls in the average of the important stations, you have something; if it doesn't, you have something coming—a trip back to the overhead.

Therefore, with the above information, which is but a scratching of the surface of wonderful Radio reception under ideal receiving conditions, we will now tell you how to build a real ground, and you may call it your underground antenna, for without a ground connection, many Radio Digest readers will reap satisfaction from its use. The failures have also gained unintentionally for they have constructed the type of ground which the receiver always begged for. That's fair enough, is it not?

The ground, or as it may be proved, the underground
(Continued on page 30)

The best asset a Radio installation can have is a good ground. Yet this point is most often ignored.



This B Eliminator Is Good

EVEN Mr. Alladin Would Sit Up and Take Notice of the Marvelous Even Supply of Plate Current Which Is Furnished When You Harness the Wonder Raytheon Rectifier Tube with Thordardson, Potter and Bradley Accessories. This B Power Unit Is Easy to Make.

By the TECHNICAL EDITOR

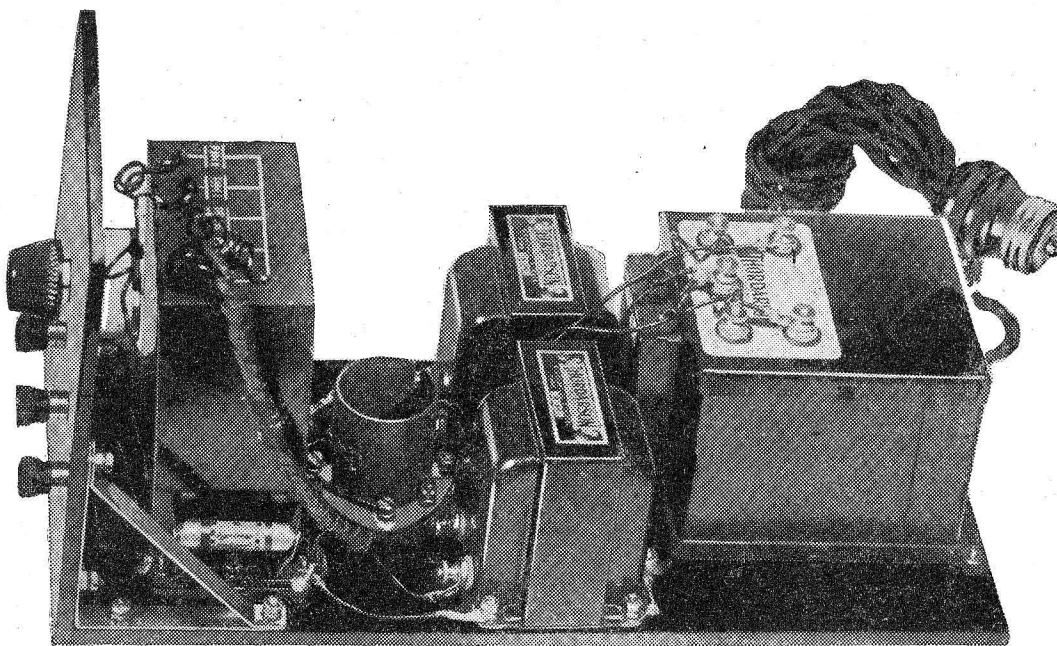


Figure 1. View of completed Thordardson-Raytheon-Potter eliminator showing the assembly. The shape may be changed to suit available space.

REMEMBER Alladin, that Arab boy who had but to pass his hand over his wonderful lamp and the Giant Genii would appear to do his bidding? Outside of the story books, however, progressive Radio has produced another wonder called Raytheon, which is nothing more than a gaseous rectifying tube so designed as to rectify the ordinary, everyday, 60-cycle electric lighting house current, and in this process of rectification, change the house current to direct current suitable for replacing B batteries for the plate supply current on the tubes of your receiver.

There's much in a name. The name Raytheon, according to Miles Pennybacker, chief engineer of the Raytheon Manufacturing company, is no exception. The word is compounded from the word Ray, analogous to ray or glow discharge tubes, and the word Theon, signifying "The Gods", hence the compound word Raytheon means "Ray of the Gods". They tried very hard to give C. G. Smith, inventor of the well-known S tube, a place in the sun when naming this new rectifier, for it was his work which paved the way for the present Raytheon, but the Smith's, so far as names are concerned, are an exclusive lot. "Smithson" would never do as the name of a tube and "Double S" showed promise yet might lead one to believe that all of the other Smith's in these United States were in on the secret. Therefore, they treated the subject as Kelly did his list of men whom he could whip—scratched off all the possible names and ran a dark horse, Theon, a Greek whose first name was Ray. Such is the destiny of fame.

TO THOSE interested, it appears that the construction of a satisfactory Raytheon is a rather complicated process. The most important of the operations is the "bombarding". Bombarding a tube means subjecting it to extremely powerful currents having frequencies of several million cycles per second. This process brings the metal parts of the tube to a brilliant orange-white heat, which drives whatever residual gasses may have been in the metal out into the tube so that the vacuum may draw them out through the exhaust. Once a tube has been bombarded four times, it is filled with the desired amount of pure gasses and sealed. From this point on, it has little chance to go out into the world unless it can pass with flying colors a multiplicity of tests. If the tube successfully passes each of these rigid tests, it is labeled, based, and the next we hear of it Alladin himself is gasping with wonder as the little giant shoves a pure unadulterated flow of rectified alternating current into the plates of his Radio tubes.

THIS little giant is however helpless unless associated with an input transformer, the proper value of chokes and a battery of filter condensers. The requirement is obvious that such associated parts not only be designed by manufacturers of mature experience, but that the history of these manufacturers show an ever zealous endeavor to construct apparatus

under the most rigid of specifications. Our selection of the parts for this eliminator has been equally rigid with the result that the No. R-195 Thordardson transformer and two Thordardson No. R-196 chokes are specified with the assurance to the builder that they represent unquestioned quality of a very high order. For illustration, the No. R-195 transformer is wound upon an oversize or generous shell type core, which after placement in its steel housing is filled with a special, stable insulating compound. Exact measurements are taken at the factory to insure that the secondary of this trans-

former is tapped at its electrical center. On either side of this electrical center, secondary voltages of the proper value of output are supplied to correspond with the B current consumption of the receiver. Realizing that any overloading of a transformer used in B substitute devices but spells final disaster, the Thordardson engineers have designed this transformer so that it will supply a plate voltage of 140 volts at 40 milliamperes, and of 90 volts at 60 mills, which is far and beyond the requirements of any Radio receiver now in general use. A further proof of its reserve power is found in the observation that even under continuous service the transformer will not heat.

The chokes display an equally careful design. Their inductance value is 30 henries, while their current carrying capacity is of the order of 60 milliamperes with a direct current resistance of 280 ohms. One can ill afford to experiment when constructing B eliminators, and this information clearly indicates that the apparatus selected represents that which is entitled to unbiased recognition.

POSSIBLY no part of an eliminator circuit is so dependent upon successful operation with complete absence of alternating current hum as is the fixed condenser filter system. This must be

such as to withstand indefinitely not only normal demands placed upon it but the surge strains which often occur. Because the insides of all fixed condensers are well hidden, and the outward appearance of many makes look very much alike, the constructor is not to blame for assuming erroneously that any old make of filter condenser will do. Don't gamble! One condenser which decides to "go west" in a filter circuit can create more profanity and trouble than a one-armed man would have with the prickly heat.

In selecting the Potter condenser block, manufactured by the Potter Manufactur-

its assembly. C1 and C2 are 2 microfarads each; C3 is 8 mfd.; C4's value is .5 mfd.; and C5 and 6 are .1 mfd. in value.

It should be understood that the condenser blocks Nos. 350 and 385 of the Potter make contain all of the condensers required for the filter shown in the diagram, and in addition, a condenser is included for the use of those who desire voltage between Det. and +B for special circuits. In the latter event, it is only necessary to connect one side of the extra 1 mfd. condenser in the block to -B and the other terminal of this condenser to one side of a 100,000-ohm maximum variable resistance. The remaining terminal of the added variable resistance is then connected to the point marked +B on the drawing. As a hum prevention device, it may be wise in constructing the eliminator to ground the -B wire to the metal cases of the Thordardson transformer and chokes. This may be accomplished by soldering to the cases or fastening the grounding wire under the mounting screw heads of the cases. If your A battery is not grounded from either its + or - terminal this should also be done.

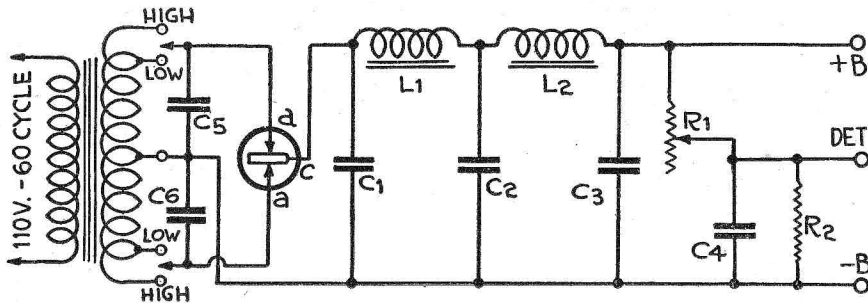


Figure 2. Circuit of Thordardson-Raytheon-Potter eliminator.

ing company, for the filtering system in this B eliminator, samples of the linen condenser paper and tin foil, as well as the impregnating compound which Potter employs, were secured and put through rigid tests for quality. In addition the No. 350 block, which is specified in this assembly, was given a breakdown test that was quite beyond any abuse which might occur when in service. The results of this careful selection will be enjoyed by the listeners who build the eliminator. Capacity ratings of the Potter block were found very accurate while a summary of the care taken in their manufacture is evidence of this company's evident determination to command recognition through building under modern factory inspection methods.

CIRCUITS in mystical Radio come and go, like the Arab. Today's popularity may be followed by their absence on the morrow without anyone having seen them fold their tents and silently vanish into the night. B eliminator circuits, however, are not subject to change. There is but one circuit using the Raytheon tube and that is as offered by the tube manufacturer. It is shown here in figure 2. All filter condensers are keyed in the drawing, and the wiring diagram is so simple that the greenest tyro cannot make a mistake in

THE socket employed to hold the Raytheon tube is standard. The +F and -F terminals are connected together and in turn connected to one terminal of the first choke. The grid terminal of the socket connects to C5 while the plate terminal of the socket connects to C6. To each of these C5 and C6 connections short flexible leads are connected and equipped with clips in order that these connections may be made to either the low or high side of the Thordardson input transformer.

A photograph of the completed unit is shown as figure 1. Here it is noted that an oblong shaped assembly plan was carried out. This may be changed to any convenient form the constructor may desire in order to fit into some special cabinet. However, if the oblong form is used, the baseboard dimensions are 6½ by 14 inches and the front panel 6 by 6½ inches.

R2 is a fixed resistance of 10,000 ohms while R1 is a variable resistance of 100,000 ohms maximum. A word about the Allen-Bradley resistances specified for this eliminator will save many a constructor much grief and dodge trouble in the offing. The Allen-Bradley company, as many of you may know, are resistance specialists. Their entire organization has for years made an intensive study covering this field of apparatus. If they do not know how to make efficient resistances of all types, it is only fair to assume that their business never would have been able to survive. The writer's experience with their products, covering a period long before Radio became popular, has been such as to select both their variable and fixed types for the construction of this B substitute without equivocation.

BUT OH—what a lot of trouble these little devices have in store for the person who attempts to abuse them. Each variable resistance is operated by a knob attached to a plunger

(Continued on page 26)

LIST OF PARTS

1 No. R-195 Transformer	Thordardson Elec. Mfg. Co., Chicago	\$ 7.00
2 No. R-196 Chokes	Thordardson Elec. Mfg. Co., Chicago	10.00
1 No. 350 Condenser Block	Potter Mfg. Co., North Chicago	12.00
1 No. 385 Condenser	Potter Mfg. Co., North Chicago	1.50
1 Standard Vacuum Tube Socket		.75
1 No. 10-E Fixed Resistance	Allen-Bradley Co., Milwaukee	.75
1 No. 10 Variable Resistance	Allen-Bradley Co., Milwaukee	2.00
Formica panel, wire, baseboard, etc.		1.50
Total Cost		\$35.50

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No. 3

Let Congress Adjourn

AS THIS issue of Radio Digest goes to press, we learn that congress, the body of so-called legislators in Washington, is thinking seriously of continuing its session through the first week in July. In that event the senators and representatives will still be profoundly legislating as this edition passes into your hands.

The reason is that the boys "on the hill" at the Capitol are somewhat chagrined and panicky at current events. The primaries have been too much for them, and the congressmen feel that maybe this man Coolidge hasn't been such a prophet as their own good judgment might have been. The constituents in many states have been taking their pounds of flesh, and while the operations always have been proclaimed a success, nevertheless the patients died.

And who wants to be an ex-senator or ex-representative?

In the meantime, before congress has adjourned, we wonder if any Radio legislation will have been passed by both houses.

We have just glanced over a revised copy of the White-Dill bill, No. H.R. 9971, as reported out to the senate by the committee on interstate commerce. It looks very little like the original bills sent into that committee. Its amendments are so many that Mr. White and Mr. Dill would probably have great difficulty in recognizing it.

With all its changed and added features we are led to believe that careful consideration should be given to this measure by the public, the broadcasters and the Radio industry. To date the chiefly interested parties have proven to be broadcasters. The public doesn't care much, and the industry seems content to wait and see how any new Radio law would work, once it is enacted and enforced.

Whether or not we want Secretary Hoover or a commission in charge; if the latter, how large a commission; shall broadcast stations be declared common carriers; shall stations be denied the right of censorship of their own programs; who shall regulate the sale of stations; for how many years shall licenses be granted—what is the answer? Have you thought it over? Yet, all these questions will be decided by the impending legislation.

Yes, we believe it best after all, that congress forget about Radio for the remainder of its session and devote its time to such things as farm relief, the world court, prohibition and other vote-threatening issues.

A Proof of Progress

A RADIO manufacturer has become indignant over the statement of a "smart Aleck" paragrapher that Radio photographs look like most Radio sounds. We cannot become indignant over the paragrapher's comparison because we feel that the poor fellow is merely uninformed. We ask him to correct his statement to say, "Radio photographs look like Radio once sounded."

Certainly reproduction in Radio has been vastly improved during the past four years. Atmospheric, of course, have yet to be overcome, but these do not figure in reception from local or nearby stations. A modern, medium quality receiver and loud speaker nowadays is superior to the phonograph in tone.

Let us prove the latter. For nearly ten years prior to the wave of Radio popularity, talking machine manufacturers were content with what they considered very good results.

But since Radio has become an everyday necessity in many middle-class homes and Radio reproduction was improved to such a high quality that inroads were being made on the phonograph industry because the current model phonographs could not match the quality of Radio receivers, the manufacturers of talking machines got busy. In the past year we have noted revolutionary improvements in their reproducing systems. These improvements were forced by Radio!

As Radio sound reproduction has forced improvement of the phonograph, so will Radio picture transmission, perhaps, cause the motion picture photography to search for better means.

RADIO INDI-GEST

The Answer To George's "Indi-Gest Poets"

The Indi-Gest poets come and go,
And so do people, don't you know?
Folks sail the seas of life awhile—
Then one by one pass on in file.

Sometimes, the moods are verses light,
Sometimes, the sadder tones take flight;
Now, life seems an airy bubble,
Next, a weight with heavy trouble.

Whatever niche in the world we fill,
Here's to the winds that blow no ill;
In our homes may we find a friend
In Radio Digest till the end.

RHEA SHELDON

So it seems that Rhea is back with us once more, thanks to our friend George. The latter is batting 1,000 and has so many good poems on Indi-Gest's hook that we hardly know what to give you first. Guess we'll let you have a comical little bit of doggerel this time. Look below.

"You're Next," Exclaimed Barbara

West Milwaukee, in the merry month of June.
Mr. Indi: I am writing you to tell you that I much enjoyed "Short Shaves." May I therefore be permitted to ask "Barbara" a few questions? Thank you, dear.

Dear Barbara: Me and my boy friend Boniface are just dying to get the low down on some of them Radio artists. Tell me, dear, does Radio Soprano Hulda Band-saw honestly get paid for singing? How much does she get? And where does she get it? Answer me quick before I get one of my attacks.

And listen, who picks them covers of beautiful girls for this magazine? Wot a choice, wot a choice. They don't live long on them kind of jobs—the heart gives out. And say, do you think that bloomers will ever come back in style? I think they're just darling, providing you ain't too fat, it shows off the hips so.

What think of Conon Percival Eveningbreeze, the guy wot sings "Forever" from Station POOH? Honestly, dear, I feel foolish all over when he sings that, really, I am thrilled to tears. They tell me he subscribes to the Homely Ladies Journal and is a bear at tating. His wife, they say, runs the cozy cottage on Cottage avenue.

And then there is the Marked Tenor, who sings from OBUNK, tell me, was he born in that one Buick town, Red Hank, N. J.? My dear, I would not believe it if you told me so. Say, who are them Eskimos from the Kicko Club? I suppose they play for ginger ale and sassyperunilla and get all blown up about it. How would you like them warm their cold feet on your back all thru a polar night?

My girl friend wants to know whether it is proper for her to listen to a man singing in her kimono? Get me right, I mean listen to her Radio when she is in her kimono? Answer this quick, better death than dishonor. Don't you get tired listening to the Silvertown Cord Band? Tell them to send me some too—34 x 4 is the size. Well, I must stop now, it is time for my croquet lesson. Love and kisses from

THE THIRD TROMBONE PLAYER

Barbara being busily engaged snooping around and sticking her nose in Radio artists' businesses, we pause to reply, in cadence, one-two-three-four: No, not for singing. Nothing much. Where do you guess? From her friends. Indi-Gest. We're agin 'em. Why think when it's so unusual for us. Tattlin, correction. Sure, it musta been Red Hank. Six months and they'd warm up. Okay, if he sings bass. No, more like a blowout. I challenge you to a Swedish match.

Mike Fright

He stood before the microphone;
His heart was in his throat.
He tried to sing in baritone,
But blatted like a goat.

GEORGE

Intermission Idiosyncrasies

A. C. S. Announcing

"Colonel Westfall Dombarton of Louisville, Kentucky, will favor us with the Colonel's favorite after-dinner ballad, entitled, 'Oh Where Is My Wandering Joy Tonight'. We might state by way of explanation that the Colonel, who is spending a couple of weeks in New York, has three cases somewhere between Louisville and 33rd street. We're reasonably sorry for this situation as well as the Colonel is a very close friend of ours.

ARTHUR C. STOWELL

Mary's Little Radio

Mary had a Radio
And it was very small,
And everywhere that Mary went
You heard it's gentle call.

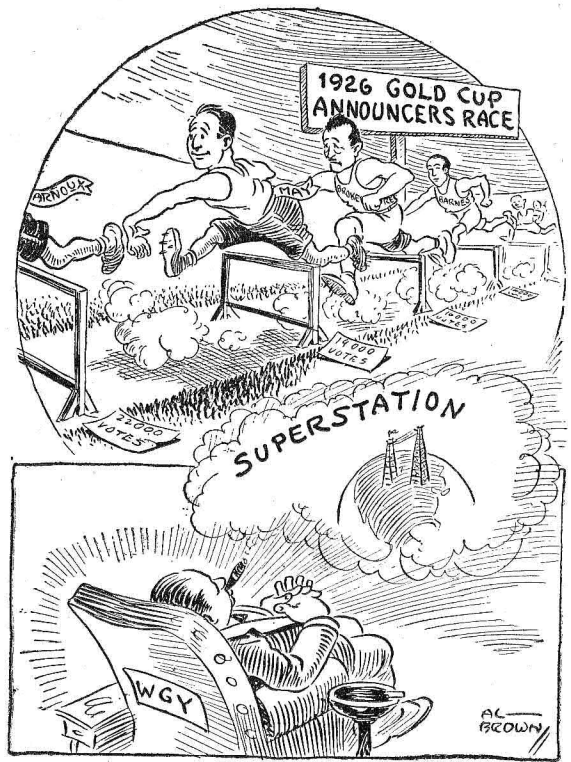
She took it into school one day,
The kids were wild with joy;
And when it got the teacher's goat,
Did he butt in? Oh Boy!

JEAN McMICHEAL

Every one of my "listeners" who put on a bib in the morning to keep the juice of the hen fruit from leaving canary yellow polkadots on his chest or her bosom, will appreciate learning that "Interesting Information Concerning the Marketing of Eggs" was broadcast recently from KGO by Mr. H. G. Hamann.

INDI

Current Events



Condensed

BY DIELECTRIC

No matter how sultry the night nor how much the static with it, there is one musical feature most any of us are willing to listen to, a feature that strikes a vital blow at discouragement and gives four singers a chance to display their ability at team work. Male quartets can nearly always charm with a few solo airs introduced by the basso, if nothing else in their efforts cause one to applaud. One of the best male quartets heard in some time sang before the mike in the studio of Station WTAM, Cleveland, rendering songs familiar to our aunts and grandmothers and still appealing to the rest of us. These old numbers have a certain simplicity of melodic and harmonic content wholly enjoyable. There can be but one requirement—no "barber shop" chords.

Station WGY, Schenectady, is noted far over the globe for the excellence of transmission, Radarios and other features, placing the director in an enviable position of freedom from complaint. I don't intend to say that their programs are entirely free from censure from those who always have some excuse for finding fault, but that so far as your humble reviewer is concerned they satisfy in most particulars. Having followed carefully and with interest many varied programs from this station it seems appropriate to mention the character of dance music presented. While the selections presented are not unusual nor distinctive from other broadcasters one characteristic is pronounced, which is the near approach to perfection in rhythmic observance.

If you never heard that famous song before entitled fifteen men reclining upon the chest of a deceased partner—before, I mean—hearing it sung from the studio of Station WJAZ, Chicago, you have a genuinely authentic record of how it should be sung. As a counterpart to that, what more appropriate than that this station should be responsible for putting "on the ether" a pirate song in true, bloodthirsty, buccaneering style, which it did. Fame is won in many devious ways.

There is not a great deal that I can say, without forcing unduly the elasticity of a complimentary nature, about the programs arranged for Radio listeners to Station WRVA, Richmond, and shall confine comment to that portion of their programs devoted to the playing by the Hotel Richmond orchestra, as pleasing to listen to as any musical organization of its class. That may not be saying much, or considerable.

Of the large number of Radio listeners delighting in jazz there should be a large proportion of them tuned to that well-known broadcaster located in the "city of beans," Boston, under the call caption of WNAC. Here again we find all of the current jazz classics presented with true contorting swing and meeting the tastes of each devotee of the art. Tune to the Shepard Stores' station for jazz.

Station WJZ, New York, has sufficient power to compass many miles across the continent and possesses directors capable of judging the excellence of any feature—so far as it applies to the exigencies of broadcasting—and I wish to compliment them upon the uniform character of their offerings. Another phase of broadcasting, which is equally important, is the ability to transmit in a manner to win the encomiums of all listeners. This may not be said for the R. C. A. station. Its features are interrupted for the space of many seconds and the power is not uniform throughout an evening's entertainment. Why this condition should be allowed to continue is beyond my ken.

ALL OF RODEO TO BE PUT ON AIR AT WOOD

GRAND RAPIDS TO PICK UP ROUNDUP JULY 2 TO 6

Steer Wrestling, "Bronk" Riding and Wild Horse Races Are Booked by Michigan Station

GRAND RAPIDS, Mich.—Steer wrestling, "bronk" riding, wild horse races and what not in the line of sports from the wide open spaces will take the air July 2 to 6, from WOOD, station of the Grand Rapids Radio company on the Hotel Rowe here, when the roundup at the West Michigan State Fair Grounds is broadcast in entirety by direct wire.

On this occasion, believed to be the first complete broadcast of a rodeo, "Tex" Sherman, cowpuncher extraordinary, will be at the microphone. Mr. Sherman has undoubtedly witnessed more rodeos than any other living person, except perhaps "Wild Jim" Lynch, producer of the show and winner of thirteen world championships at rodeo sports.

Cash prizes aggregating \$10,000 will be awarded to the winners of the various event, day and grand prizes. There to defend their titles and compete for the prize money will be Patty Ryan, Bob Askin, Mike Hastings and his wife, Mrs. Fox Hastings, and other cowboy champions.

Many Thrills to Come

Mrs. Fox Hastings is the only lady wrestler of steers in the world. Incidentally, steer wrestling is considered the most hazardous of all rodeo sports. Her husband, Mike, is present holder of the steer wrestling championship.

Another thrill will be given Radio listeners and spectators when "Wild Jim" Lynch wrestles a steer from a motorcycle and also from the running board of a speeding automobile. Mr. Lynch is the originator of this event.

Probably the most amusing of all events is the wild horse race in which wild horses serve as the steeds for cowboys who first must saddle them. Inasmuch as a wild horse is not to be steered but goes where he pleases, luck plays a large part in deciding the winning rider.

Maurice Wetzel, director of WOOD, who arranged for the roundup broadcast, is confident he has something brand new in the Michigan rodeo to amuse the general listening public.

Tongues Centuries Old Teach Mexican Indians

"Education by Radio" Is Policy of Broadcasters

MEXICO CITY, Mexico.—Languages that were thousands of years old when Cortez first conquered this country 400 years ago, are now being used in the broadcasting of instructive talks for the benefit of the many natives throughout the Mexican republic who still cling to an Indian language.

"Education by Radio" is the slogan for most Mexican stations, chief among the latter being CZE, here, the department of education broadcaster.

The government has distributed receiving sets to Indian villages and districts. From all the surrounding regions men, women and children tramp to the place where a local headman has charge of the government's "magic box which catches winged words from afar."

New Halifax, Nova Scotia, Station Is Proud of Self

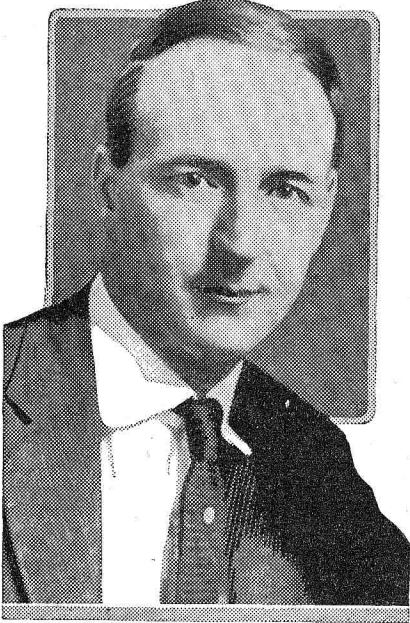
HALIFAX, N. S., Can.—Coming on the air late in May and being heard in Chicago in June, the new 100-watt transmitter here, CHNS, operated by the Halifax County Radio association, feels quite proud of itself. According to William Coates Borrett, director, CHNS is on the air Wednesday and Sunday evenings from 7 to 10 p. m. Atlantic standard time.

The new broadcaster, aided by local booster organizations, is aiming to show the world what Nova Scotia has in the way of talent and attractions for tourists and permanent residents. A wave length of 322.4 meters is employed.

WOR and WNYC Greet Byrd

NEW YORK.—Station WOR in conjunction with WNYC here, had the distinction of broadcasting the ceremony of welcome extended Lieutenant Commander Richard R. Byrd, which took place here, on Monday, June 21. Three states—New York, New Jersey and Virginia—participated in the welcome ceremonies and were represented by Governors Alfred E. Smith of New York, A. Harry Moore of New Jersey and Harry Flood Byrd of Virginia.

W. G. HAY BECOMES HEAD OF WGN, WLIB



"Bill" (W. G.) Hay

BILL HAY, whose real initials are W. G. and who has aptly been dubbed "the announcer who puts the English language in a dress suit," has been promoted to manager of WGN, the Chicago Tribune station, and WLIB, the Liberty Weekly broadcaster. And his friends, thousands of whom have twisted their dials to follow him from KFKX to WOK, thence to WGN and WLIB, are happy and congratulating him.

Bill was born in Dumfries, Scotland. This wee town was put on the map years and years ago by Bobbie Burns, whose poetry tells of its beauties. Bill remained in Scotland long enough to acquire three outstanding characteristics, namely, the burr in his voice which tells of bonnie Scotland, the habit of smoking a pipe inveterately, and the love of the grand old game of golf. Concerning his voice, . . . well, everyone knows it. Concerning his pipe, we might remark that it is one of the most aromatic in Chicago. And concerning his golf we have nothing to say.

First Lived in Chicago

When Bill came to America about seventeen years ago, he went immediately to Chicago. He spent a considerable part of his time in the study of music, an experience which was destined to stand him in good stead in years to come.

Later Bill went to Hastings, Nebraska. Some time after this the Westinghouse Electric officials decided to open a high-power radio station there and it was Bill who did the announcing. Now his musical experience proved immensely useful. He had been doing choral work and conducting the Hastings Lyric Glee club, and the Westinghouse officials decided that he was the man to take care of the programs of their new station. It was obvious shortly afterwards how well they had chosen. Night after night, some of the finest programs on the air emanated from KFKX, Hastings.

"BOSS" ERBSTEIN RAISES VET FUND

Will Stage Second Annual Radio Benefit for Forgotten Disabled Soldiers July 11

CHICAGO.—A great collection of Radio and stage stars will be gathered together on Sunday afternoon, July 11, at the Auditorium theater, here, when Charles E. Erbstein, former WTAS and WCEE owner and now announcing several programs over WLIB, stages his second annual Disabled Soldiers' benefit.

The program will consist of the leading artists of the different local stations as well as the stars of the current attractions playing at that time in Chicago. The entire receipts of this gala performance will be distributed among the different government hospitals to buy smokes for the men who are still under treatment resultant from the world war.

"No one," says the "boss" of the famous "Willie-Tommie-Annie-Sammie" station, "can appreciate the countless representatives of American young manhood still lingering between life and death at the Speedway hospital. Men without arms and legs, gassed and demented soldiers patiently waiting for the end—those valiant heroes who fought and bled at Flanders front—are pretty well forgotten by us who are too busy to even give them an occasional thought."

The "boss" will be the master of ceremonies the day of the performance. The price of admission is \$2. It will, with the stars, be a \$25 show. The "boss" will have his famous Boss' Own orchestra, under the direction of Fred Hamm, especially imported for the occasion.

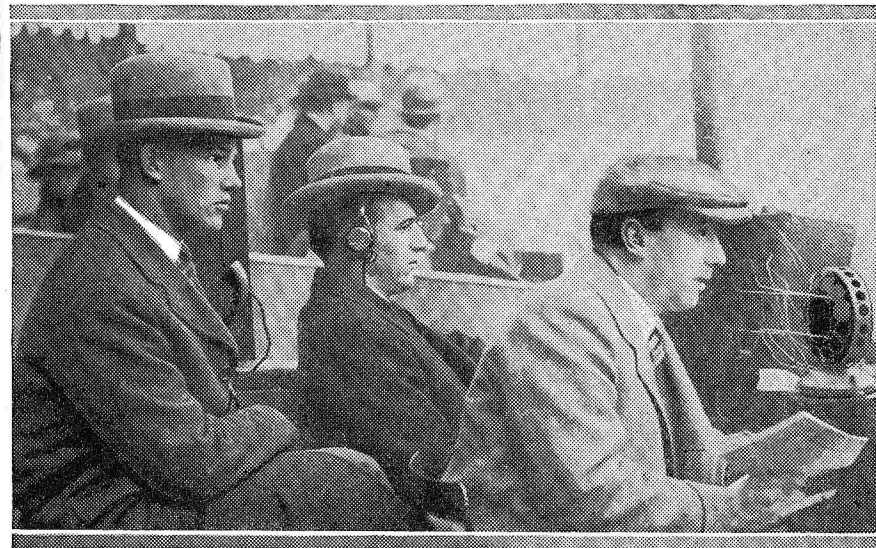
In less than three months the Hastings station and Bill Hay were known from coast to coast. Mail came from the four corners of the country, and Bill was the recipient of thousands of fan letters. The novelty of this station, hidden away in a small mid-western town, might have worn off but for the excellent quality of the programs. Bill maintained a high standard of entertainment. KFKX was one of the first stations to have a regular male and mixed quartet, and Bill was a member of each.

Has Been Doing Major Announcing

Since coming to WGN and to WLIB, Bill has been announcing all the regular features. It was he who did the announcing when WGN broadcast "The Miracle." He possesses a voice that lends itself to any kind of program presented. It is clear and dignified and very pleasing to the ear. Perhaps there is no type of program which Bill announces more effectively than the classical. And that may be the reason why WGN's classical programs have so great a depth of dignity and distinction. But schedules of so long and varied a type as WGN and WLIB present daily require versatility, and Bill is perfectly at home in announcing entertainment of a lighter nature.

Some listeners know, and some don't, that Bill Hay and "Auld Sandy," WGN's amiable Scotch entertainer, are one and the same. Twice a week "Auld Sandy" appears before the microphone in a sketch of Caledonian songs and stories, given in the dialect of old Scotland. And these are all the more delightful because of the brogue in which they are presented.

