

No. 2 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:

(Announcer's Name) of Station (Call Letters)
Signed
Address
City State

1-3-26

NEWS BRIEFS FROM THE BROADCASTERS

KGW, PORTLAND, IS NOW 1,000-WATT STATION

Microphone Technique Being Taught in New York—A. A. U. Finals to Be Sent from KOAC

KGW, the Portland Oregonian, expects to have its new 1,000-watt transmitter in operation as these lines are read. Eastern listeners will have a new star at which to shoot.

A school for the study of the technique of performing before the microphone has been opened in New York city at Steinway hall. T. H. Fellows and B. F. Gerald are the founders.

Final matches in the National Amateur Athletic Union championships, to be held at Corvallis, Oregon, April 15 to 17, will be broadcast by the Oregon Aggie station, KOAC, on Friday, April 16, from 8:15 to 11 p. m. Pacific time.

Thousands of sleepless listeners are recommending the Friday midnight programs broadcast by Crosley WLV, Cincinnati. It is then that the "Night Howls" take the air from the Crosley Sky Terriers. Well-known WLV artists perform under nom de plumes.

A canary obligato heard by WJZ's sharp-eared listeners has been traced to several canaries in cages in the lobby of the Hotel Commodore, New York, where music is picked up from Bernhard Levittow's ensemble. Unknown to WJZ, the songs of the little birds were given audience.

Helene Sullivan, Metro-Goldwyn-Mayer star, is one movie actress who does a regular Radio act. She is heard over KNX, Hollywood, each Sunday afternoon from 4:30 to 5 p. m. Pacific time with her enemy chat.

KOIL, Council Bluffs, Iowa, with the placement of a permanent studio in the Hotel Fontenelle, Omaha, has added the name of Omaha to its location announcement.

Nine hours and thirty-four minutes is the daily average time spent by KPO, Halethothers, San Francisco, on the air. About half of the hours are devoted to studio fans, while the remaining time is used on one control pickups.

T. Norton, United States representative from New Jersey, was an honored guest last week on the congressional program broadcast from WRC and

the home of the famous Kansasawks, boasts three studios and a broadcasting room located at 15 points in Kansas City. This

OF PIANO AND AN IS COVER GIRL

are presented to Miss Eva Howard, the dainty, curly-haired Miss on the Radio Digest this week. Miss Howard is at present favoring Station WAFD, Porton, Mich., with her artistry, but is well known in other cities where delicate touch on the piano and the organ keys has identified her about special announcements to thousands of Radio fans. Her career began in El Paso, Texas.

teen remote control pickups are also feeders for a well diversified program.

"The Border Line," a four-act historical drama dealing with the first fifty years of the northwest territory, was broadcast last week by WGY, General Electric station at Schenectady. The prologue and epilogue were by Emma S. Backus.

A cosmopolitan program presenting the themes of all races of the world being taught at the University of Nebraska, was recently broadcast over KPAB, Lincoln, Nebr., by courtesy of the Knife and Fork club and the Nebraska Writers' guild.

John Wilbourn, one of Baltimore's leading tenors and popular as a singer of old English ballads and light operatic selections, has joined the staff of WBAL, as assistant studio manager. Mr. Wilbourn

NOMINATION CERTIFICATE
Announcers' Contest

Radio Digest Third Annual GOLD CUP AWARD

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

Dear Sir:

I nominate.....

Station.....

(Broadcasting Station)

Signed.....

Address.....

Town.....

State.....

Old-Fashioned Grannies Win Contest Over Flapper Kind

CINCINNATI.—The modern type of grandmother lost to the old-fashioned kind in the contest conducted by the Crosley Radio broadcasting station, WLW, Cincinnati. Votes were received from all parts of the country, the voters indicating their choice through a postal card. A total of 5,058 postal cards were received up to the time the contest closed. Each of the grandmothers received a number and their identity was kept secret, although a description of the ladies was given over the air.

Mrs. Margaret Poehner, seventy years old, and grandmother of seventeen children, 1919 Kentucky avenue, Cincinnati, won the first prize. Her voting number was 7.

will be one of the regular features on WBAL's musical programs during the dinner hour, 6:45 to 7:45 p. m. eastern time, every Tuesday evening.

GOLD CUP CONTEST STARTS WITH BANG

16 POPULAR ANNOUNCERS PUT IN RACE ALREADY

Listeners Rush to Enter Nominations—Race Has Indications of Keen Competition—Save Ballots

In but a few hours after the last issue of Radio Digest had been placed on the newsstands, an enthusiastic admirer had nominated "Bill" William G. Hay, WLIB and WGN, and put him in the race early for the 1926 Radio Digest Gold Cup Award.

Other listeners, wishing to place their favorites in the list of candidates for the selection of the world's best for this year, hurriedly nominated fifteen other microphone personalities in the brief time between the appearance of the last issue and the time this issue went to press.

The competition this year for the solid fourteen-carat gold cup and the two additional silver loving cups has indications of an enthusiastic interest.

If your favorite announcer's name is not in the list below of those nominated, fill in the nomination blank at the right top of this page and get him into the running. Then SAVE your ballot for him. Don't miss a SINGLE ballot, for when these are turned in to Radio Digest in a group of CONSECUTIVE numbers, a pleasing and worthwhile bonus of extra votes is allowed the announcer for whom you are voting.

How Bonus Votes Are Given
The ballots, which appear weekly beginning last issue at the left top of page 2, are numbered consecutively. They will appear every issue until the close of the contest with the August 28 issue. Each of these ballots will count for one vote when sent in separately.

But when held until you have four consecutive numbered ballots, and sent in at one time to Radio Digest, a bonus of eight votes, or a total of twelve votes, will be allowed the candidate for whom you are voting.

The larger the number of consecutive ballots submitted, the greater is the bonus allowed. Eight consecutive ballots receive a bonus of twenty votes, or a total of twenty-eight votes. Twelve consecutive ballots receive a bonus of thirty votes, or a total of forty-two votes. And for a complete series of ballots, including one from each issue from March 27 to and including the last, which will appear in the August 28 issue, a bonus of fifty votes will be allowed.

Send in nominations or ballots to the GOLD CUP AWARD EDITOR, Radio Digest, 510 North Dearborn street, Chicago.

Sixteen Announcers Nominated
The sixteen announcers who already have been nominated are:

- William G. Hay, WGN and WLIB.
Phillips Carlin, WEAP.
The Hired Hand, WEAP.
Harold Isbell, KYW.
Gayle V. Grubb, KPAB.
Robert W. Griffin, WHO.
Pat Barnes, WHT.
Henry Field, KFNE.
E. L. Tyson, WJW.
Paul Johnson, WCCO.
Lambdin Kay, WSB.
George D. Hay, WSM.
Graham McNamee, WEAF.
Leo Fitzpatrick, WJR.
John Dargatzis, KHL.
Richard V. Haller, KGW.

Cup for Canadian
It is interesting to note that the list includes the winners of the 1924 and 1925 gold cups, in addition to men who no doubt prove the strongest contenders for the 1926 Gold Cup Award.

For the benefit of those readers who did not read the details last issue, it is repeated that this year two large silver loving cups have been added to the list of prizes. One will go to the second highest announcer, while the other will be awarded to the highest Canadian announcer at the close of the competition.

In case of a tie, duplicate cups will be awarded the winners.

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Radio Digest, Illustrated, Volume XVI, Number 13, published Chicago, Illinois, April 3, 1926. Published weekly by Radio Digest Publishing Co. (Incorporated), 510 N. Dearborn Street, Chicago, Illinois. Subscription rates yearly, Five Dollars; Foreign Postage One Dollar additional; single copies Ten Cents. Entered as second class matter at the post office at Chicago, Illinois, under the Act of March 3, 1879. Title Reg. U. S. Patent Office and Dominion of Canada. Copyright 1926 by Radio Digest Publishing Co. All rights reserved.

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Looking Ahead

When Land Values Began to Swell at Such a Rapid Pace that some speculators made fortunes almost over night it occurred to Dave P. Davis to make more land by filling in a shallow part of Tampa Bay. He built Davis Islands and thereon erected Station WDAE, associated with the Tampa Daily Times. Read about it in next issue of Radio Digest.

Ever See the Bees Gathering Honey from a Sunflower? There's a girl down in Fort Worth, Texas, with a voice that fairly drips with honey. They say she ranks about first in the country for the number of fan letters received. She is only known by the name of "Sunflower Girl." Read this romance in one of the forthcoming issues of Radio Digest.

Next Week's Installment of "A Step On the Stairs" will present disclosures concerning the great Radio mystery that will astound you. There will be some new revelations and a rapid crash of events that will leave you breathless with surprise. Who killed Jeremiah Turner? Read it next issue and begin to figure on that prize money.

The Super-Torrodyn, a Super-Heterodyne Improvement, as built by J. E. Owen of the University of Oklahoma, will be described beginning next issue. Mr. Owen will give the circuit he used and name the necessary parts.

Don't Bloop! Learn How to Test for Noises by means of the apparatus to be described in the next article of this series now appearing in Radio Digest.

Newsstands Don't Always Have One Left

WHEN YOU WANT

Radio Digest

YOU WANT IT!

BE SURE OF YOUR WEEKLY COPY BY SUBSCRIBING NOW

SEND IN THE BLANK TODAY

Publisher Radio Digest,
510 N. Dearborn St.,
Chicago, Illinois.