McNAMEE AT POLO GOUNDS MIKE



When WEAJ broadcasts the diamond sport from the Polo Grounds in New York, you can depend on it the Radio box looks something like this. Graham McNamee is addressing the "mike" at the right. Note the novel wire frame "fender" in front of it which keeps "Mac" from getting too close in exciting moments and blasting the microphone. To the left of McNamee with the headset on, is George McElrath, an "outside" operator for WEAJ. McElrath in this picture bears a close resemblance to McNamee. At the extreme left is Howard Luttgens, another "outside" operator.

150 STATIONS FORM UNCONNECTED CHAIN

N. G. BAKER, KTNT OWNER, TELLS OF ORGANIZATION

American Broadcasters Association Cooperate for Toll Broadcasting Minus Land Wire Inter-Connection

MUSCATINE, Ia.—A new broadcasting "chain" to be what is declared the largest tie-up of stations in America, is promised by Norman G. Baker, of this city, owner of KTNT and president of the American Broadcasters. The new link will include 150 or more broadcasters.

Stations are not to be connected physically by telephone wires or by Radio relay, Mr. Baker explains. He frowns at the wire link method and maintains that listeners become annoyed at hearing the same identical program at fifteen to twenty-two places on the dials of their receivers. Each station will broadcast its own program, and the firms taking advantage of this system of advertising will be announced at the same hour and date from all stations in the chain.

"The American Broadcasters association fought bitterly against monopolizing the dials with simultaneous broadcasting," Mr. Baker states, "and we would not care to place our chain in operation on any plan that would interfere with the pleasure of the listeners."

He plans to make Muscatine, Iowa, headquarters for the organization.

WCCO Studies "Dead Spots" During Summer

Jansky and Sweet Hope to Perfect Transmission

MINNEAPOLIS.—The past month, July and August have been set aside by the engineers of the Gold Medal station, WCCO, for an intensive study of Radio transmission problems, with a view to still further improving the signal strength and quality of the Minneapolis-St. Paul broadcaster.

Radio broadcasting is still in its infancy, although most listeners seem to expect the infant to work with the efficiency of a full-grown man. Many of its problems are still unsolved, and tremendous advances may be expected within the next few years, or even months. Every large station, even those using experimentally as much power as fifty kilowatts, is troubled with "dead spots" and with marked irregularities in reception. So much seems to depend on special geographical conditions that general rules for improving transmission have a very limited application.

Prof. C. M. Jansky, Jr., of the electrical engineering department of the University of Minnesota, is devoting his full time during the three summer months to investigating the special transmission problems of WCCO, and Ray Sweet, chief engineer of the station, is directing the experimental work. A corps of observers throughout the northwest has been recruited, so that regular reception reports will be submitted from points where reception so far has been unsatisfactory.

Roxy Joins "Captain Jinks" For Two Weeks as Devil Dog

NEW YORK.—Major Samuel L. Rothafel, U. S. M. C. R., has been ordered to report to the Marine barracks at Quantico, Virginia, for active duty and two weeks training. Major Rothafel will leave July 2, and will return on July 19. Major Rothafel served in the regular Marine corps many years ago on the U. S. S. Bancroft, before he came to New York and became prominently identified with theatrical activities.

On January 20, 1925, he was sworn in as Major in the Marine Corps Reserve personally by the Major General Commandant John A. Lejeune.

McGee to Arctic Again

WISCASSET, Me.—Paul McGee, of Mattoon, Ill., who was Radio operator for the recent MacMillan-McDonald arctic expedition, is again the honored amateur to make the arctic trip, this time with the MacMillan-Rawson expedition, which sailed from this port recently.

McGee perfected arrangements for two-way transmission and was on the arctic end of an interview which had been arranged with Commander E. F. McDonald of the S. S. Peary, while that ship was at Etah, Greenland.

WOOD to Be Remote Controlled

HUDSONVILLE, Mich.—Construction of a remotely controlled transmitting station for WOOD, Grand Rapids broadcaster, is proceeding here.

AN EVENING AT HOME WITH THE LISTENER IN IN CENTRAL TIME

Table listing radio stations with columns for Call, Location, Met., Saturday, Sunday, Monday, Tuesday, Wednesday, Thursday, Friday.

Table listing radio stations with columns for Call, Location, Met., Saturday, Sunday, Monday, Tuesday, Wednesday, Thursday, Friday.

STATIONS IN ORDER OF WAVE LENGTHS

Table listing radio stations in order of wave lengths with columns for Meters, Call, Meters, Call, Meters, Call, Meters, Call, Meters, Call, Meters, Call.

SHORT WAVES

By Marcella

(Continued from page 2)

the air from WLIB. He is announcing Fred Hamm's orchestra and is the same as ever—ha, ha.

The Ray-O-Vac Twins, "M. J.," made their last appearance for a month at WFAA, Dallas, on June 26. They are on a vacation, but will be back touring the stations again in August.

To forestall many questions, I will give you the news about "Little" Jack Little, who is now on vacation until October. His last appearance on the air this summer was on June 7, at WSAI, where he helped with a dedication program.

Ralph Emerson, popular WLS organist, caused lots of trouble when he played that organ duet marriage sketch with Grace Clark. No, "E. B. L." "F. L. S." and "Mrs. B. M. V." that was not a real ceremony.

Speaking of marriages and the usual run of things, William C. Stoess, who announces at WLW with Louis J. Johnen, became a father several weeks ago.

All sorts of news, yes indeed. For instance, "Roxy" Rothafel, whose Capitol theater announcing and "gang's" program over WEAJ made him famous, is to spend the first two weeks in July at the training camp of the Marines at Quantico, Va.

Clyde Hager, I repeat for "Wilma," is now announcing at KFQZ, Hollywood,

Calif. Glad, Wilma, that you have discovered the hiding place of Gene Rouse. "W. S." hasn't been so fortunate. To him I will advise tuning between 340 and 400 meters, east of Omaha, at a large station.

Herbie Mintz has been handling the afternoon programs at WENR, Chicago, until recently, but now is on his way to Europe with his wife for a tour of the old country.

Why "Alice," if you've got it as bad as your letter indicates, you'd better hike over to WGR and look up "Pat and Moe." Really, Pat is very good looking and young, according to his picture, and I imagine Moe likewise is attractive.

Facts regarding Miss Ruth Paterson, of KPRC, are earnestly requested by "Harold" from Indiana. Harold, I'm sure you'd fall in love with her disposition and beauty once you saw her.

(Continued on page 27)

FISHERMEN AND ALL SPORT FANS—READ

HERE'S SUGGESTED RATION LIST FOR THE BIG TRIP

Also WQJ's Helen Harrington Downing Tells You How to Fry Three Good Things

By Helen Harrington Downing
Director of Day Programs at WQJ
 THE season is fast approaching for the camper to start on the annual summer tour and camping trip. Sky and earth both conspire to lure the lover of outdoor into the open, and many plans are now being made for motor trips. Some few people prefer to stop at the hotels along the way, but many enjoy going in a well-equipped touring car with camping outfit and the necessary food supplies to camp near a lake for a day or two.

Of course, if women are included in the camping party, the planning of the lunch is left to them, but not infrequently four or five men like to go on a fishing trip by themselves and try their own hand at preparing meals. When this is the case a few suggestions are usually appreciated in making the list of necessary supplies. Following the several recipes I am going to recommend, is a suggested two weeks' food supply for four people.

Griddle cakes baked in the open seem to have particularly fine flavor, as well as hamburger meat cakes with onion, so here are recipes for both:

Griddle Cakes

Required: 3 cups flour, 3 level teaspoons Calumet baking powder, ½ level teaspoon salt, ¼ cup sugar, 2 cups milk, 2 eggs, 2 tablespoons melted butter.

Method: Sift flour, measure, then sift three times together with the baking powder, salt and sugar. Beat egg, add milk, and pour slowly into first mixture. Beat thoroughly, and add butter. Drop by spoonfuls on a greased hot griddle. Bake on other side. Serve with butter and maple syrup.

Hamburger Meat Surprises

Required: 2 pounds hamburger, 4 tablespoons water, 4 level teaspoons Calumet baking powder, 1 small onion (cut fine).

Method: Mix all together and shape

CONGRESSWOMEN DEBATE AT WRC



Not long ago women were not thought of in terms of the senate or house of representatives. Now—well, here are Mary E. Norton (left), of N. J., and Edith N. Rogers, of Mass., both members of the house of representatives, as they appeared prior to a political debate at Station WRC, Washington.

into flat cakes. Cook until brown in two or three tablespoons of fat in a hot frying pan.

Fried Biscuits

Required: 2 cups flour, 2 level teaspoons Calumet baking powder, ½ level teaspoon salt, 2 tablespoons shortening, ¼ cup milk.

Method: Sift flour and then measure. Add salt and baking powder and sift all together three times. Mix in shortening with a knife or fingers. Add milk gradually. Mix lightly. Roll out ½-inch thick on floured board and cut into rolls. Have griddle or frying pan well greased and hot. Then lower heat. Brown on one side, then turn and brown on the other. Time for cooking, 7 to 10 minutes. Makes fourteen biscuits.

Two Weeks' Food Supply for Four

The following list is offered as a help in shopping to those persons wishing to assemble rations suitable for two weeks' food supply for four people. The same list can, of course, be used as a basis for

figuring the amount of food needed by two, six, eight or more people on a one, two, three, four or more week's trip. Unless one is going into the wilderness, however, certain of the supplies can be replenished from week to week:

Dry Staple Foods: 10 lbs. flour, 10 lbs. sugar, 1 box salt, 1 box pepper, 2 lbs. coffee, ½ lb. tea, 2 lbs. powdered milk, 1 lb. Calumet baking powder, ½ lb. cocoa, 1 pkg. powdered sugar, 1 pkg. minute tapioca.

Cereals: 2 pkg. corn flakes, 1 pkg. shredded wheat.

Dried Fruits and Vegetables: 1 pkg. raisins, 1 lb. prunes, 1 lb. apricots, 2 envelopes each of dehydrated spinach, beets, carrots, potatoes, and onions.

Meat: Fresh meat for the first few days, 1 side of bacon, 5 to 6 lbs. ham—butt end, chipped beef, wieners, 1 baked ham, 2 ½-lb. pail lard.

Butter and Eggs: Obtain fresh at last point possible.

Canned Foods: 6 pts. condensed milk,

6 cans tomato soup, 6 cans corned beef hash, 6 cans baked beans, 6 cans chili con carne, 2 cans tomatoes, 1 bottle prepared mustard, 1 pt. pickles, 2 bottles chili sauce, 6 cans peas, 6 cans of corn, etc., 6 cans fruit.

Fresh Vegetables and Fruits: Potatoes, cabbage, lettuce, lemons, oranges, apples, bananas, and many other fresh fruits and vegetables that will keep for first few days. Some, such as cabbage, will keep for two weeks if iced.

Miscellaneous: 1 pt. vinegar, 2 pkgs. cookies, 12 glasses jam and jelly, 1 qt. homemade (or bottled) salad dressing, 2 lbs. cheese, 2 lbs. crackers, bread and buns.

And Don't Forget: Matches, candles, paper plates, paper napkins, paper drinking cups.

The Reader's View

More Flowers for the Hired Hand
 Down there in the great open spaces of Texas he stands. Modest, retiring, cringing that he is, he doffs slowly his ten-gallon hat, gazes sheepishly into it, and thinks, "would that I could crawl into your crown and so hide forever from the admiring eyes of the world. My lot is most unfair."

His watch tells him it is program time. This brings a heavy sigh as he realizes he must again leave his beloved open spaces and submit to the ogling of mankind. He mounts the steps of the Star-Telegram plant. Just as he suspected, ogling eyes are waiting to devour him in front of the WBAP studio. The young Texan drops to his haunches, grasps a flannel cloth kept handily by for no other purpose, and starts massaging the floor, slowly working his way into the studio, janitor like.

Yes, he must take the air. There is no other course or recourse. The studio clock demands it. He slinks to the microphone, snarling noiselessly. At first his voice doesn't come, but it's so used to it that finally it does, and the young Texan whispers:

"Please, if you do not mind, I will announce the program. And about that contest—I withdraw my name as a candidate—do you all hear me—you in Canada—you in Hawaii—you in Kansas—do you all understand—I withdraw my name in this contest to pick the most popular announcer in the world. If you vote for me

(Continued on page 26)

WOMEN'S PROGRAMS INDEX

Monday				
Atlantic	Eastern	Central	Mountain	Pacific
10:30 a.m. 9:30	8:30	7:30	6:30	5:30
WWJ (352.7m-850kc), Tonight's dinner.				
10:45 9:45	8:45	7:45	6:45	5:45
WTAG (268m-1120kc), Marjorie Woodman, nurse.				
11:50 10:50	9:50	8:50	7:50	6:50
WMC (499.7m-600kc), Home economics discussion, Miss Kitty.				
12 n. 11	10	9	8	7
WEAO (293.9m-1020kc), Housekeepers' half hour.				
WEAR (389.4m-770kc), Home service talk.				
WHT (399.8m-750kc), Women's club, Jean Sargent.				
WQJ (447.5m-670kc), Home Economics program.				
WSWS (275.8m-1090kc), Style show.				
12:30 p.m. 11:30	10:30	9:30	8:30	7:30
WEBH (370.2m-810kc), Fashion and household talks.				
WGBF (236.1m-1270kc), Cooking instructions.				
WGN (302.8m-990kc), Home Management period.				
WTIC (475.9m-630kc), Housewife's forum.				
12:35 11:35	10:35	9:35	8:35	7:35
KYW (535.4m-560kc), Table talk.				
1:45 12:45	11:45	10:45	9:45	8:45
KGW (491.5m-610kc), Household helps.				
2 1	12 n.	11	10	9
WSOE (245.8m-1220kc), Ladies' hour.				
2:20 1:20	12:20	11:20	10:20	9:20
WGBF (236.1m-1270kc), Garden talk.				
2:45 1:45	12:45	11:45	10:45	9:45
WQJ (447.5m-670kc), Home economics.				
3:30 2:30	1:30	12:30	11:30	10:30
KFNF (263m-1140kc), Mothers' hour.				
4 3	2	1	12 n.	11
WCCO (416.4m-720kc), Women's hour.				
WSOE (246m-1220kc), Cooking chats.				
WHB (365.6m-820kc), Ladies' hour.				
WIP (508.2m-590kc), Market hints for housewives.				
WJZ (454.3m-660kc), "Your Daily Menu."				
5 4	3	2	1	12 n.
WOC (483.6m-620kc), Home management schedule, Aunt Jane.				
5:15 4:15	3:15	2:15	1:15	12:15
KYW (535.4m-560kc), Meat talk, John Cutting.				
6 5	4	3	2	1
KMOX (280.2m-1070kc), Housewives' hour.				
WRC (468.5m-640kc), Housekeepers' half hour.				
1:15 a.m. 12:15	11:15	10:15	9:15	8:15
KGO (361.2m-830kc), "Character Training in the Home," E. Anderson.				
Tuesday				
Atlantic	Eastern	Central	Mountain	Pacific
10 a.m. 9	8	7	6	5
WIP (508.2m-590kc), Menu, Anna Scott.				
10:30 9:30	8:30	7:30	6:30	5:30
WWJ (352.7m-850kc), Tonight's dinner.				
10:45 9:45	8:45	7:45	6:45	5:45
WTAG (267.7m-1120kc), Talk to mothers.				
11 10	9	8	7	6
KDKA (309.1m-970kc), Domestic Science. Arts for the Housewife.				
12 n. 11	10	9	8	7
WEAO (293.9m-1020kc), Housekeepers' half hour.				
WEAR (389.4m-770kc), Home service talk.				
WHT (399.8m-750kc), Women's club, Jean Sargent.				
WMC (499.7m-600kc), Home Makers' club.				
WQJ (447.5m-670kc), Home economics.				
12:30 p.m. 11:30	10:30	9:30	8:30	7:30
WEBH (370.2m-810kc), Fashion and household talks.				
WGN (302.8m-990kc), Home Management period.				

Wednesday				
Atlantic	Eastern	Central	Mountain	Pacific
10:30 a.m. 9:30	8:30	7:30	6:30	5:30
WWJ (352.7m-850kc), Tonight's dinner.				
10:45 9:45	8:45	7:45	6:45	5:45
WTAG (268m-1120kc), Talk to Housewives, Mrs. Lydia Flanders.				
12:30 p.m. 11:30	10:30	9:30	8:30	7:30
WEBH (370.2m-810kc), Fashion and Household talks.				
WGBF (236.1m-1270kc), Cooking instructions.				
WGN (302.8m-990kc), Household management period.				
12:35 11:35	10:35	9:35	8:35	7:35
KYW (535.4m-560kc), Table talk.				
1:15 12:15	11:15	10:15	9:15	8:15
KMOX (280.2m-1070kc), Cookery, Gladys Kimbrough.				
1:45 12:45	11:45	10:45	9:45	8:45
KGW (491.5m-610kc), Household Helps, shopping guide.				
2:20 1:20	12:20	11:20	10:20	9:20
WGBF (236.1m-1270kc), Garden talk.				
2:45 1:45	12:45	11:45	10:45	9:45
WQJ (447.5m-670kc), Home economics.				
4 3	2	1	12 n.	11
WCCO (416.4m-720kc), Woman's hour.				
WHB (365.6m-820kc), Ladies' hour.				
WJZ (454.3m-660kc), "Your Daily Menu."				
4:30 3:30	2:30	1:30	12:30	11:30
WLW (422.3m-710kc), Cooking school.				
5 4	3	2	1	12 n.
WMAQ (447.5m-670kc), Recipes.				
WOC (483.6m-620kc), Home management schedule, Aunt Jane.				

Thursday				
Atlantic	Eastern	Central	Mountain	Pacific
5:30 p.m. 4:30	3:30	2:30	1:30	12:30
KFNF (263m-1140kc), Flower talk.				
5:40 4:40	3:40	2:40	1:40	12:40
WRC (468.5m-640kc), Housekeepers' chat.				
6 5	4	3	2	1
KMOX (270.2m-1070kc), Housewives' hour.				
KOAC (280.2m-1070kc), Housekeepers' half hour.				
7 6	5	4	3	2
KGO (361.2m-830kc), "Hints for Housekeeper."				
8 7	6	5	4	3
KLX (508.2m-590kc), Woman's hour.				
KMA (252m-1190kc), Domestic science talk.				
8:45 7:45	6:45	5:45	4:45	3:45
WBZ (333.1m-900kc), Household management.				
Friday				
Atlantic	Eastern	Central	Mountain	Pacific
10:30 a.m. 9:30	8:30	7:30	6:30	5:30
WWJ (352.7m-850kc), Tonight's dinner.				
11 10	9	8	7	6
KDKA (309.1m-970kc), Domestic science and Arts for the Housewife.				

Saturday				
Atlantic	Eastern	Central	Mountain	Pacific
10 a.m. 9	8	7	6	5
WIP (508.2m-590kc), Menu talk.				
10:30 9:30	8:30	7:30	6:30	5:30
WWJ (352.7m-850kc), Tonight's dinner.				
12 n. 11	10	9	8	7
WEAO (293.9m-1020kc), Housekeepers' half hour.				
WEAR (389.4m-770kc), Home service talk.				
WHT (399.8m-750kc), Women's club, Jean Sargent.				
WGN (302.8m-990kc), Household hints.				
WQJ (447.5m-670kc), Home Economics program.				
12:30 p.m. 11:30	10:30	9:30	8:30	7:30
WGN (302.8m-990kc), Home Management period.				
12:35 11:35	10:35	9:35	8:35	7:35
KYW (535.4m-560kc), Table talk.				
2 1	12 n.	11	10	9
KGW (491.5m-610kc), Household helps, shopping guide.				
KMA (252m-1190kc), Domestic science topics.				
2:20 1:20	12:20	11:20	10:20	9:20
WGBF (236.1m-1270kc), Garden talk.				
6 5	4	3	2	1
KMOX (280.2m-1190kc), Housewives' hour.				

PRES. COOLIDGE'S INDEPENDENCE DAY

HIGH LIGHTS OF THE AIR

AMONG the first visitors to the Sesquicentennial exposition this summer will be President Coolidge whose Independence Day talk will be given in the Philadelphia municipal stadium. Complete broadcasting plans concerning the transmission of this speech to the public have not been given out as yet. At the present time only WFL expects to go on the air.

Another interesting event to take place in Philadelphia this month is the opening July 1, of the suspension bridge, called the largest in the world, connecting the states of Pennsylvania and New Jersey at Philadelphia. WLT will broadcast the early morning program which will take place at the dedication of this important piece of engineering. Among the speakers will be Governors Gifford Pinchot of Pennsylvania and A. Harry Moore of New Jersey.

Hordes of cowboys and cowgirls are invading the peaceful agricultural state of Michigan, a state hitherto famous in the spring for the beauty of its blossoming fruit trees. However, all these wild riders of the western plains will be confined within the Michigan State Fair grounds where they will take part in the first Michigan rodeo. The entire spectacle will go over the microphone of WOOD. Tex Sherman, rodeo veteran, will describe the events which take place July 2-6.

Hotel Shelburne makes its Radio bow, July 2, via WPG, with the S. Wheeler Wadsworth players, twelve of whom are internationally known. Mr. Wadsworth prior to his organization of this group was musical conductor of several successful musical comedies, notably "Little Jessie James" and "The Rainbow Girls." His Radio programs promise to show the same kind of pep.

Summer brings the return of the New York Philharmonic orchestra to the air. Wednesdays, July 7 and 14, WJZ will broadcast this program at 8:30 p. m. Eastern daylight saving time. Saturday, July 10, WJZ and WRC will both broadcast.

Songs of the sea, luring the inland listener to the Atlantic coast will be the feature of the Wednesday, July 7, program at WRVA, Richmond, Va., when the Marines quartet takes to the ether. The only remedy on the Radio horizon this same evening to offset the roving effect of these songs is the medicine show at WLS, Chicago. Kruger and Dillon will reproduce the old-time medicine show and only the airline distance will save the listener from buying old-time favorite patent remedies.

A deaf man has been selected to sell the idea of a symphony orchestra over Radio. Arthur S. Garbett, famous for his contributions to musical literatures in notes and print, will give a short talk about a concert to be played by the San Francisco Symphony orchestra the day following, and his remarks will be illustrated by an instrumental trio before the KGO microphones, Saturday night, July 10, between 9 and 9:30 p. m. Pacific time. Although a composer of wide experience, and an expert on the orchestra, Garbett is about fifty per cent deaf, and hears only with the aid of mechanical devices.

Another departure from the conventional studio offering will be made Monday evening, July 12, when KOA, Denver, broadcasts a special burlesque program, the scene of which will be laid in the imaginary "Midwest Lyceum Bureau and Booking Agency." Two hours will be devoted to rehearsals, assembling of acts and judging aspiring professionals. Tune in and give your opinion.

ists, solos, bands; 10-11, Victorians, quartet; 12:30 a. m., Knights of the Burning Candle.
WLIB, Chicago, Ill. (302.8m-990kc), 7-7:05 p. m., Million Sing; 7:05-7:15, Old-fashioned Almanack; 7:15-8, WEAF; 11-11:20, Correll and Gosden; 11:20-1 a. m., Liberty studio ensemble; Ambrose Larsen, organist; Tommy Thatcher's Drake hotel dance orchestra; Purple Grackle orchestra.
WLS, Chicago, Ill. (344.6m-870kc), 6:30 p. m., Elsie Mae Look, organist; 6:45, Maurie Sherman's college inn orchestra; 7:15, Rose Sherman, violinist; Marie Ludwig, harpist; 7:30, Al Melgard, organist; 7:50, Voice of the Listener, 8:10, Maurie Sherman's College Inn orchestra; 8:30, Mu Phi Epsilon concert.
WLW, Cincinnati, Ohio (422.3m-710kc), 6:15 p. m., Norrine Gibbons and Priscilla Holbrook; 7, dinner concert, Hotel Gibson; 7:30, three-minute message, U. S. Civil service; 7:45, Hotel Gibson concert; 8, the Eagle quartet; 8:30, Hilary Harrod and Forest Heilman; 9, Al Katz and his Kittens; 10, Doherty Melody Boys; 11, Irene Downing and Tommy Reynolds; 11:30, dance selections, Henry Thels Castle Farmers; 12:15, Night Howls.
WMAG, Chicago, Ill. (447.5m-670kc), 6 p. m., Chicago theater organ; 6:30, Hotel LaSalle orchestra; 8, program; 9:20, music.
WMBB, Chicago, Ill. (249.9m-1200kc), 7-8 p. m.,



GENTLEMEN could hardly prefer blondes. Peggy Golden, a favorite singer, is a silver loving cup for being tainer at this station. "On teacher, Madame Ida Tcimng lessons in this language at WLW. Tune in every Eastern standard time. Fan Atwater Kent programs all v classical concerts being give the WEAF chain by the po McQuhae, and the Atwater McQuhae may be seen at Nicholas Beresowsky leade standing at t

Thursday, July 1

Headliners Today

Atlantic	Eastern	Central	Mountain	Pacific
9 p. m.	8	7	6	5
WBZ (333.1m-900kc), U. S. Navy band, 9:30	8:30	7:30	6:30	5:30
KDKA (309.1m-970kc), Dances of All Nations.				
WHAS (399.8m-750kc), 138th Field Artillery band, 10				
WHO (526m-570kc), Myrtle Williams, soprano.				
WIP (508.2m-590kc), Frolic, Mexican club, 10:30	9:30	8:30	7:30	6:30
KWWG (278m-1080kc), Kewanee Songs, Senorita Carlotta Villareal.				
WRC (468.5m-640kc), Drama, WRC players, 11	10	9	8	7
KEXF (250m-1200kc), Irish Melody Boys, 12 m.	11	10	9	8
WGHP (270.1m-1110kc), Heck and Mac.				
WHT (399.8m-750kc), Lee Simms and Gloom Chasers.				

Thursday, silent night for: CHIC, CKNC, CNRA, CNRE, CNRO, CNRR, CNRT, CNRV, CNRW, KFAB, KFH, KFOA, KFUG, KMOX, KOA, KOB, WAHG, WCAP, WEAO, WEBJ, WEMC, WGBF, WHAD, WHAZ, WJJD, WMAK, WMAZ, WOOD, WOR, WOS, WSM, WSUI, WTAM.

Atlantic or Eastern Daylight Saving Time Stations

GFGA, Toronto, Can. (356.9m-840kc), 11 p. m., Gilbert Watson and his orchestra.
 CKNC, Toronto, Can. (356.9m-840kc), 8 p. m., Charles E. Bodley and his dance orchestra; Edgar Smith, bass.
 WCAE, Pittsburgh, Pa. (461.3m-650kc), 6:30 p. m., dinner concert; 8, concert; 8:15, WEAF; 9, WEAF; 10, WEAF.
WCAU, Philadelphia, Pa. (277.6m-1080kc), 6:30 p. m., Catholic orchestra; 7:30, Shenburne symphony orchestra; 8, Saddle's Plantation serenaders; 8:30, Clifton's Anglers; 8:45, the Kandy Kids; 9, Barry O'Moore, Irish tenor; 9:30, the Musical Chets; 9:45, Professor Doolittle; 10, recital.
WEAF, New York, N. Y. (491.5m-610kc), 6 p. m., dinner music; 7:30, midweek hymn sing; 8:15, Hives Harvesters, WEEL, WFL, WCAE, WLIP, WSAI, WWJ, WTAM; 9, Cluquet club Eskimos, WEEL, WJAR, WTAG, WFL, WCAE, WWSJ, WGR, WOC, WCCO, WGN; 10, Silvertown Cord orchestra, WEEL, WFL, WCAE, WWJ, WGR, WOC, WCCO, WTAG, KSD, WSAI, WJAR, WGN, WADC, Buffalo, N. Y.
WEI, Boston, Mass. (348.6m-860kc), 7:30 p. m., music; 8, WEAF.
WFI, Philadelphia, Pa. (394.5m-760kc), 6:30 p. m., Bellevue Stratford concert orchestra; 7, Bellevue Stratford dance orchestra; 7:15, Keystone Auto club feature; 8:15, WEAF; 9, WEAF; 10, WEAF.
WGR, Buffalo, N. Y. (319m-940kc), 6:30 p. m., Vincent Lopez Hotel Statler dance orchestra; 8, WEAF.
WHAR, Atlantic City, N. J. (275.1m-1090kc), 8 p. m., Seaside hotel trio; 9, studio concert; 11, Follies Bazaar dance orchestra.
WHN, New York, N. Y. (361.2m-830kc), 8 p. m., Will Oakland's chateau; 10:30, Leroy Smith's orchestra; 11:30, Everglades orchestra; 12, Sophie Tucker's playground.
WIP, Philadelphia, Pa. (508.2m-590kc), 6:05 p. m., Benjamin Franklin concert orchestra; 8, Sesquicentennial Chamber Music society; 9, Pat Conway's band; Carlo Ferretti, baritone; 9:30, Hotel Traymore concert orchestra; 10, frolic, Atlantic City Kiwanis club; 11:15, Silver Slipper club dance orchestra.
WJAR, Providence, R. I. (305.9m-980kc), 9 p. m., orchestra; 9-11, WEAF.
WJZ, New York, N. Y. (454.3m-660kc), 7:05 p. m., Hotel Pennsylvania concert orchestra; 7:40, Judge, Jr.; 7:55, United Press sporting; 8, First National presentation, WRC; 8:30, WRC; 9:30, Royal Typewriter Salon orchestra, WGY, WCAE, WRC; 10:30, the Record boys, WRC; 11, WRC.

WLT, Philadelphia, Pa. (394.5m-760kc), 10 a. m., official opening Delaware River bridge; speeches by Governor Gifford Pinchot of Pa. and A. Harry Moore of New Jersey; band concerts; 7:30, Benjamin Franklin concert orchestra.
WMCA, New York, N. Y. (340.7m-880kc), 7 p. m., Hofbrau Haus entertainers; 8, Roemer's Homers; 9, Solow soloists; 9:30, Columbia Park entertainment; 10, Woodmanstein Inn orchestra; 11, Ernie Golden and his Hotel McAlpin orchestra; 12, McAlpin entertainers.
WVW, Newark, N. J. (526m-570kc), 6:10 p. m., piano selections.
WOOD, Philadelphia, Pa. (508.2m-590kc), 7:30 p. m., Adelphia Roof Garden orchestra.
WOR, Newark, N. J. (405.2m-740kc), 6:30 p. m., Jacques Jacobs Hotel Shelton ensemble.
WPG, Atlantic City, N. J. (299.8m-1080kc), 6:45 p. m., Arthur Scott Brook, organist; 7, Hotel Morton dinner music; 7:45, Hotel Ambassador dinner music; 8:30, Alice Warren Sachse, pianist; 8:45, Pat Conway's band; 9:30, Hotel Traymore concert orchestra; 10, Atlantic City Kiwanis club; 11:15, Silver Slipper Super club dance orchestra.
WTAG, Worcester, Mass. (267.7m-1120kc), 7:30 p. m., Safety club; 8-9, program; 9-10, WEAF; 10-11, WEAF.