Please send enclosed check M. O. for Five Dollars (Six, Foreign) for One Year's Subscription to Radio Digest, Illustrated.

Name
Address
City State

HINT PLANETS MAY HEAR WORLD

WHITE BILL PASSES HOUSE BY BIG VOTE

RADIO LEGISLATION NOW DEPENDS ON SENATE

Senator Watson Appears to Hold Answer Which Rests on Which Course He Advocates

WASHINGTON, D. C.—After a heavy two days' buffeting, the White Radio bill recently rode a stormy passage through the house which sat as a committee of the whole, placing Radio broadcasting under the control of the secretary of commerce and a proposed federal Radio commission. The bill was passed by a vote of 218 to 124, over a bitter attack led by Representative Davis of Tennessee and other Democratic members.

The accepted bill was very much along the lines of a third bill introduced at the present session by Mr. White, although a few minor amendments were adopted, one of which would prevent the secretary of commerce from remitting fines for infractions of the regulations.

The bill would create five zones throughout the country, from which five members, one from each zone, would be appointed to form a federal Radio commission.

Depends on Watson

But at the time this issue goes to press, the listeners in have no assurance that Radio will be legislated. The bill is now in the senate, along with the Dill Radio bill, the main provisions of which are similar. And Radio legislation depending upon the senate, leaves the matter resting in the hands of Senator Watson of Indiana; at least that is the consensus of opinion of the members of the senate.

It is admitted that there is a general appreciation of the importance of Radio legislation in the senate, but there is also a lack of interest and knowledge as to the requirements. His colleagues are depending upon Senator Watson to do what is best.

How and Where?

If Senator Watson sponsors a Radio bill, it is expected there will be a new Radio law enacted at this session of congress, and unless he does get behind and push for the enactment of one, the chances for Radio legislation are very slim. Senator Watson is enthusiastic for government control of the situation, but the question of how and from where it is to be controlled will be the bone of contention.

In the wrangling and milling over whether the secretary of commerce, the department of commerce, the interstate commerce commission, a federal Radio commission or some combination of those groups should exercise power over Radio, the paramount issue of whether or not we should have Radio legislation may be ground underfoot.

Congressman Free Tells How To Make Good Cheap DX Set

WASHINGTON.—If you are not entirely satisfied with your set, it may be a good idea to communicate with Congressman Arthur M. Free, at the House office building, at Washington, D. C., and find out how his son built his. Mr. Free is from California. During the debate on the White Radio bill, he said:

"Any boy can take, as my boy did, a bolt, a little wire, and a crystal, which costs a few cents, and make a Radio set and he can listen in on any program anywhere in the United States. If he wants a little better set, he can take a little bit more wire, a few more nuts and bolts and get a tube, and he can make a tube set, paying \$2.50 for the tube."

To Hold Hearings April 5

WASHINGTON, D. C.—The Radio copyright bill, sponsored by the broadcasters of the country, has been introduced in the house, by Representative Vestal of Indiana, chairman of the committee on patents to which the bill has been referred. The bill is identical with the Dill bill in the senate.

Joint congressional hearings on the Radio copyright bills now pending in both houses will begin April 5.

A second Radio copyright bill has been introduced in the house by Representative Vestal of Indiana. It is understood that this bill has been endorsed by the American Society of Composers, Authors and Publishers. No date has been set for hearings for this bill but it also has been referred to the house committee on patents of which Mr. Vestal is chairman.

NOW IS TIME TO TRY FOR ANTIPODE ISLES

WANT to hear Australia, New Zealand and Japan? Long distance fans will be gratified to know that just now is the best time of the year to try. Donald Wright, of Terminal Island, Terminal Calif., reports that he is now regularly hearing 3LO, 2BL, JOAK and JOBK. The latter two are Japanese. The former two are Australian and New Zealand broadcasters. Mr. Wright finds that these stations are best heard between 2:30 and 5 a. m. Pacific time. (This is equivalent to 3:30 and 6 a. m. Central or 4:30 and 7 a. m. Eastern time.) Try for them some morning.

PRISONER ASKS FOR SONG HEARD IN JAIL

CHICAGO.—How the wonderful magic of Radio penetrates even prison walls and sends sunshine into the darkest corners of the world was revealed in a letter received at Station WLIB from prisoner No. 25372 at the Missouri State Penitentiary at Jefferson City, regarding the popular song, "The Loneliest Girl in Town."

He is an ex-jockey, who in his hey days had squandered the world's goods on the kind of a girl described in the song. He wrote that he was washing other prisoners' clothes to support a one tube set.

SHE'S ONE SOPRANO YOU'LL LIKE



Ruth Heubach is a charming soprano who knows well how to use the microphone and you'll hear her on the WSAX community concert on Monday, April 5.

Station KTHS Offers Big Easter Broadcast

Three-Hour Program to Be Handled by Remote Control

HOT SPRINGS, Ark.—Simultaneously with the first long ray of sunlight as the Easter Sabbath sun climbs over the rim of the world, the carrier wave of Station KTHS, the New Arlington hotel at Hot Springs National Park, Arkansas, will start an elaborate and unique Radio program—with more than 2,000 artists taking part, and a visible audience of more than 10,000.

The program will begin at 5:32 a. m. Central time, taken from Kavanaugh field, Little Rock, by remote control over 55 miles of land wire. The broadcast will be opened by Rev. Harry Knowles and followed by music by the forty-piece Missouri Pacific band and many artists.

ASK FANS' AID IN SHORT WAVE TRY

April 3 Marks Beginning of Month's Test of Five Low Lengths

SCHENECTADY, N. Y.—All listeners who have short wave receivers and who are interested in the progress of broadcasting are asked to cooperate with the General Electric company engineers, who are conducting a series of tests in wave propagation of 32.79 and 65.5 meters. Beginning April 3, special telegraph tests will also be made on 15, 26.4 and 50.2 meters, by 2XAV, 2XAD and 2XAC respectively.

All listeners who can cooperate during these are asked to send their names to the Radio department of the General Electric company so that special report forms may be supplied them.

SHORT WAVE OBSERVATION BASIS OF IDEA

Science Revamps Theory

Dr. E. O. Hurlbut Suggests Possibility of Communicating with Universe by Radio Impulse

PHILADELPHIA.—Strange as it may seem, you may tune in and hear the celestial harmonies that whisper between you and the spheres—you may hear programs for Saturn, Mars and Mercury, to say nothing of the other planets, as they go whirling through space.

Dr. E. O. Hurlbut of the naval research laboratory at Washington, D. C., who recently addressed the Franklin Institute, a nationally famous organization in Philadelphia, admitted that there is a possibility of interplanetary communication by Radio. In brief, Dr. Hurlbut said that if interplanetary communication is at all possible, it will be achieved through Radio wave lengths of less than ten meters.

Waves Go Somewhere, But Where?

In the course of his lecture on "The Kennelly-Heaviside Layer and Radio Wave Propagation," he explained that all other waves except those under ten meters collide with the atmospheric layer at an altitude of about 100 miles, and rebound to earth. But those below ten meters are more roving. He inferred that after leaving the earth they just disappear, and at the present time no scientist has been able to determine just where they land.

That they leave the earth is a fact; it is also a fact that they do not come back. Then the question remains: where do they go? Upon the answer hangs the possibility of this generation or of any other finishing the nocturnal repast and then flipping the dials to discover just what April strawberries are selling for on the Saturn produce exchange.

How Short Waves Reach Out

Dr. Hurlbut spoke in a truly scientific light and said:

"A quantitative theory, giving a clear picture of the manner of the passage of Radio waves over the surface of the earth has resulted from the recognition and measurement of the skip distance for Radio waves below forty meters in length. The electrons of the upper atmosphere, known as the Kennelly-Heaviside layer, activated by the earth's magnetic field, play a crucial role.

"The shorter waves are propagated longer distances by refraction in the layer and reflection at the ground. They reach heights of about 100 miles. At this altitude there are ten to the fifth power electrons per cubic centimeter, that is, about ten billion electrons. The theory explains many complex phenomena of fading, directional variation, and reception with vertical and horizontal Hertz antennas."

The layer of which Dr. Hurlbut spoke was named after Dr. Kennelly, professor of electric engineering in the Massachusetts Institute of Technology, and the late Dr. Oliver Heaviside, of England.

Station Changes

Two new stations have been licensed this week, WLB, the University of Minnesota station at Minneapolis, Minn., 500 watts, 277.6 meters, and WJBY, Onondaga, Wis., 50 watts, 227.1 meters. The following stations have been relicensed: KFUM, Colorado Springs, Colo., 100 watts, 239 meters; KWUC, Le Mars, Iowa, 50 watts, 252 meters; WPDQ, Buffalo, N. Y., 50 watts, 205.4 meters; WRAIG, Escanaba, Mich., 100 watts, 256.3 meters.

Four stations have officially changed call letters. KFMO, Fayetteville, Ark., is now KUOA; Santa Maria, Calif., KSMR; WHAT, Minneapolis, Minn., WGVY; and WKBK, New York, N. Y., WBNY.

WTAQ has moved from Osseo, Wisconsin, to Eau Claire.

Power changes include 1,000 watts for KPNP, Shenandoah, Iowa; 2,000 watts for WBEH, Chicago; and 3,500 watts for WLWL, New York.

Firemen Turn On the Mikes

MILWAUKEE Smoke Eaters Back Again On WHAD After Mourning Radio Leader Killed Answering Alarm. Swiss Cheese Makers Yodle a Hit. Turnverein Assists.

THERE'S a wee sprig and a bit of purple and black over the double doors of Engine House No. 3 on the Milwaukee South Side. It is a house of mourning.

Not so long ago the shining of the engine brass and the general slogging up was made lively by a ragtime jazz piano accompaniment under the nimble fingers of Merritt Ramus. The piano is in the music room which formerly had been the stables where noble horses champed and stomped as the alarms came tingling over the wires. At first the men missed the horses but Tom Saskowski got out his banjo and August Boehm his harmonica. They were so good they played at a benefit show and then they were invited to broadcast over WHAD, the Marquette University-Milwaukee Journal Radio station.

This encouraged others in the department with musical tendencies and Engine House No. 3 became a regular musical center. The stall partitions were knocked out and the music room came into being. But there came a day when the lid of the old piano was closed down. Tom and August put away their instruments.

You see, in the first place they were all firemen. Captain Ernest Glander never failed to remind the men of that, although it was he who started the Radio diversion. There was an alarm. Clang! Clang! The apparatus tore out the door. Zip and they reached a railroad crossing—a passing train—the hurtling motor of Captain Glander—a crash and in a moment the veteran fire fighter had passed to his reward.

In the group below may be seen the old ensemble as they used to appear before the microphone and in the chair with his accordion is Captain Glander. The captain was especially appointed by Chief Steinkellner, as the chief said, "to keep the boys from blowing the roof off."

But as these lines are written the boys are planning to go on the air again in a few days. They are going to continue the good work to which the captain gave the impetus. They feel he would be pleased over in the Beyond to know that his comrades are carrying on the job to make people happier. And the listeners over WHAD, the Marquette University-Milwaukee Journal station will be glad to welcome back a feature of the programs they have sadly missed.

There's a corking good quartet and whoever thinks a smoke eater can't sing will learn something to his advantage by listening over WHAD when Tom Murphy, Joe Ross, Adolph Ketelholm and Tom Dugan are announced. Boy, they have volume and distance and harmony and there're there like a



four-eleven in a lumber yard or business district. Milwaukee has given a hint to broadcasting stations in other cities. Why not utilize the talent that sits in the stations day after day between fires? The boys like the fun of producing the music and the fans like to hear them.

Of course WHAD does not depend on the firemen for all of its talent. It seems that Milwaukee is simply overflowing with good music and good cheer. It is one of the traditions of the town. In the West Side Turner hall the old Turnverein has carried on its regular Sunday afternoon concerts for the past seventy-two years. These concerts are now broadcast by WHAD. One of the most popular Turnverein soloists is Helen Schnapp, a soprano with unusual microphone ability.

The four o'clock programs have become especially popular, not only in the city, but in the rural communities and the surrounding towns. Wisconsin

On Sunday afternoons comes the voice of Miss Helen Schnapp (left) over WHAD from the Turnverein while on Mondays at 4 may be heard Miss Jean Gora (below).



When Milwaukee and her neighbors dance at home they tune in the very excellent Stroebel dance orchestra (below) which is versatile, presenting not only the latest jazz but the more classic steps preferred by the sedate.



At left is the company of syncopating firemen preparing for a run to the WHAD studio. The late Captain Glander is seated with accordion. Everett Williamson (right) baritone.



sin is famous for its cheese and there are sections where its manufacture is the sole industry. From Monroe, where the annual cheese fair is held, comes a yodeling quartet which is one of the features of this four o'clock program. All four members of the quartet are natives of Switzerland. During the international tests they sang in the tongue of their fatherland.

Miss Jean Gora, dramatic soprano, and Everett Williamson, baritone from Racine, are two of the popular soloists. Miss Bertha Schaller is one of the violin soloists.

Home parlor dances for small parties are very popular in the vicinity of Milwaukee, and this is made possible in many homes by the Stroebel dance orchestra heard through the Radio receivers from WHAD of the Marquette University-Milwaukee Journal. This orchestra is up to the minute with the latest dances and also furnishes more formal numbers for the more sedate dancers. It draws the line on the remote Ford toddling. From the Marquette University studio may be heard the concert of the Adelphi orchestra.

A great deal of comment has been made concerning the remarkable clarity of music as it has been picked up by remote (Continued on page 8)

“Yo-ho-ho!” Sing Pirates Bold

PIONEER BROADCASTER, WJAZ, Defies “Autocrats of the Air,” Makes Minion Walk Plank and Lays Down Brass Band Broadside on Canadian Wave.

FOREWORD: Lieutenant Commander Eugene F. McDonald, commissioned by the United States Navy, sea rover and adventurer into the far north, where he rendered valuable service in the cause of science, has been declared an air pirate by the forces of the government. Returning on his good ship Peary, which had carried him to within eleven degrees of the pole, he received scant courtesy from those who are in power in Washington. He launched his new broadcaster from the Chicago quays, and although she took the air under that pioneer pennant, WJAZ, she was allotted but two hours out of a week's schedule. Chafed by these restrictions, the Commander snapped his fingers at the Department of Commerce and appropriated a Canadian wave which he deemed would cause little grief to any outside the department at Washington. He was then charged with piracy of the air, threatened with a felon's cell and the confiscation of his station. And so our story begins.

HIGH in his conning tower the thirteenth district inspector crouched over his wave meter tester and scowled. And the longer he looked the more he scowled until finally the black cloud on his brow burst into a storm of fury.

“They're off again!” he snapped, sharply and vividly like chain lightning. “Who?” inquired an assistant with glazed hair and slightly worn patent leather shoes, who stood at a respectful distance and toyed a pencil between his pearly teeth.

“Never mind, 'tend to your work. I knew it, expected it, they're pirates, air pirates. I told you to get Francis. Why haven't you gone? Must I stand here yelling at you all day to get you to do anything? Go! Go! Great jumping Jehosophat, when in the name of Christopher Calliope Columbus—” The inspector was bending over the meter tester.

“Aye, aye, sir!” A fluffy-haired blond, note book in hand, jaws oscillating, stood at attention.

Pilot house (right) of the WJAZ, where the buccaneering crew made ready to swoop down on their unsuspecting prey. And here they are (below) ready for the dirty work. From the left, George Hivoltz Smith, mate; R. Cutthroat Herriek, engineer; Sharktooth Matthews, announcer; Dagger Price, studio operator, and Skull-bones Selleck, station operator. All set for action.

“Very well, Francis. Sit down—and give your chin a rest.”

The fluffy-haired blond drew up a chair and paused, before sitting, to deposit his quid of Jolly Tar in the tall brass goboon at the end of the table.

“Aye, aye, sir,” he said, solemnly wiping the corners of his mouth with a sepia-tinted hankkerchief. “What is it, sir?”

“Told you they're off! They're off! How many times—”

“Yes sir. Yes sir, I was just lookin' at the tape myself. It's only the first race. I gotta bet on Jazzbaby for place in the fifth. I know a bookie—”

“Don't Jazzbaby me! To blazes with the races! I'm talking about these almighty pirates—”

“Beg pardon, sir. With the start they're gettin' the pennant oughta be a—”

“I said WJAZ! WJAZ! They're off their wave. They've pirated a foreign wave and the chief has forbidden. Take a letter; no, a telegram. You chew too much, Francis. Try stogies but don't swallow them. Are you writing that? For Pete's sake, amen!”

“Aye, aye, sir!” Then Francis took the telegram addressed to the chief.

In his high paneled office the chief, in Washington, was dictating orders to six stenographers. Three boys stood in a line to carry messages. The chief opened the telegram from the inspector. In one bounce he hit the ceiling. Coming down to port on the edge of his chair he began to sway and his mouth flew open.

“Who am I? What am I? Why do I sit here? I regulate the air and it is not regulated. Who cares



Baritone broadside from the pirate broadcaster, WJAZ, by Hivoltz Smith.

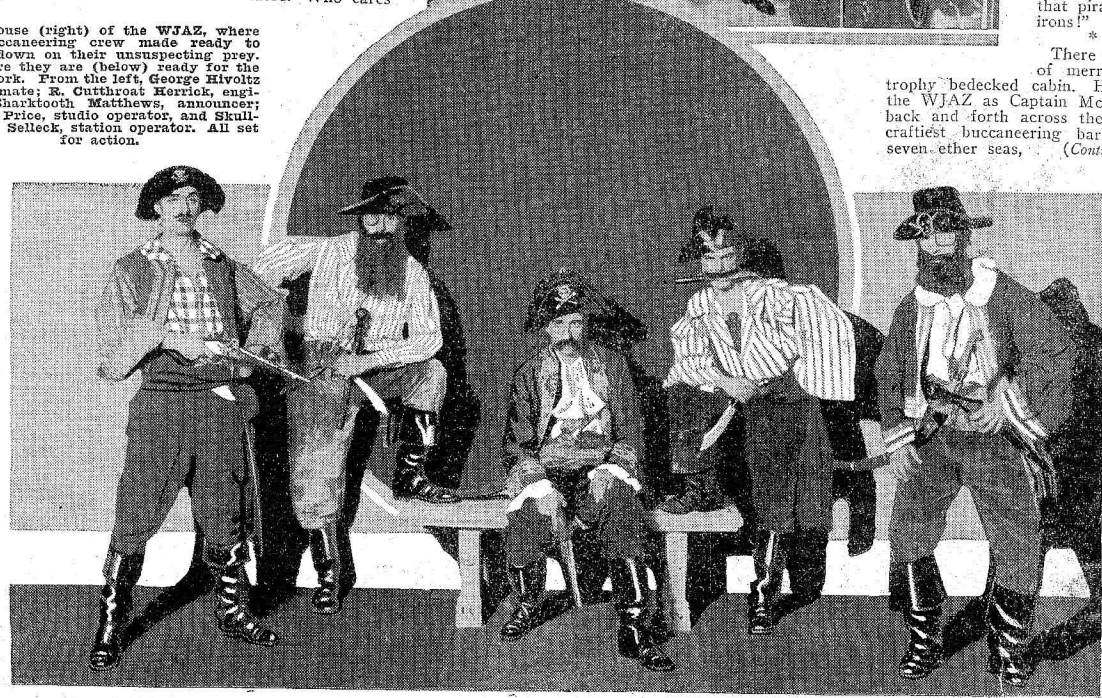


what I say? Am I to be laughed at? What?”