Eastern Standard or Central Daylight Saving Time Stations

KDKA, Pittsburgh, Pa. (309.1m-970kc), 8:30 p. m., with famous composers, "Dances of All Nations," symphony players, 9, Symphony players; Elsie Breese Mitchell, soprano; 10:05, Post dance program.
KYW, Chicago, Ill. (535.4m-590kc), 7 p. m., musicale, Hearst square; 9-10:30, classical concert; 10:30-11:30, Congress carnival.
WBAL, Baltimore, Md. (245.8m-1220kc), 6:30-7:30 p. m., WBAL dinner orchestra; 8-8:30, Frederick D. Weaver, organist; 8:30-9:30, mixed quartet; 9-10, WBAL trio; John Wilbourn, tenor.
WBBM, Chicago, Ill. (225.4m-1330kc), 11-11:30 p. m., popular music; Moss Covered melody period, Alemito orchestra, artists; 11:30-12, supper club.
WBZ, Springfield, Mass. (333.1m-900kc), 6 p. m., Bob Patterson's Hotel Kimball trio; 6:33, Hotel Lenox ensemble; 8, the U. S. Navy band; 9, Sumner Prince, pianist; Willard Clark, baritone; 9:30, Martini quintet.
WCD, Zion, Ill. (344.6m-870kc), 9 p. m., male chorus, celestial bells; Erna Reynolds, soprano; E. B. Peaton, baritone; Daniel Mason, trombonist; John Studebaker, clarinetist; Mrs. Susie Barton-Smith, reader; John Mehaffey, pianist.
WEBB, Chicago, Ill. (370.2m-810kc), 7 p. m., special recital; 9, orchestra; Ruth Buhl Flick, reader; Dorothy Herman Blum; Indiana male quartet; 11-12:30, orchestra; Pat Ward; Rita McFawn, Mary Bieber.
WENR, Chicago, Ill. (265.3m-1130kc), 6-7 p. m., Rauland lyric trio; 8-10, All-American pioneers.
WGES, Oak Park, Ill. (249.9m-1200kc), 5-7 p. m., organ music; artist pupils, Chicago Musical college; Peggy O'Neill, Esther Richards; 8-9, Jimmy Wall; Guyon's Paradise; Leona Hayes; 11-12, Flo and Ray, Phil Fleming; Melody Girls; Panico Panic.
WGHP, Detroit, Mich. (270.1m-1110kc), 6 p. m., dinner concert; 10, Frolickers; Heck and Mac; Mr. and Mrs. Eddie McGrath; Motortown trio; 11, Skylark dance band; Winifred Hinton, mezzo-soprano; Harry Hayes, baritone; 12-1 a. m., Gerald Maris' orchestra.
WGN, Chicago, Ill. (302.8m-990kc), 6:35-7 p. m., Drake concert ensemble; 8-9, WEAF; 9-10, WEAF; 10-10:10, ensemble.
WGY, Schenectady, N. Y. (379.5m-790kc), 5:30 p. m., Jack Denney's Babcock lake orchestra; 6:45, orchestra; 7:30, WRC; 8:30, WJZ; 9:30, Clinick Trumpet quartet; 10:30, Stephen E. Boisclair, organist.
WHT, Chicago, Ill. (399.8m-750kc), 7:10 p. m., Al Carnegie, organist; 8:45-10:15, (238m-1200kc), studio features; Lee Simms; 12 (399.8m-750kc), U. S. L. entertainers.
WIBO, Chicago, Ill. (225.4m-1330kc), 6-8 p. m., dinner concert; 12, Ted Fiorito, Dan Russo, Marie Tully, Wayne Myers; Louis A. Webb, Rita McFawn, Smith and Ford.
WJZ, Chicago, Ill. (329.5m-910kc), 9-12 mid., Leo B. Landry, baritone; Katherine, Margaret, McDermitt, piano-quartets; Edmund B. Kelly, baritone; Temple male quartet; Marion O'Neil Holland, violinist; Spanish Garden studio classical program.
WJJD, Mooreshead, Ill. (370.2m-810kc), 5:30-7 p. m., dinner concert; Howard Peterson, organist; Palmer House symphony orchestra; Victorians; 8-9, child art-

Tranon ensemble; Hemes Brothers, Hungarian Harmonica Twms; 9-11, Trianon orchestra; ensemble, Wellington Forbes, Bob Bennet, Bob Duffy.
WOK, Chicago, Ill. (217.3m-1380kc), 6-7 p. m., Tip Top Inn string ensemble; 10-1:30 a. m., Tearney's Town club orchestra; Carl Lorraine's Pershing Palace orchestra; Midway Garden orchestra; Capitol theater program.
WQJ, Chicago, Ill. (447.5m-670kc), 7-8 p. m., Rainbo Gardens orchestra; staff artists; 10-2 a. m., Jerry Sullivan; Harry Geise; Lew Butler; Bert Davis, Two Frenchmen.
WRC, Washington, D. C. (468.5m-640kc), 7 p. m., WJZ; 7:30, U. S. Marine band, WJZ, WGY; 9, WJZ; 9:30, WRC players; 10:30, Meyer Davis' Swanee syncopators, WJZ.
WREO, Lansing, Mich. (285.5m-1050kc), 6-7 p. m., dinner concert; Gold Standard ensemble; Speed-Wagon serenaders; musical program; vocal and instrumental solos.
WRVA, Richmond, Va. (256.3m-1170kc), 8:45 p. m., spirituals; Negro quartet; 9:15, Brockwell string band; 10, songs of England, France, Italy, Germany, Canada, U. S.; 11, Carry Me Back to Old Virginia.
WSAI, Cincinnati, Ohio (325.9m-920kc), 7:15 p. m., WEAF.
WSWS, Chicago, Ill. (275.1m-1090kc), 6 p. m., Stephen A. Day, U. S. Marine band; Hugh Aspinwall, tenor; Josephine Oliver, violinist; Marjorie Terry, pianist; orchestra; Golden trio; 10-11, Terrace Gardens quintet, "That Old Sweetheart of Mine"; 11-12, Hallelujah Boys; Kenneth Clark; Rudy Winter; Billy Schaefer, Hamilton Harding; 12-1, Witching hour.
WTAM, Cleveland, Ohio (389.4m-770kc), 6:15 p. m., Hollenden hotel orchestra; 7:15-9, WEAF; 9, studio program; 11, Collegian serenaders.
WTIC, Hartford, Conn. (475.9m-630kc), 7 p. m., popular songs, Gertrude Colefsky; 7:30, vocal recital; 8, For-an-to Melody Makers; Travelers male quartet; 9, Hotel Bond dance orchestra.
WWJ, Detroit, Mich. (352.7m-850kc), 6 p. m., dinner concert; 7, WEAF.

Central Standard Time Stations

CKY, Winnipeg, Man. (384.4m-780kc), 9 p. m., J. A. Banfield company program; Canadian Pacific railway orchestra.
KFH, Wichita, Kans. (267.7m-1120kc), 6:30 p. m., Radio piano playing contest; 7, Markie and Al Hiner, harmony team.
KFW, Shenandoah, Iowa (263m-1140kc), 7 p. m., White Cloud, Kansas.
KLDS, Independence, Mo. (440.9m-680kc), 8 p. m., Silvertone male quartet.
KMA, Shenandoah, Iowa (252m-1190kc), 6-7 p. m., organ.
KOIL, Council Bluffs, Iowa (278m-1080kc), 6:30 p. m., dinner program; Ed Marr's Imperial orchestra; 7, G. H. Nelson Paint company program; 8, program; 11, Hotsy Totsy hour.
KPRC, Houston, Texas (296.9m-1010kc), 7:30 p. m., Harry Kobusch and his orchestra; 9, Southern Pacific Lines glee club.
KSO, Clarinda, Iowa (241.8m-1240kc), 8 p. m., Clarinda municipal band.
KTHS, Hot Springs National Park, Ark. (374.8m-800kc), 9:05-10 p. m., solo hour, KTHS vocal and instrumental staff artists.
KVOO, Bristow, Okla. (374.8m-800kc), 6-9 p. m., surprise program.
KWWG, Brownsville, Texas (277.6m-1080kc), 8:30-9 p. m., Roy Garcia, violinist; Senorita Carlotta Villareal, Mexican songs; 9-9:15, Mrs. C. W. Davenport, contralto; 9:15-9:40, B. Flat quartet; 12:01-1:00 a. m., Novelty and jazz.
WADC, Akron, Ohio (258.5m-1160kc), 9 p. m., Silvertown Cord orchestra; 10, Roseland dance orchestra.
WBAP, Fort Worth, Texas (475.9m-630kc), 7:30-8:30 p. m., Davis Baking Powder saxophone octet; 9:30-11, Will Rogers, organist; 11-12, Sorin White Top of Texas orchestra.
WCCO, Minneapolis-St. Paul, Minn. (416.4m-720kc), 7 p. m., WEAF; 9, La Sebana program.
WDAF, Kansas City, Mo. (365.6m-820kc), 6-7 p. m., Billy Adair's orchestra; 11:45-1 a. m., orchestra; Johnnie Campbell's orchestra; Earl Coleman's orchestra; Earl Thurston, organist.
WFAA, Dallas, Texas (475.9m-630kc), 6:30-7:30 p. m., Jimmy Joy's orchestra; 8:30-9:30, Joseph B. Rucker, bass; Mrs. Rucker, pianist.
WHAS, Louisville, Ky. (399.8m-750kc), 7:30-9 p. m., 138th Field Artillery band.
WHB, Kansas City, Mo. (466.4m-820kc), 7-7:30 p. m.,

organ concert; 8-9:15, Foster, Hall, Stone, Rubber Triplets.
WHO, Des Moines, Iowa (526m-570kc), 7:30-8 p. m., Younker tea-room orchestra; 8-9, Bankers' Life trio; Stewart Watson, baritone; Myrtle Williams, soprano.
WMC, Memphis, Tenn. (499.7m-600kc), 8:30 p. m., Cooper's Hawaiians.
WQAI, San Antonio, Texas (394.5-760kc), 8:30 p. m., Mistletoe Melody Maids.
WOAW, Omaha, Neb. (526m-570kc), 6 p. m., Elks' organ; 6:25, Francis Potter; 6:50, orchestra; 9, classical.
WOC, Davenport, Iowa (483.6m-620kc), 6-6:15 p. m., WEAF; 9-9:30, Moline Plowboys.
WORD, Chicago, Ill. (275.1m-1090kc), 8:00 p. m., musical program.
WRB, Dallas, Texas (485m-1220kc), 6-7 p. m., Jack Gardner's orchestra; 8-9, musicale; 9:30-10:30, Dyo duo.
WSMB, New Orleans, La. (319m-940kc), 8:30-10:30 p. m., Schilling's Society serenaders; Radio Revelers; Liberty theater dance program.
WSOE, Milwaukee, Wis. (245.8m-1220kc), 7 p. m., Elks club studio; 8, Bible class, Dr. J. C. O'Hair; 9, Lakefront studio.

Mountain Standard Time Stations

KFXF, Colorado Springs, Colo. (249.9m-1220kc), 9 p. m., Irish melody boys with Ernest McGee, entertainer.
KOA, Denver, Colo. (322.4m-930kc), 6:30 p. m., Brown Palace string orchestra.

Pacific Standard Time Stations

KFI, Los Angeles, Calif. (467m-642kc), 7-8 p. m., students, University of California; 8-9, Kanner string trio; 9-10, Howard McKee, D. Reeves Boyd, flutist; 10-11, Patrick-Marsh dance orchestra.
KFWB, Hollywood, Calif. (252m-1190kc), 6-7 p. m., Pontiac 6 dinner hour; 7-8, program, O'Neal and Son; 8-9, program, McGavin Brothers bakery; 9-10, program, Dell's Ice Cream; 10-11, Warner Brothers frolic.
KGO, Oakland, Calif. (361.2m-830kc), 8-9 p. m., vacation program; Morey Amsterdam, Original Radio music; Anita Romano, guitarist; Fishin' Jim Pike, WOV male trio; 9, Brokaw and orchestra.
KGW, Portland, Ore. (491.5m-610kc), 6-7 p. m., dinner concert; 8-10, vaudeville program, Four Sailors; Ebony and Ivory, piano duo; Motor Coach entertainers; Tommy Luke's Flower girls; 10-12, Cole McElroy's dance orchestra.
KHJ, Los Angeles, Calif. (405.2m-740kc), 6:30-7:30 p. m., children's hour, Uncle John; 8-10, Times de luxe program; 10-11, Hefner's Sunnysund seven.
KFO, San Francisco, Calif. (428.3m-700kc), 6:30-7 p. m., Rudy Seiger's Fairmont hotel orchestra; 8, program, Caswell Coffee company; 9-10, banquet program, H. O. Harrison company; 10-11, Mandarin cafe orchestra.
KPSN, Pasadena, Calif. (315.6m-950kc), 8-9 p. m., musicale, Pasadena chamber of commerce.

Friday, July 2

Headliners Today

Atlantic	Eastern	Central	Mountain	Pacific
7:45 p. m.	6:45	5:45	4:45	3:45
WPG (299.8m-1000kc), S. Wheeler Wadsworth players, 8:15	7:15	6:15	5:15	4:15
WGY (379.5m-790kc), "The Anti Renters," WGY players, 9	8	7	6	5
KOA (322.4m-930kc), Open-air concert.				
WMCA (340.7m-880kc), Piccadilly players, 9:30	8:30	7:30	6:30	5:30
WCOA (222m-1350kc), Robbye Cook, 12-year-old prodigy, 10	9	8	7	6
WBAL (245.8m-1220kc), Municipal band, 10	9	8	7	6
WLS (344.6m-870kc), Stephen Foster program, 10	9	8	7	6
WOOD (241.8m-1240kc), Roundup, Michigan State Fair grounds, 10	9	8	7	6
WSF (489.8m-1466kc), Peabody ensemble singers,				

DANCING

Central Time

Saturday

9, Webb, Wjaz, Wn Wnye, Wreo; 9:10, K Wip; 9:30, Kths, W Wor, Wre; 10, K Kwa, Koa, Kpo, W Wgn, Wjaz, Wjr, W Wmea, Wnye, Wor, W Wwo, Wtam; 10:30, Wa 10:45, Wls; 11, K Kfwb, Kpo, Webb, W Wgbu, Who, Wjaz, W 11:30, Kfoa; 11:45, W 12, Kgo, Kgw, K Wgbu, Wjaz, Wjld.

Monday

8, Wgco; 9, W Wjar, Wor; 9:15, W 10, Kths, Wgbu, W Wgr, Wnye, Wpg; 10 Wor; 10:40, Wgco, W 11, Kgw, Koll, W Wwep, Wwh, W Wfai; 11:45, Wdaf; Knx, Kpo.

Tuesday

8, Wpg; 9, Wpg; 9 Kths; 10, Wbbm, W Webb, Wgbu, Wgn, W Wmea, Wnye, W 10:15, Kths; 10:30, K Whn; 10:45; Wsb; Kgw, Koll, Wgbu, V Wjaz; 11:45; Wdaf; Kgw, Khj, Knx, J Wdaf, Wjaz, 1, Wj.

Wednesday

9, Wex, Webb, W Wgco, Whn, Who, W Wmbb, Wmea, W 9:15, Wajz; 9:30, W Who, Wor; 10, K Wbap, Weaf, W Wgco, Wjaz, Wj; 10 Wcco; 10:30, Wbap, W 11, Koll, Kpo, V Wgbu, Wgco, Wgr, V Wjaz; 11:45, Wdaf; Kfwa, Knx, Kpo, W Wjld.

Thursday

8, Wjr; 9, Webb, W Wgbu, Whn, Wjr, W Wsal, Wjaz; 9:05, V Wip; 9:30, Wgco, V Whn; 9:35, Wnye; Kths, Wbbm, W Wgbu, Whn, Wmea, V Wj; 10:30, Kths, V Webb, Wgbu, Whn, V 11:45, Wdaf; 12, W Khj, Knx, Kpo, Wjld.

Friday

8, Wwi; 9, Wex, W Weel, Wgbu, W Wmbb; 9:15, Waf; Wwau, Whn; 10, K Kpo, Kths, Wgbu, W Whn, Wgr, Wjld.

DAY TALK FROM SESQUICENTENNIAL



There could have no objections to the way on the right even if they did not. Peggy Mathews, owner of this a favorite singer at KFWB. She won cup for being the most popular entertainer. On the left is your French me Ida Teimpidis, who has been giving this language for the past two years in every Tuesday at 4:10 p. m. urd time. Fans who have enjoyed the programs all winter will like the seminars being given Sunday evenings over ain by the popular Irish tenor, Allen I the Atwater Kent orchestra. Mr. r be seen at the microphone, above. sowsky leader of the orchestra is standing at the right.

Eastern Standard or Central Daylight Saving Time Stations

KDKA, Pittsburgh, Pa. (309.1m-970ke), 8:30 p. m., concert, faculty of P. M. J.
 KYW, Chicago, Ill. (535.4m-560ke), 7 p. m., musicale; 8-9, Federal Masters; 10:30-12, Congress carnival.
 WBAL, Baltimore, Md. (245.8m-1220ke), 6:30-7:30 p. m., WBAL dinner orchestra; 8-9, musicale; 9-10, Michigan band.
 WBBM, Chicago, Ill. (225.4m-1330ke), 8-10 p. m., Saffey First playlet; Alemitie High Pressure orchestra; Vanity Fair orchestra.
 WBZ, Springfield, Mass. (333.1m-900ke), 6 p. m., Hotel Lenox ensemble; 6:45, Bob Patterson's Hotel Kimball trio; 9, John Kerwan, mandolinist; Timothy Cahill, guitarist; 9:30, Hotel Brunswick orchestra.
 WCAP, Washington, D. C. (468.5m-640ke), 7-9 p. m., popular science talk; 9-9:30, WCAF; 9:30-10, studio program.
 WEBH, Chicago, Ill. (370.2m-810ke), 7 p. m., Osborn's orchestra; Bernard Weber, Pauline Sachs; 9, Osborn's orchestra; Bernard Weber; 11-12:30 a. m., orchestra; Irene Beasley; Flo and Ray, Cook Sisters.
 WENR, Chicago, Ill. (265.3m-1130), 6-7 p. m.,



EDUCATIONAL FEATURES

Monday				
Atlantic	Eastern	Central	Mountain	Pacific
6:30 p. m. 5:30	4:30	3:30	2:30	
WDAF (365.6m-820ke), School of the Air.				
8	7	6	5	4
WDAF (365.6m-820ke), School of the Air.				
1:15 a. m. 12:15	11:15	10:15	9:15	
KGO (361.2m-830ke), Educational features.				
Tuesday				
Atlantic	Eastern	Central	Mountain	Pacific
8 p. m. 7	6	5	4	
WDAF (365.6m-820ke), School of the Air.				
WAO (293.9m-1020ke), Bird talks.				
10	9	8	7	6
WMAQ (447.5m-670ke), Lecture, University of Chicago.				
12 m. 11	10	9	8	
KTAB (239.9m-1250ke), Mills college.				
Wednesday				
Atlantic	Eastern	Central	Mountain	Pacific
6:30 p. m. 5:30	4:30	3:30	2:30	
WNYC (526m-570ke), Spanish lesson, V. H. Berlitz.				
8	7	6	5	4
WDAF (365.6m-820ke), School of the Air.				
8:30	7:30	6:30	5:30	4:30
WBZ (333.1m-900ke), Radio Nature league.				

Atlantic Eastern Central Mountain Pacific				
9 p. m. 8	7	6	5	
WAO (293.9m-1020ke), "Atoms and Stars."				
WFB (365.6m-820ke), Automotive talk.				
WMAQ (447.5m-670ke), Lecture, Northwestern university.				
11:30	10:30	9:30	8:30	7:30
KIJJ (405.2m-740ke), Astronomy.				
Thursday				
Atlantic	Eastern	Central	Mountain	Pacific
7:30 p. m. 6:30	5:30	4:30	3:30	
WLW (422.3m-710ke), Educational talk.				
8	7	6	5	4
WDAF (365.6m-820ke), School of the Air.				
9:30	8:30	7:30	6:30	5:30
WOI (270.m-1110ke), Industrial Science, short course, "State Parks of Iowa."				
10	9	8	7	6
WMAQ (447.5m-670ke), U. of C. lecture.				
Friday				
Atlantic	Eastern	Central	Mountain	Pacific
4:45 p. m. 3:45	2:45	1:45	12:45	
WMAQ (447.5m-670ke), "The Right Word."				
6:30	5:30	4:30	3:30	2:30
WNYC (526m-570ke), French lesson.				
8	7	6	5	4
WDAF (365.6m-820ke), School of the Air.				
WAO (293.9m-1020ke), "Musical Appreciation," Hester Bronson Copper.				
10	9	8	7	6
WMAQ (447.5m-670ke), U. of Chicago.				
11:45	10:45	9:45	8:45	7:45
KFWB (252m-1190ke), Nature talk.				

Saturday, July 3

Headliners Today

Atlantic Eastern Central Mountain Pacific				
6:10	5:10	4:10	3:10	2:10
WDEF (348.6m-860ke), Symphony hall pop concert.				
8:30	7:30	6:30	5:30	4:30
WBZ (333.1m-900ke), Fourth of July program.				
10	9	8	7	6
WOOD (241.8m-1240ke), Roundup.				
WRC (468.5m-640ke), Kitt hour of music.				
10:15	9:15	8:15	7:15	6:15
KOIL (278m-1080ke), Pullman Porters quartet.				
10:30	9:30	8:30	7:30	6:30
WMO (499.7m-690ke), George Luttrell.				
WSPB (219m-940ke), Paul Jacobs and Young Men's Hebrew association glee club.				
11	10	9	8	7
KMA (252m-1190ke), Farmer Scotchman.				
WQJ (447.5m-670ke), "Real Americans," Col. Lee Alexander Stone.				
11:30	10:30	9:30	8:30	7:30
WET (399.8m-750ke), Ayalon quartet.				
12 m. 11	10	9	8	
WOAW (526m-570ke), Organ jubilee.				

Saturday, silent night for: CNRA CNRC, CNRE, CNRM, CNRR, CNRT, CNRV, CNRW, CNRX, CNRY, CNRZ, CNR1, CNR2, CNR3, CNR4, CNR5, CNR6, CNR7, CNR8, CNR9, CNR10, CNR11, CNR12, CNR13, CNR14, CNR15, CNR16, CNR17, CNR18, CNR19, CNR20, CNR21, CNR22, CNR23, CNR24, CNR25, CNR26, CNR27, CNR28, CNR29, CNR30, CNR31, CNR32, CNR33, CNR34, CNR35, CNR36, CNR37, CNR38, CNR39, CNR40, CNR41, CNR42, CNR43, CNR44, CNR45, CNR46, CNR47, CNR48, CNR49, CNR50, CNR51, CNR52, CNR53, CNR54, CNR55, CNR56, CNR57, CNR58, CNR59, CNR60, CNR61, CNR62, CNR63, CNR64, CNR65, CNR66, CNR67, CNR68, CNR69, CNR70, CNR71, CNR72, CNR73, CNR74, CNR75, CNR76, CNR77, CNR78, CNR79, CNR80, CNR81, CNR82, CNR83, CNR84, CNR85, CNR86, CNR87, CNR88, CNR89, CNR90, CNR91, CNR92, CNR93, CNR94, CNR95, CNR96, CNR97, CNR98, CNR99, CNR100.

Atlantic or Eastern Daylight Saving Time Stations

CFCFA, Toronto, Can. (356.9m-840ke), 9 p. m., CFCFA's orchestra.
 WGAE, Pittsburgh, Pa. (461.3m-650ke), 6:30 p. m., dinner concert; 8:30, concert.
 WEAF, New York, N. Y. (491.5m-610ke), 6-12 mid., dinner music; Sofia Seitz, contralto; musical comedy hits; orchestra; Goldman band concert; Russian program, Emily Day, soprano; Ben Bernie and his orchestra; Vincent Lopez orchestra.
 WEEI, Boston, Mass. (348.6m-860ke), 7:40 p. m., Lucerne-in-Maine quintet; 8:15, pop concert, Symphony hall.
 WFI, Philadelphia, Pa. (394.5m-760ke), 6:45 p. m., Bellevue Stratford dance orchestra; 8, band and choruses from Sesquicentennial.
 WHAR, Atlantic City, N. J. (275.1m-1090ke), 8 p. m., seaside hotel.
 WIP, Philadelphia, Pa. (508.2m-590ke), 6:05 p. m., Benjamin Franklin concert orchestra; 8:15, Hotel Ambassador orchestra; 8:30, program, Marine Studio; 8:45, Pat Conway's band; 9:30, dance orchestra, Million Dollar Pier; 10, Garden Pier dance orchestra; 10:45, Ted Weems' Novelty dance orchestra; 11:05, organ recital, Germantown theater.
 WJZ, New York, N. Y. (454.3m-660ke), 7:05 p. m., Waldorf-Astoria Roof orchestra; 10:30, Hotel Astor Roof orchestra.
 WMAK, Buffalo, N. Y. (265.3m-1130ke), 7:30-8:30 p. m., Buffalo theater symphony WFBL, WGY, WHAM; 8:30-10, musicale.
 WMOA, New York, N. Y. (340.7m-880ke), 7 p. m., Tappen's orchestra; 8:30, Time-O-Stat musical program; 10:30, Stauch's orchestra; 11, Ernie Golden and his Hotel McAlpin orchestra; 12 m., McAlpin entertainers.
 WNYC, New York, N. Y. (526m-570ke), 7 p. m., piano selections; 10, police quartet.
 WOR, Newark, N. J. (405.2m-740ke), 6:30 p. m., Hotel Shelton ensemble; 7:30, Pryor's band; 9:15, Casino orchestra; 10:15, Brass quartet; 10:30, Monterey society orchestra; 11:15, Ben Bernie's Berkeley Car-tet Grill orchestra.
 WPG, Atlantic City, N. J. (299.8m-1000ke), 6:45 p. m., Arthur Scott Brook, organist; 7, Hotel Morton dinner music; 7:30, Hotel Shelburne dinner music; 8, Hotel Ambassador dinner concert; 8:30, Marine studio steel pier; 8:45, Pat Conway's band; 9:30, dance orchestra; 10:45, Ted Weems' Novelty orchestra; 11:30, Hotel Shelburne dance orchestra.

Eastern Standard or Central Daylight Saving Time Stations

KDKA, Pittsburgh, Pa. (309.1m-970ke), 8:30 p. m., Westinghouse band concert.
 KYW, Chicago, Ill. (535.4m-560ke), 7 p. m., hour of music; 8, KYW's Congress hotel studio; 9-10:30, classical concert; 10:30-12, Congress carnival.
 WBBM, Chicago, Ill. (225.4m-1330ke), 8-2 a. m., Alemitie orchestra; Ziegler Stars; Alemitie orchestra; Vanity Fair orchestra.
 WBZ, Springfield, Mass. (333.1m-900ke), 6 p. m., Capitol theater orchestra; 8, Fourth of July program; 8:30, Max I. Krulac and his Hotel Westminster orchestra; 9, James Newsworthy, harmonica soloist; 9:15, Dorothy May Todd, soprano and assisting artists.
 WEBH, Chicago, Ill. (370.2m-810ke), 7-8 p. m., songs, Frank Greif; 9-10, Edgewater Beach hotel orchestra; 11-12, midnight, orchestra; Kay Ronayne; 1 a. m., orchestra; 1-2, folk.

DANCING

Atlantic Eastern Central Mountain Pacific
 10:30 p. m. 9:30 8:30 7:30 6:30
 WFAA (475.9m-630ke), Schubert choral club.
 10:45 9:45 8:45 7:45 6:45
 WTIC (475.9m-630ke), Debutants.

Friday, silent night for: CFAC, CKAC, CKNC, CKY, CNRC, CNRM, CNRR, CNRW, KFXE, KLDS, KPRC, KPSN, KSAC, WBBR, WCAD, WCBF, WEO, WGBS, WGST, WHAZ, WIP, WJAZ, WKRC, WLW, WLWL, WOR, WRC, WREO, WRYA, WSAI, WSBM, WSUI, WTAM.

Atlantic or Eastern Daylight Saving Time Stations
 WCAE, Pittsburgh, Pa. (461.3m-650ke), 6:30 p. m., dinner concert; 8, studio program; 9:30, concert; 10, WCAF; 10:30, WEAF.
 WCAU, Philadelphia, Pa. (277.6m-1080ke), 6:45 p. m., Hotel Pennsylvania orchestra; 7:30, Snellenburg instrumental trio; 8, Sullivan Brothers, ukulele; 8:15, Enrico Sresoni, operatic tenor; 8:30, Singing Ground-hog; 8:45, Dwight Strickland, "poetician"; 9, the Regina Crooners; 9:15, Nascop Jolly Four; 9:45, Jack and Jill, songs; 10, Archie Lloyd, "The Shapiro and Kathryn Jordan, harmony songs; 10:30, Myers' musical architects.
 WEAF, New York, N. Y. (491.5m-610ke), 6-12 mid., dinner music; Gene Ingraham and his Great Top Notch Inn orchestra; Whittall Anglo-Persians;
 WEEI, Boston, Mass. (348.6m-860ke), 7:30 p. m., Whiting Milk company program; 8, musicale; 8:30, Sandy MacFarlane; 9, Musical Chef; 9:30, WEAF; 10:30, Ed Andrews' Nautical dance orchestra.
 WFI, Philadelphia, Pa. (394.5m-760ke), 6:45 p. m., Bellevue Stratford dance orchestra.
 WGR, Buffalo, N. Y. (319m-940ke), 6:30 p. m., orchestra; 7:30, WBEAF; 8:30, soloists; 9:30, WEAF; 10:30, band; 11:30, Vincent Lopez Hotel Statler dance orchestra.
 WHAR, Atlantic City, N. J. (275.1m-1090ke), 8 p. m., Seaside hotel trio.
 WHN, New York, N. Y. (361.2m-830ke), 7 p. m., Hotel Providence, R. I. (305.9m-880ke), 8 p. m., musicale; 8:30, Gorman's Jolly Bakers; 9, musicale; 10, WEAF; 11, Providence Billmore dance orchestra.
 WJZ, New York, N. Y. (454.3m-660ke), 7:05 p. m., George Olsen's Hotel Pennsylvania roof orchestra; 8, Sundial Shoe serenaders, Bonnie Laddies; 9, Snider's Catsup; 10:30, Harold Stern's Hotel Belleclaire roof orchestra.
 WLIT, Philadelphia, Pa. (394.5m-760ke), 8 p. m., Pioneer Storage Battery entertainers; 9, Schiekerling artist; 10, Morning Glory club concert; Arcadia cafe dance orchestra; 10:30, Rufus and Rastus; 11, Freshman Masterpiece Radio hour.
 WMAK, Buffalo, N. Y. (265.3m-1130ke), 6:30 p. m., Hotel Lafayette orchestra; 8:15-10:30, WGY players; 10:30-1:30, University Terrace Sub-Division program.
 WMCA, New York, N. Y. (340.7m-880ke), 6:30 p. m., Ernie Golden and his Hotel McAlpin orchestra; 7:30, Paul Whiteman's Piccadilly players; 9:30, Klein's Serenading Shoemakers; 10, readings; 11, Jack Denney's orchestra; 12, McAlpin entertainers.
 WNYC, New York, N. Y. (526m-570ke), 6 p. m., piano selections.
 WOO, Philadelphia, Pa. (508.2m-590ke), 11 a. m., organ recital; 12:02 p. m., Crystal tea room orchestra; 4:45, organ recital; 8:05, WOO orchestra; 9:25, Fox theater program; 10, WEAF; 10:30, Sylvania dance orchestra; 11, dance music.
 WOR, Newark, N. J. (405.2m-740ke), 6:45 p. m., Hotel Bretteau Hall string quartet.
 WPG, Atlantic City, N. J. (299.8m-1000ke), 6:45 p. m., Arthur Scott Brook, organist; 7, Hotel Traymore dinner music; 7:45, Hotel Shelburne dinner music; 8:30, Marine studio; 9, Hotel Ambassador concert orchestra; 10, Ted Weems and his Novelty dance orchestra; 10:30, Hotel Traymore Grille dance orchestra; 11, Jean Wehner, organist.
 WTAG, Worcester, Mass. (267.7m-1128ke), 8:15 p. m., program; 10:10:00, WMAK.

Central Time
Saturday
 Wcbh, Wjaz, Wmbb, Wrc, Wro; 9:10, Kths, Wp, 9:30, Kths, Wbbs, Wb, Wro; 10, Kfve, wa, Wko, Kpo, Wcaf, m, Wjaz, Wjr, Wkr, nca, Wnye, Wor, Wqj, eo, Wtam; 10:05, co; 10:30, Wamd; 10:45, Wls; 11, Kfva, wb, Kpo, Wbap, Wfaa, gbu, Wwo, Wjaz, Woc; 10:30, Kfoa; 11:45, Wdaf; Kgo, Kgw, Knx, gbu, Wjaz, Wjld.
Monday
 Wcbh, Wjaz, Wmbb, Wrc, Wro; 9:10, Kths, Wp, 9:30, Kths, Wbbs, Wb, Wro; 10, Kfve, wa, Wko, Kpo, Wcaf, m, Wjaz, Wjr, Wkr, nca, Wnye, Wor, Wqj, eo, Wtam; 10:05, co; 10:30, Wamd; 10:45, Wls; 11, Kfva, wb, Kpo, Wbap, Wfaa, gbu, Wwo, Wjaz, Woc; 10:30, Kfoa; 11:45, Wdaf; Kgo, Kgw, Knx, gbu, Wjaz, Wjld.
Tuesday
 Wcbh, Wjaz, Wmbb, Wrc, Wro; 9:10, Kths, Wp, 9:30, Kths, Wbbs, Wb, Wro; 10, Kfve, wa, Wko, Kpo, Wcaf, m, Wjaz, Wjr, Wkr, nca, Wnye, Wor, Wqj, eo, Wtam; 10:05, co; 10:30, Wamd; 10:45, Wls; 11, Kfva, wb, Kpo, Wbap, Wfaa, gbu, Wwo, Wjaz, Woc; 10:30, Kfoa; 11:45, Wdaf; Kgo, Kgw, Knx, gbu, Wjaz, Wjld.
Wednesday
 Wcbh, Wjaz, Wmbb, Wrc, Wro; 9:10, Kths, Wp, 9:30, Kths, Wbbs, Wb, Wro; 10, Kfve, wa, Wko, Kpo, Wcaf, m, Wjaz, Wjr, Wkr, nca, Wnye, Wor, Wqj, eo, Wtam; 10:05, co; 10:30, Wamd; 10:45, Wls; 11, Kfva, wb, Kpo, Wbap, Wfaa, gbu, Wwo, Wjaz, Woc; 10:30, Kfoa; 11:45, Wdaf; Kgo, Kgw, Knx, gbu, Wjaz, Wjld.
Thursday
 Wcbh, Wjaz, Wmbb, Wrc, Wro; 9:10, Kths, Wp, 9:30, Kths, Wbbs, Wb, Wro; 10, Kfve, wa, Wko, Kpo, Wcaf, m, Wjaz, Wjr, Wkr, nca, Wnye, Wor, Wqj, eo, Wtam; 10:05, co; 10:30, Wamd; 10:45, Wls; 11, Kfva, wb, Kpo, Wbap, Wfaa, gbu, Wwo, Wjaz, Woc; 10:30, Kfoa; 11:45, Wdaf; Kgo, Kgw, Knx, gbu, Wjaz, Wjld.
Friday
 Wcbh, Wjaz, Wmbb, Wrc, Wro; 9:10, Kths, Wp, 9:30, Kths, Wbbs, Wb, Wro; 10, Kfve, wa, Wko, Kpo, Wcaf, m, Wjaz, Wjr, Wkr, nca, Wnye, Wor, Wqj, eo, Wtam; 10:05, co; 10:30, Wamd; 10:45, Wls; 11, Kfva, wb, Kpo, Wbap, Wfaa, gbu, Wwo, Wjaz, Woc; 10:30, Kfoa; 11:45, Wdaf; Kgo, Kgw, Knx, gbu, Wjaz, Wjld.