“Aye, aye, sir.” The first boy, not being quite certain what he should say, followed the usual formula.

“What? Even you!” The chief might have been Julius Caesar speaking to Brutus as the latter wiped his bloody blade on his sleeve. “But I shall see who's who and what's what and who is running this air. I'll have that pirate thrown in irons!”

There were soups of merriment about the trophy bedecked cabin. Hivoltz Smith, the WJAZ as Captain McDonald paced back and forth across the floor of his craftiest buccaneering baritone on the seven-ether seas. (Continued on page 8)



PELEG ON the STAIRS

By ROBERT J. CASEY

Radio Dramatization by FRED SMITH

Illustrations by HILMER C. OLSON

Synopsis of Preceding Chapters

IN THE first four episodes of "A Step On the Stairs," which are now available for 25 cents in a special reprint, we find a group of a dozen members of the Turner family in the hunt-room of the old Turner mansion. They are nerve-strained and very jumpy as the result of a number of weird incidents connected with the attempted seizure whereby Peter Turner, the last of the house to die, attempts to speak from beyond the grave through a radio loud speaker and tell them who killed his brother, Jeremiah. Ardwyn, the lawyer, presides. Mary Williams seems to be involved in most of the strange events, and the finger of suspicion is pointed at her by Aunt Helen, a nobody and cousin. Cousin William, companion to Aunt Helen; Hazel Stanton, a girl whose relation to the family does not seem entirely clear, and Henry Graves who offers his protection by marriage. His offer is spurned. In the last episode John Carton, apparently Mary's accepted lover, appears in the room after the others have left for refreshments in another part of the house. Mary had fainted when she thought she felt the corpse of Peter Turner entering the room through the front door, supposed to be barred except for the passage of the dead bodies of Turners going to their final resting place. Ardwyn left to get her a sedative. Hari Singh, the East Indian servant, unexpectedly becomes an ally of Mary when Carton, who seemed to be trapped by an suspicion of the crime, is about to be trapped by other members of the party. The servant lets Carton out a side door.

Before Hari Singh is able to return, the other guests enter the room and demand an explanation of Mary as to the voice that had been heard. Hari Singh evades the questions briefly, but soon Hari Singh calls for help. He is discovered dragging in the body of a man which he said he had found outside the door in the snow. It is Milford Jones, with a fractured skull. He had disappeared earlier during the scene. While suspicious for the motives of his appearance are being cast about, F.Y.X. starts up. A number is rendered and F.Y.X. stands by for the ship's SOS. Suddenly—Peleg Turner's voice comes out of the loud speaker. He accuses Jeremiah's murderer whom he says is in the house and will pay the price "ere dawn."

THE STORY CONTINUES.

CHAPTER ELEVEN

Eleven and Thirteen

A MOMENT later it was impossible to distinguish one voice from another in the mad hysteria that swept through the dark. The shriek of Hazel Stanton died to a sob and men's voices, frankly panic stricken, took up her cry for release. Vainly Ardwyn called for order. The situation had passed beyond his hands. And then, unexpectedly, came a quieting influence from a new source.

It was the voice of Tolliver—bellowing but hilarious—that crashed to the teak rafters through the din of fear.

"Say, cut out the opera," he roared. "This place is getting battier than 'The Bat'." A few of the guests here and there ceased their noise to listen to him.

"What's the matter, Tolliver?" inquired Ardwyn when he could be heard. "Not a thing, Mr. Ardwyn; not a thing," declared the bellowing voice. "But it seems to me we're takin' quite a lot for granted here. Was that Peleg Turner's voice we just heard on the Radio?"

"Of course it was," moaned Aunt Helen Holmes. "I know it was. I'd know dear Peleg's voice anywhere. We all know it was Peleg Turner's voice—and him in his grave those four weeks..."

"Well, you have it on me," admitted Tolliver. "Me, I'm not so sure. It mighta been old Peleg's voice an' then again it mighta been Abd-el-Krim's voice—or pretty near anybody's voice—or somebody playin' a piano. With a loud speaker like this one you never can tell."

"It was Peleg Turner's voice!" This belligerently from across the room, presumably stated by Henry Graves.

"Who can prove it?" demanded Tolliver scoffingly. "A sawbuck to the man or woman who can show how any man dead or alive would be nutty enough to attempt to put over an idea on a mob of cuckoos like this."

"It was Peleg Turner an' him in his grave these—" Aunt Helen's wail was smothered in the protest of others who felt that their judgment was in question.

"Of course it was Turner's voice," broke in Cousin William Caryl. "Yes! Yes! Who else could it have been?"

There followed a mumbled argument and then a moment of silence through which Mary Williams' voice rose gently but firmly.

"I agree with Mr. Tolliver," she said. "I knew Uncle Peleg very well. I thought it was his voice in the loud speaker. But now I am not so sure."

"Miss Stanton thought it was," retorted Aunt Helen indignantly. "She recognized it just as I did, an' she's just as bright as others around here I could name. Mary Williams. Mary did not rise to the bait. Instead, she called suddenly to Ardwyn.

"LOOK out for Miss Stanton," she pleaded. "Don't let her get near the front door. Watch the front door."

"Let George watch the front door," suggested Tolliver. "Me, I ain't goin' to stir out my tracks until somebody gets this place restored to comfortable chaos."

"Miss Stanton is not in her chair," charged Mary Williams. "I am right where she was sitting and she is gone." "Let her go," bellowed Tolliver. "What difference does it make. We still have enough maniacs left to make the evening interesting. I smell something..."

"So do I," said Miss Williams. "Ether," diagnosed Tolliver. "Just what we needed to complete the program... What's that?... Somebody just put something into my hand."

"What?" demanded Ardwyn. "Leggo!" shouted Tolliver. "Leggo my hand... Aw, doggone... Somebody took it away again."

"Tolliver," called Ardwyn with a queer note in his voice. "Just who are you and what are you driving at?"

"Me, I'm a voice in the dark," replied Tolliver cheerily. "I'm a customer in a three-dollar seat wonderin' how all this is goin' to turn out. If you're askin' me, I've seen worse shows but I ain't been actin' in 'em."

He halted as if with a sudden swelling of the tongue as a stream of light struck him squarely in the face.

"An electric flash lamp," shouted Ardwyn. "Who had that? Who turned it on?"

"It's out again," murmured Tolliver regretfully.

"So far as I know, nobody who came into this room tonight carried a flash lamp," Ardwyn stated calmly. "It wasn't in evidence a moment ago when we needed it. Now I should like the person who is holding it to turn it on again and identify himself."

"Hari Singh!" repeated Ardwyn impatiently. "Open the door and get us a light."

"Where are the matches?" asked Tolliver evenly. "It might be a good start to light our own light. We could yell for Hari Singh afterward."

"The matches were on the table a minute ago," returned Ardwyn. "They're gone now... and, ladies and gentlemen, something is amiss here. I do not wish to alarm you but we had better come to an understanding about the matter right away."

"WHEN this seance started we were all grouped about the table. With very few exceptions we should be in the same positions now."

"I should like to have you draw your chairs closer to the table. A sound of moving furniture gave him an immediate response."

"Very well," he said. "Now every one of you will take the hand of the one next to you on both sides, thus making a human chain about the table. If the chain is complete, everyone should have both his hands occupied. If anyone has one hand free, call out."

"All O.K. here," came a report from Tolliver. "Just what kind of a game is this, anyway?"

"Be still, Tolliver," begged the attorney. "Is there anyone who seems to be at a break in the chain?"

"Not on this side," whispered one of the women.

Ardwyn hesitated a moment and then resumed.

"Well, now," he said. "I shall break the chain here and I shall make a circuit about the table to call the roll. I shall touch the head of each of you in passing and I shall count aloud. This gentleman on my right is number one... The lady to the right of him is number two..."

He paused with a sudden intake of breath.

"But you haven't finished," came a horrified voice. "There's someone next to me..."

"There's us," gasped Ardwyn. "You are right. Here is number twelve..."

And another still—thirteen!

"There should be eleven of us here... There are thirteen!"

He repeated the total in an awed tone.

"Thirteen!" And only a terrified moaning broke the silence.

CHAPTER TWELVE

Lights Out

FOR the first time since the invited twelve had gathered in the gloomy hunt-room to keep their weird tryst with death, Frederick Ardwyn was plainly nonplussed. For a chill minute there was no sound of a voice, only the muffled moaning of some woman semi-conscious and apparently afraid to scream lest she attract the attention of the two unidentified visitors. Then, somewhat shaken and making no attempt to conceal his emotions, Ardwyn called loudly for Hari Singh.

As before, his call echoed in the long room without response.

"Can't anyone find the matches?" he called. "Break the chain and look for the matches. They should be on the floor somewhere near the candlestick." "Maybe we're better off in the dark," suggested Tolliver. "No telling what our new friends look like."

"Shut up and look for the matches," ordered Ardwyn.

"I'm looking," replied Tolliver. "So is everybody else. This is my hunting ground, you—get off my hand! That's the second time somebody has walked on my hand..."

A generator hum sounded in the Radio.

"Quiet a moment," counseled Ardwyn. "There's something on the Radio again."

"Me, I've heard enough Radio," declared Tolliver from under the table. "Get off my hand—doggone it—a man ain't safe even under the table in this place."

"This is Station F.Y.X.," came the voice from the loud speaker. "Station F.Y.X. signed off a few minutes ago at the request of the coast guard to avoid interference with an SOS call from a boat on Pelican Bay. This station will resume transmission in five minutes. The coast guard station reports a mystery in connection with this call. The ship to which it was traced apparently was not in distress at all. She was



He halted as if with a sudden swelling of the tongue as a stream of light struck him squarely in the face.

There was no response. "Please don't make a joke of this, ladies and gentlemen," the lawyer begged. "We have had enough mystery tonight and it is essential that we know who turned on the light..." But his plea ended in the unfathomable silence. "Hari Singh," he called. "Where is Hari Singh?" "Humph, just what I thought," commented Aunt Helen. "The heathen has locked us in an' gone off somewhere. You might know he'd be mixed up in the scandalous doin's someway."

"What ought to be the total?" inquired Tolliver. "There were eleven of us in this room when the doors were locked," explained Ardwyn significantly. "Here are numbers three and four... and five and six..." "That makes me number seven," said Tolliver. "Hurry up your game. I'm at the end of the table and it's a long reach between hands." "A lady—number eight," counted Ardwyn. "Two gentlemen—nine and ten. And I can count myself as eleven..."

overhauled in an attempt to slip through the narrow without lights. It is believed that the call was sent out to create a diversion and draw the attention of the coast guards while some other craft made a landing of contraband somewhere on the bay front. Please stand by a few minutes for our studio program which will be resumed from our studio in Portsmouth."

Tolliver laughed. "Booleggers," he commented. "All this riot about some numb wits tryin' to land a lurch-ful o' hooch..." "Ardwyn, are you sure you counted right?"

"GET the matches, you fool," countered Ardwyn. "You heard me count. Nobody could have changed places without breaking the chain. The break would certainly have been noticed. There are thirteen persons in this room where there only ought to

be eleven and we'll never know who they are until we get a light."

"Who can they be?" whispered Cousin William Caryl.

"Who am I to say?" replied Aunt Helen Holmes. "All I know is I been actin' a lady ever since I came into this den of evil. An' all I'm prayin' is I get out again."

Her voice cracked for all that she spoke in the mechanical sing-song of the professional exhorter. It was a whimper toward the end.

"Murderers, probably, Cousin William," she said. "Murderers come to kill us all just like Cousin Peleg Turner said they would. Listen. . ."

"I can't hear anything," observed Cousin William. "Nothing but this bull of Bashan under the table cursing about somebody stepping on his fingers."

"Keep close to me, Cousin William, keep close to me. I'm afraid. Pray for a light, Cousin William. Pray for a light."

"If some of you people will let me up we'll see what's going on here," announced Tolliver, exultantly. "I think I've found the matches. Leggo of me. Leggo. . ."

His voice choked off in a surprised gurgle and there came a crash of a breaking chair and a shriek.

"Two can do that," he gasped a moment later, his voice strained until almost unrecognizable. "There's one for you." A second crash sounded through the room.

"The murderers," screamed Aunt Helen. "They're killing him!"

"Leggo my neck," commanded Tolliver. Another unearthly shook the table and nearly overturned it.

"Quick—Mr. Ardwyn—quick—on the table. There they are. The matches—I got him now—I got him now. . ."

And then came the slipping feet on the oaken floor and the labored breathing of the fighting men.

"I have the matches," shouted Ardwyn. "Hold him a second. . . just a second. . . We're eight to two. . ."

"Don't light that match!" came a harsh command from close to his elbow. "I'll shoot to kill at the first flicker."

While waiting for the amazing complications to be brought out in the next installment of this remarkable Radio mystery story, try to figure out these questions: Was it the odor of ether that Tolliver thought he smelled? Whose hand held the flash light? Who fought with Tolliver and threatened the first to strike a match? Don't miss a line. Get the next issue as soon as it appears.

LEGION RADIO POST MEETS EACH WEEK

Veterans of World War Not Living Near Organized Chapter Are Eligible for Membership

OKLAHOMA CITY, Okla.—The only American Legion Radio Post in the world holds its weekly meeting every Saturday night at midnight through Station KPHK, here. The post is convened and adjourns in due form and for an hour business is transacted and entertainment enjoyed.

Anyone who saw service in the World war, and who lives where there is no regular post, is eligible to membership. The dues are the same as those of a regular post, \$3.00 per year, giving the membership certificate, the American Legion weekly and the Oklahoma legionaire.

Get On Killer's Trail and Follow It to End

Last Chapters of Mystery Play Hold Many Clues

Do your mystery story sleuthing early—but not too early.

Many last chapters to "A Step on the Stairs" have already been received by the Mystery Story Editor of Radio Digest. But they are premature. No one can, from the facts already in hand, reasonably draw safe conclusions as to the real culprits, nor as to the innocence or guilt of the characters thus far introduced.

Some big surprises are in store for the final installments. Thrills of a new kind, not yet presented, will startle both readers of the story as it now is appearing weekly in Radio Digest and listeners of the drama as it is heard from the various broadcasting stations.

Take this tip. Study every fact thus far revealed from the first chapter to the current issue. Compare the data thus obtained with the new facts to be developed. Match them one against the other. And when you have all of this material together draw your deductions and write that chapter. It's a business proposition. Get it right and Radio Digest will give you a share of the \$500 reward.

Get the murderer of Jeremiah Turner, dead or alive, and collect the reward!

\$500 in Gold FOR THE SOLUTION OF "a Step On the Stairs" REPRINTS NOW AVAILABLE

SO MANY people are attempting to win part of the \$500 in Gold prizes which are being offered for solutions to "A Step On the Stairs," a reprint of the first four installments has been printed and may be had for the nominal charge of twenty-five cents, in coin or stamps, to cover the cost of handling. Address your order to the Mystery Story Editor, care of Radio Digest.

The chosen stations, which are broadcasting "A Step On the Stairs," in Radio play form, are given on page eleven. The days and the hours are listed.

THE PRIZES

The prizes are seventeen in number. First prize is \$250; second prize is \$100; third to seventeenth prizes inclusive, are \$10 each. In the event of a tie for any prize offered, a prize identical in all respects with that tied for will be awarded to each tying contestant.

HOW TO WIN A PRIZE

Nine installments of Mr. Casey's story will be published consecutively

each week. The first appeared in the February 27 issue. His tenth and final installment will not appear until the prize winning solutions have been selected by the judges. The solution nearest correct, that is, nearest to unravelling the mystery accurately, will win. The method of preparing the solution—its neatness, legibility, etc.—shall be considered.

RULES OF CONTEST

1. Solutions must be received not later than midnight of Saturday, May 1. The ninth installment of the story will appear in the April 24 issue. The author's intended and final chapter will appear in the May 15 issue, together with the announcement of the winners' names.
2. The contest is open to everyone except employees of Radio Digest and their families.
3. Contestants pay no fee and need not be subscribers to Radio Digest. Solutions, however, must be written upon one side of paper.
4. The decision of the judges, to be named later, will be final.

Radio Club Notes

The committee back of the movement to establish a Radio Listeners' club in Evansville, Indiana, communicated with Radio leaders of Cleveland and Indianapolis to obtain detailed information so they could go ahead right. Edward Birdsell, at the head of the Listeners' club of Cleveland, was asked for aid and gave it gladly. Station WFEM of Indianapolis, has also helped the cause. On receipt of exact data from various other sources, the first meeting will be called for adoption of a constitution and election of officers. Indications are that membership will quickly run into the hundreds.

"Montgomery for Better Radio Reception" is the enterprising slogan of the Montgomery (Pa.) Radio club. This club was organized March 3, with 150 members at the first meeting. The president is Joseph Shelley and the vice-president is Harold E. Miller. It is surprising how much Radio interest and desire for improvement in receiving conditions there is in any locality, once somebody starts the ball rolling for the formation of a club.

Janesville (Wis.) Daily Gazette is organizing a club to decrease radiation in that locality and has now joined the long list of newspapers reprinting the Radio Digest blooming series.

Of the thousands who have sent in "I Won't Bloop" pledges, we must put down Harold Shields, Petersburg, Alaska, as being the first to help the cause from this far away state. Antonio Gomez is our first member from Havana, Cuba. Our Mexican friends seem to have been too busy settling who gets the oil profits to join as yet, but there is still hope.

Pennsylvania certainly came through this week and told us what it was doing. Even the dealers have organizations interested in improving Radio reception and recently the Williamsport (Pa.) Radio Dealers association, at one of its weekly dinner meetings, invited Lewis W. Heath, manager of the Pennsylvania Power and Light company, to tell them what his company was doing to eliminate any interference it may have been causing. George Knoll, trouble shooter for the power company told those in attendance of several interesting cases that had been settled satisfactorily.