Rauland lyric trio; 8-9, Moody Bible Institute hour; 9-10, Arthur Dunas, popular program; 12-2 a. m., music; Theodore Van den Biak, cornetist.
 WGES, Oak Park, Ill. (249.9m-1200ke), 5-7 p. m., old-time favorites, Art Bilquist, Will Rositter, Pat Ryan, Peggy and Esther, Eddie Freckman; 8-9, Joe Warner, Joe Walsh, Tom Wheeler, Melody Girls; 11-1 a. m., Clarence Theaders, Esther Richards, Pat Ryan.
 WGH, Clearwater, Fla. (265.3m-1130ke), 8:30-10 p. m., Frederick Huber, organist.
 WGH, Detroit, Mich. (270.1m-1100ke), 6 p. m., dinner concert; 10, entertainers; 11, Skylark dance band; T. Stanley Perry, tenor; Dick Quinlan, saxophonist; 12-1 a. m., Gerald Marks' orchestra.
 WGN, Chicago, Ill. (302.8m-990ke), 6:35-7 p. m., musical program; Drake concert ensemble, Blackstone string quintet; request program; 7:15-8:15, Paul Ash; 8:15, musicale; 9, WEAF; 9:30-10, Phantom violin; 10-10:10, Sam 'n' Henry; 10:10-11, musical program, ensemble.
 WGY, Schenectady, N. Y. (379.5m-790ke), 6 p. m., Hotel Van Curler orchestra; 6:35, WGY orchestra; 7:15, "The Anti Renters," WGY players; 9:30, WGY orchestra; Theodore Van den Biak, cornetist.
 WHT, Chicago, Ill. (299.8m-750ke), 7 p. m., Al Carney; 7:40, chapel; 10:15 (238m-1260ke), musical features; 10:30, (399.8m-750ke), Sunbeam Girl; 12 midnight, your hour league.
 WIBO, Chicago, Ill. (225.4m-1330ke), 6-8 p. m., dinner program, string trio; Charlotte Edwards, contralto; 10-2 a. m., popular program; Ted Florio, pianist; Dan Russo, vocalist; songs, monologues; Tony Corcoran; Hickey and Johnson.
 WJAZ, Chicago, Ill. (329.5m-910ke), 9-12 mid., Earl Hoffman's Chez Pierre orchestra; Walter Lewis, baritone; Eulalie Kober, pianist; The Quips That Pass In The Night.
 WJLD, Mooseheart, Ill. (370.2m-810ke), 5:30-7 p. m., Jack Nelson; Howard Peterson, organist; Victorians; 8-9, child artists, solos, bands; 10-11, Senator Harold C. Kessinger; Palmer House Victorians; 12:30 a. m., Settlin' Up hour.
 WLJB, Chicago, Ill. (302.8m-990ke), 7-7:05 p. m., Milton Sing; 7:05-7:15, Old-fashioned Almanack; 11-11:20, Correll and Gosden; 11:20-1 a. m., Liberty studio ensemble; Ambrose Larson, organist; Tommy Thatchers' Drake hotel dance orchestra; Fred Hamm's Purple Grackle orchestra.
 WLS, Chicago, Ill. (334.6m-870ke), 6:30 p. m., Elsie Mae Look, organist; 6:45, Maurie Sherman's College Inn orchestra; 7:15, Rose Sherman, violinist; Marie Ludwig, harpist; 7:30, Al Melgard, organist; 7:50, Voice of the Listener; 8-10, College Inn orchestra; 9, Stephen Foster program; 10, popular music; 11, Ralph Emerson, organist.
 WMAQ, Chicago, Ill. (447.5m-670ke), 6 p. m., Chicago theater organ; 6:30, Wide-Awake club program; 8, George Simons, tenor; 8:30, Whitney trio; 9:20, musical program, chimes.
 WMBB, Chicago, Ill. (249.9m-1200ke), 7-8 p. m., Trianon duo, special artists, old-time songs; 9-11, Trianon orchestra; trio; Krueger and Dillon, banjo barons; Joe Warner, popular program.
 WOK, Chicago, Ill. (217.3m-1380ke), 6-7 p. m., Tip-Top Inn string ensemble concert; 10-1:30 a. m., Tearney's Town club orchestra; Midway Garden orchestra; Capitol theater program.
 WOOD, Grand Rapids, Mich. (241.8m-1240ke), 9 p. m., World Championship Roundup, Michigan State Fair grounds; 10:05, classical concert, Emma Scott Sweet, director.
 WQJ, Chicago, Ill. (447.5m-670ke), 7-8 p. m., Rainbo Gardens orchestra; 10-2 a. m., Rainbo Gardens orchestra; Dr. H. Lucille Long, woman harmonica player; Muriel Olsen; Johnny Post.
 WREO, Lansing, Mich. (285.5m-1050ke), 6-7 p. m., dinner concert; Speed-Wagon serenaders; Gold Standard ensemble; miscellaneous programs.
 WRYA, Richmond, Va. (256.3m-1170ke), 9:30-12:30 a. m., Edgeworth party night.
 WSW, Chicago, Ill. (275.1m-1090ke), 6-7 p. m., Josephine Oliver; Edward Holt, pianist; Alice Marie Martel; Fay and Martel; 8, Gus Edwards orchestra; Borden Brothers; Harmony Douglas Bowers; John Clark; 10, Terrace Gardens quintet; Ruth Boutay; Sid Pierson; Freddie Wittmer; Flo and Ray; 12-1 a. m., switching hour.
 WTAM, Cleveland, Ohio (389.4m-770ke), 6:45 p. m., Hotel Cleveland orchestra; 8, orchestra program; 9, WEAF; 9:30, studio program; 11, Austin Wylie's Vocalian Recording orchestra.
 WYIO, Hartford, Conn. (476.9m-630ke), 6:59 p. m.,

WOOD VOICE OF MICHIGAN RODEO

Saturday, July 3

WENR, Chicago, Ill. (265.3m-1130kc), 6-7 p. m., Rauland lyric trio; 8-9, Arthur Dunas; 9-10, All-American Pianists; 12-2 a. m., midnight frolic.

WIBO, Chicago, Ill. (225.4m-1330kc), 6-8 p. m., dinner concert; string trio; Frances Schiebe, soprano; Evelyn Elliott, contralto; James Luschnanski, tenor.

WLS, Chicago, Ill. (344.6m-870kc), 6:30 p. m., Elsie Mae Cook, organist; 7:15-11 a. m., national barn dance.

WQJ, Chicago, Ill. (447.5m-670kc), 7-8 p. m., Rainbo Gardens orchestra; James Luchansky; 10-3 a. m., patriotic talk.

WRC, Washington, D. C. (468.5m-640kc), 7 p. m., Work of Congress, WJZ; 7:30, Hotel Washington orchestra; 9, Kite hour of music; 10, dance program; 11-12, Otto F. Beck, organist.

WREO, Lansing, Mich. (285.5m-1050kc), 6-7 p. m., dinner concert; Gold Standard ensemble; Speed-Wagon serenaders; 10-12, special dance program; Speed-Wagon serenaders; Merwin Jenkins, blind entertainer; Meadow Lark Inn quartet; Hawaiian Melody Masters.

WSAI, Cincinnati, Ohio (325.9m-920kc), 8 p. m., chimes; 8:15, News; 8, Letta LeMar, Latoria Melody Boys; Norime Gibson, Trisilla Harbrook, Maids of Melody.

WWSW, Chicago, Ill. (275.1m-1090kc), 8 p. m., Terrace Gardens orchestra; Jean Duncan, contralto; Ruth Burrell, pianist; Connie Cerwin, ballads; 8, Woodmar male quartet; Pat Deely, tenor; George Calder, bass; 10, Terrace Gardens quintet; Cook Sisters; Art Billquist; Zola Haynes; Ned Becker, humorist; Flo and Ray; Josephine Oliver, violinist; 12-1, W. m., Witches hour.

WJZ, Detroit, Mich. (352.7m-850kc), 7:30 p. m., Gold-man band concert.

Pacific Standard Time Stations

KFI, Los Angeles, Calif. (467m-642kc), 7-8 p. m., Al Wesson and his orchestra; 8-9, Angelus trio; 9-10, Correll trio; 10-11, Packard Radio club; 11-2 a. m., KFI midnight frolic; 4th of July frolic.

Sunday, July 4

Headliners Today

Table with columns: Atlantic, Eastern, Central, Mountain, Pacific. Lists radio stations and their programs for Sunday, July 4.

Sunday, silent night for: CFAC, CHIC, CKAK, CKNC, CNRA, CNRC, CNRE, CNRR, CNRO, CNRR, CNRT, CNRV, CNRW, KFAB, KFJ, KFKA, KFQA, KFJF, KFMA, KSO, WAHG, WCAU, WDAF, WEAQ, WBJJ, WBYW, WFI, WGBF, WGH, WHP, WHAS, WHAZ, WJAZ, WJLB, WJLT, WJLV, WMAQ, WMC, WNYC, WOI, WOOD, WRC, WRVA, WSB, WSM, WTAM, WTIC.

Atlantic or Eastern Daylight Saving Time Stations

CFCA, Toronto, Can. (356.9m-840kc), 11 a. m., St. Paul's Anglican church; 7 p. m., Timothy Eaton Memorial church.

Eastern Standard or Central Daylight Saving Time Stations

KYW, Chicago, Ill. (535.4m-500kc), 11 a. m., Central church; 4 p. m., studio concert; 9:30-11, classical concert.

WMBB, Chicago, Ill. (249.9m-1200kc), 3-5 p. m., Trianon orchestra; Woodlawn theater orchestra; Wellington Forbes, tenor; Andy Anderson, baritone; piano novelties, Bob Bennett; popular concert; 7:40-9, Fifth Church of Christ, Scientist; 9-11, Trianon orchestra, Andy Anderson, baritone; Preston Graves, pianist; Scotty Welch and Madison Sisters, Golden Harmony quartet; popular program.

WJZ, Detroit, Mich. (352.7m-850kc), 10:30 a. m., First Presbyterian church; 2 p. m., News orchestra; 6:20, WEAF; 8:15, operatic stars.

WJZ, Detroit, Mich. (352.7m-850kc), 10:30 a. m., First Presbyterian church; 2 p. m., News orchestra; 6:20, WEAF; 8:15, operatic stars.

WJZ, Detroit, Mich. (352.7m-850kc), 10:30 a. m., First Presbyterian church; 2 p. m., News orchestra; 6:20, WEAF; 8:15, operatic stars.

WJZ, Detroit, Mich. (352.7m-850kc), 10:30 a. m., First Presbyterian church; 2 p. m., News orchestra; 6:20, WEAF; 8:15, operatic stars.

WJZ, Detroit, Mich. (352.7m-850kc), 10:30 a. m., First Presbyterian church; 2 p. m., News orchestra; 6:20, WEAF; 8:15, operatic stars.

Atlantic or Eastern Daylight Saving Time Stations

CKNC, Toronto, Can. (356.9m-840kc), 9 p. m., Eveready orchestra; erdi mixed quartet.

WJZ, Detroit, Mich. (352.7m-850kc), 10:30 a. m., First Presbyterian church; 2 p. m., News orchestra; 6:20, WEAF; 8:15, operatic stars.

WJZ, Detroit, Mich. (352.7m-850kc), 10:30 a. m., First Presbyterian church; 2 p. m., News orchestra; 6:20, WEAF; 8:15, operatic stars.

WJZ, Detroit, Mich. (352.7m-850kc), 10:30 a. m., First Presbyterian church; 2 p. m., News orchestra; 6:20, WEAF; 8:15, operatic stars.

WJZ, Detroit, Mich. (352.7m-850kc), 10:30 a. m., First Presbyterian church; 2 p. m., News orchestra; 6:20, WEAF; 8:15, operatic stars.

WJZ, Detroit, Mich. (352.7m-850kc), 10:30 a. m., First Presbyterian church; 2 p. m., News orchestra; 6:20, WEAF; 8:15, operatic stars.

Mountain Standard Time Stations

KFXF, Colorado Springs, Colo. (249.9m-1220kc), 9-11 p. m., dance music.

Monday, July 5

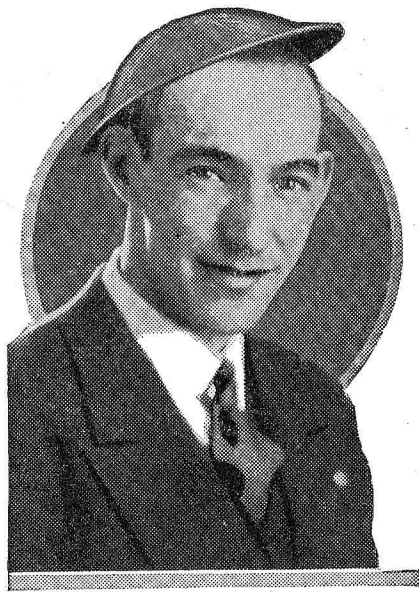
Headliners Today

Table with columns: Atlantic, Eastern, Central, Mountain, Pacific. Lists radio stations and their programs for Monday, July 5.

Monday, July 5

WJZ, Detroit, Mich. (352.7m-850kc), 10:30 a. m., First Presbyterian church; 2 p. m., News orchestra; 6:20, WEAF; 8:15, operatic stars.

N. Y. PHILHARMONIC AGAIN AT WJZ



Folks meet Omaha's songster, Eddie Stewart. His specialty is jazz singing, but he has been heard featuring ballads and lyrics at the Blah club of WOAW. Notice the insignia he wears on his head.

Monday, July 5

Mountain Standard Time Stations

KOA, Denver, Colo. (322.4m-930kc), 6:30 p. m., Brown Palace string orchestra; 8, Scheuerman's Colorado orchestra; 8:15, Margaret Keohart, pianist; Mrs. W. C. Mount, reader; Mrs. E. Humphrey Smith, violinist; KOA orchestra.

Pacific Standard Time Stations

KFI, Los Angeles, Calif. (467m-642kc), 7-8 p. m., Owen Fallon's Californians; 8-9, varied program; 9-10, Walter M. Murphy Motors company program, KPO; 10-11, popular program, Melkieleh Brothers.

KFWB, Hollywood, Calif. (252m-1190kc), 7:30-8 p. m., program, Dr. Ralph Mitchell and Associated Dentists; 8-9, program, Sealy Mattress company; 9-10, program, American Dye Works; 10-11, Warner Brothers frolic.

KGO, Oakland, Calif. (361.2m-830kc), 8 p. m., Amphion trio; 8:05, "Norwegian Rhapsody"; 9:15, "Symposium of New Education"; 9:30, speaker, U. of Calif.

KGW, Portland, Ore. (491.5m-610kc), 6-7 p. m., dinner concert; 8-9, organ recital; 9-10, vaudeville entertainment; musical acts, Punch and Judy, Columbia Knit Merchandise; 10-12, Cole McElroy's dance orchestra.

KTAB, Oakland, Calif. (239.9m-1250kc), 7-7:30 p. m., shopping hour; 8-10, program.

Tuesday, July 6

Headliners Today

Atlantic	Eastern	Central	Mountain	Pacific
9:30 p. m.	9:30	7:30	5:30	5:30
WLAS (399.5m-750kc), Carl Zoeller's Melodists.				
WMAA (340.7m-880kc), Columbia Park entertainers.				
WBAL (245.8m-1220kc), Baltimore City Park orchestra.				
WBB (365.6m-820kc), Ukulele songsters.				
WOC (483.6m-620kc), Keithsburg community band.				
WOCB (241.8m-1240kc), World's Championship Roundup.				
10:30	9:30	8:30	7:30	6:30
WOAI (394.5m-760kc), Gerhardt Mexican players.				
11	10	9	8	7
WQJ (447.5m-670kc), First National Violin quartet.				
12 m.	11	10	9	8
KHJ (405.2m-740kc), All Times night.				
12 a. m.	12 m.	11	10	9
KFI (467m-642kc), Cowie's bag pipe band.				

Tuesday, silent night for: CFA, CKNC, CNRC, CNRE, CNRM, CNRO, CNRT, CNRW, KFH, KFKX, KFUO, KOA, KOB, KTAB, WAHG, WAND, WBBR, WCAP, WGPC, WHAZ, WOR, WOS, WSMB, WSUI, WTAM, WTTC.

Atlantic or Eastern Daylight Saving Time Stations

WCAE, Pittsburgh, Pa. (461.3m-650kc), 6:30 p. m., dinner concert, William Penn hotel; 8, WEAF; 8:30, WEAF; 9, WEAF; 10, Moment musicale.

WCAU, Philadelphia, Pa. (277.6m-1060kc), 7:30 p. m., Shenandoah instrumental trio; 8:10, the Three Brothers; 8:25, Peter Ricci, baritone; 8:45, Higgins and Burke, songs; 9, Kuehnle's artists; 9:30, Robert Fraser, blind gospel singer; 10, recital; 10:15, Eddie Malle and his entertainers; 10:30, Cathay orchestra.

WEAF, New York, N. Y. (491.5m-610kc), 6 p. m., dinner music; 8, Grand Prize Eureka; WEAF, WFL, KSD, WCAE, WWJ, WCSH, WSAI, WTAG, WGR, WCCO, WOL, WTAM, WJAR; 8:30, Gold Dust Twins; WEAF, WFL, WCAE, WGR, WWJ, WOC, WCSH, WJAR, WCCO, WLBB, WTAM, KSD; 9, Eveready hour; WEAF, WFL, WCAE, WGR, WWJ, WOC, WCSH, WJAR, WCCO, WLBB, WTAM, KSD; 10, variety half hour; 10:30, orchestra; 11-12, Buffalodians dance orchestra.

WBI, New York, N. Y. (272.6m-1100kc), 7 p. m., Dan Barnett's orchestra; 7:30, Lunas Knickerbocker orchestra; 8:15, Queen's City entertainers; 8:45, Luna's Marine band.

WFI, Philadelphia, Pa. (394.5m-760kc), 6:45 p. m., Bellevue Stratford dance orchestra; 8, WEAF, WFL, WGR, Buffalo, N. Y. (319m-940kc), 6:30 p. m., Vincent Lopez, Hotel Statler dance orchestra; 8, WEAF, WHAR, Atlantic City, N. J. (275.1m-1090kc), 8 p. m., Seaside hotel trio.

WHN, New York, N. Y. (361.2m-830kc), 6:30 p. m., Everglades orchestra; 7:30, Will Oakland's chateau; 8, Treasureland neighbors; 10, Universal trio; 10:15, Jimmy Clark and his entertainers; 10:30, Strand roof orchestra; 11:30, Sophie Tucker's playground; 12, Country club orchestra.

WIP, Philadelphia, Pa. (508.2m-590kc), 6:05 p. m., Monte Cross, "old-timer"; 6:15, Benjamin Franklin concert orchestra; 8, program, Marine studio; 8:30, Murphy's minstrels; 9, Chalfonte-Haddon Hall dual trio; 10:15, Eino's weekly movie talk; 10:30, popular and classical piano recital; Karl Bonawitz; 11, Million Dollar Pier dance orchestra; 11:30, Silver Slipper club dance orchestra.

WJAR, Providence, R. I. (305.9m-980kc), 8-10 p. m., WEAF.

WJZ, New York, N. Y. (454.3m-660kc), 7:05 p. m., Frank Duke; 7:20, Harold Leonard's Waldorf-Astoria roof orchestra; 8, One-up Cut-ups; 8:30, Deltah Pearl hour; WRC, WGY; 10, the Grand tour, WRC, WGY; 10:45, George Olsen's Hotel Pennsylvania roof orchestra.

WLIT, Philadelphia, Pa. (394.5m-760kc), 7:30 p. m., Benjamin Franklin El Patio dance orchestra.
WLWL, New York, N. Y. (288.3m-1040kc), 9 p. m., songs; 9:30, quartet; 9:45, violin solos; 10, quartet; 10:15, tenor solos.
WMCA, New York, N. Y. (340.7m-880kc), 7 p. m., Hofbrau Haus entertainers; 8:15, "Muscle Shoals"; Time-O-Stat musical program; 9, "Pied Pipers"; Piccadilly players; 9:30, Columbia Park entertainers; 10:30, Woodmansten Inn orchestra; 11, Ernie Golden and his Hotel McAlpin orchestra; 12, McAlpin entertainers.
WNYC, New York, N. Y. (526m-570kc), 6:35 p. m., piano selections.
WOO, Philadelphia, Pa. (508.2m-590kc), 7:30 p. m., Acropolis Roof Garden orchestra.
WOR, Newark, N. J. (405.2m-740kc), 6:30 p. m., Jacques Jacobs' Hotel Shelton ensemble.
WTAG, Worcester, Mass. (267.7m-1120kc), 8-8:30 p. m., WEAF; 10-11:30, WEAF.

Eastern Standard or Central Daylight Saving Time Stations

KYW, Chicago, Ill. (535.4m-560kc), 7 p. m., Chicago Evening American studio; 8, program, Congress hotel; 10-10:30, classical concert; 10:30-11:30, Congress carnival.

WBAL, Baltimore, Md. (245.8m-1220kc), 6:30-7:30 p. m., WBAL dinner orchestra; 8-9, Celia Krace, violinist; George Bolek, pianist; 9-10, Baltimore City Park orchestra.

WBBM, Chicago, Ill. (225.4m-1330kc), 8-12 midnight, Moss Covered melodies; Howard Osborne's vanity fair orchestra; Matched-Unit quartet.

WCBD, Zion, Ill. (344.6m-870kc), 8 p. m., mixed quartet, ensemble, celestial bells; Messrs. Alexander DePew and Erwin Rendall, duettists; J. D. Thomas, baritone; Mary Sweeney, soprano; Carl Newcomer, saxophonist.

WEBB, Chicago, Ill. (370.2m-810kc), 7-8 p. m., Edge-worth Beach hotel orchestra; Kathryn Forbes; Lydia Lochner; 9:10-10, Uptown theater; 11-12:30 a. m., Gall Bandell; Syncopating Serenaders.

WENR, Chicago, Ill. (265.3m-1130kc), 6-7 p. m., Rauland lyric trio; 8-9, Arthur Dumas popular program; 8-10, All-American homeboys.

WGES, Oak Park, Ill. (249.9m-1200kc), 5-7 p. m., Paradise plane; 8-9, Charles Rothermel's School of Music; 11-1 a. m., Clarence Theodors, Flo and Ray, Lew Butler; Peggy O'Neill; Esther Richards; Bobby Lee.

WGHP, Detroit, Mich. (270.1m-1110kc), 6 p. m., dinner concert; 8, Skylark dance band; Harry Hayes, banjoist; saxophone quartet; Gladys Sanderson and her ukule; Emil Cote, basso; 12-1 a. m., Gerald Marks' orchestra.

WGN, Chicago, Ill. (302.8m-990kc), 6:35-7:15 p. m., Blackstone string quintet, Drake concert ensemble; 8-9, WEAF; 9-10, "Arabian Nights"; 10-10:30, Sam 'n' Henry; 10:10-11, musical program, ensemble.

WGY, Schenectady, N. Y. (379.5m-790kc), 6:45 p. m., John Lloyd, tenor; Edna Youman's contralto; 7:30, WJZ; 8, Minstrel show; 9, WJZ.

WHT, Chicago, Ill. (395.8m-750kc), 7:10 p. m., Al Carney, organist; 7:40, chapel; 10:15 (238m-1260kc), Cinderella cafe orchestra; 10:30 (399.8m-750kc), Pat Barnes and Al Carney; 11, Art Becker, pianist; 12, your hour league.

WIBO, Chicago, Ill. (225.4m-1330kc), 6-8 p. m., dinner concert; WIBO string trio; Chester Newman, baritone; Agnes Buchli, soprano; Charlotte Edwards, contralto; 12, jamboree; Ted Florio, pianist; Dan Russo, violinist; Marie Tully, songs; Wayne Myers, monologist, artists.

WJAZ, Chicago, Ill. (329.5m-910kc), 9-12 midnight, Earl Hoffman's Chez Pierre orchestra; Frances Rosemary Schieb, soprano; Henrietta Nolan, violinist; William Hayden, tenor.

WJJD, Mooseheart, Ill. (370.2m-810kc), 5:30-7 p. m., dinner concert; Jack Nelson; Howard Peterson, organist; Palmer House symphony players; Victorians; 8-9, child artists; 10-11, Victorians; 12:30 a. m., Settin' Up hour.

WLBB, Chicago, Ill. (302.8m-990kc), 7:15-7:30 p. m., dinner music; 7:30-8, WEAF; 11-11:20, Correll and Gosden; 11:20-1 a. m., Liberty studio ensemble; Ambrose Larsen, organist; Tommy Thatcher's Drake hotel dance orchestra; Fred Hamm's Purple Grackle orchestra.

WLS, Chicago, Ill. (344.6m-870kc), 6:30 p. m., Elsie Mae Look, organist; 6:45, College Inn orchestra; 7:15, readings, U. of Chicago; 7:30, Al Melgard, organist; 7:50, Voice of the Listener; 8:10, College Inn orchestra.

WLW, Cincinnati, Ohio (422.3m-710kc), 7:10 p. m., "Memories"; Adelaide Apfel; 7:30, dinner music, Castle Farm; 8, the Crosley Burnt Corkers; 9, concert, Formica symphony orchestra; 10, Henry Theis' Castle Farmers.

WMAQ, Chicago, Ill. (447.5m-670kc), 6 p. m., Chicago theater organ; 6:30, Hotel LaSalle orchestra; 8:40, music; 9:30, musical program, chimes.

WMBB, Chicago, Ill. (249.9m-1200kc), 7-8 p. m., Trianon ensemble; Hilda Hinrichs, cellist; Margaret Conrad, violinist; Preston Graves, pianist; Genevieve Burnham, operatic soprano; 9-11, Trianon orchestra; Woodlawn theater orchestra; Joe Warner; Nora Norraine and Lou Stevere popular program.

WOL, Chicago, Ill. (217.3m-1380kc), 6-7 p. m., Tip-top Inn; 10-10:30 a. m., Tearnery's Town club orchestra; Pershing Palace orchestra; Midway Gardens orchestra; Capitol theater program, studio program.

WOOD, Grand Rapids, Mich. (241.8m-1240kc), 9 p. m., Roundup; 10:05, Claude Lee, Roy Clark, Sally Simpsons, Jim Forsley, Melissa Dvorak.

WQJ, Chicago, Ill. (447.5m-670kc), 7-8 p. m., Rainbow Gardens orchestra; Lee Lindig, tenor; 10-2 a. m., Jerry Sullivan; Happy Harry; Bert Davis; Romo Vincent; Nubs Allen; Johnny Post.

WRC, Washington, D. C. (468.5m-640kc), 7 p. m., Willard hotel orchestra; 7:30, WJZ; 8, announced; 9, WJZ; 9:30, announced; 10:30, Meyer Davis' Le Paradis band.

WSAI, Cincinnati, Ohio (325.9m-920kc), 7 p. m., WEAF; 7:30, musicale; 8, WEAF; 9, concert.

WSWS, Chicago, Ill. (275.1m-1090kc), 6 p. m., orchestra; Ruth Metcalfe, Peter Grosse; 8, Jean St. Anne, Christian A. Grimm; Terrace Gardens orchestra; 10, National violin institute string quartet; 12-1 a. m., Switching hour.

WTAM, Cleveland, Ohio (389.4m-770kc), 6 p. m., State theater vaudeville; 7-10, WEAF; 10, studio program; 11, Euclid Beach Park orchestra.

WWI, Detroit, Mich. (352.7m-850kc), 6 p. m., dinner concert; 7, WEAF.

Central Standard Time Stations

KFAB, Lincoln, Nebr. (340.7m-880kc), 5:30-6:30 p. m., Little symphony orchestra; 8:05-10:30, University of Nebraska.

KFDM, Beaumont, Texas (315.6m-950kc), 7:30-8 p. m., KFDH radio program; 8-10, band.

KFNF, Shenandoah, Iowa (263m-1140kc), 7 p. m., orchestra.

KLDS, Independence, Mo. (440.9m-680kc), 8 p. m., Hazel Cook, organist; Pauline James, soprano; Cammie Johnston, pianist.

KMA, Shenandoah, Iowa (252m-1190kc), 9-11 p. m., Mandolin musicians.

KMOX, St. Louis, Mo. (280.2m-1070kc), 6:30 p. m., Jacquinet Jules, organist; 7, KMOX Radio orchestra; Star Musical Bears; 8, light opera selections, Joseph Marcel McWhorter; Rolf Gaudard; 9, KMOX Radio orchestra; 9:30, F. D. Anderson, baritone; 10, KMOX; 8:30, Davis Saxophone octet; WCAP, WSAI.

KOL, Council Bluffs, Iowa (278m-1080kc), 6:03 p. m., Gentleman music hour; Strawn sisters; Rodna Hughes, pianist; Harold Hughes, tenor and reader; 8, Hazel Beit; 11, Hotsy Totsy hour.

KPRC, Houston, Texas (296.9m-1010kc), 7:30 p. m., dance orchestra; 8:15, dance music.

KSD, Clarinda, Iowa (241.6m-1240kc), 8 p. m., Bagnall twins; Margaret Baird; 8:30, Rag Pickers.

KYOO, Eristow, Okla. (374.8m-800kc), 6-9 p. m., Jimmie Wilson and his Catfish string band.

WADC, Akron, Ohio (258.5m-1160kc), 8 p. m., Miller Maid Creamery company; 9, Roseland dance orchestra; 10, Times Press hour.

WBAP, Fort Worth, Texas (475.9m-630kc), 7:30-8:30 p. m., Clyde Messersale, baritone; Mrs. Florence Messersale, pianist; 9:30-11, Vela Melton.

WCCO, Minneapolis-St. Paul, Minn. (416.4m-720kc), 6 p. m., WEAF; 8, musicale; 9:30, "Outdoors in Minnesota"; 10, Isak Walton league.

WFAA, Dallas, Texas (475.9m-630kc), 6:30-7:30 p. m.,

Ford's Texas trumpeters; 8:30-9:30, Henri LaBonte and his varied performance; 11-12, Jommy Joy's orchestra.

WHAS, Louisville, Ky. (399.8m-750kc), 7:30-9 p. m., Carl Zoeller's Melodists.

WHB, Kansas City, Mo. (365.6m-820kc), 7-7:30 p. m., organ concert; 8-9:30, Ukulele songsters; Harry Taylor, Sam Martin; Mrs. A. Taylor, pianist; Mrs. Lillian Valentine, soloist.

WHO, Des Moines, Iowa (526m-570kc), 7:30-8 p. m., Philbeck and his Younker tea-room orchestra; 8-9, Bankers' Life trio; Stewart Watson, baritone.

WMC, Memphis, Tenn. (499.7m-600kc), 8:30 p. m., music; 11, Brillling's Cafeteria orchestra.

WCAI, San Antonio, Texas (394.5m-760kc), 8:30 p. m., Gerhardt Mexican players.

WOAW, Omaha, Nebr. (526m-570kc), 6:20 p. m., popular song period; 6:50, orchestra; 9, George H. Lee company.

WOC, Davenport, Iowa (483.6m-620kc), 6-6:30 p. m., WEAF; 8-9, Keithsburg community band.

WRR, Dallas, Texas (245.8m-1220kc), 6:10-7 p. m., Jack Gardner's orchestra; 8-9, program.

WSM, Nashville, Tenn. (282.8m-1060kc), 8 p. m., Daisy Sartain, teacher of piano.

Mountain Standard Time Stations

KFXF, Colorado Springs, Colo. (249.9m-1220kc), 8:30 p. m., Colorado Spring jubilee singers.

KOA, Denver, Colo. (322.4m-930kc), 6:30 p. m., Brown Palace string orchestra.