Getting back to the home town for a moment. Compelled by its rapid growth to seek larger quarters, the Broadcast Listeners' Association of America, Inc., has located in suite 927, 431 S. Dearborn street, Chicago. It is claimed for this organization that it is America's original Radio fans' club, and there is no doubt of its being the largest outfit of its kind. Officers or members of the staff will be on duty every business day to receive callers and answer mail inquiries. A private branch exchange, Harrison 3527-3523, provides for prompt phone service. The B. L. A. now has local chapters in 23 states. The yearly fee for associate membership is one dollar, and five dollars is the cost of an active membership.

YO-HO-HO SING PIRATES

(Continued from page 5)

sang clear above the rest. It was the "Pirate's Dream." And thus he sang: "Fifteen men on a dead man's chest—Yo-ho-ho and a bottle of rum; Blooders and static had done for the rest—

Yo-ho-ho and a bottle of rum. The tenor croaked at the boss's mike, The boss's brained by a grounding spike; The bass's throat was sprained belike, It had been gripped by fingers ten.

And there they lay, all good, dead men Like break o' day in a boozing ken— Yo-ho-ho and a bottle of rum."

Then, as the captain paced back and forth, there came a tapping at his cabin door.

"Come in," he said in his deep sea voice and paused expectantly. A tall, heavy-set man in a long raincoat, a drooping black hat and number 14 shoes crushed his way into the room. Striding boldly up to the captain he demanded:

"Are you Captain McDonald, the skipper of this WJAZ?"

"Aye, sometimes I have been so called," smiled McDonald.

Portwith the stranger pulled from his pocket a summons and began to read.

"And you are therefore commanded," he was reading, when the captain interrupted: "Forsooth, where do you get that stuff I am to be commanded, aboard my own brig?"

The minion continued to read without so much as lifting his eyes.

"You are finished?" asked the captain at last. The man tendered the folded paper. The captain struck a gong. Two bearded giants stepped into the room, and as villains a looking team as ever you might find from Yucatan to Timbuctoo. They were armed with cutlasses and dirks and between the two of them they had but two good eyes, the others doubtless gouged out by some drunken brawl or fight on tempest wave.

"Escort the gentleman from the station," ordered the captain. There was the merest shade of a twitch of the commander's right lid and an arch of the brow.

"Aye, aye, sir," that ominous response. An understanding flash passed between those two widowed eyes. The men stepped forward and took the minion by either elbow. He reached for his hip but his hands were caught in lion jaw grips and he found himself moving briskly, his feet scarcely touching the floor. They steered him to the plank that jutted out forty fathoms above the bottom of the ether sea. A hatch door slammed, the plank flipped and the minion stepped into space, floating downward to the waiting scullions who stood ready with mops and pails.

"Wave ho!" Sharktooth Matthews, the lookout announcer, called down from the forward tower. Captain McDonald stepped to the rail in front of his cabin.

"What wave, ho?"

"A 'C'; she is makin' it at 329.5 meters. Leastwise, she flies the Union Jack."

"We'll take it," replied the captain.

"Put about, nor'bor'west and nail her square. Bring out the forty-eight brasses and tell Hivoltz to let go when ready."

WHAT SHOULD RADIO RECEIVER AVERAGE?

HOW MANY STATIONS DID YOU GET LAST YEAR?

Conditions Surrounding Reception Affect Answers, But Here Are Few Marks for Records

How many stations should a set receive? What is the average? What are a few of the records?

These questions are very popular with listeners. Probably fans with less than one year's listening experience are most apt to ask them, but all are interested.

As a matter of fact, so many conditions enter and affect the answers that no generalizations can be made. Location, congestion of broadcasters, type of set used—all must be considered.

The minimum number of stations received by a good set in an average location, however, should be about eighty. However, if you haven't eighty stations on your log, don't take your set back to the dealer and complain. More than likely conditions are set against you and it is not the set's fault.

What a Few Have Done

During the last year, without solicitation, Radio Digest has received a number of records of reception from its readers. Some of these lists are truly records. Others were not. Would you like to know what some of these fortunate listeners were able to do?

- Here are the twelve best:
1. J. E. O'Brien, 28 Dyer Road, Milton, Mass., has logged 402 stations, using a 3-tube regenerative set.
 2. J. M. Conrad, Ottawa, Kans., 395 stations, 3-tube regenerative.
 3. Mrs. V. A. Johnston, 150 Orchard St., Baraboo, Wis., 345 stations, 5-tube neutrodyne.
 4. F. W. Dolley, Lyons, Colo., 326 stations, 5-tube radio frequency.
 5. Hayden Auto Co., West Newton, Pa., 265 stations.
 6. A. A. Franzen, Box 100, Clear Rapids, Neb., 296 stations.
 7. L. S. J. Cranse, 22 South St., Summit, N. J., 288 stations.
 8. F. L. Nelson, 1069 Ashlenee St., Pittsburgh, Pa., 277 stations, single tube regenerative.
 9. Howard Stowell, 8814 Kimberly Ct., Detroit, Mich., 241 stations, single tube regenerative.
 10. W. A. Leuro, Montreal, P. Q., Canada, 235 stations.
 11. Raymond McGillis, 1728 Iowa Ave., 221 stations, single tube regenerative.
 12. Ross Hanch, Route 7, Baraboo, Wis., 203 stations, single tube regenerative.

With a crash and a blare all forty-eight brasses, the woodwinds and drums of the staff band hurled salvo after salvo over the "C 329.5."

"A hit!" shouted the captain. And the cry echoed down the ether lanes, from Hudson Bay to Cape Horn.

"Pirates! If this be piracy, then are we pirates and pirates we shall continue to be until the crack o' doom," he added.

And the day came when the captain was indeed hailed before the high court.

"With apologies to the Honorable David Lloyd George," said he, "I ask, what finger wrote the law that makes us pirates in the free air of America?"

Thus the matter stands to this day, with laws and laws and proposals of laws before the national congress and the state. But WJAZ still sails the ether seas and she rides the waves as she wills. The inspectors and the chiefs still bluster and fume but beyond that there is little complaint to be heard, for the pirate captain takes good care not to intrude obnoxiously into the homes of the listeners.

FIREMEN TURN ON MIKE

(Continued from page 4)

control from the famous Saxe Wisconsin theater through WHAD. The explanation seems to lie in the generous distribution of microphones placed where they will pick up the little stray notes generally lost in the average theater broadcast. It is claimed that twenty-one microphones have been placed in carefully tried out positions so that every tone is recorded and reproduced in the receiver.

The most distant point at which WHAD has been heard is Tahiti, 6,600 miles from Milwaukee. The management early established a rule prohibiting the announcement of names of persons who write in for request numbers or similar purposes.

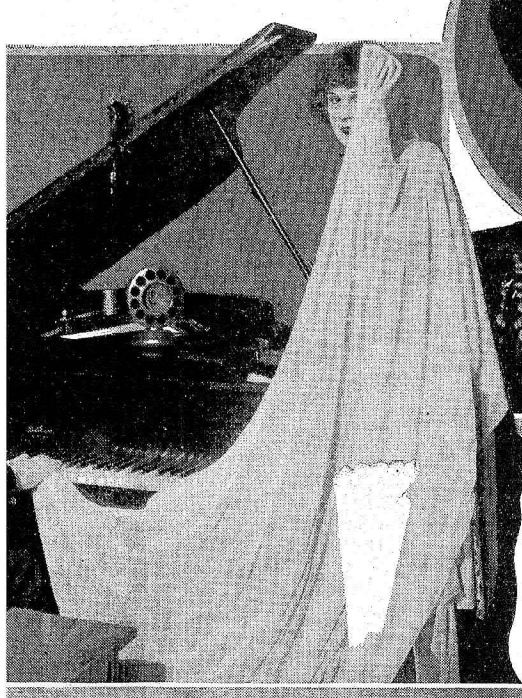
But, have a heart; don't ever start a fire you can't put out while the fire laddies of Milwaukee are on the air, that is, if it is your intention to turn in the alarm through a Milwaukee station. Because if you should, the chances are the music would stop so suddenly you'd think it was your receiving set that was ablaze and the rest of the listeners never would forgive you.

Upton Sinclair Would Have State-Owned Radio Station

SACRAMENTO, Calif.—A state newspaper, a state bank and a state Radio broadcasting station would be established by Upton Sinclair, the Pasadena author, if he were elected governor, the recently announced Socialist candidate for that office announced in a formal statement of his platform received in Sacramento.

THIS YEAR IN EASTER OBSERVANCES

is Phantoms of KPBC, below. They entertain in their Saturday night from the topmost point in the City skyline studios of the Houston Post-Dispatch. Phantoms blond of vanderlike fame, is risking one eye to impanion are very much alive. When Albert Stossel onto society appear over the WEAF chain Sunday, is the soprano soloist. Grace Denison Schaffer, right, who directs the Sunshine programs at WOAW.



FARMERS' PROGRAMS INDEX

Farmer Dinner Concerts			
Daily Except Sunday			
CENTRAL TIME			
<p>KFNB, 12:15-1:35 p. m. KMA, 11:30-12:30 p. m. KSO, 12:30-1:30 p. m. WLS, 12 noon.</p>			
<p>Saturday, April 3</p> <p>Eastern Central Mountain Pacific 1 p. m. 12 noon 11 a. m. 10 a. m.</p> <p>KPBC (296.5m-1010kc) Farmers' educational and musical 12:45-1:30 p. m. 11:45 10:45 WOI (270m-1100kc) Soils, questions and answers. 8 7 6 p. m. 5 p. m. KDKA (309.1m-870kc) Farm program. 8:30 7:30 6:30 KFAU (280.2m-1070kc), Agricultural talk, question box. 12:35 12:35</p>			
<p>Sunday, April 4</p> <p>Eastern Central Mountain Pacific 9:30 p. m. 2:30 p. m. 1:30 p. m. 12:30 p. m.</p> <p>WFAA (475.9m-630kc), Sunday hour for farmers. 12:35 12:35</p>			
<p>Monday, April 5</p> <p>Eastern Central Mountain Pacific 12 noon 11 a. m. 10 a. m. 9 a. m.</p> <p>WRC (468.5m-620kc) Fifty Farm flashes. 1:15 p. m. 12:15 p. m. 11:15 10:15 WOC (483.5m-620kc) "Rape—Our Greatest Emergency Poison for Swine." WFAO (293.9m-1020kc), Timely Economic Information for the farmer, C. J. West. 12:45 12:45 10:35 KSAC (340.7m-880kc) "Winning the Weed Controversy." WMAQ (475.9m-670kc), "Farm Flashes." WOI (270m-1100kc) "Tuberculosis in Livestock." WMAQ (475.9m-670kc), Radio farm school. 5 p. m. 4 p. m. 6 WGY (379.5m-790kc) Agricultural program. 7:45 6:45 5:45 4:45 WROE (246m-720kc) Hog Raising. 5 5 WOS (449.5m-680kc), Livestock questions and answers. WTAG (267.7m-1200kc) "Grape Growing." 8:30 7:30 6:30 5:30 KFOA (290.3m-1070kc) "Farm Flashes," Cy Adams; "Weaning, Vaccination and Castration of Spring Pigs." "How One Farm Woman Improved Her Home." "The First Cultivation of the Cotton." 8:45 7:45 6:45 5:45 WRC (418.5m-620kc) Farm lecture. WOI (270m-1100kc) "Have You Planned Your Garden for 1936?" 12:45 12:45 10:35 KMPR (238m-1200kc) "Intensive Farming." KOAC (280.2m-1070kc) Agricultural question box. 10:30 9:30 8:30 7:30 KOAC (280.2m-1070kc) "Raising Sheep on Logged Lands." KWSC (318.6m-860kc) Washington Farm Situation. 10:45 9:45 8:45 7:45 KFOA (290.3m-1070kc) "Suggestions to Garden Club Workers." 11:45 10:45 9:45 8:45 KGO (261.2m-800kc) Farm program, "Agricultural Outlook." 12:45 12:45 10:35</p>			
<p>Tuesday, April 6</p> <p>Eastern Central Mountain Pacific 12 n. (11 a. m.) 10 a. m. 9 a. m.</p> <p>WRC (468.5m-620kc) Fifty Farm flashes.</p>			
<p>Wednesday, April 7</p> <p>Eastern Central Mountain Pacific 12 noon 11 a. m. 10 a. m. 9 a. m.</p> <p>WRC (468.5m-620kc) Fifty Farm flashes. 1:15 p. m. 12:15 p. m. 11:15 10:15 WOC (483.5m-620kc) Special Farm Service Day. KSAC (340.7m-880kc) Farmers' Radio Chautauque. 1:35 12:35 11:35 10:35 KFOA (290.3m-1070kc) "Practical Farming for Hogs." "The Baby Buss." 1:45 12:45 11:45 10:45 WOI (270m-1100kc) Agricultural Economics. 8 7 6 p. m. 5 p. m. WOS (449.5m-680kc) Evening Market hour, Dairy questions and answers. 8:15 7:15 6:15 5:15 KFOA (290.3m-1070kc) Farm talk. 8:30 7:30 6:30 5:30 WOC (483.5m-620kc) Question box. 8:45 7:45 6:45 5:45 WFO (416.4m-620kc) "Landscape Gardening—Plant Material for the Home Garden."</p>			
<p>Thursday, April 8</p> <p>Eastern Central Mountain Pacific 12 noon 11 a. m. 10 a. m. 9 a. m.</p> <p>WRC (468.5m-620kc) Fifty Farm flashes. 1:15 p. m. 12:15 p. m. 11:15 10:15 WOC (483.5m-620kc) Special Farm Service Day. KSAC (340.7m-880kc) Farmers' Radio Chautauque. 1:35 12:35 11:35 10:35 KFOA (290.3m-1070kc) "Practical Farming for Hogs." "The Baby Buss." 1:45 12:45 11:45 10:45 WOI (270m-1100kc) Agricultural Economics. 8 7 6 p. m. 5 p. m. WOS (449.5m-680kc) Evening Market hour, Dairy questions and answers. 8:15 7:15 6:15 5:15 KFOA (290.3m-1070kc) Farm talk. 8:30 7:30 6:30 5:30 WOC (483.5m-620kc) Question box. 8:45 7:45 6:45 5:45 WFO (416.4m-620kc) "Landscape Gardening—Plant Material for the Home Garden."</p>			
<p>Friday, April 9</p> <p>Eastern Central Mountain Pacific 12 noon 11 a. m. 10 a. m. 9 a. m.</p> <p>WRC (468.5m-620kc) Fifty Farm flashes. 1:15 p. m. 12:15 p. m. 11:15 10:15 WOC (483.5m-620kc) Special Farm Service Day. KSAC (340.7m-880kc) Farmers' Radio Chautauque. 1:35 12:35 11:35 10:35 KFOA (290.3m-1070kc) "Practical Farming for Hogs." "The Baby Buss." 1:45 12:45 11:45 10:45 WOI (270m-1100kc) Agricultural Economics. 8 7 6 p. m. 5 p. m. WOS (449.5m-680kc) Evening Market hour, Dairy questions and answers. 8:15 7:15 6:15 5:15 KFOA (290.3m-1070kc) Farm talk. 8:30 7:30 6:30 5:30 WOC (483.5m-620kc) Question box. 8:45 7:45 6:45 5:45 WFO (416.4m-620kc) "Landscape Gardening—Plant Material for the Home Garden."</p>			

DANCING

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Saturday, April 3	8:30	Wear, Wey, Wgy
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Friday, April 9

WGN, Chicago, Ill. (302.8m-900kc), 6:30-6:45 p. m., Drake concert ensemble, Blackstone string quintet, 6:45, old-time favorites; 6:55-7, the Millionaires; 8:30-9, WEAF; 9:30-9:45, WGN; 10:10, studio program; 10, Sam 'n' Henry; 10:10, old-time favorites; 10:20, the Play Shop; 10:45-11, studio ensemble.

WHAS, Louisville, Ky. (399.8m-750kc), 7:30-9 p. m., Louisville Music and Radio company.

WHL, Kansas City, Mo. (365.8m-820kc), 7-8 p. m., Sorensen Radio orchestra, popular music.

WHO, Des Moines, Iowa (526m-570kc), 7:30-9 p. m., program, Drake University conservatory of music; 11-12, Youkers Tea-Room dance orchestra.

WHT, Chicago, Ill. (399.5m-750kc), 8 p. m., classical program; dinner organ recital; Al Carney, Grayling's string trio; Helen Raub, pianist; Charles Hussey, bassist; 6:50, Ray-O-Vac concert; 9:15, Cincinnati Cafe orchestra; 9:30, Southern Girls; 10:05, "Crucifixion"; 12, Pat Barnes and Al Usany.

WIBO, Chicago, Ill. (225.4m-135kc), 6-8 p. m., dinner concert; string trio; Joe North, baritone; Mary Thrash House, pianist; Elsie Orr, soprano; 10-3 p. m., popular program; Ted Florio, pianist; Day Hasso, violinist; the Jordans; Melody strummers, Tony Corson, Ed Miller.

WID, Massena, Ill. (370.2m-810kc), 12-1 p. m., Palmer House symphonic players; trio; 2-3, organ hour; Howard L. Peterson; child artists; assembly of 1,200 children; 6:30, instrumental hour; Palmer House symphonic players; Jack Nelson; Victorians, 6:30, Billy Van; 8:30, children's hour; 10:11, feature hour; Scouters Harold C. Keschners; Palmer House Victorians; Jean St. Amie; 12:30 a. m., Knights of the Burning Candle.

WIS, Chicago, Ill. (302.8m-800kc), 7:30-8 p. m., musical program; 11-11:30, Correll and Gosden; 11:30-1 a. m., ensemble, dance music; harmonica duo.

WLS, Chicago, Ill. (344.5m-670kc), 6:40 p. m., College Inn orchestra; 7:45, Ralph Emerson, organist; 8:30, College Inn orchestra; 9, Theresa Hensling, contralto; Harold Van Horn, pianist; 9:30, College Inn orchestra; 10, Ralph Emerson, organist.

WMAQ, Chicago, Ill. (447.5m-670kc), 6 p. m., Chicago theater organ; program; 8:30, St. Francis church choir; 9:25, program; 9:55, chimes.

WMBB, Chicago, Ill. (249.5m-120kc), 7-8 p. m., Yeha Cook, contralto; Rosalind Wallace, violinist; Arvid L. Anderson; Frank Bordner; 9-11, orchestra, male trio.

WMC, Memphis, Tenn. (499.7m-600kc), 8:30 p. m., Cooper's Hawaiians; 11, frolic.