Pacific Standard Time Stations

KFI, Los Angeles, Calif. (467m-642kc), 7-8 p. m., Virginia ballroom orchestra; 8-9, screen artists string quartet; 9-10, Cowie's bagpipe band; 10-11, Knickerbocker Radio club.

KFWB, Hollywood, Calif. (252m-1190kc), 7-7:30 p. m., program, Morris and company; 7:30-8, program, White Auto company; 8-9, Bill Hatch's orchestra and soloists; 9-10, program, American Brake Testing Machine company; 10-11, Warner Brothers frolic.

KGO, Oakland, Calif. (361.2m-830kc), 8 p. m., Eveready program, "Hits" from the comic operas; 9-10, Pilgrims' hour; 10-12, dance music.

KGW, Portland, Ore. (491.5m-610kc), 6-7 p. m., dinner concert; 10-12, dance music, Multnomah hotel, Herman Kenin's dance orchestra; Curt Kramer, pianist.

KHL, Los Angeles, Calif. (405.2m-740kc), 6:30-7:30 p. m., weekly visit, Queen Titania and Sandman; 8-10, All Times night.

KPSN, Pasadena, Calif. (315.6m-950kc), 8-9 p. m., Star-News concert hour, Star-News ensemble.

KTAB, Oakland, Calif. (239.9m-1250kc), 7-7:30 p. m., shopping hour; 8-10, program.

Wednesday, July 7

Headliners Today

Atlantic	Eastern	Central	Mountain	Pacific
6 p. m.	5	4	3	2
WIC (468.5m-640kc), U. S. Marine band.				
8:30	7:30	6:30	5:30	4:30
WJZ (454.3m-660kc), New York Philharmonic.				
WLWL (288.3m-1040kc), Hearshide Harmonizers.				
11	10	9	8	7
WFLA (256.3m-1170kc), Songs of the sea, Mariners quartet.				
10:15	9:15	8:15	7:15	6:15
WEBB (272.6m-1100kc), Michele Bontempo, Italian baritone.				
10:30	9:30	8:30	7:30	6:30
KFAB (340.7m-880kc), Request night.				
11	10	9	8	7
WLS (344.6m-870kc), Medicine show.				
11:30	10:30	9:30	8:30	7:30
KMOX (280.2m-1070kc), "Crdline Days."				
12 m.	11	10	9	8
WQJ (447.5m-670kc), First National Violin quartet.				

Wednesday, silent night for: CKAC, CKNC, CNRA, CNRE, CNRM, CNRR, CNRT, CNRW, KFH, KFKX, KFUO, KOA, KOB, KTAB, WAHG, WAND, WBBR, WCAP, WGPC, WHAZ, WOR, WOS, WSMB, WSUI, WTAM, WTTC.

Atlantic or Eastern Daylight Saving Time Stations

CFA, Toronto, Can. (356.9m-840kc), 11 p. m., Gilbert Watson and his orchestra.

WCAE, Pittsburgh, Pa. (461.3m-650kc), 6:30 p. m., Iner concert, William Penn hotel; 8, WEAF; 8:30, WEAF; 9, concert; 10, WEAF.

WCAU, Philadelphia, Pa. (277.6m-1060kc), 7:30 p. m., N. Snellenburg and company; 8:10, Hotel Pennsylvania orchestra; 8:30, Miller piano period; 9, White and Mazer songs; 9:45, Senator Hassenpfeffer; 10, Maurice Patton, tenor; 10:30, Zoehms and Herscher, songs; 10:45, Frank Cook, old-time songs; 11, Art Bittong's cheer-ups.

WEAF, New York, N. Y. (491.5m-610kc), 6 p. m., dinner music; 8, Shinola Merry-makers, Gentlemen of the 2 in 1, WTAG, WCAE, WWJ, WJAR, KSD, WGR, WEBL, WOO, WCSH, WOC, WCAP, WCAE, WSAI, WFL, WJAR, WGR, WCSH; 9, Ipana Troubadours; WEBL, WCAE, WOO, WWJ, WLBB, WCCO, WOC, WGR, WSAI, KSD; 11-12, Pelham Heath Inn orchestra.

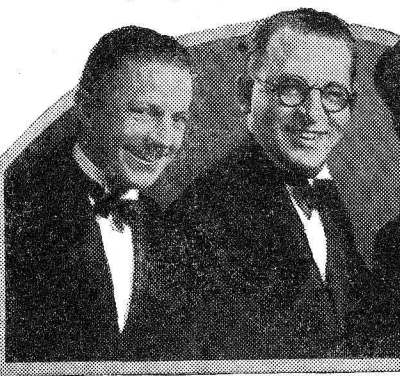
WEBJ, New York, N. Y. (272.6m-1100kc), 8 p. m., Raymond orchestra; 8:45, Hawaiian guitar duets, Ben Ruty, Michael Savino; 9:15, Michele Bontempo, Italian baritone; 9:30, Ed Bulger's Radio orchestra.

WFI, Philadelphia, Pa. (394.5m-760kc), 6:45 p. m., Bellevue Stratford dance orchestra.

WGR, Buffalo, N. Y. (319m-940kc), 6:30 p. m., Gospel Melodists two-piano recital; 8, WEAF; 8:30, recital; 9, WEAF; 10, popular program; 11, Vincent Lopez in himself and his Casa Lopez orchestra, playing in studio.

WHN, New York, N. Y. (361.2m-830kc), 7:30 p. m., Loew's Lexington organ recital; 9, Loew's New York orchestra; 10, Roseland dance orchestra; 11:30, Silver Slipper orchestra.

Three Musical Mirth Makers are George Bensen, Austin Rosmer and Bert Dolan. Below, with piano, saxophone, violin and vocal solos these popular young men entertain every Wednesday night at WBZ.



WIP, Philadelphia, Pa. (508.2m-590kc), 6:05 p. m., Benjamin Franklin concert orchestra; 7, Uncle Wip's bedtime stories.

WJAR, Providence, R. I. (305.9m-980kc), 7:30-9 p. m., WEAF; 9, musicale; 10, tabloid musicale.

WJZ, New York, N. Y. (454.3m-660kc), 7:05 p. m., Hotel Madison concert orchestra; 8, Imperial Imps; 8:30, Stadium Philharmonic concert; 10:30, Hotel Astor roof orchestra.

WLIT, Philadelphia, Pa. (394.5m-760kc), 8:30 p. m., concert, Progress Paint company; 9, Montco artists; 10, Arcadia cafe dance orchestra.

WLWL, New York, N. Y. (288.3m-1040kc), 8:30 p. m., Hearshide Harmonizers; 9:15, piano recital; 9:30, contralto; 10

Wednesday, July 7

WMBB, Chicago, Ill. (249.9m-1200ke), 7-8 p. m. Tri-
anon duo; Elanor Kaplan, violinist; Monte Blum,
tenor; Preston Graves, pianist; request program; 9-11,
Trianon orchestra; Woodlawn theater orchestra, vocal
artists.

Central Standard Time Stations

KFAB, Lincoln, Nebr. (340.7m-880ke), 5:30-6:30 p. m.,
dinner concert; 8:30-10:30, musicale.

Mountain Standard Time Stations

KOA, Denver, Colo. (322.4m-930ke), 6:30 p. m., Brown
Palace string orchestra; 8, Scheuerman's Colorado or-
chestra; 8:15, KOA orchestra; Lancaster Smith, barito-
ne; Iris Wilson, contralto; Jeldo Carron, accordionist;
KOA orchestra; Harry F. Taylor, tenor; Lancaster
Smith, baritone; Dorothy Milne, violinist; Ruth Hake
Ponte, pianist; instrumental trio; Vera Reynolds, violi-
nist.

Pacific Standard Time Stations

KFI, Los Angeles, Calif. (467m-642k), 7-7:30 p. m.,
popular program; 7:30-8, Nick Harris detective story;
8-9, program, California Petroleum corp.; 9-10,
Claribel Patten Wallace, contralto; 10-11, Charles
Beauchamp, tenor.

Thursday, July 8

Headliners Today

Atlantic Eastern Central Mountain Pacific
8:30 p. m. 7:30 6:30 5:30
WRC (468.5m-640ke), WJZ (454.3m-690ke), WGY
(379.5m-790ke), U. S. Marine band.

For stations silent tonight refer to first Thursday's list.

Atlantic or Eastern Daylight Saving
Time Stations
CFCA, Toronto, Can. (356.9m-840ke), 11 p. m., Gilbert
Watson and his orchestra.

tra; 8, Saddler's Plantation serenaders; 8:30, Clifton's
anglers; 8:45, Kandy Kids; 9, Barry O'Moore, Irish
tenor; 9:30, Musical chefs; 9:45, Professor Doolittle.
WEAF, New York, N. Y. (491.5m-610ke), 6-12 midnight,
dinner music; midweek hymn sing; 8:15, Hires Har-
vesters WEEL, WFL, WCAE, WLBB, WSAI, WWJ,
WTAM; 9, CHQnet club Eskimos, WEEL, WJAR,
WTAG, WPI, WCAE, WSAI, WTAM, WGR, WWJ,
WOC, KSD, WCCO, WGN; 10, Silvertown Cord or-
chestra, WEEL, WFL, WCAE, WWJ, WGR, WOC,
WCCO, WTAG, KSD, WSAI, WJAR, WGN, WADC;
11-12, Buffaloians.

FARMERS' PROGRAMS INDEX

Table with columns for Day (Wednesday, Thursday, Friday, Saturday, Sunday, Monday, Tuesday) and Stations (Atlantic, Eastern, Central, Mountain, Pacific) listing programs like 'Prairie Farmer farm talks', 'Poultry husbandry', and 'Agricultural aid'.

Eastern Standard or Central Daylight Saving Time Stations

KYW, Chicago, Ill. (535.4m-560ke), 7 p. m., musicale,
Hearst Square; 9-10:30, classical concert; 10:30-11:30,
Congress carnival.

phony players; 8-9, children's hour; 10-11, Victorians,
quartet; 12:30 a. m., Knights of the Burning Candle.
WLBB, Chicago, Ill. (302.8m-990ke), 7:15-8 p. m.,
Liberty studio ensemble; Ambrose Larsen, organist;
Tommy Thatcher's Drake hotel dance orchestra; Fred
Hanna's Purple Grackle orchestra.

Central Standard Time Stations

KFI, Los Angeles, Calif. (467m-642ke), 7-8 p. m.,
song program, Paul Roberts, Leslie Adams; 8-9, S.
Darling, old-time fiddler; Addie Lucien, yodeler;
9-10, grand opera program; 10-11, Patrick-Marsh
dance orchestra.

Eastern Standard or Central Daylight Saving Time Stations

KYW, Chicago, Ill. (535.4m-560ke), 7 p. m., musicale;
8-9, Federal Masters; 10:30-12, Congress carnival.

gan; 6:25, Francis Potter, banjoist; 6:50, orchestra;
9, Sunshine program.

Mountain Standard Time Stations

KFXF, Colorado Springs, Colo. (249.9m-1200ke), 9
p. m., Russell Greenfield Mason, flute soloist; Ben-
jamin Johnson, pianist; W. C. Bybee, tenor.

Pacific Standard Time Stations

KFI, Los Angeles, Calif. (467m-642ke), 7-8 p. m.,
song program, Paul Roberts, Leslie Adams; 8-9, S.
Darling, old-time fiddler; Addie Lucien, yodeler;
9-10, grand opera program; 10-11, Patrick-Marsh
dance orchestra.

Friday, July 9

Headliners Today

Atlantic Eastern Central Mountain Pacific
8:10 p. m. 7:10 6:10 5:10 4:10
WBR (245.8m-1220ke), Mercedes McManus, blues
singer.

For stations silent tonight refer to first Friday's list.

Atlantic or Eastern Daylight Saving Time Stations

WCAE, Pittsburgh, Pa. (461.3m-650ke), 6:30 p. m.,
dinner concert; 8, studio program; 9:30, concert; 10,
WEAF; 10:30, WEAF.

Friday, July 9

WJAZ, Chicago, Ill. (329.5m-910ke), 9-12 midnight, Earl Hoffman's Chez Pierre orchestra; the Quips That Pass in the Night; Harry Morse, tenor; Helen Jenkins, pianist; Chez Pierre Hawaiian quartet.

Central Standard Time Stations

KFAB, Lincoln, Nebr. (340.7m-880ke), 5:30-6:30 p. m., dinner concert; 8:30-10:30, variety program.

Mountain Standard Time Stations

KFXF, Colorado Springs, Colo. (249.9m-1200ke), 8:30 p. m., Athene Went, ukulele soloist; Edgar Laughlin, baritone; Evelyn Bissell, pianist.

Pacific Standard Time Stations

KFI, Los Angeles, Calif. (467m-642ke), 7-8 p. m., Ye Knights of the Knots; 8-9, Aeolian organ; 9-10, Harry Decker's Hawaiians; 10-11, Packard ballad hour.

Saturday, July 10

Headliners Today

Table with 5 columns: Atlantic, Eastern, Central, Mountain, Pacific. Lists radio stations and their broadcast times for Saturday, July 10.

For stations silent tonight refer to first Saturday's list.

Atlantic or Eastern Daylight Saving Time Stations

CFCA, Toronto, Can. (356.9m-840ke), 9 p. m., CFCA's summer orchestra.



Popular Cincinnati ballad singer is Ruth Pushin, above. She has been much applauded at WKRC during her frequent appearances.

WCAE, Pittsburgh, Pa. (461.3m-650ke), 6:30 p. m., dinner concert.

Eastern Standard or Central Daylight Saving Time Stations

KYW, Chicago, Ill. (535.4m-560ke), 7 p. m., hour of music; 8, KYW's Congress hotel studio; 9-10:30, classical concert; 10:30-12, Congress carnival.

organist; 7:40, classical hour; 10:15 (238m-1260ke), Cinderella orchestra; 10:50 (399.8m-750ke), popular hour; 12 midnight, your hour league.

Central Standard Time Stations

KFAB, Lincoln, Nebr. (340.7m-880ke), 5:30-6:30 p. m., dinner concert; 8:30-10:30, Little Symphony orchestra.

Mountain Standard Time Stations

KFXF, Colorado Springs, Colo. (249.9m-1200ke), 8:30 p. m., studio program; J. L. Greenup, tenor; O. Kelly, Bernard Kelly, banjo boys.

Pacific Standard Time Stations

KFI, Los Angeles, Calif. (467m-642ke), 7-8 p. m., Al Wesson's orchestra; 8-9, Angelus trio; 9-10, varied program; 10-11, Packard Radio club; 11-2 a. m., KFI midnight frolic.

Atlantic or Eastern Daylight Saving Time Stations

CFCA, Toronto, Can. (356.9m-840ke), 11 a. m., Timothy Eaton Memorial church; 7 p. m., St. Paul's Anglican church.

Sunday, July 11

Headliners Today

Table with 5 columns: Atlantic, Eastern, Central, Mountain, Pacific. Lists radio stations and their broadcast times for Sunday, July 11.

For stations silent tonight refer to first Sunday's list.

Sunday, July 11

WEAF, New York, N. Y. (491.5m-610kc), 6-12 midnight, dinner music; A. and P. Gypsies; grand opera; Ben Bernie and his orchestra.

WEAF, New York, N. Y. (491.5m-610kc), 6-12 midnight, dinner music; A. and P. Gypsies; grand opera; Ben Bernie and his orchestra.

Ernie Golden and his Hotel McAlpin orchestra; 7:15, Ernie Golden and his Hotel McAlpin orchestra; 9:15, Hardman hour of music; 10:30, Woodmansten Inn orchestra; 11, Jack Denny's orchestra; 12, McAlpin entertainers.

period; 11, Wild and Woolly Wood Workers' club, 25th Woodpile.

Central Standard Time Stations

KFAB, Lincoln, Nebr. (340.7m-880kc), 5:30-6:50 p. m., dinner concert; 8:30-10:30, Old-time Tunes night.

Mountain Standard Time Stations

KFXF, Colorado Springs, Colo. (249.9m-1200kc), 9 p. m., Dorothy Eler Phillips, soprano; Jos. R. Long, Jr., baritone; Tom Torrington, piano.

Pacific Standard Time Stations

KFI, Los Angeles, Calif. (467m-642kc), 7-8 p. m., Owen Fallon's Californians; 8-9, popular program; 9-10, program, Walter M. Murphy Motors company; KPO, 10-11, popular program, Melkielejo Brothers.

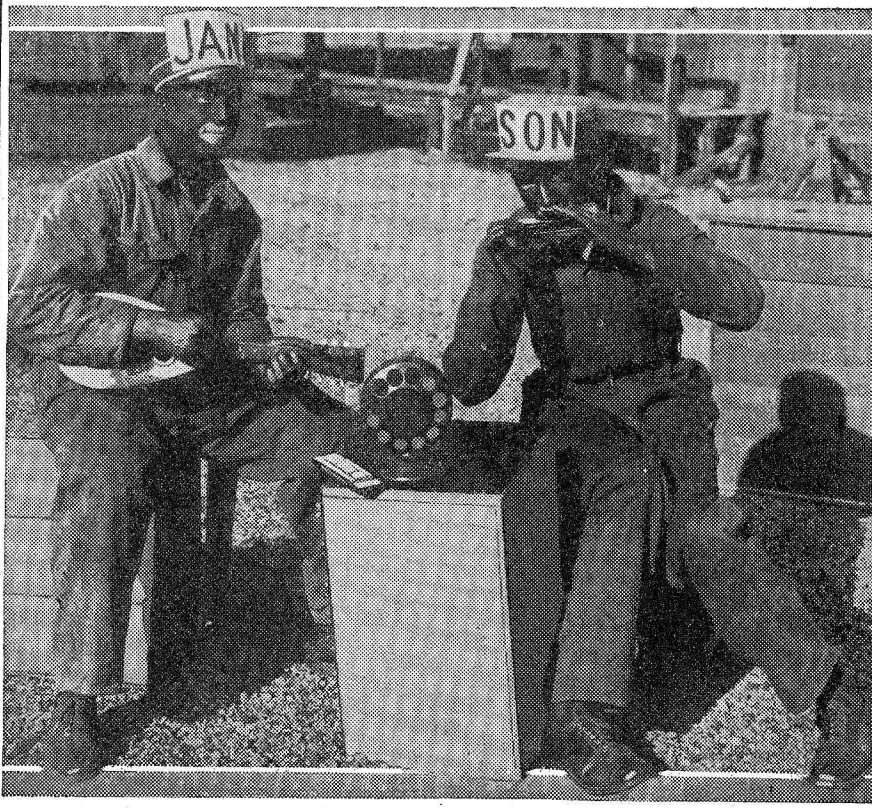
Tuesday, July 13

Headliners Today

Atlantic Eastern Central Mountain Pacific 9:30 p. m. 8:30 7:30 6:30 5:30

Atlantic or Eastern Daylight Saving Time Stations

WCAE, Pittsburgh, Pa. (461.3m-650kc), 6:30 p. m., dinner concert; 8, WEAF; 8:30, WEAF; 9, WEAF; 10, musical.



Rushey and Bill, alias "The Janitor and His Son," alias "Gloomchasers of the Lone Star State," snapped during one of their informal programs on the roof garden, WFAA.

WHAR, Atlantic City, N. J. (275.1m-1090kc), 8 p. m., program; Seaside hotel trio; 11, Follies Bergere dance orchestra.

WOR, Newark, N. J. (405.2m-740kc), 6:30 p. m., Jacques Jacobs' Hotel Shelton ensemble; 7:30, Brooklyn Daily Eagle program; 8, Newark Philharmonic band; 8:45, Klein's Serenading Shoemakers; 9:45, Monterey society orchestra; 10:45, Monterey concert quintet; 11:15, Ben Bernie Berkeley Cartaret grill.

GENERAL TALKS AND SPEECHES

Table with columns for days of the week (Thursday, Friday, Saturday, Monday, Tuesday, Wednesday, Thursday) and stations (Atlantic, Eastern, Central, Mountain, Pacific) with their respective times and program titles.

Table with columns for days of the week (Friday, Saturday, Monday, Tuesday, Wednesday) and stations (Atlantic, Eastern, Central, Mountain, Pacific) with their respective times and program titles.

Monday, July 12

Headliners Today Atlantic Eastern Central Mountain Pacific 6 p. m. 5 4 3 2

Atlantic or Eastern Daylight Saving Time Stations CKNC, Toronto, Can. (356.9m-840kc), 9 p. m., Eveready orchestra; Mrs. Harry Hodgetts, soprano; Charles Shearer, baritone.

Tuesday, July 13

Eastern Standard or Central Daylight Saving Time Stations

KYW, Chicago, Ill. (535.4m-560ke), 7-8 p. m., musical program; 8-9, musical program; 9:30-10:30, classical concert; 10:30-11:30, Congress carnival.

Wednesday, July 14

Headliners Today

Table with 5 columns: Atlantic, Eastern, Central, Mountain, Pacific. Lists radio stations and their programs for Wednesday, July 14.

For stations silent tonight refer to first Wednesday's list.

Atlantic or Eastern Daylight Saving Time Stations

CFCA, Toronto, Can. (356.9m-840ke), 11 p. m., Gilbert Watson and his orchestra.

WLIB, WCCO, WOC, WGR, WSAI, KSD; 10, "Yeoman of the Guard," light opera company, WCAP, WJAR, WDAF, WEEL, WTAG, WCAE, WWJ, WCSH, KSD, WVIC; 11-12, Pelham Heath Inn orchestra.

Eastern Standard or Central Daylight Saving Time Stations

KYW, Chicago, Ill. (535.4m-560ke), 7 p. m., musical program; 9-10:30, classical concert; 10:30-12, Congress carnival.

WGBH, Clearwater, Fla. (265.3m-1130ke), 8:30-10 p. m., diversified program; Caroline Lee, "The Virginia Girl"; and her Spanish guitar; Bob Houts, baritone; Katherine Gauss, violinist; Mrs. Newell Turner, accompanist.

WJAZ, Chicago, Ill. (329.5m-910ke), 9-12 mid., Chez Pierre studio program; Earl Hoffman's Chez Pierre orchestra; William Hayden, tenor; Frances Rosemary Schieb, soprano; Henrietta Nolan, violinist.

WJAZ, Chicago, Ill. (329.5m-910ke), 9-12 mid., Chez Pierre studio program; Earl Hoffman's Chez Pierre orchestra; William Hayden, tenor; Frances Rosemary Schieb, soprano; Henrietta Nolan, violinist.

WJAZ, Chicago, Ill. (329.5m-910ke), 9-12 mid., Chez Pierre studio program; Earl Hoffman's Chez Pierre orchestra; William Hayden, tenor; Frances Rosemary Schieb, soprano; Henrietta Nolan, violinist.

Central Standard Time Stations

KFAB, Lincoln, Neb. (340.7m-880ke), 5:30-6:30 p. m., Little symphony orchestra; 8:05-10:30, program, University of Nebraska.

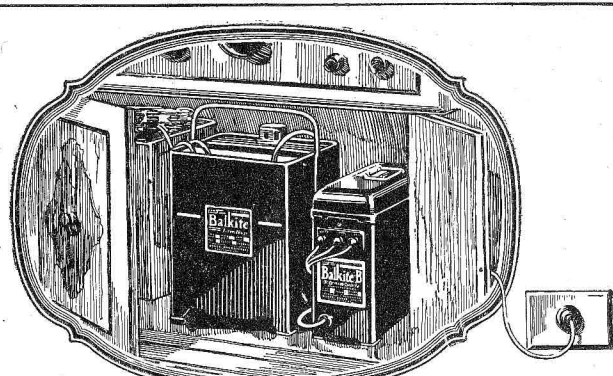
Mountain Standard Time Stations

KFXF, Colorado Springs, Colo. (249.9m-1220ke), 8:30 p. m., studio program, direction of Miss Grace Casey.

Pacific Standard Time Stations

KFI, Los Angeles, Calif. (467m-642ke), 7-8 p. m., Virginia ballroom orchestra; 8-9, screen artists quartet; 9-10, varied program; 10-11, Packard Radio club in popular songs.

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FAN STEEL Balkite Radio Power Units

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Wednesday, July 14

WMBB, Chicago, Ill. (249.9m-1200ke), 7-8 p. m., Trio duo; 9-11, Trio orchestra; artists.
 WOK, Chicago, Ill. (217.3m-1330ke), 6-7 p. m., Tip-Top Inn string ensemble; 10-1:30 a. m., Teaney's Town club orchestra; Pershing Palace orchestra; Midway Gardens orchestra; Capitol theater program.
 WOOD, Grand Rapids, Mich. (241.8m-1240ke), 9 p. m., 16-Fingered Paul; Moke Marrin, Helen Neuman, Jim Forshey, Ruth Glaser, Pearl Knudson, Sid Goldman, Chuck Helweg's Ramona Gardens orchestra; 9:30, Sav-u-time program; 10:05, Atwater Kent hour.
 WQJ, Chicago, Ill. (447.5m-670ke), 7-8 p. m., Rainbo Gardens orchestra; 10-2 a. m., Rainbo Gardens orchestra; Melodians; Joe Warner, character songs.
 WRC, Washington, D. C. (468.5m-640ke), 5-6:20 p. m., U. S. Marine band.
 WRVA, Richmond, Va. (256.3m-1170ke), 9 p. m., Smithers Hawaiian orchestra; 9:30, Robert J. Beadles, organist.
 WSAI, Cincinnati, Ohio (325.9m-920ke), 6:45 p. m., chimes; 7, WEAF; 10, Congress Playing Card string quartet.
 WSWS, Chicago, Ill. (275.1m-1090ke), 6 p. m., Josephine Oliver, Terrace Gardens orchestra; 8, Cecil and Esther Ward, Nel and Lucille Cook; Edward Holt, Clinton Keithley; Terrace Gardens orchestra; 10, Terrace Gardens quintet; Josephine Oliver, Lucille Darmond; Joe Coffee; Dave Darcie, ballads; Osborne Sisters; 12, Witching hour.
 WTAM, Cleveland, Ohio (389.4m-770ke), 6:15 p. m., Hotel Cleveland orchestra; 7:30, WEAF; 8, Public Auditorium program.
 WWJ, Detroit, Mich. (352.7m-850ke), 6 p. m., dinner concert; 7, WEAF; 7:30, dance orchestra; 8 dance program; 9, Detroit News orchestra.

Central Standard Time Stations

KFAB, Lincoln, Neb. (340.7m-880ke), 5:30-6:30 p. m., dinner concert; 8:30-10:30, orchestra entertainment.
 KFH, Wichita, Kans. (267.7m-1120ke), 7 p. m., saxophone octet; 7:30, Jimmie White and Clovis Miller.
 KFN, Shenandoah, Iowa (263m-1140ke), 7 p. m., concert.
 KMA, Shenandoah, Iowa (252m-1190ke), 9-11 p. m., popular musicale.
 KMOX, St. Louis, Mo. (280.2m-1070ke), 6:30 p. m., Jacques Jules; 7-8:30, Marguerite Schmidt, pianist; 8:30-9:30, song cycle; 9:30-11:30, "Little Mexico."
 KPRC, Houston, Texas (296.9m-1010ke), 7:30 p. m., Kensington Hall dance orchestra; 8:30, popular skyline studio concert.
 KSO, Clarinda, Iowa (241.8m-1240ke), 8 p. m., North Page Canaries; 8:20, mixed program, Vern Fisher.
 KVOO, Bristow, Okla. (374.8m-800ke), 6-8 p. m., Radio trio; Mascho, Cunningham, Mascho.
 WADC, Akron, Ohio (258.5m-1160ke), 9 p. m., Roseland dance orchestra.
 WCOA, Pensacola, Fla. (222m-1350ke), 7 p. m., First Presbyterian church choir; David Lloyd, tenor; Mrs. Henry S. Brown, contralto; John D. Thomas, pianist, Churchill and Fillingim, Hawaiian melodies.
 WGBF, Evansville, Ind. (263m-1270ke), 7 p. m., dance musicale, A. L. Maxwell company; 8, auto tour; 11, DX club.
 WHAS, Louisville, Ky. (399.8m-750ke), 7:30-9 p. m., Jake Seligman and his Kentucky Night Owls.
 WHB, Kansas City, Mo. (365.6m-820ke), 7-8 p. m., Harry Lani and his uke.
 WOAI, San Antonio, Texas (394.5m-760ke), 8:30 p. m., Army night program.
 WOC, Davenport, Iowa (483.6m-620ke), 6-7:30 p. m., WEAF; 9:30-10:30, organ recital.
 WSM, Nashville, Tenn. (282.8m-1060ke), 7 p. m., dinner concert; 8, Frances Hickerson, reader; Mrs. Blanche Bingham Campbell, mezzo-soprano; Elizabeth English, accompanist; 10, Mrs. Eva Thompson Jones, contralto; Eleanor Horn, pianist.
 WSMB, New Orleans, La. (319m-940ke), 8:30-10:30 p. m., Schilling's society serenaders, Marcus show.

Pacific Standard Time Stations

KFI, Los Angeles, Calif. (467m-642ke), 7-7:30 p. m., popular program; 7:30-8, Nick Harris detective story 8-9, program, California Petroleum corporation; 9-10, classic hour; 10-11, Chas. Beauchamp, tenor.
 KFVB, Hollywood, Calif. (252m-1190ke), 7:30-8 p. m., program, Corduroy Tire stores; 8-9, program, A. V. Shotwell corporation; 9-10, program, Pacific Development company; 10-11, Warner Brothers frolic.
 KGW, Portland, Ore. (491.5m-610ke), 6-7 p. m., dinner concert; 8-9, concert; 9-10, vocal and instrumental concert.
 KHJ, Los Angeles, Calif. (405.2m-740ke), 6:30-7:30 p. m., Uncle John and the children; 8-10, Tower studio presentation.

NEWS BULLETINS

Daily Except Sunday

Atlantic	Eastern	Central	Mountain	Pacific
10:45 a. m.	9:45	8:45	7:45	6:45
KDKA (309.1m-970ke)				
11	10	9	8	7
WGN (302.8m-990ke)				
11:35	10:35	9:35	8:35	7:35
WCCO (416.4m-720ke)				
12	11	10	9	8
WOAI (394.5m-760ke)				
1 p. m.	12 n.	11	10	9
CFCA (356.9m-840ke); KDKA (309.1m-970ke); KPRC (296.9m-1010ke)				
1:30	12:30	11:30	10:30	9:30
WCAE (461.3m-650ke)				
2	1	12 n.	11	10
KGW (491.5m-610ke); KNX (336.9m-890ke)				
2:15	1:15	12:15	11:15	10:15
WOAI (394.5m-760ke)				
4:45	3:45	2:45	1:45	12:45
WHAS (399.8m-750ke)				
5	4	3	2	1
WCX (516.9m-580ke)				
5:30	4:30	3:30	2:30	1:30
WCAE (461.3m-650ke); WFAA (475.9m-630ke)				
7	6	5	4	3
CFCA (356.9m-840ke)				
7:30	6:30	5:30	4:30	3:30
WPG (299.8m-1000ke)				
8	7	6	5	4
KOIL (278m-1080ke); WOC (483.6m-620ke)				
8:15	7:15	6:15	5:15	4:15
WMAK (265.6m-1130ke); WOAI (394.5m-760ke)				
9	8	7	6	5
WMCA (340.7m-880ke)				
10	9	8	7	6
WSAI (325.9m-920ke)				
10:30	9:30	8:30	7:30	6:30
KPO (428.3m-700ke)				
11	10	9	8	7
KLX (508.2m-590ke)				
11:45	10:45	9:45	8:45	7:45
WEBB (370.2m-810ke)				

Sunday

Atlantic	Eastern	Central	Mountain	Pacific
9 p. m.	8	7	6	5
WMAK (265.6m-1130ke)				
9:15	8:15	7:15	6:15	5:15
WEBB (370.2m-810ke)				
10	9	8	7	6
WPG (299.8m-1000ke)				
1 a. m.	12 n.	11	10	9
KFWB (252m-1190ke)				

CLASSICAL CONCERTS INDEX

Sunday

Atlantic	Eastern	Central	Mountain	Pacific
7:20 p. m.	6:20	5:20	4:20	3:20
WCAE, WCAU, WEAF chain, WJAR, WJAZ, WWJ, KOA	7:30	6:30	5:30	4:30
9	8	7	6	5
WAMD, WBZ, WCAU, WHAR, WJAZ, WHT, WNYC, WQJ				
10	9	8	7	6
KFDM, KPRC, WBZ, WCBF, WCCO, WGY				
9:15	8:15	7:15	6:15	5:15
WEAF chain				
9:45	8:45	7:45	6:45	5:45
WEAF chain				
11	10	9	8	7
KFAB, KHJ, KNX, KTHS, KYW, WCCO, WFAA, WOC, WSOE				
12 m.	11	10	9	8
KHJ, KNX, KPO, KTHS, WKRC, WOC				
1 a. m.	12 m.	11	10	9
KHJ, KNX, WOC				
2	1	12 m	11	10
KNX				

Monday

Atlantic	Eastern	Central	Mountain	Pacific
7 p. m.	6	5	4	3
KGO, WCX, WEAF, WOK, WRBO, WWJ, KFAF	7:30	6:30	5:30	4:30
8	7	6	5	4
KMA, WBRR, WCCO, WEAF, WEAR, WHAR, WHAD, WHT, WJR, WMBB, WOAW, WTAG				
9	8	7	6	5
KPNF, KSD, WBZ, WCX, WLW, WTTIC				
9:30	8:30	7:30	6:30	5:30
KOA				
9	8	7	6	5
WEAF chain, KFAB, KGO, KHJ, KPRC, WCCO, WBZ, WHAD, WHO, WLW, WORD, WOS, WDAF				
11	10	9	8	7
KMA, KOA, KPO, KPRC, KSD, KTHS, WAMD, WCCO, WHAD, WOAW, WSAI, WSUL				
11:15	10:15	9:15	8:15	7:15
KOA				
12 m.	11	10	9	8
KGW, KHJ, KMA, KSD, KTHS				
1 a. m.	12 m.	11	10	9
KGW, WBAP				
2	1	12 m	11	10
KHJ				

Tuesday

Atlantic	Eastern	Central	Mountain	Pacific
7 p. m.	6	5	4	3
WBZ, WCX, WRBO, WWJ	7:30	6:30	5:30	4:30
8	7	6	5	4
KGO, KMA, WEAF, WHAD, WJR, WMAQ, WOAAW, WOK, WSAI, WTTIC, WWJ	8:30	7:30	6:30	5:30
9	8	7	6	5
KPNF, KSD, KYW, WBZ, WCAE, WCX, WHT, WLS, WMBB, WQJ, WRC, WTTIC, WEAF chain				
9:30	8:30	7:30	6:30	5:30
KOA				
10	9	8	7	6
KFDM, KGO, KHJ, KYW, WCAE, WCBF, WCCO, WEAF, WEEL, WGR, WHAS, WJAR, WLW, WMAQ, WOC, WSOE, WTAG				
11	10	9	8	7
KFAB, KFDM, KFOO, KMA, KNX, KPRC, KTHS, WCAE, WCCO, WEAF, WEEL, WLW, WMCA, WOC, WSOE, WTAG				
12 m.	11	10	9	8
KGO, KHJ, KMA, KYW				
1 a. m.	12 m.	11	10	9
KPO, KYW, WHO, WMC				

Wednesday

Atlantic	Eastern	Central	Mountain	Pacific
7 p. m.	6	5	4	3
WCX, WRBO, WWJ	7:45	6:45	5:45	4:45
8	7	6	5	4
KFAB, WSAI				
9	8	7	6	5
KGO, WHAD, WJR, WMAQ, WOK, WTTIC				

Atlantic Eastern Central Mountain Pacific

9	8	7	6	5
KPNF, KPRC, KSD, KYW, WAMD, WBZ, WCX, WEAF, WEEL, WHT, WLW, WMBB, WMCA, WQJ, WTAG, WWJ				
9:30	8:30	7:30	6:30	5:30
KOA				
10	9	8	7	6
KGO, KPRC, KSD, KYW, WBZ, WCCO, WDAF, WEEL, WGR, WHAD, WHAS, WJAR, WMAQ, WOR, WOS, WORD				
11	10	9	8	7
KMA, KNX, KTHS, WAMD, WCCO, WEAF, WEEL, WGR, WHAD, WJAR, WLS, WMAQ, WNYC, WOC, WSOE				
12 m.	11	10	9	8
KGO, KGW, KMA, KPO, KTHS, WCAE, WLS, WLW, WOC, WSAI				
1 a. m.	12 m.	11	10	9
KGW, KPO, WHAD, WLW				
2	1	12 m	11	10
WLW				

Thursday

Atlantic	Eastern	Central	Mountain	Pacific
7 p. m.	6	5	4	3
WBZ, WCX, WIP, WRBO, WWJ	8	7	6	5
8	7	6	5	4
KGO, KSD, WEAF, WGBS, WHAD, WJR, WMAQ, WOAW, WOK, WQJ, WWJ				
9	8	7	6	5
KYW, WBRR, WBZ, WCAU, WCCO, WCX, WEEL, WGR, WGY, WHAR, WHT, WLS, WLW, WMBB, WOAW, WTAG, WTTIC				
9:30	8:30	7:30	6:30	5:30
KOA				
10	9	8	7	6
KHJ, KLDS, WBAP, WCAE, WCAU, WCBF, WCCO, WEAF, WEEL, WGR, WHAR, WHAS, WJAR, WJAZ, WNYC, WOC, WORD, WRC, WSAI, WSB, WTAG				
11	10	9	8	7
KNX, KPRC, KTHS, KYW, WAMD, WGR, WGY, WHAD, WJAZ, WMC, WOAW, WOC, WSAI				
12 m.	11	10	9	8
KGO, KPO, KTHS, WBAP, WJAZ, WKRC				
1 a. m.	12 m.	11	10	9
KGW, KPO, WHO, WKRC				

Friday

Atlantic	Eastern	Central	Mountain	Pacific
7 p. m.	6	5	4	3
KGO, WCX, WMCA, WRBO, WWJ	7:30	6:30	5:30	4:30
8	7	6	5	4
KFAF				
9	8	7	6	5
KGO, WEBJ, WGY, WHAD, WJR, WMAQ, WOAW, WOK, WOR, WQJ, WTTIC				
9:30	8:30	7:30	6:30	5:30
KOA				
10	9	8	7	6
KFDM, KPNF, KGO, KHJ, KSD, KYW, WBAP, WBZ, WCAU, WDAF, WEEL, WHAD, WJAR, WMAQ, WMCA, WSAI				
11	10	9	8	7
KFAB, KFDM, KOA, WCCO, WHAD, WMAQ, WOC, WORD				
12 m.	11	10	9	8
KHJ, KNX, KPO				
1 a. m.	12 m.	11	10	9
KPO				

Saturday

Atlantic	Eastern	Central	Mountain	Pacific
7 p. m.	6	5	4	3
WCX, WEAF, WMCA, WRBO	7:30	6:30	5:30	4:30
8	7	6	5	4
KFAF				
9	8	7	6	5
KGO, KYW, WENR, WMAQ, WNYC, WOAW, WOK, WRC				
9:30	8:30	7:30	6:30	5:30
KDKA, KPNF, KOIL, KSD, KYW, WBRR, WGN, WMBB, WNYC, WOAW, WQJ				
10	9	8	7	6
KPRC, KHJ, KYW, WHAS, WIP, WLW, WORD, WSAI, WSOE				
11	10	9	8	7
KNX, KYW, WEAF, WMAQ, WMC, WOAW, WOC, WORD				
12 m.	11	10	9	8
KGO				
1 a. m.	12 m.	11	10	9
WOAW				

New Schedule for Baseball Scores Announced by WJZ

NEW YORK.—The sports loving element in Station WJZ's audience are warned of a change which has occurred in the time of broadcasting of the final sport returns.

The station has found that it will be possible to give the final baseball returns to the fans half an hour earlier than has been the practice during the early part of the season. In other

"HELLO AMERICA, EUROPE CALLING"



Here is the European end of transatlantic Radiotelephone link at Hillmorton, near Rugby, England. Extreme left, closeup of giant tower; below, general view of transmitter room; above, exterior of building housing set. The present power of 100,000 watts may soon be raised tenfold.

Fifty Years After Telephone's Debut Words from It Wing Across Atlantic

By J. G. Forrest

NEW YORK.—Fifty years to the day after the first patent was issued for the telephone—considered the most valuable patent ever issued by the United States patent office—two-way Radiotelephonic communication was established across the Atlantic ocean.

For four hours voices flew back and forth across the ocean, while newspaper men on both sides of the Atlantic marveled at the clearness with which they could hear each other. The speakers might have been a block away instead of 3,400 miles apart, for the audibility was better than that in an ordinary telephone communication.

The demonstration was the result of years of experimenting on the part of the American Telegraph and Telephone company, the Radio Corporation of America and the British General post office, to determine the feasibility of commercial service between this country and London. While experts have conversed before, this is the first time that a definite schedule of conversation between groups has been arranged.

Londoners Ask About Prohibition

The tests here took place in a large room on the second floor of the telephone company's building at 24 Walker street. The room was furnished with chairs; a pair of ear phones being placed at each chair. In one corner of the room a booth—similar to a telephone booth—was equipped with the apparatus used for ordinary telephonic communication. Here the visitors went when they spoke to the parties in London. While the person in the booth was talk-

ing, the others in the chairs could hear him carrying on the conversation. Several persons in London asked if it were possible to get liquor here. It was quite the popular joke. A young woman was in the booth when one such question was asked. She replied that it was impossible. Some of the men sitting in the chairs smiled in reply.

Route Conversation Took

In transmitting from America, the speech followed a different path from that coming from London. From this city, sound was sent over the telephone wires to the Radio transmitting station of the Radio Corporation at Rocky Point, L. I., a distance of seventy miles, and from there it was transmitted by Radio 3,300 miles to a receiving station of the British General post office at Wroughton, England. From this point it was carried over telephone circuits a distance of about seventy miles to London.

Coming from London to America, the speech was carried over telephone wires a distance of seventy miles to the Radio station at Rugby, England, and thence by Radio a distance of 2,900 miles to a receiving station at Houlton, Me. From Houlton the speech was carried over telephone circuits a distance of 600 miles to this city.

100,000 Watts Power Used

The transmission from Rocky Point was on a wave length of 5,260 meters and the transmission from Rugby, England, was on a wave length of 5,750 meters. The power used in transmitting from each end was about 100 kilowatts—100,000 watts!

In view of the many difficult problems

involved, it is not possible at the present time to make any statements regarding the date when transatlantic Radio telephone service can be made available regularly to the public. About all that can be said is that the tests thus far carried out are encouraging. Complete service may be had soon.

When that time arrives, a 'phone subscriber in San Francisco will be able to talk to anyone in Europe.

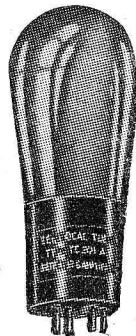
BILL MISTAKES KFI FOR TARGET RANGE

LOS ANGELES.—During the course of a thrilling description of an incident in the life of Wild Bill Hickock, at KFI here, Bill Hart, the screen's famous two-gun man, "fanned" twelve shots so fast it sounded like a tornado ripping a circus tent. To the best of its knowledge, KFI believes this to be the first time that an expert has made a shooting gallery out of a broadcasting studio.

For the benefit of bloopers a new terror has been introduced by the British post office. This is an automobile, fitted with a receiver and the latest type of direction finder, to be used for patrolling London areas and hunting down radiating sets.

Televocal QUALITY TUBES

Dependable and a Technical Triumph



A RADIO TUBE that is non-microphonic—won't short. Sold in matched units; tested, balanced and plainly marked detector, radio frequency or audio frequency.

Ask your dealer for this new and better radio tube that costs no more. If he can't supply you with Televocals, send us his name and address on attached coupon.

DEALERS AND JOBBERS—WRITE US

Televocal Corp'n.
67 A FIFTH AVE. — NEW YORK

Dealer's Name.....
City..... State.....
Your Name.....

The Reader's View

(Continued from page 15)

I do not know what I will do—unless it will be to thank you.”—CHIEF OF THE WDAF NIGHTHAWKS.

P. S. Anyway, Digest, the old Hired Hand is a blamed good announcer, and to prove I mean it, enclosed you will find my ballot for him. The Nighthawk Chief knows talent when he sees it, whether it be in the matter of singing, announcing, or polling votes, and assures the world that in another year he will know better how to conduct his campaign.

Call the old Hawk a jealous bird if you want to, but let me tell you what the Hired Hand did. The Kansas City Star, home of the Nighthawks, was recently advertised for sale, in compliance with the will of its founder, William Rockhill Nelson. This Texan wired in to the managing editor his bid, offering for the newspaper a green top, his two “snotty” agates and a ball Babe Ruth gave to him, and adding the line (this is what got me) “with or without the Nighthawks.” I haven't gotten over that last crack yet.—H. D. F., Kansas City, Mo.

B SUBSTITUTE IS GOOD

(Continued from page 11)

screw. This screw is cut with a minute micrometer thread which affords extremely fine resistance graduations. There is no reason for removing the plunger carrying this thread, but if you do, then be very certain in replacing it that you start absolutely true in its housing. If you do not do this, you will wreck a wonderful resistance and you alone are to blame.

As complete assembly and operating instructions are included in the cartons containing the parts used in this eliminator, exhaustive construction data appears as superfluous. It's a real eliminator—better build it.

WGHP IS “AD” STATION

(Continued from page 6)

Even the purposeful business of advertising, cleverly done, is an art requiring fitness and sympathetic treatment. No one understands this truth better than Mr. Phelps who skillfully balances the scales to a hair's breadth so that the message is accepted as wholesome and not rejected as unpalatable. Listeners who tune in the WGHP programs are invariably pleased because the artistic part comes clean and untainted. At the conclusion of the program the names of the advertising clientele are announced for the first time as the sponsors of the entertainment. It is a matter of reciprocity to the public. Buyers have been good to the firms; the firms respond with a serenade, as it were.

“We make no secret of the fact that we are advertising agents,” said a representative of the Phelps organization, “and, frankly, WGHP is an organ of our concern. But advertising by Radio requires an infinite appreciation of the listener's viewpoint. He must not be offended or more harm is done than good. To interlard the program numbers with bald advertising would be comparable to smearing a proud mountain peak with a glaring sign. The effect would be ruinous; for the scenic effect would be destroyed and the observer would bitterly resent the presumption of the owner of the sign. The beauty of an artistic rendition by Radio would be smudged and the listener would resent the cause of the smudging.”

That the WGHP policy is a success seems to be confirmed by the fact that after six months it has expanded into larger quarters. There is a new broadcasting station just outside the suburb of Mt. Clemens and an enlarged studio in the new building erected as the permanent home of the organization at Jefferson and Joseph Campau avenues.

This building stands apart unique as a business block. It is distinctly Italian in architectural design, an old Roman castle with courtyard, abounding shrubbery and a fountain. The whole effect is an appeal to the artistic and an inspiration to those who come there to broadcast.

William D. Lauries has been delegated as managing director and it was through his personal efforts that the station has been launched according to the ideas and ideals outlined by Mr. Phelps. Harry C. Browne, station director and announcer, comes from the theater where he established a name for himself over the footlights from one end of the country to the other. This talent and experience is being used to advantage in presenting programs according to the ethics and demands of good showmanship. He has devised a number of unique and noteworthy features which have established character and individuality with the WGHP station.

T. Stanley Perry, musical director, has also contributed largely to the distinction of this new station. His voice was a

favorite with Radio listeners throughout the Detroit area long before the establishment of WGHP. One of the rigid demands of this station has been that its music must be interpreted with authority and understanding so that the most fastidious listeners might consider the technique above reproach. The Little Symphony orchestra, under the leadership of Dirk Van Emmerik, represents a selection of artists from the Detroit Symphony orchestra. All are soloists on their respective instruments. Twice each week they present a two hour program of the favorite classics. Two dance bands provide the daily menu of modern music. One is the Gerald Marks Hotel Tuller orchestra and the other, the Skylark Dance band. Among the favorite feature numbers is the Motortown trio, Bert Hall, Frank Turner and Harry Reid. Sometimes they are joined by Miss Gladys Sanderson and her ukulele.

Madame Gizi Szanto, concert pianist, is one of the special soloists heard each week with the Little Symphony orchestra. Included in the operatic group are Miss Leona E. Mitchell, soprano; Albertine Schmittke, soprano; Mildred Carner Johnson, contralto; Mona Perkins, contralto; T. Stanley Perry and Richard Rolph, tenors; William A. Kerr and John L. Dickinson, baritones, and Tom Perry, juvenile. The WGHP Frolickers are Harry C. Browne, Mr. and Mrs. Eddie McGrath, “Heck” and “Mack”.

The dinner hour and evening program artists are: Marvella Payette, Winifred Huntoon, Ann Patterson, Vivian Downey, Fredericka Sims Hull, sopranos; Charles Hargreaves and C. Herbert Peterson, tenors; Hubert Haussler, Chas. Hutton, Chas. Coates, baritones; Wm. F. Bartels, basso. The studio accompanists and pianists are Wayne Frary, Loraine Lancey, Helen Fairchild and J. Franz Miller. The WGHP entertainers who enact the playlets are drawn from the light opera group. The WGHP male quartet is composed of T. Stanley Perry, John Koneczny, tenors; Archibald C. Jackson, baritone; O. Henry Albert, basso. On the occasion of the opening of the new studio, DeWolf Hopper, Charles Hart, Lieut. Gitz-Rice, Frank Moulan, Lilliebelle Barton, Adele Marcus and Mary C. Browne were brought from New York. They presented a program especially arranged in honor of the event.

Such is the standard set by this new broadcasting station in Detroit. Mail returns have indicated that there is a rapidly growing audience of listeners not only in the Detroit area but throughout the United States. Automobiles doubtless will continue to bear aloft Detroit's fame for many years to come but they will have to share part of the honors with Radio—the hum of the antenna a pleasing obbligato to the song of the motors.

To Show Historic Receivers

NEW YORK.—Radio equipment used in the Byrd and Wilkins airplane expeditions to the frozen North will be displayed at Grand Central Palace, New York city, on September 10, when the Radio show opens.

WJZ's massive structural steel antenna towers are insulated at the base to prevent them from absorbing even a small amount of the energy radiated by the antenna.



FREE!

12-Cell — 24-Volt Storage 'B' Battery

Positively given free with each purchase of a WORLD "A" Storage Battery. You must send this ad with your order. WORLD Batteries are famous for their guaranteed quality and service. Backed by years of successful manufacture and thousands of satisfied users. Equipped with Solid Rubber Cases, an insurance against acid and leakage. You save 50 per cent and get a

2-Year Guarantee

Bond in Writing. WORLD Batteries are the best proof "tell their friends." That's our best proof of performance. Send your order in today.

Solid Rubber Case Radio Batteries
 6-Volt, 100-Amperes \$11.25
 6-Volt, 120-Amperes \$12.50
 6-Volt, 140-Amperes \$14.00

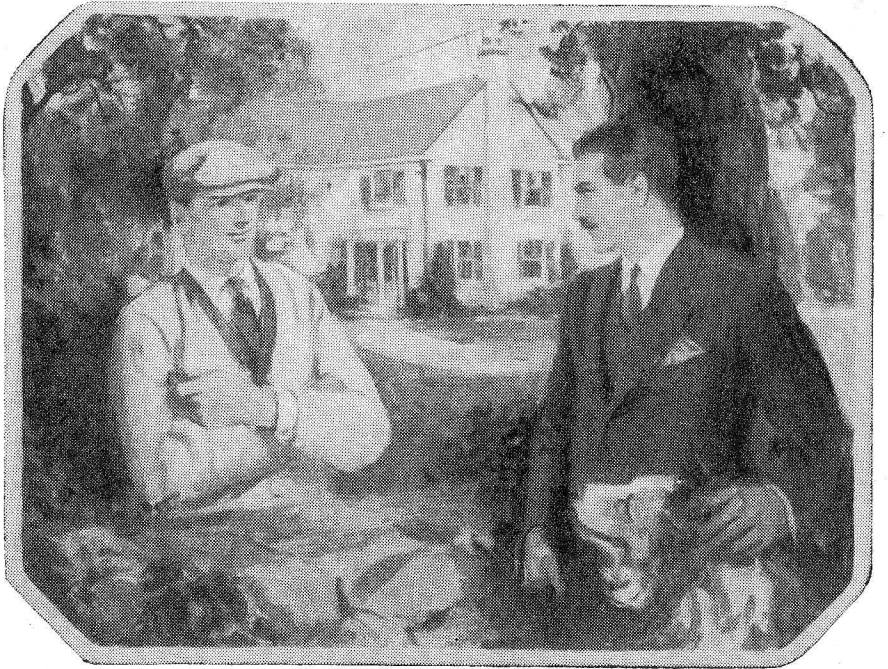
Solid Rubber Case Auto Batteries
 6-Volt, 11-Plate \$11.25
 6-Volt, 13-Plate \$12.50
 12-Volt, 7-Plate \$16.00

Send No Money. Just state battery wanted and we will ship day order is received, by Express C. O. D. subject to your examination on arrival. FREE "B" Battery included. Extra Offer: 5 per cent discount for cash in full with order. Buy now and get a guaranteed battery at 50 per cent saving to you.

WORLD BATTERY COMPANY
 1229 So. Wabash Ave., Dept. #8 CHICAGO, ILL.

World

Set your Radio Dials at 210 meters for the new 1000 watt World Storage Battery Station, WSEB, Chicago. Watch for announcements.



“We give our sets about the same amount of use, but your ‘B’ batteries always last longer than mine. What’s your secret?”

“WHY, there’s really no deep, dark secret about it. It’s simply knowing what are the right size batteries to buy for your set.”

“Yes, but what do you mean by right size?”

“The right size depends on the number of tubes in your set. The more tubes you have, the bigger the ‘B’ battery you need to give you long, economical service. Just follow the rules laid down by Eveready and you can’t make a mistake.” These are the rules and the results:

On all but single tube sets—Connect a “C” battery. The length of service given below is based on its use.*

On 1 to 3 tubes—Use Eveready No. 772. Listening in on the average of 2 hours daily, it will last a year or more.

On 4 or more tubes—Use the Heavy-Duty “B” Batteries, either No. 770 or the even longer-lived

Eveready Layerbilt No. 486. Used on the average of 2 hours daily, these will last 8 months or longer.

The above rules will give you the maximum “B” battery life and economy. Of course, if you listen in more than 2 hours a day, your “B” batteries will not last quite so long, and if you listen less they will last longer. Eveready “B” Batteries give the pure, steady, noiseless current that is absolutely essential if you prize pure tone.

Send for booklet, “Choosing and Using the Right Radio Batteries,” sent free on request. There is an Eveready dealer nearby.

Manufactured and guaranteed by
NATIONAL CARBON CO., Inc.
 New York San Francisco
 Canadian National Carbon Co., Limited
 Toronto, Ontario

Tuesday night means Eveready Hour—8 P.M., Eastern Standard Time, through the following stations:

- | | |
|------------------|------------------|
| WEAF—New York | WSAF—Cincinnati |
| WJAR—Providence | WTAM—Cleveland |
| WEEL—Boston | WWJ—Detroit |
| WTAG—Worcester | WGN—Chicago |
| WFI—Philadelphia | WOC—Davenport |
| WGR—Buffalo | WCCO—Minneapolis |
| WCAE—Pittsburgh | WCCO—St. Paul |
| | KSD—St. Louis |

*NOTE: A “C” battery greatly increases the life of your “B” batteries and gives a quality of reception unobtainable without it. Radio sets may easily be changed by any competent radio service man to permit the use of a “C” battery.



LEFT - No. 486, for 4, 5 or more tubes, \$5.50.

RIGHT - Eveready Dry Cell Radio “A” Battery, 1½ volts.

EVEREADY

Radio Batteries

—they last longer

NEW WEBH MUSIC IS PLEASANT SURPRISE

BEST MUSICIANS ENGAGED TO FILL VOID OF ORIOLE

Famous Russo-Fiorito Orchestra Leaves for Aragon Ballroom and WIBO—On Air August 1

CHICAGO.—The new Edgewater Beach hotel orchestra, every member of which is a master musician, is the pleasant surprise which greeted WEBH listeners recently in place of the famous Russo-Fiorito Oriole orchestra, whose strains have made the "Voice of the Great Lakes" one of the most popular stations on the air.

The Oriole left WEBH and the hotel to take a long time contract with the new Andrew Karzas "Aragon" ballroom, a gigantic dance palace which is to open here August 1. At that time the Oriole orchestra will again be on the air broadcasting through WIBO, the Russo-Fiorito Orchestras and Nelson Brothers station.

The void was expected and for months past the country has been scoured to find the best musicians in the world to replace the famous Oriole. No money was spared in the attempt, and it is now claimed that the new musical organization of the Edgewater Beach hotel is paid higher than any other orchestral body in the world.

"We are proud to introduce the new Edgewater Beach hotel orchestra to our listeners," announced Robert D. Boniel, WEBH director. "We will leave the audience to judge for itself."

Introducing Its Members

Members of the new orchestra are as follows:

Joseph Gallichio, director, for six years concertmaster for Balaban & Katz theaters, conceded to be one of the greatest violinists in the country. For five years he was with the Tip-Top Inn sextet, two years with the Minneapolis Symphony orchestra and two seasons with Chicago grand opera.

Roy Bargy, pianist, recently returned from an extended tour abroad with Isham Jones' orchestra; organized the famous Benson Victor Recording orchestra; a favorite of two continents when at the Kit Kat club in London and internationally known also as a Brunswick recording artist.

Frank Siegrist, trumpet, introduced the stage form of entertainment for a jazz band, hails from the Pacific coast, where, prior to the war, he was an orchestra leader. He is the only man in the world to successfully play above high "C," a range higher than any human voice.

Frank Quartell, trumpet, late of Isham Jones orchestra, conductor of own orchestra at Montmartre cafe, Okeh record artist, with Paul Biese six months and the Oriole orchestra one and one-half years.

Charles Wagner, drum and tympany, late star of Al Short's orchestra at the Capitol theater.

Ed Vito, harpist, will play first harp for the Cleveland Symphony orchestra next season, has been with the Chicago theater orchestra since the opening of that playhouse.

Al Armer, string bass, tuba and bass sax, former principal bass in Akron Symphony orchestra under Edouard Perrigo, and later with Victor Herbert's orchestra, member of Paul Whiteman's orchestra

AT-LAN-TAH GAWJUH LOOKS OVER RECORD



Here's "Colonel" Lambdin Kay, WSB's famous director and announcer, examining a phonograph record of his voice made in New York by Francis R. Hoyt, inventor. Mr. Hoyt just tuned in WSB one night, waited till Mr. Kay was announcing, and turned on his Radio-phonograph recorder. Result—"Colonel" Kay heard himself talking to himself when he visited New York.

during concerts in Aeolian and Carnegie halls, New York.

Louis Sarli, violinist, eleven seasons with Minneapolis Symphony orchestra, two with the St. Louis Symphony orchestra and once with Victor Herbert.

C. R. Heidke, saxophone, formerly with Isham Jones, Roy Bargy and Arnold Johnson orchestras; a favorite in New York.

Emerson J. Both, saxophone and clarinet, formerly of the Chicago and Tivoli theater orchestras and of the Arnold Johnson and Charley Straight orchestras.

David Bennett, sax, clarinet, flute and piano accordion, a recording artist with Fred Hamm and Art Kahn orchestras and former member of Gus Edwards' Terrace Garden orchestra.

L. D'Amico, accordion, vaudeville star, member of Rainbo Gardens orchestra up to joining Edgewater Beach hotel orchestra.

Bernard Sigert, cellist, first cello at Riviera, four seasons with Philadelphia Symphony orchestra and engaged for next season by the Chicago Symphony orchestra.

Orville Rennie, vocalist, lately in the "Student Prince" singing leading role.

Harry Perkins, viola, with Chicago Symphony orchestra for five years.

Charles Barbera, trombone, just closed season with famous Brown orchestra at Louisville, Ky.

E. Robertson, first trombone, late of the Gus Edwards orchestra, and of Olson's orchestra, recording artists with great New York reputation.

WGBF Erects New Antenna

EVANSVILLE, Ind.—The Finke Furniture company station here, WGBF, has recently completed the erection of a new 85-foot steel tower and vertical cage antenna system. A greater range is expected. The wave length is 236.1 meters.

SHORT WAVES

By Marcella

(Continued from page 14)

"O'Flannigan and O'Hara," otherwise Jerry Sullivan, WQJ's director, and Harry Geise, his assistant, are doing their turn again since Harry is back at the Calumet-Rainbo Gardens station. Listen in for their new "Howdy, Hello" song. Same old Jerry and Harry.

"Is Ruth Etting of WLS single, and if not why?" asks Eugene. No, because she was too pretty and nice to stay single. I'll ask Ruth (if she ever gets single soon again) how she would like to gamble her blue-eyed, blonde little 112-pound self on a "fat and bald-headed man."

Low Farris, "The Eiffel Tower of Radio," is a roaming balladist traveling for the Ted Brown Music company of Chicago. He is liable to turn up most anywhere, a facility permitted by the long strides of his nearly 7 feet of anatomy. Will give a more intimate sketch of this young giant later, "Louella," just as soon as I can put my finger on him.

No, "A. F. C.," Travis Hale and Juanita Collins are not WDAF announcers. Travis Hale is heard frequently with his banjo on the Nighthawks program. He is a popular WDAF entertainer and is noted particularly for his rendition of "A Cowboy's Lament." Juanita Collins is really Mrs. H. Dean Fitzer, wife of the announcer, who sings and plays with him in popular jingles from WDAF. The announcement always is, "Juanita Collins and the Announcer." And next issue, my friends, I shall tell you all about H. Dean Fitzer himself.

Another dandy collection of "inside stuff" to appear next issue is that regarding the entertaining Ernest Rogers of WSB, alias "Willie the Weeper," alias "Old King Tut, the Radio Nut." You see I have covered so much space this time that I am afraid I will wear out my welcome. I said recently that Ernest was single and "looking around." His six-months bride almost took a train from Atlanta to make me retract this error. Ernie, Willie or King Tut—take your choice—tells me that Warner's Seven Aces are now trumping, I mean trumpeting.

ARNOUX TOPS CUP RACE

(Continued from page 2)

order since last publication, and but few votes have been added. Miss Lillian Shaw, of CKY, who has maintained the lead since the start, is now convalescing from an operation for appendicitis, a note from Winnipeg informs. The standing is:

1. Lillian Shaw, CKY (1).....1,676
2. Bert Hooper, CKCK (2)..... 682
3. H. C. Fricker, CKCL (3)..... 653
4. Geo. A. Wright, CNRV (4)..... 396
5. C. W. Darling, CFCF (5)..... 104

Importance of Saving Ballots

As a reward for saving consecutively numbered ballots and casting them at one time for the same candidate, a bonus vote, with size depending on the number in consecutive order, is credited to that candidate.

Each of these ballots will count for one vote when sent in separately. You can hold these ballots until you have four that are consecutively numbered and when they are sent in, a bonus of eight votes or total of twelve will be granted.

The larger number of consecutive ballots submitted, the greater is the bonus allowed. Eight consecutive ballots receive a bonus of twenty votes. Twelve consecutive ballots receive a bonus of thirty votes, or a total of forty-two votes. For a complete series of ballots, including one from each issue from March 27 to September 1, a bonus of fifty votes will be allowed.

Pikes Peak to Denver Link First in Rocky Radio Chain

DENVER.—The first link in a Rocky Mountain broadcasting chain was recently formed by the hooking up by land wire of stations KLZ, (500 watts, 266 meters) Reynolds Radio Co., Inc., at the Shirley-Savoy hotel, Denver, and KFXF, (500 watts, 250 meters) the Pikes Peak station at Colorado Springs.

While only seventy-five miles apart, neither station has been heard consistently in the other city due to some peculiar geographic condition.

ing regularly at the Peabody hotel of Memphis, Tenn.

What deep secret would you like to know about your favorite broadcast star? Drop me a note, girls and boys, and I'll do my best to answer here. MARCELLA.



(7) HARMONY GIRLS These Pictures Are 11 x 14

Photogravures of Your Favorite Artists GALLERY OF RADIO STARS

By special arrangement, Radio Digest is able to offer its readers a great opportunity to secure fine photogravures of their favorite Radio stars at practically no cost. Radio Fans will be able now, by this very special offer, to have pictures of their favorite artists and announcers before them when they listen in.

Select Your Favorites from the Gallery of Radio Stars

- | | |
|--|--|
| 1 Wendell Hall, king of ukulele ditties | 20 Vincent Lopez, No. 1 Pennsylvania orchestra |
| 2 Graham McNamee, 1925 Gold Cup announcer | 21 E. L. Tyson, pleasing voice at WWJ |
| 3 Jack Little, popular wandering balladist | 23 Art Gillham, "The Whispering Pianist" |
| 4 Billy B. Van, the Sunshine Man | 25 Harry Ehrhart, "Dream Daddy" of WLIT |
| 5 Coon-Sanders' Original "Nighthawks" | 26 Correll and Gosden of "Kinky Kids Parade" fame, at WEBH and other stations. |
| 6 George Hay, 1924 Gold Cup announcer | 27 Norman Brokenshire, popular at WRC, WJZ |
| 8 Ford and Glenn, Lullaby Boys of WLS | 29 Jane Novak, Blues Singer of Twin Cities, WCCO |
| 9 "Roxy" Rothafel of WEAF chain fame | 30 Jean Sargent, the original, now at WHT |
| 10 The Hired Hand, famous "Substitute Announcer" of WBAP | 31 Ralph Emerson, popular organist at WLS |
| 12 Bob Emery, Big Brother of WEEL | 32 Edna Adams, of KPRC |
| 13 "Bibi" W. G. Hay, ex-KFKX, now of WLII | 33 Pat Barnes, vaudeville announcer at WHT |
| 14 Happiness Boys, jovial singers of WEAF | 38 Walter Wilson, "Uncle Bob" of KYW |
| 15 Lambdin Kay, "Little Colonel" of WSB | 40 Ray-O-Vac Twins, known country-wide |
| 16 Leo Fitzpatrick, "Merry Old Chief," WJR | 41 Art Linick, KYW's Mrs. Schlagenhauser |
| 17 Henry Field, 1925 Gold Cup runner-up | 42 Fred Hamm of WTAS, now WLII, fame |
| 18 Al Carney, organ favorite at WHT | |

Suitable for Framing or Placing in Your Album

Send Coupon Now

Your Radio set gives you these voices.

These pictures add very much to your complete entertainment.

ACT TODAY

RADIO DIGEST PUBLISHING CO. 510 N. Dearborn St., Chicago, Ill.

COUPON NO. 23

This coupon entitles the holder to one photogravure selected from the Radio Digest Gallery of Radio Stars when accompanied by ten cents to pay the cost of mailing and postage. Three consecutively numbered coupons entitle the holder to three photogravures when accompanied by 25 cents. Remittance must accompany the coupon. Cash at your risk. Add 5 cents to personal checks for exchange.

Order by Number.....

For Your Garden

Some Bargains Ready Now

- 1—BIG PLANTS—CHRYSANTHEMUMS, CARNATIONS, SALVIAS, SNAP-DRAGONS, PETUNIAS, VERBENAS, PARLOR IVY, LOBELIAS, DOUBLE STOCKS, ICE PINKS, HELIOTROPES, etc., regularly any 12 for \$1.00; Special, any 15 for \$1.00 or any 100 assorted for \$5.00. Safe arrival warranted.
- 2—OLD FASHIONED FAVORITES—DELPHINIUMS, FOX GLOVES, C. BELLS, LILY OF VALLEY, DOUBLE HOLLYHOCKS, HEPATICAS, and all the old-time garden BORDER FAVORITES, were any 12, Now Special, any 15 for \$1.00 or 100 for \$5.00. Order any you want—we have them.
- 3—BIG GERANIUMS, all colors, 12 for \$1.50; BIG CANNAS, all colors, 12 for \$1.50.
- 4—FANCY DAHLIAS—12 for \$1.50; GOLD MEDAL GLADIOLI, 100 for \$4.00.
- 5—SPLENDID 3 year old H. T. ROSES such as COLUMBIA, OPHELIA and 40 others—12 for \$6.00; 100 for \$45.00.
- 6—L. I. VEGETABLE PLANTS—100 for \$1.50; 1,000 for \$10, assorted. Cabbage, Lettuce, Egg, Tomato, Celery, etc.

Above a few Bargains. Order them now and also send for our full list. 10% extra free plants for mention of this paper with your order and check.

PROMPT SHIPMENT—MOSTLY SAME DAY ORDER RECEIVED.

Harlowarden Gardens and Greenhouses

329 Front St., Greenport, N. Y.

"BIG RABBIT"

(Continued from page 9)

nosis; he had played a part until he came to think it real. I feared his vengeance. Keenly sensitive, like most half-breeds, he hated those who were his superiors.

MAJOR Gaskill made arrangements for the special car when Trimble told him they were suspected, and was in it. Trimble dared not act until he was beyond the reach of help. When the trail led to Florida I suspected the source of his wealth was stolen timber. A thousand negroes, scattered over miles of timber land, each stealing a few logs, could escape detection. It was no wonder Danforth could not find the thief.

Borton stopped to light the cigar and grinned.

"I stumbled upon the trail by overhearing two negroes talking on the boat of a big meeting. There was no use to try to employ force. A regiment could not have captured them in the swamps. Trimble, I learned was playing the part of Big Rabbit, cunningly combining superstition and business. The rabbit was the figure of power. But Trimble overlooked a bet. There is a zootheistic being higher than the rabbit—the terrapin. Among many of the African tribes, especially among the Congo tribes and the Guinea coast tribes, the turtle is the judge, the law giver, and is set above the other zootheistic gods. I determined to play terrapin and checkmate Trimble's rabbit, relying upon surprising him and then placing him in a position where he dared not defy me openly. I went to Jacksonville, had a big turtle shell built of canvas and wires—The rest you know."

"I apologize, Dick," I said. "But don't blame me for doubting. No one would have believed unless he knew negroes."

"There is one thing I'd like to know," said Danforth, "how did you ever manage to escape from the stage?"

Borton grinned happily. "Easy, he said. "I made a lot of signs, told them I would have to think for a moment, pulled my head into the shell, then crawled out of the shell, crept to the door and dropped down to the ground. They waited five minutes for me to start again—by that time I was in the woods. You should have heard them yell when they learned the turtle was empty."

THERE were legal formalities to be complied with, arrangements to be made for the inquest. The sheriff and coroner dispensed with many formalities—and permitted us to go. I did not see Miss Tonneson until the following morning.

Borton and Danforth had engaged a yacht to convey our party to Jacksonville, and we left Palatka early.

The little white yacht with her varnished cabin, her shining brass work, her pennant and flags flying in the soft breeze curved away from the dock, and sailed down the lotus hemmed channel of the wide river. The sun was shining from a cloudless sky. Orange blossoms, jasmine and magnolia scented the sweet, soft air. The river rippled and danced to the music of the breeze.

I huddled myself in the cabin, taking refuge behind a Jacksonville paper.

The sunshine offended my eyes. The scent of orange blossoms was an insult to my sense of smell. The soft lapping of little waves against the vessel wearied my ears. I was enjoying a man sized grouch against fate and the world in general. The murmur of conversation from the forward deck where Miss Tonneson, Borton and Danforth were seated did not help dispel my gloom.

Presently the door opened and Borton, grinning as usual, stuck his head in.

"Miss Tonneson ordered all hands forward; you're not an exception," he said. "Sunlight makes my head ache," I growled.

"Balky as a mule, he confessed he was," Borton called back to those on deck. "Bray a couple of times for us," he taunted grinning at me.

I swore under my breath and tried to continue reading.

"Not loud enough," he said. "Folks outside couldn't hear you. Bray again."

I swore some more, but arose and went to join them. Borton would have kept it up all the way to Jacksonville if I had not. It always is easier to do what he wants done.

WE FOUR sat on the little forward deck, Miss Tonneson in a steamer chair wrapped in a rug. Borton did most of the talking. Finally as the yacht was passing Doctors Inlet he stood up and stretched his big frame.

"Come on Dan," he said, "let's tramp a bit. I'm getting stiff. Need exercise. An hour in that turtle shell cramped my muscles."

I tried to signal him, but we were left alone. Roberta looked at me seriously but her eyes were smiling and a little mysty. I shifted uneasily.

"I'm afraid Mr Borton is right—about—about your mulishness," she said.

"I beg your pardon," I said stiffly. "I do not quite understand."

She made a little gurgling sound, her eyes danced and she broke into a nervous light laugh.

"Excuse me," she said, still laughing, "but you are SO funny when you try to be dignified. I'm going to have a fine time teasing you."

"I'm afraid there will not be much opportunity for indulging in that amusement," I replied, trying to smile. "I shall go through to New York—and I fear we will not meet often."

"Oh!" she exclaimed, her eyes widening as if in consternation "I—we—Aren't—?"

She hesitated, and flushed as if confused. For an instant she said nothing, then she spoke naturally; or unnaturally naturally as only she can do.

"What was it you were saying about 'now that you are poor' yesterday when the telegram came?" she asked.

She dropped her eyes demurely and looked innocent. I stared at her.

Her eyes refused to meet mine and she seemed to be gazing guilelessly at the river.

"Roberta Lee Tonneson," I demanded sternly, "are you deliberately trying to goad me into proposing to you—when you know you are rich—and that I'm a poor dub of a reporter—"

"Well," she said, her voice shaking, "if a man is such a big goose, he will not tell a girl he—he—he loves her just because of some hateful money—"

"Oh Wen, don't! Not now. The man at the wheel may see—"

But I did. Just then Borton came around the corner of the wheel house talking to Danforth.

"Yet his ears do not show any signs of getting longer," he said as if to his companion. "In fact he sometimes shows signs of intelligence."

He grinned his most maddening grin as he swung the little detective about face and marched him back along the deck.

Just for that I had a notion not to ask him to be our best man this fall were it not for the fact Bob (that is Miss Tonneson) insists upon it, and her word is law. He'll be grinning when we are at the altar.

THE END

NEW FLOATING WRMU

(Continued from page 4)

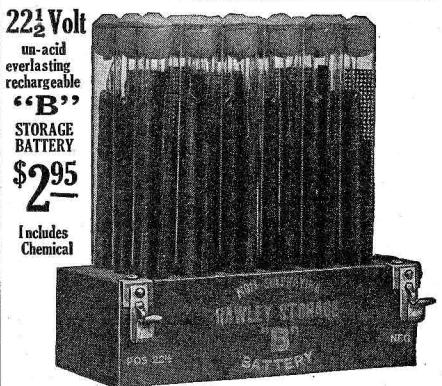
chester, Massachusetts; the triangular event from Sheepshead Bay Yacht club-Jones Inlet-Scotland Light Ship, and various events near Philadelphia in conjunction with the Sesquicentennial celebration.

"To cover these feature events, the new MU-1, with Station WRMU built for greater efficiency and range, will be ready to serve the aquatic sport loving broadcast listeners.

"The marine broadcasting station WRMU was the first and is the only broadcast transmitter of this type in the country at the present time. It has done much to delight the sport world by covering events which heretofore it has been impossible to broadcast.

"The broadcasting apparatus for this work has been carefully designed incorporating features not found in the equipment on last year's yacht and from the experience obtained it has made possible the construction of equipment many times more efficient and powerful. Rugged features so necessary for marine installation, plus refinements for high quality broadcast transmission, have been incorporated. The transmitter has been designed with greater power output than that which ordinarily will be used to insure reliable transmission over good distances under extremely adverse conditions."

Thus the MU-1 takes its place in the



45 volts, \$5.25; 90 volts, \$10.00; 112 1/2 volts, \$12.50; 135 volts, \$14.75; 157 1/2 volts, \$16.80. Truly the biggest buy today. Easily charged on any current including 32-volt systems. Any special detector plate voltage had. Tested and approved by leading authorities such as Popular Radio Laboratories. Over 3 years sold on a non-red tape 30-day trial offer with complete refund if not thoroughly satisfied. Further guaranteed 2 years. Knockdown kits at great savings. Complete "Hawley" "B" battery charger, \$2.75. Sample cell, 35c. Order direct—send no money—simply pay the expressman cost on delivery. Or write for my free literature, testimonials and guarantee. Same Day shipments. B. Hawley Smith, 817 Washington Ave., Danbury, Conn.

magic procession, one more phase in the attainment of speed in gathering and conveying news to a waiting world. The pageant moves on. What will the next step show? Out of the limbo of mystic future it is being moulded. Fame and Fortune hold a crown.

OLD JUDGE LIKES WSM

(Continued from page 5)

sleep and drinking black coffee to keep him awake. His voice range with pathos as he told of the afflictions the tornado had wrought in the homes of hundreds of families and at the close of the Radio relief drive, WLS had raised more than a quarter of a million dollars.

But a few months ago, Hay's longing for the Southland caused him to return to Tennessee and he accepted the position of director and chief announcer of WSM. Although Hay is known everywhere as "The Solemn Old Judge," because of the quaint dialect stories he wrote for the Commercial Appeal under that name, he is really a most personable young man, with clear-cut features and eyes that show he is thinking about people, as well as Radio and that he never fails to find a lot of fun in everything that anyone else does.

Hay's popularity is not due alone to his originality and human appeal. His favorite slogan, "Broadcast personality plus a smile, if you would win your way into the hearts of a Radio audience," tells the rest of the story. It helped him win the first annual Radio Digest cup award as the most popular announcer in 1924, presented to him at the first Radio World's Fair in Madison Square Garden, New York city, and it is what makes him popular with the Radio fans now who listen in on WSM. Hay has his third whistle—a steamboat "tooter" which he calls "Old Hickory" for Andrew Jackson and Nashville.

Our next WSM contribution is by Mr. Hay, himself. You can fairly hear his voice passing on these observations about his associate director, Mr. Jack Keefe, especially famed as a sports announcer but no relation to the big leaguer by the same name made famous by Ring Lardner.

Judge Hay Introducing Jack Keefe

Jack Keefe, one of Nashville's most popular young men, combines with his daily practice of the ancient profession of law the gentle art of the newest profession, that of Radio announcing and entertaining.

Mr. Keefe has made thousands of friends since he began his career at WSM, the station owned and operated by the National Life and Accident Insurance company of Nashville, Tennessee. He is one of the most versatile men in the Radio game today. Here is a little background of his career:

After graduating from Harvard university, he held a chamber of commerce position in the West. His ability to make friends proved a great asset to him. Even in the early days of his career, the call of the stage soon caused him to enter that profession, in which he was engaged for many years. Mr. Keefe also served as a chemist before taking up the study of law.

His handling of the microphone during the football season was very unusual. His running fire descriptions of the Vanderbilt games brought much favorable mention from the Radio fans of the South.

Very often when he is not announcing, he steps up to the piano and sings a group

(Continued on page 29)

Improve Your Audio Amplifier

and Get Astonishing Results!

The main point of difference between new sets to be marketed this Fall and sets in use is in greatly improved and refined audio frequency amplifiers.

You can easily improve the audio systems of present sets and bring them up to date. Our book will teach you how.

Four years research are embodied in our new 40 page book covering all systems of audio frequency amplification. The good and bad points of each system are clearly described and everything is illustrated to help readers bring their sets up to date.

Send 25 cts. for new book on Audio Frequency Amplification and bring your set up to date for new tubes.

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Bradleyunit PERFECT FIXED RESISTOR

RADIO circuits frequently call for a fixed resistance unit. This is particularly true for B-battery eliminators which provide several B-battery voltage taps for the radio set.

Be sure to use Bradleyunits for this service, because Bradleyunits are solid molded fixed resistors calibrated with great accuracy and fitted with silver-plated terminal caps which can be soldered without damage to units. These units are made in more than 20 different ratings, and will not deteriorate with age.



For experimenters who prefer to build their own resistance-coupled amplifiers, a special set of Bradleyunits has been prepared and sold in a convenient carton ready for use in a resistance-coupled amplifier.

Be sure to order Bradleyunit Amplifier Resistors from your dealer, today.



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290 Greenfield Ave., Milwaukee, Wis.

Please send me your latest literature on Bradleyunits and Bradleyunit Amplifier Resistors.

Name

Address

OLD JUDGE LIKES WSM

(Continued from page 28)

of character songs which prove to be one of the big drawing cards of the WSM programs.

Judge Hay Presenting Uncle Dave

"Whoop 'em up Cindy, and cook that possum brown, 'cause Old Dan Tucker is comin' to the log cabin in the lane, and we'll bile the cabbage down."

Uncle Dave Macon has been pickin' the banjo for nearly a half-century. His programs in the studio of WSM, the National Life and Accident Insurance company's station, Nashville, Tennessee, include the old-time songs of the South, still very much beloved by the older generation, and interesting to the younger people who listen to the barn dance programs on Saturday night. Uncle Dave is one of the many picturesque characters of the Tennessee hills.

From his farm every fall after the harvest, goes Uncle Dave with three banjos tucked under his arm, his wide-brimmed, soft, felt hat, chin whiskers and side burns, the veritable wandering minstrel. He sings and plays at the cross-roads and in the theaters. If he has an enemy in the world he doesn't know it. At any rate, he radiates sunshine and good will. Uncle Dave has been a big feature of the programs broadcast by WSM during the past winter.

Born on a farm in Warren County, Tennessee, in 1870, he learned the tunes of the darkies. When he was thirteen his parents moved to Nashville where his father bought the old Broadway hotel, famous during the Civil war, which catered to troupers and theatrical folk. Added to his native ability to sing and plunk the banjo, came training from wandering minstrels.

In 1884, Sam Jones held a tent meeting at Eighth and Broadway; then came Sam McFlynn with a ten-cent circus. There were twenty-eight men and four women in the company and they all put up at the Broadway hotel. In the company was one Joel Davidson. Uncle Dave, who was then referred to as Davie, was immediately struck with the idea of the minstrelsy. His mother bought him a banjo and he started out. While his avocation has been entertainment, he has made good as a farmer and operates a model place in Rutherford County, Tennessee. Being a born minstrel, he cannot refrain from singing and playing

whenever the spirit moves him. He has appeared in some of the large theaters of the South and lately has been doing a great deal of broadcasting.

"Mr. Tom Parkes—"

"Let's put the old pile of iron on the air and let her ride," says Tom Parkes as he refills his pipe at 7 o'clock every evening in the station of WSM, the National Life and Accident Insurance company's station, Nashville, Tennessee.

Tom has had wide experience in Radio and has brought that training to WSM where he serves as chief engineer. He has been around the world many times as a Radio operator on merchant ships. He is thoroughly familiar with Radio as it has developed today. Through his efforts and constant care WSM has remained on the air without a single break for the first seven months in its history.

"SURE FIRE STUFF"

(Continued from page 8)

FOR such an expert dancer, Sheila Shambaugh seemed in many ways quite foreign to the stage. Few words from the vaudeville dictionary came readily to her tongue, and there was an innate refinement about her that spoke subtly of other things.

Johnny Clavering was in no sense a woman's man. He had followed a set policy to "let 'em alone." Matrimonial entanglements had wrecked too many professional careers, he knew, and long since he had made up his mind to steer clear of the shoals. A good pal—yes, he'd be that to any nice girl; but when cupid began to hover around Johnny sought the first opportunity to make his get-away.

But in all his career he had never met a girl just like Sheila Shambaugh. A desultory conversation finally resolved itself into but an occasional remark, and before the end of the meal silence reigned supreme.

Johnny paid the check and helped Sheila on with her wrap. "Now I'll call a taxi and take you to your hotel."

"No—please!" she protested.

"No trouble; plenty of time; the night is young."

"It's impossible—that is—I—I am staying but a short distance away—and I'll enjoy the walk."

"Then I'll walk with you," he persisted as they went outside.

"Mr. Clavering, please do not force me

to be rude. I've enjoyed the lunch immensely. It was nice of you to bring me out." She extended her hand. "Good night."

Johnny watched her trim figure until it turned the corner a half-block down the street. Then he snorted:

"They're all alike. Peeved at you if you please 'em; peeved at you if you don't. That's the so-called gentler sex in a nutshell. Well, give me peace—peace at any price!"

After that Sheila avoided Johnny except when they chanced to meet backstage. Once or twice he noticed little things about her act that could be improved, and stopped long enough to offer suggestions. She yielded to these overtures, was apparently agreeable and thankful—but the note of frigidity always intruded itself, if ever so slightly.

ONE evening Johnny left the theater at the same time as the Great Ganton, magician, whose act followed Johnny's and closed the bill. "I notice you've taken quite an interest in the Shambaugh kid," he said as they walked up the street.

"Oh, I've made a suggestion or two," Johnny returned, not anxious to pursue the subject.

"I'm glad of that. I guess she needs all the help she can get."

"What do you mean, Ganton?" The magician raised his eyebrows in mild surprise. "Oh, I thought you knew. She's supporting an invalid husband—at least, so I've been told."

"Is that right? No; I hadn't heard."

"The story is that they were doing a double on the small time. Called themselves the Dancing Shambaughs. He was an acrobatic stepper and a clever one; lots of new stuff. They were grooming the act for the big time, when Bobby came out of an automobile crash with a broken hip. Been laid up ever since, and doubtful if he'll ever walk again, much less dance. It's a tough game sometimes, Johnny."

"Yes; it is."

The end of the week drew near. Johnny was descending to his dressing room after the Saturday matinee. It had been an unusually cold audience. He had worked hard and was perspiring freely when he came off.

The passage between the dressing rooms downstairs was deserted. Ganton was

upstairs doing his act. As Johnny was passing No. 5 he heard voices. The door was closed, but the transom was open. Blended with Sheila's shrill notes was a man's bass tones. Johnny stopped and listened. Yes, there was no mistaking that voice; it could belong but to one individual—Barnes Jadwyn.

"YOU'RE a sensible girl and you're not going to pass up a chance like this," he heard the agent say.

"I'd like to head your act, Mr. Jadwyn—but I can't—I just can't do what you ask of me," came Sheila's voice in protest.

Once Johnny's hand was almost on the knob. Then he shook his head and started on. None of his affair. He couldn't afford to play knight errant to every girl who crossed his path. Too many of them; and, anyway, the girl must sooner or later learn that vaudeville was a rough road for those not "in the know."

"I'll leave you to think it over; but I must have a positive answer by Tuesday night," he heard Jadwyn say.

A sudden ruse occurred to Johnny. He hurried back to the end of the passage, waited until the door of No. 5 went shut, then turned the corner in time to meet Jadwyn in the passage.

"Hello, Johnny Clavering!" was the agent's effusive greeting.

"Howdy, Jadwyn!" "Understand you're the usual riot here this week." Soft soap. Jadwyn's stock in trade.

The agent was a man of forty-five or more, but looked younger, his careful grooming giving him the appearance associated with youth. His face was smooth shaven, and on close inspection lines of dissipation showed under the eyes and chin.

Johnny's eyes narrowed slightly. "What brings you here? Some of your artists on this bill?"

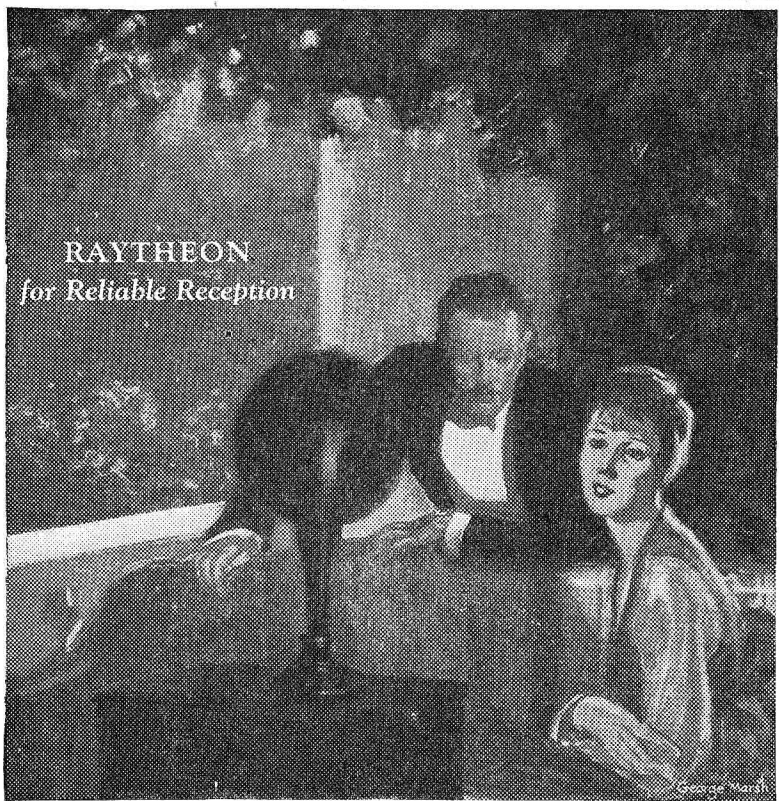
"Oh, yes—Sheila Shambaugh." Jadwyn winked. "Clever girl, eh, boy, what?" He gave Johnny a playful dig in the ribs.

Johnny's first impulse was to hand the agent a clip behind the ear. But that would only defeat his purpose. So he hid his resentment under his usual smile as he replied:

"Clever is right. If she keeps on at this gait, some production manager will be snapping her up."

"They may try, Johnny, but they'll not

(Continued on page 30)



RAYTHEON for Reliable Reception

YOUR receiver, whether it is an old model or the very latest type, can be improved by the installation of a high quality B-Power unit. Everyone realizes the advantage of reliable B-Power, but few have the facilities or the time to select the right B-Power unit from the scores that are now offered.

The Raytheon Laboratories have simplified the choice. By selecting and approving only those that pass certain minimum requirements, we have made it possible for the radio owner to select his unit from a few good ones, rather than from a hundred of doubtful value.

Raytheon B-Power units are now made in a variety of styles that satisfy the needs of every receiver, and meet the approval of every pocketbook. Your dealer will recommend a Raytheon B-Power unit best suited to your needs. Raytheon spells reliable reception.

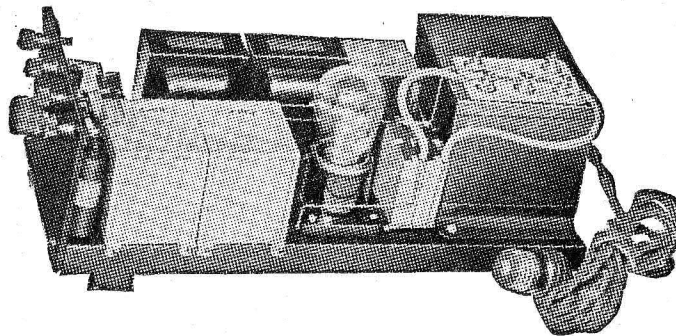
RAYTHEON MANUFACTURING COMPANY, Cambridge, Mass.

RAYTHEON, TYPE B, is a non-filament rectifier of ample capacity to eliminate B-Batteries on even the largest ten-tube set.

RAYTHEON B-POWER units are manufactured by Companies selected for their excellent engineering and production facilities.

RAYTHEON

Reserve Power!



THORDARSON B-ELIMINATOR PARTS

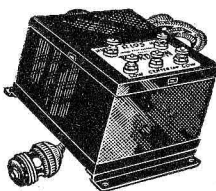
The singer who exerts every last ounce of energy invariably makes his effort manifest in thin, strained tones.

The tubes are the larynx of your radio set. Unless they receive a sufficient and constant supply of energy the set will be faulty in its reproduction.

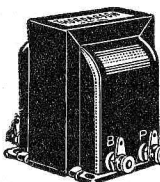
A B-supply built with Thordarson transformers and chokes will give you that reserve power so essential to good reproduction. Supplies a constant voltage to the plate regardless of the current drain. Sufficient voltage to operate power tubes UX 112 and 171. Actually eliminates the noises and distortion resulting from faulty B batteries.

Complete assembly instructions furnished with every transformer.

For sale at all good dealers or by mail.



TRANSFORMER R-195 Price \$7.00



30 HENRY CHOKES R-196 Price \$5.00

THORDARSON ELECTRIC MANUFACTURING CO. *Transformer specialists since 1895*
WORLD'S OLDEST AND LARGEST EXCLUSIVE TRANSFORMER MAKERS
Chicago, U.S.A.

CLASSIFIED ADVERTISEMENTS

HOW about that new set you want to buy? What are you going to do with the old one? A Radio Digest classified advertisement will sell it for you.

Rates are twenty cents a word for each insertion. Five per cent discount for four insertions, 10 per cent discount for six insertions, 15 per cent discount for twelve insertions, 20 per cent discount for twenty-four insertions (each issue for 1 year). Name and address are counted. Two initials count one word. Cash must accompany order. Minimum of ten words. Objectionable and misleading advertisements not accepted.

Copy reaching us not later than July 12 will be in time for our August 1 issue.

BLUE PRINTS

NO MORE BATTERIES—Build "A" and "B" eliminator—operates any set on AC or DC, no hum, satisfaction guaranteed. Complete plans, \$2. Engineers' Service Company, 25 Church St., New York.

Portable Super-Het Actual Size Template for 8-tube Super using 199 type tubes. Complete building instructions appearing in First and Second June issues of Radio Digest. 25 cents for template—30 cents for copies containing instructions. Book Dept., Radio Digest, 510 North Dearborn Street, Chicago.

Complete instructions for building the Simplest Possible Super-Het. 16-page booklet containing instructions for building and an exact size template for drilling panel and base. How to build a loop. 35 cents. Book Dept., Radio Digest, 510 N. Dearborn St., Chicago.

We still have a limited number of the actual size templates and blue prints for the following sets which have been described in Radio Digest: Super-Torodyne, 8-tube super-het; Fireside, 6-tube radio frequency; Grand Prix, 8-tube super-het; Counterphase, 6-tube radio frequency; DX Seven, 7-tube super; 4 Filter Super and the Straight-8, an eight tube super-het. Each set, 25 cents. Book Department, Radio Digest, 510 N. Dearborn St., Chicago.

DOGS

Beautiful registered bull pups, \$15. Bull-dogs, 501 Rockwood, Dallas, Texas.

FOR SALE OR EXCHANGE

Have about \$100 of radio apparatus. Will exchange or sell. What have you? E. H. Ives, 2625 Hollywood Ave., Chicago.

FOR SALE

Here is your opportunity to obtain a real good buy on 1/4-HP, 110-volt, 60-cycle, single phase, AC, enclosed dust proof new electric grinders and buffers, 6-inch emery wheel on one side and 6-inch buffer on the other, with cord and plug, at a low price of \$15.75 each. Special price on brand new 1-KW or 1000-Watt, 32-volt, 1150 speed, late design, Westinghouse light and power generators with pulley, ready to run at \$48.00 each. Largest dealers in new and used motors and generators in the Northwest. Send us your inquiries. General Distributing Co., Security Storage Bldg., Duluth, Minn.

MISCELLANEOUS

Photos of Your Favorite Radio Stars. Ten cents and coupon appearing on another page of this issue will entitle you to one of the photos from Radio Digest gallery of stars. Radio Digest, 510 North Dearborn Street, Chicago.

PATENT ATTORNEYS

PATENT ATTORNEYS
PATENTS. Booklet free. Highest references. Best results. WATSON E. COLEMAN, Patent Lawyer, 644 G Street, Washington, D. C.

RADIO

600 Mile Radio \$2.95. 200,000 satisfied customers already. Don't require any batteries nor tubes. Write today. Picture and particulars free. Crystal Radio Company, Wichita, Kansas.

All makes radios bought and sold. Gilbert Terrell, Hapersfield, N. Y.

Closing out all of my Radio stock. 200-ohm potentiometer with silver knob and dial, 10 cents; Howard rheostats 6 1/2, 6 3/4 or 25-ohm, 75 cents; Filkostat, 50 cents; set eight lettered binding posts, 25 cents; variable condensers with dial and vernier, 13-plate, \$1; 23-plate, \$1.50; 4-inch black dials, 3-50 cents; 3-inch, 3-35 cents. Bronsteins Pharmacy, 4600 Lincoln Ave., Chicago.

"SURE-FIRE STUFF"

(Continued from page 29)

succeed. Got her sewed up tight. Contract! For two years. I know talent when I see it."

"You must be getting something besides the usual percentage?"

Proud little Sheila, too independent to let her friend know the heavy financial strain that kept her spirits down, began to feel the web of Spider Jadin winding about her. Her unapproachable manner made it impossible for Johnny to understand the situation. The story ends next week and Bobby will give you a surprise.

OLD STATIC'S FUNERAL

(Continued from page 10)

aerial which we are about to construct, comprises approximately a sheet of No. 10 gauge copper 3 by 2 feet planted 3 to 4 feet underground and as close to the building housing the receiver as possible. In digging the hole leave ample room in its dimensions so that a good job of tamping the earth may be done when the hole is filled again. Prepare a salt solution containing about two pounds of salt in a bucket of water, and in this dissolve shredded bits of newspapers until the entire mass is a pulpy, semi-thick mass. Next place a sheet of building paper in the bottom of the hole and allow it to lap toward the top 6 to 10 inches. Over this paper place the newspaper mixture to a depth of about 3 inches. Upon this mixture is laid the copper plate to which has previously been soldered the connecting wire which goes to the antenna post of the receiver. With the plate in place another 3-inch covering of the newspaper mixture is laid and over this is covered a layer of building paper. The hole is now ready to be filled, and it is important in filling that the earth be kept moist so that it can be packed quite solid.

The connecting wire should be lead-covered cable, encasing a single strand of No. 12 or 14 solid copper wire, this wire being rubber insulated from its lead sheath. This may be procured from most dealers in electrical supplies or they will secure it from the jobber for you.

Your present antenna should now be disconnected and the wire from the underground sheet connected to the antenna post of the receiver. The diagrammatic view also shows a ground connection which can be the present ground you are using, although in most cases one will find that no ground will be needed with the underground antenna connected to the receiver. In other words, the ground post of your receiver need possibly have no connection made to it. With some makes of receivers better results will be had if the underground antenna lead-in is connected to a .0001 mfd. fixed condenser and the remaining terminal of the fixed condenser attached to the antenna post of the receiver.

Of all of the underground schemes tried, the one described here has proven gen-

erally most satisfactory, but in conclusion I would not be fair did I not caution you that neither success nor failure can be promised in advance. Soil conditions, magnetic earth currents, and the type of receiver used and its efficiency have much effect on the degree of your success. The author has given to you the benefit of others' experiments as well as his own research, and giving all is the most anyone can do.

R.R. IS FOR TRAVELERS

(Continued from page 7)

announcements as compared with the former method, which involved train callers who used megaphones. When it became apparent, as the result of experiment, that greatly improved service could be provided for travelers, arrangements were made immediately to install a regular broadcasting apparatus. Instead of being hooked up with an aerial, like a Radio broadcasting station, this equipment is connected by wires with the various loud speakers throughout the station.

The chief features of the apparatus are a microphone, amplifying mechanism, and a total of twenty-seven loud speakers, which are distributed in clusters on four pillars in the concourse and also in the waiting rooms and the dining room. A special compartment, glass-enclosed and containing the microphone and other necessary transmission apparatus, was built for the announcer between the doors to the main waiting room in the center of the concourse. The apparatus builds up and amplifies the human voice and, as a result, the announcer's words can be heard distinctly in the concourse and in all other parts of the station covered by loud speakers.

Although the use of the broadcasting system for train announcing is an innovation in itself, a popular feature in regard to the way it is used also has been developed. The announcer does more than merely recite the time table.

He "talks to the public" immediately following the announcement of specific trains, and in addition broadcasts weather reports and news items relating to Pennsylvania Railroad affairs or to important current events.

He also frequently tells passengers boarding a particular train about historical places or scenic spots through which the train will pass. The announcer is constantly in touch with the chief dispatcher, and in case of interruptions in the service he immediately passes the information on to waiting patrons.

Besides, the announcer puts a personal or humorous touch in his remarks when the chance offers. A wedding party inspired this greeting: "To the bride and

bridegroom at gate No. 12, about to start on their honeymoon, we extend our hearty congratulations. You are starting right in starting over the Pennsylvania Railroad. May your other journeys through life be made with the same wisdom."

The announcing system is in operation daily from 8 a. m. until midnight, and is under the general supervision of W. R. Jones, Station Master. J. O. Hackenburg, Superintendent of the Philadelphia Terminal Division, conceived the idea of broadcasting train announcements and put it into effect.

Improve Tube Manufacture

CHICAGO.—Recent laboratory investigations by the metallurgical laboratory of the Peoples Gas Light and Coke company, here, have resulted in a better Radio tube. The work done involves tubes in which the nickelplate in the grid of the tubes is degasified.

Nickel absorbs vagrant gases. When the necessary vacuum is pumped, the gases will come out of the nickel. This renders the tubes very unsatisfactory.

The gas company has perfected a process wherein these vagrant gases are driven out of the nickel before the vacuum is pumped. A hydrogen reduction furnace solved the problem.

The transmitting station of WJZ at Bound Brook, N. J., is entirely enclosed in a copper shield built into the walls so that energy radiating from the transmitter's oscillator and modulator tubes and circuits will not cause disturbance in neighboring receivers.

\$15 for your old Loud Speaker!
Famous \$25 ADLER-ROYAL
Now only **\$10.00**



Your old loud speaker, regardless of make, condition or original cost, and only \$10 buys this famous \$25 Adler-Royal loud speaker. The Adler-Royal not only gives loud volume, but reflects delicate tones with perfect clearness. Adjustable unit. Lite-like reproduction. Exquisite piano finish cabinet. Operates with any radio receiver using loud speaker. Fully guaranteed. Absolutely new. Shipped in original factory cases. Send us your old speaker, prepaid, NOW, and only \$10, and get this newest, finest cabinet model reproducer. Send for bulletin of other bargains in nationally advertised radio apparatus. Luxor Radio Co., Dept. 4, 38 Wooster St., New York

A & B Battery \$2
Charger ONLY

Satisfaction Guaranteed



Charges any type of storage A or B battery, using a few cents worth of ordinary house current, either alternating or direct. Cannot injure battery. Complete instructions enclosed. Anyone can operate. No expensive "extras" to buy.

Why pay \$10.00 to \$15.00 for a charger when you can get this splendid GUARANTEED R. B. Charger by mailing us two dollars (bills, money order, check or stamps) plus ten cents in stamps or coin to pay mailing costs. Charger will be sent postpaid. If you are not satisfied, return within five days and we will refund your money. Order at once—TODAY.

R. B. SPECIALTY COMPANY
Dept. Y-1, 308 East Third Street, Cleveland, Ohio


Yale GROUND HOG
DOUBLES POWER AND DISTANCE

Marvelous newly-invented ground gives 100% improved reception. Doubles power and distance. Stops leakage. Reduces static. Stops jangling even in mid-summer. Results never before equalled, users say. Satisfaction Guaranteed.

Proven absolutely essential to clear, powerful distance reception. Draws and holds moisture indefinitely. Highly sensitive to radio energy.

SEND NO MONEY—To introduce, we offer to those who act at once, regular \$5.00 size for only \$2.00. Send name today and pay \$2.00 plus 17c postage on delivery. Or send only \$2.00 with order and save postage. **FREE**—Full description of Ground Hog and big money making agent's offer on request—write today.

Yale Specialty Supply Co.
123 W. 5th St., Kansas City, Mo.



FOR CLEAR, QUIET "B" POWER



WORLD STORAGE BATTERY
25 Cells
24 Volts
Lasts Indefinitely—Pays for Itself

Economy and performance unheard of before. Recharged at a negligible cost. Delivers untiring power that is clear, pure and quiet. Approved and listed as Standard by leading Radio Authorities, including Pop. Radio Laboratories, Pop. Sci. Inst. Standards, Radio News Lab., Cefax, Inc., and other important institutions. Equipped with Solid Rubber Case, an insurance against acid and leakage. Extra heavy glass jars. Heavy rugged plates. Order yours today!

SEND NO MONEY Just state number of batteries wanted and we will ship day order is received. Extra offer: 4 batteries in series (96 volts), \$10.50. Pay expressman after examining batteries. 5 per cent discount for cash with order. Mail your order now!

WORLD BATTERY COMPANY
1219 So. Wabash Ave., Dept. 76 Chicago, Ill.
Makers of the Famous World Radio "A" Storage Battery
Prices: 6-volt, 100 Amp. \$11.25; 120 Amp. \$12.25; 140 Amp. \$14.00.
All equipped with Solid Rubber Cases.

World STORAGE BATTERIES

Set your Radio Dials at 210 meters for the new 1000 watt World Storage Battery Station, WSBG, Chicago. Watch for announcements.

Beat the Summer Static

Use Your Radio as an Electric Phonograph

Results equal to the new high-priced Electric Phonographs now appearing on the market.

We tell you how to do it at a small cost. Send \$1.00 for complete plans.

Mogle & McClelland
1024 MAIN, WINFIELD, KANSAS

Steinite Low Loss Interference Eliminator

No Radio Set Complete Without It



Select stations at will. With music and voices crowding the air the average set fails to bring in the desired stations properly. The **Steinite Interference Eliminator** shuts out local and other interference. You get one station at a time, the one you want, and tune in loud and clear. Operates on any set—attach to aerial wire and to set—no changes—no extra tubes or batteries. Great! Dollar Value in Radio Today.

Fred W. Stein. OVER 300,000 SOLD

Improved Results With Tube or Crystal Try entirely at my risk the wonderful improvement this inexpensive little device will make in the reception of your set. Improves results on both crystal and tube sets that use any kind of aerial except loop antenna. Clears up reception wonderfully, increases volume, and partially absorbs static. **MONEY-BACK GUARANTEE.**

Mrs. Famous 1,500-Mi. Steinite 1-Tube set \$6. Long distance Crystal Set, \$6. Steinite Crystals, 50c—3 for \$1. Write for complete illustrated literature on all Steinite Radio Products.

Put this interference eliminator on your set and note amazing improvement. No tools needed—install in a moments time. Connect with set and follow simple instructions. Money back promptly if not delighted. \$1.00 postpaid anywhere in U. S. when cash with order.

References: Exchange National Bank, Atchison Savings Bank. Order today—a dollar bill will do.

STEINITE LABORATORIES, 261 Radio Bldg., ATCHISON, KANSAS



Radiophone Broadcasting Stations

Corrected Every Issue—Part V

State	City	Call	State	City	Call	State	City	Call	State	City	Call	State	City	Call	State	City	Call
Alabama:	Alabama:		Illinois (Continued)	Illinois (Continued)		Massachusetts:	Massachusetts:		New Jersey (Continued)	New Jersey (Continued)		Pennsylvania (Continued)	Pennsylvania (Continued)		West Virginia:	West Virginia:	
Auburn, WAPI	Auburn, WAPI		Chicago, KYW, WAAF, WBBM,	Chicago, KYW, WAAF, WBBM,		Boston, WBZA, WEEL, WNAB,	Boston, WBZA, WEEL, WNAB,		Red Bank, WBEI	Red Bank, WBEI		Grove City, WSAJ	Grove City, WSAJ		Beaumont, WBBW	Beaumont, WBBW	
Birmingham, WBRC	Birmingham, WBRC		WBBZ, WBCN, WBEH, WBBN,	WBBZ, WBCN, WBEH, WBBN,		WFKB, WGN, WHBL, WHBZ,	WFKB, WGN, WHBL, WHBZ,		Trenton, WOAX	Trenton, WOAX		Harrisburg, WABB, WBAK,	Harrisburg, WABB, WBAK,		Beloit, WEBW	Beloit, WEBW	
Montgomery, WIBZ	Montgomery, WIBZ		WHT, WIBC, WIBM, WIBO,	WHT, WIBC, WIBM, WIBO,		WHL, WJIB, WJMB, WJWB,	WHL, WJIB, WJMB, WJWB,		New Mexico:	New Mexico:		Haverford, WABQ	Haverford, WABQ		Camp Lake, WCLD	Camp Lake, WCLD	
Arizona:	Arizona:		WJAZ, WKRG, WLIB, WLS,	WJAZ, WKRG, WLIB, WLS,		Medford Hillside, WARC	Medford Hillside, WARC		Albuquerque, KFEL, KFVY	Albuquerque, KFEL, KFVY		Johnstown, WHPB	Johnstown, WHPB		Eau Claire, WTAQ	Eau Claire, WTAQ	
Flagstaff, KFXV	Flagstaff, KFXV		WLAS, WMAQ, WMBB, WOK,	WLAS, WMAQ, WMBB, WOK,		New Bedford, WIBE, WNBH	New Bedford, WIBE, WNBH		State College, KOB	State College, KOB		Lancaster, WGAL	Lancaster, WGAL		Fond du Lac, KFIZ	Fond du Lac, KFIZ	
Phoenix, KFAD, KFBC	Phoenix, KFAD, KFBC		WPCC, WQJ, WSAX, WSBC,	WPCC, WQJ, WSAX, WSBC,		South Dartmouth, WMAF	South Dartmouth, WMAF		New York:	New York:		Lewisburg, WJBU	Lewisburg, WJBU		Madison, WEA, WIBA	Madison, WEA, WIBA	
Arkansas:	Arkansas:		WSWS	WSWS		Springfield, WBEZ	Springfield, WBEZ		Bay Shore, WRST	Bay Shore, WRST		Oil City, WBBB	Oil City, WBBB		Marshfield, WGBR	Marshfield, WGBR	
Fayetteville, KUOA	Fayetteville, KUOA		Decatur, WBAO, WJBL	Decatur, WBAO, WJBL		Taunton, WAIT	Taunton, WAIT		Buffalo, WEBR, WGR, WPDQ,	Buffalo, WEBR, WGR, WPDQ,		Parkeburg, WQAA	Parkeburg, WQAA		Milwaukee, WHAD, WKAJ,	Milwaukee, WHAD, WKAJ,	
Hot Springs National Park, KTHS	Hot Springs National Park, KTHS		Evanston, WEHS	Evanston, WEHS		Webster, WKBE	Webster, WKBE		WVSY	WVSY		WPAK, WQAA	WPAK, WQAA		Waukegan, WJWB	Waukegan, WJWB	
California:	California:		Galesburg, WFBZ, WRAM	Galesburg, WFBZ, WRAM		Worcester, WTAG	Worcester, WTAG		WFL, WBBW, WIAD, WIP,	WFL, WBBW, WIAD, WIP,		Wilkes-Barre, WBAX, WBRB	Wilkes-Barre, WBAX, WBRB		Omro, WJBR	Omro, WJBR	
Alma, KFQU	Alma, KFQU		Harrisburg, WBBQ	Harrisburg, WBBQ		Michigan:	Michigan:		WLIT, WNAT, WOO	WLIT, WNAT, WOO		Rhode Island:	Rhode Island:		Payonette, WJBU	Payonette, WJBU	
Avalon, KFOW	Avalon, KFOW		Joliet, WCLS, WJBA, WKBB	Joliet, WCLS, WJBA, WKBB		Bay City, WSKC	Bay City, WSKC		Providence, WCRR, WCVS,	Providence, WCRR, WCVS,		WEAN, WJAR, WLSI	WEAN, WJAR, WLSI		Sisibit, WBAR	Sisibit, WBAR	
Bear Lake, KFNB	Bear Lake, KFNB		LaSalle, WJBC	LaSalle, WJBC		Berrien Springs, WEMC	Berrien Springs, WEMC		South Carolina:	South Carolina:		Charleston, WBBY	Charleston, WBBY		Superior, WBCB	Superior, WBCB	
Berkeley, KRE	Berkeley, KRE		Moonsheart, WJJD	Moonsheart, WJJD		Dearborn, WWI	Dearborn, WWI		South Dakota:	South Dakota:		South Dakota:	South Dakota:		West De Pere, WBEY	West De Pere, WBEY	
Burlingame, KFOB	Burlingame, KFOB		Oak Park, WGES	Oak Park, WGES		Detroit, WCX, WGHP, WJR,	Detroit, WCX, WGHP, WJR,		Brookings, KFVY	Brookings, KFVY		Tennessee:	Tennessee:		Wyoming:	Wyoming:	
Chico, KFVH	Chico, KFVH		Plainfield, WVAE	Plainfield, WVAE		East Lansing, WKAR	East Lansing, WKAR		Chattanooga, WDD	Chattanooga, WDD		Laramie, KFBU	Laramie, KFBU		Alaska:	Alaska:	
Fresno, KMJ	Fresno, KMJ		Rockford, KFVJ	Rockford, KFVJ		Escanaba, WRAK	Escanaba, WRAK		Knoxville, WFBC, WNOX	Knoxville, WFBC, WNOX		Alaska:	Alaska:		Anchorage, KFQD	Anchorage, KFQD	
Hollywood, KPQZ, KFVW, KNX	Hollywood, KPQZ, KFVW, KNX		Rock Island, WHBF	Rock Island, WHBF		Flint, WFDD	Flint, WFDD		Lawrenceburg, WQAN	Lawrenceburg, WQAN		Juneau, KFJU	Juneau, KFJU		Hawaii:	Hawaii:	
Long Beach, KFON	Long Beach, KFON		Sycamore, WTAX	Sycamore, WTAX		Grand Rapids, WBDC, WOOD	Grand Rapids, WBDC, WOOD		Memphis, WGBB, WMC	Memphis, WGBB, WMC		Hawaii:	Hawaii:		Honolulu, KGU	Honolulu, KGU	
Los Angeles, KFI, KFPR, KFSG,	Los Angeles, KFI, KFPR, KFSG,		Tuscola, WDJ	Tuscola, WDJ		Houghton, KFVW, WVAO	Houghton, KFVW, WVAO		Nashville, WBAW, WQAD, WSM	Nashville, WBAW, WQAD, WSM		Philippine Islands:	Philippine Islands:		Baguio, KZUY	Baguio, KZUY	
KFI, KMTB, KNRC, KTTB	KFI, KMTB, KNRC, KTTB		Urbana, WRM	Urbana, WRM		Langsing, WREO	Langsing, WREO		Texas:	Texas:		Manila, KZIB, KZKZ, KZRQ	Manila, KZIB, KZKZ, KZRQ		Porto Rico:	Porto Rico:	
Oakland, KFUS, KFUP, KFWM,	Oakland, KFUS, KFUP, KFWM,		Zion, WCB	Zion, WCB		Mt. Clemens, WABX	Mt. Clemens, WABX		Amarillo, WDAG, WQAC	Amarillo, WDAG, WQAC		San Juan, WKAQ	San Juan, WKAQ		Canada:	Canada:	
KGO, KLS, KLX, KTAB, KZM	KGO, KLS, KLX, KTAB, KZM		Indiana:	Indiana:		Owosso, WSMH	Owosso, WSMH		Austin, KUT	Austin, KUT		Burketon Junction, CKCW	Burketon Junction, CKCW		Burnaby, CJCK	Burnaby, CJCK	
Oxnard, KFVY	Oxnard, KFVY		Anderson, WEDB, WBBU	Anderson, WEDB, WBBU		Petoskey, WBBP	Petoskey, WBBP		Beaumont, KFDM	Beaumont, KFDM		Calgary, CFAC, CFNC, CNBC	Calgary, CFAC, CFNC, CNBC		Charlottetown, CFYJ	Charlottetown, CFYJ	
Pasadena, KPCC, KPSN	Pasadena, KPCC, KPSN		Culver, WCLM	Culver, WCLM		Port Huron, WAFD	Port Huron, WAFD		Beeville, KFBB	Beeville, KFBB		Edmonton, CFCK, CJCA, CNRE	Edmonton, CFCK, CJCA, CNRE		Hamilton, CFPU, CHCS, CKOC	Hamilton, CFPU, CHCS, CKOC	
Sacramento, KFBC	Sacramento, KFBC		Evansville, WGBF	Evansville, WGBF		Royal Oak, WAGM	Royal Oak, WAGM		Brownsville, KVVW	Brownsville, KVVW		Iroquois Falls, CFCH	Iroquois Falls, CFCH		Kingston, CFNC, CFRC	Kingston, CFNC, CFRC	
San Diego, KFBC, KFSD	San Diego, KFBC, KFSD		Fort Wayne, WBBJ, WOWO	Fort Wayne, WBBJ, WOWO		Ypsilanti, WJKB	Ypsilanti, WJKB		College Station, WTAW	College Station, WTAW		London, CFCG	London, CFCG		Moncton, CNRA	Moncton, CNRA	
San Francisco, KFRC, KGTT,	San Francisco, KFRC, KGTT,		Kokomo, WJAK	Kokomo, WJAK		Minnesota:	Minnesota:		Dallas, WFAA, WRR	Dallas, WFAA, WRR		New Westminster, CFXC, CFYC	New Westminster, CFXC, CFYC		Ottawa, CHX, CKCO, CNRO	Ottawa, CHX, CKCO, CNRO	
KJBS, KPO, KUO	KJBS, KPO, KUO		Indianapolis, WFBM	Indianapolis, WFBM		Collegiateville, WFBI	Collegiateville, WFBI		Dublin, KPPL	Dublin, KPPL		Regina, CHWC, CKCK, CNRR	Regina, CHWC, CKCK, CNRR		Saskatoon, CFQC, CHUC, CJWC,	Saskatoon, CFQC, CHUC, CJWC,	
San Jose, KFAP, KQW	San Jose, KFAP, KQW		Lafayette, WRAF	Lafayette, WRAF		Fairmont, KFVN	Fairmont, KFVN		El Paso, KFPH, WDAH	El Paso, KFPH, WDAH		Thorold, CFKC	Thorold, CFKC		Toronto, CFCB, CHIC, CHNC,	Toronto, CFCB, CHIC, CHNC,	
San Pedro, KFVJ	San Pedro, KFVJ		Logansport, WJWB	Logansport, WJWB		Minneapolis, KFVZ, WAMD,	Minneapolis, KFVZ, WAMD,		Fort Worth, KFQB, KFJZ, WBAP	Fort Worth, KFQB, KFJZ, WBAP		Winnipeg, CFCT, CHYC, CKAC,	Winnipeg, CFCT, CHYC, CKAC,		Winnipeg, CFCT, CHYC, CKAC,	Winnipeg, CFCT, CHYC, CKAC,	
Santa Barbara, KPHJ	Santa Barbara, KPHJ		South Bend, WSBT	South Bend, WSBT		WCCO, WDGW, WHDI, WLB,	WCCO, WDGW, WHDI, WLB,		Galveston, KFLL, KFUL	Galveston, KFLL, KFUL		Victoria, CFCT	Victoria, CFCT		Cuba:	Cuba:	
Santa Maria, KSMR	Santa Maria, KSMR		Seymour, WPBE	Seymour, WPBE		Northfield, KFVW, WCAL	Northfield, KFVW, WCAL		Greenville, KFPM	Greenville, KFPM		Camaguey, 6YR, 7AZ, 7BY, 7CX,	Camaguey, 6YR, 7AZ, 7BY, 7CX,		7DW, 7SR	7DW, 7SR	
South San Francisco, KFVI	South San Francisco, KFVI		Valparaiso, WRBC	Valparaiso, WRBC		St. Cloud, WFAM	St. Cloud, WFAM		Houston, KFVI, KFVJ, KPRC	Houston, KFVI, KFVJ, KPRC		Santa Clara, 6BY, 6DW, 6EV,	Santa Clara, 6BY, 6DW, 6EV,		6GR, 6GT, 6HS, 6JQ	6GR, 6GT, 6HS, 6JQ	
Stockton, KWG	Stockton, KWG		West Lafayette, WBAJ	West Lafayette, WBAJ		St. Paul, AV7, KFOY	St. Paul, AV7, KFOY		San Antonio, WCAE, WQAI	San Antonio, WCAE, WQAI		Colon, 5EV	Colon, 5EV		Havana, PWX, Q2LC, 1AZ, 2AB,	Havana, PWX, Q2LC, 1AZ, 2AB,	
San Bernardino, KFWC	San Bernardino, KFWC		Iowa:	Iowa:		Sittipok, KIAP	Sittipok, KIAP		San Benito, KPLU	San Benito, KPLU		2BB, 2BY, 2CG, 2CX, 2EP,	2BB, 2BY, 2CG, 2CX, 2EP,		2HP, 2JL, 2JP, 2LE, 2MG,	2HP, 2JL, 2JP, 2LE, 2MG,	
Colorado:	Colorado:		Ames, WOJ	Ames, WOJ		Missouri:	Missouri:		San Benito, KPLU	San Benito, KPLU		2MK, 2OK, 2OL, 2PK, 2RK,	2MK, 2OK, 2OL, 2PK, 2RK,		2RM, 2RY, 2SZ, 2TW, 2UF,	2RM, 2RY, 2SZ, 2TW, 2UF,	
Colorado Springs, KFUM, KFVJ	Colorado Springs, KFUM, KFVJ		Anita, KFLZ	Anita, KFLZ		Cape Girardeau, KFVS	Cape Girardeau, KFVS		Waco, WJAD	Waco, WJAD		2WV, 2XX	2WV, 2XX		Mantanzas, 5AZ, 5BY	Mantanzas, 5AZ, 5BY	
Denver, KFEL, KFXJ, KFUP,	Denver, KFEL, KFXJ, KFUP,		Boone, KFGQ	Boone, KFGQ		Cartersville, KFPW	Cartersville, KFPW		Logan, KFVJ	Logan, KFVJ		Oden, KFUR, KFWA	Oden, KFUR, KFWA		Salt Lake City, KDYL, KPOO,	Salt Lake City, KDYL, KPOO,	
KLZ, KOA	KLZ, KOA		Burlington, WIAS	Burlington, WIAS		Columbia, KPRU	Columbia, KPRU		Salt Lake City, KDYL, KPOO,	Salt Lake City, KDYL, KPOO,		KFUT, KSL	KFUT, KSL		Vermont:	Vermont:	
Greeley, KFKA	Greeley, KFKA		Cedar Rapids, WKCR, WJAM	Cedar Rapids, WKCR, WJAM		Independence, KLDL	Independence, KLDL		Burlington, WCAX	Burlington, WCAX		Virginia:	Virginia:		Washington:	Washington:	
Gunnison, KFHA	Gunnison, KFHA		Clarinda, KSO	Clarinda, KSO		Jefferson City, WOS	Jefferson City, WOS		Springfield, WQAE	Springfield, WQAE		Norfolk, WBBW, WTAR	Norfolk, WBBW, WTAR		Everett, KFBL	Everett, KFBL	
Trinidad, KFBS	Trinidad, KFBS		Council Bluffs, KOIL	Council Bluffs, KOIL		Kansas City, KWKC, WDAF	Kansas City, KWKC, WDAF		North Bend, KFVJ	North Bend, KFVJ		North Bend, KFVJ	North Bend, KFVJ		North Bend, KFVJ	North Bend, KFVJ	
Connecticut:	Connecticut:		Davenport, WOC	Davenport, WOC		Kirkville, KFVZ	Kirkville, KFVZ		Portland, KFVJ	Portland, KFVJ		Portland, KFVJ	Portland, KFVJ		Portland, KFVJ	Portland, KFVJ	
Hartford, WTHC	Hartford, WTHC		Des Moines, WJHO	Des Moines, WJHO		Moberly, KFVJ	Moberly, KFVJ		Corvallis, KOAC	Corvallis, KOAC		Portland, KFVJ	Portland, KFVJ		Portland, KFVJ	Portland, KFVJ	
New Haven, WDRC	New Haven, WDRC		Fort Dodge, KFVJ	Fort Dodge, KFVJ		St. Louis, KFQA, KFVJ,	St. Louis, KFQA, KFVJ,		Portland, KFVJ	Portland, KFVJ		Portland, KFVJ	Portland, KFVJ		Portland, KFVJ	Portland, KFVJ	
Stores, WCAC	Stores, WCAC		Iowa City, KFQP, WSUI	Iowa City, KFQP, WSUI		KFWF, KMOX, KSD, WEW,	KFWF, KMOX, KSD, WEW,		Portland, KFVJ	Portland, KFVJ		Portland, KFVJ	Portland, KFVJ		Portland, KFVJ	Portland, KFVJ	
Delaware:	Delaware:		LeMars, KWUC	LeMars, KWUC		WIL, WMAJ, WSBF	WIL, WMAJ, WSBF		Portland, KFVJ	Portland, KFVJ		Portland, KFVJ	Portland, KFVJ		Portland, KFVJ	Portland, KFVJ	
Wilmington, WDEL	Wilmington, WDEL		Marshalltown, KFJB	Marshalltown, KFJB		University City, KFVJ	University City, KFVJ		Portland, KFVJ	Portland, KFVJ		Portland, KFVJ	Portland, KFVJ		Portland, KFVJ	Portland, KFVJ	
District of Columbia:	District of Columbia:		Muscatine, KNTT	Muscatine, KNTT		Montana:	Montana:		Portland, KFVJ	Portland, KFVJ		Portland, KFVJ	Portland, KFVJ		Portland, KFVJ	Portland, KFVJ	
Washington, WCAP, WMAL,	Washington, WCAP, WMAL,		Oskaloosa, KFHL	Oskaloosa, KFHL		Havre, KFBB	Havre, KFBB		Portland, KFVJ	Portland, KFVJ		Portland, KFVJ	Portland, KFVJ		Portland, KFVJ	Portland, KFVJ	
WRC, WRFF	WRC, WRFF		Shenandoah, KFNE, KMA	Shenandoah, KFNE, KMA		Junction City, KFVJ	Junction City, KFVJ		Portland, KFVJ	Portland, KFVJ		Portland, KFVJ	Portland, KFVJ		Portland, KFVJ	Portland, KFVJ	
Florida:	Florida:		Sioux City, KFMR, WEAU	Sioux City, KFMR, WEAU		Missoula, KUOM	Missoula, KUOM		Portland, KFVJ	Portland, KFVJ		Portland, KFVJ	Portland, KFVJ		Portland, KFVJ	Portland, KFVJ	
Clearwater, WGH	Clearwater, WGH		Kansas:	Kansas:		Nebraska:	Nebraska:		Portland, KFVJ	Portland, KFVJ		Portland, KFVJ	Portland, KFVJ		Portland, KFVJ	Portland, KFVJ	
Fulford-by-the-Sea, WGBU	Fulford-by-the-Sea, WGBU		Independence, KFVJ	Independence, KFVJ		Clay Center, KMMJ	Clay Center, KMMJ		Portland, KFVJ	Portland, KFVJ		Portland, KFVJ	Portland, KFVJ		Portland, KFVJ	Portland, KFVJ	
Jacksonville, WJAX	Jacksonville, WJAX		Lawrence, KFVJ	Lawrence, KFVJ		David City, KFVJ	David City, KFVJ		Portland, KFVJ	Portland, KFVJ		Portland, KFVJ	Portland, KFVJ		Portland, KFVJ	Portland, KFVJ	
Miami, WQAM	Miami, WQAM		Manhattan, KSAC	Manhattan, KSAC		Hastings, KFVJ	Hastings, KFVJ		Portland, KFVJ	Portland, KFVJ		Portland, KFVJ	Portland, KFVJ		Portland, KFVJ	Portland, KFVJ	
Miami Beach, WIOD, WMBF	Miami Beach, WIOD, WMBF		Wichita, KFV, KFOT	Wichita, KFV, KFOT		Lincoln, KFV, WFAV	Lincoln, KFV, WFAV		Portland, KFVJ	Portland, KFVJ		Portland, KFVJ	Portland, KFVJ		Portland, KFVJ	Portland, KFVJ	
Pensacola, WCOA	Pensacola, WCOA		Kentucky:	Kentucky:		Norfolk, WJAG	Norfolk, WJAG		Portland, KFVJ	Portland, KFVJ		Portland, KFVJ	Portland, KFVJ		Portland, KFVJ	Portland, KFVJ	
St. Petersburg, WBBN, WJBB	St. Petersburg, WBBN, WJBB		Louisville, WHAS, WLAP	Louisville, WHAS, WLAP		Oak, KFVJ	Oak, KFVJ		Portland, KFVJ	Portland, KFVJ		Portland, KFVJ	Portland, KFVJ		Portland, KFVJ	Portland, KFVJ	
Tampa, WDAE	Tampa, WDAE		Louisiana:	Louisiana:		Omaha, KFVJ, KOCH, WAAW,	Omaha, KFVJ, KOCH, WAAW,		Portland, KFVJ	Portland, KFVJ		Portland, KFVJ	Portland, KFVJ		Portland, KFVJ	Portland, KFVJ	
Winter Park, WDBO	Winter Park, WDBO		Kennerwood, KFVJ, KWKH	Kennerwood, KFVJ, KWKH		UNAL, WQAV	UNAL, WQAV		Portland, KFVJ	Portland, KFVJ		Portland, KFVJ	Portland,				

Photogravures of Your Favorite Artists

GALLERY OF RADIO STARS

SUITABLE FOR FRAMING OR PLACING IN YOUR ALBUM

BY special arrangement, Radio Digest is able to offer our readers an opportunity to secure fine photogravures of their favorite Radio stars at practically no cost. Radio fans will be able now, by this very special offer, to have pictures of their favorite artists and announcers before them when they listen in.

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20. Vincent Lopez, No. 1 Pennsylvania Orchestra

SIZE 11x14 INCHES

Select Your Favorites from the Gallery of Radio Stars

- | | | |
|--|---|---|
| 1 Wendell Hall, king of ukulele ditties | 18 Al Carney, organ favorite at WHT | 41 Art Linick, KYW's Mrs. Schlagenhauer |
| 2 Graham McNamee, 1925 Gold Cup announcer | 20 Vincent Lopez, No. 1 Pennsylvania orchestra | 42 Fred Hamm of WTAS, now WLIB, fame |
| 3 Jack Little, popular wandering balladist | 21 E. L. Tyson, pleasing voice at WWJ | 43 Meyer Davis' Le Paradis orchestra of WRC |
| 4 Billy B. Van, the sunshine man | 23 Art Gillham, "The Whispering Pianist" | 46 D. R. P. Coats, 1925 Silver Cup announcer |
| 5 Coon-Sanders' "Nighthawks" at KYW | 25 Harry Ehrhart, "Dream Daddy" at WLIT | 47 Gene Rouse, WOAW's popular announcer |
| 6 George Hay, 1924 Gold Cup announcer | 26 Correll and Gosden of "Kinky Kids Parade" fame and Sam 'n' Henry at WGN. | 49 Iris Ruth Pavey, KOA's invisible stage beauty. |
| 7 Harmony Girls, Edith Carpenter, Grace Ingram | 27 Norman Brokenshire, popular at WRC, WJZ | 51 Ipana Troubadours, on the WEAF Chain |
| 8 Ford and Glenn, Lullaby Boys of WLS | 29 Jane Novak, Blues Singer of Twin Cities, WCCO | |
| 9 "Roxy" Rothafel of WEAF chain fame | 30 Jean Sargent, the original, now at WHT | |
| 10 The Hired Hand, famous "Substitute Announcer" of WBAP | 31 Ralph Emerson, popular organist at WLS | |
| 12 Bob Emery, Big Brother of WEEI | 32 Edna Adams, of KPRC | |
| 13 "Bill" W. G. Hay, ex-KFKX, now of WLIB | 33 Pat Barnes, vaudeville announcer at WHT | |
| 14 Happiness Boys, jovial singers of WEAF | 38 Walter Wilson, "Uncle Bob" of KYW | |
| 15 Lambdin Kay, "Little Colonel" of WSB | 40 Ray-O-Vac Twins, known country-wide | |
| 16 Leo Fitzpatrick, "Merry Old Chief," WJR | | |
| 17 Henry Field, 1925 Gold Cup runner-up | | |

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