WDAW, Omaha, Neb. (526m-70kc), 6:20 p. m., Francis Potter's band orchestra; 6:30, Gilbert Daffy, violinist; Nat Young, pianist; Karl Tunberg, pianist; 9, Puritan program; 10:30, Frank Bodek and his Nightingale.

WOC, Davenport, Iowa (493.6m-520kc), 5:45-9 p. m., chimes concert; 8:9, Sidney Milbanks, baritone; Miss Frank Elliott, organist; Harry Yeazelle Mercer, tenor; 10:30, "A Step on the Stairs," Episode VI, mystery serial.

Atwater Kent Program, April 4, over WEAJ and Chain*
Albert Stoessel directing the New York Oratorio Society

1. "Christ the Lord Is Risen Today".....Traditional
2. "By Early Morning Light".....Reimann-Dickinson
Early Seventeenth Century Easter Hymn
3. "Hallelujah Chorus" from the "Messiah".....Handel
4. "How Lovely Are Thy Messengers" (from "St. Paul").....Mendelssohn
5. "The Promise Which Was Made Unto the Fathers".....Baeckstrom
Easter Anthem
6. Two Chorales.....J. S. Bach
(a) "Commit Thy Ways" (St. Matthew Passion)
(b) "Glory To Thee Be Given" (Sleepers, Awake!)
7. (a) "Laud Ye the Name of the Lord".....Bachman/nof
(b) "Glorious Forever!".....Bachman/nof
8. "I Know That My Redeemer Liveth" (from the "Messiah").....Handel
9. (a) "Phantasy on Three Favorite Easter Hymns".....Stoessel
Chorus and Easter Chimes
(b) "Unfold! Ye Portals Everlasting".....Gounod
(c) "Benediction".....Gounod
10. "The Strife Is O'er, the Battle Won".....Traditional

*The WEAJ chain for the Atwater Kent hour (9:15 p. m. Eastern time, 8:15 p. m. Central time) includes WEAJ, WOO, WGR, WCAE, WCAP, WJAR, WTAG, WGN, KSD, WCCO, WOC, WSAI, WEAJ, WBEI.

WOK, Chicago, Ill. (217.3m-130kc), 7 p. m., Canite theater organ; program; 10:15-11, "Ferry"; Town club orchestra; Husk O'Hare's Coconut Grove orchestra; Capitol theater program; program.

WOOD, Grand Rapids, Mich. (241.5m-124kc), 9-10 p. m., Yeate orchestra trio; 10-11, classical concert, 11-12, Regent Hour Radio frolic.

WORD, Batavia, Ill. (275m-1000kc), 7 p. m., North Shore Inc.

WQJ, Chicago, Ill. (447.5m-670kc), 7-8 p. m., Ralph Williams and his Rainbo Garden orchestra; Siegnard Levine, tenor; Florence Cato, soprano; Jean St. Anne, baritone; Christian Gianni, accompanist; 10-11 a. m., Ralph Williams and his Rainbo Stylarks; B. Lucille Long, harmonica player; Eleanor Perry, Harold Olson; Clark's Hawaiian trio; Johnny Post, baritone; Fred Taylor, tenor; articles; 1-2, Gluge hour.

WRR, Dallas, Texas (245.8m-1220kc), 6-7 p. m., Jack

Garner's orchestra; 8-9, Edith Seibez, violinist; 11-12, Hawaiian program.

WSB, Atlanta, Ga. (428.5m-700kc), 8 p. m., Spellman college giro club; 10:15, Vocalian Melody artists.

WSRT, South Bend, Ind. (275.1m-1090kc), 7:15 p. m., Wagoner, concert.

WSW, Nashville, Tenn. (282.8m-1060kc), 8:30 p. m., Francis Cray's orchestra; 8, Vanderbilt university; 10, Leon Frank male school.

WSGE, Milwaukee, Wis. (245.8m-1220kc), 9 p. m., Caudygram review.

Mountain Time Stations

CFAC, Calgary, Can. (435.8m-690kc), 7-8 p. m., salon broadcasts.

CNRE, Edmonton, Can. (516.9m-590kc), 8:30-10:30 p. m., studio program, Wall concert party, musical comedy selections; Theba Nehrting, mezzo-soprano; Dick, Edson Pogany and Arthur Geer; Jacques St. Victor, tenor; Geov Cornack, soprano.

KFXF, Colorado Springs, Colo. (250m-1200kc), 9 p. m., Russ Kemp's Baunomol College City orchestra.

KOA, Denver, Colo. (322.4m-590kc), 6:30 p. m., dinner concert, Brown Palace singing orchestra; 8, instrumental program, Scheneman's Colorado orchestra; 8:15, program, Barnes Commercial school, Denver concert quartet, vocal; KOA orchestra; Margaret Grubb, pianist; chimes.

KOB, State College, New Mex. (348.6m-860kc), 7:30-8:30 p. m., musical program, students, Las Cruces Union High school.

Pacific Time Stations

CNRV, Vancouver, Can. (291.1m-1060kc), 8:30 p. m., South Vancouver choir, Mrs. James D'Honn, contralto; Mrs. C. Power, soprano; G. Dawson, accompanist; 10-30, Cabaret Belmont orchestra; Belle Muller, soprano.

KFI, Los Angeles, Calif. (467m-640kc), 8:45 p. m., Radiational band; 7-7:30, Carlisle Stevenson's El Palo orchestra; 7:30-8, Jim, Jack and Jean trio; 8:9, Arrollan organ; Tim L. McFarland, organist; 9-10, studio program; Mutual Motors mirth contest; 10-11, Packard ballad hour.

KFOA, Seattle, Wash. (454.3m-600kc), 6-6:30 p. m., Atwater Kent boys, Doug and Fred; 7-8:15, Sherman Clay and company studio program; 8:30-9, bridge lesson; 9-10, Three popular program; 10-11, Jackie Sautler's Club Lido scenes.

KFON, Long Beach, Calif. (232.4m-1200kc), 7-8 p. m., program, Patton and Houtland company; 8:9, Press-Telegram studio; 9-10, studio program; 10-12, Long Beach JKS Ledda No. 888 frolic.

KFWB, Hollywood, Calif. (622m-1190kc), 8-9 p. m., program, John Wladis orchestra, Bill Blake, ballads, Raquel Nietz, soloists; soprano; 9-10, Len Nash and his Country Boys; 10-11, Warner Brothers Radio.

(Continued on page 16)

5-Room ALADDIN \$478 NOT PORTABLE
WE PAY THE FREIGHT
You can buy all of the materials for a complete home direct from the manufacturer and save four profits, on the lumber, millwork, hardware and labor.

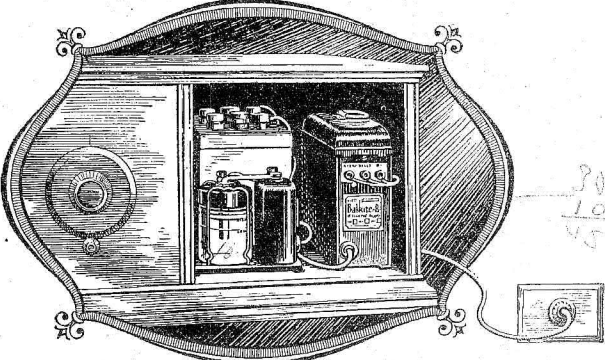
6-Room ALADDIN 618
Living room, dining room, 2 bedrooms, kitchen, bath, 3 other plans in Catalog. Very high grade lumber throughout.

7-Room ALADDIN 765
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Story and a half semi-bungalow, with second floor available for 2 bedrooms. Two floor plan arrangements. Any handy man can erect these houses.

7-Room ALADDIN 956
Large living room with circle-tread open stairway, dining room, kitchen. Three bedrooms, each with clothes closet. Bath on second floor.
Price includes all lumber cut to fit; highest grade interior woodwork, siding, flooring, windows, doors, glass, paint, hardware, nails, lath, roofing with complete instructions and drawings. Freight paid to your station. Permanent Homes—NOT PORTABLE. Many styles of year-round dwellings, summer cottages and garages to choose from. Write nearest mill today for FREE Money-Saving Catalog No. 1722.

The ALADDIN Co., BAY CITY, MICHIGAN
Wilmington, N. Carolina; Portland, Ore.; Toronto, Ont.



Operate your present radio set from the light socket

with Balkite "B" and a Balkite Trickle Charger

The radio set you now own will operate from the light socket. No changes are necessary. You need only add Balkite "B" at \$35 and a Balkite Trickle Charger at \$10.

Balkite "B"—the noiseless "B" power supply—replaces your "B" batteries entirely and supplies plate current from the light socket. The Balkite Trickle Charger keeps your "A" battery always at full charge, also from the light socket.

This type of installation is the last word in radio convenience and ease of operation. You always have full, even power, exactly as required by the set. And because you always have full power you secure a quality of reception possible in no other way.

Both Balkite "B" and the Balkite Trickle Charger are entirely noiseless. Their first cost is the last. Both are permanent pieces of equipment with no bulbs, nothing to replace, break or get out of order. Ask your dealer.

Prices slightly higher West of Rockies and in Canada

FAN STEEL
Balkite
Radio Power Units

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

MARKETS AND WEATHER

Daily Except Sunday

Table with columns for Eastern, Central, Mountain, and Pacific time zones, listing various markets and weather reports for different stations.

Friday, April 9

(Continued from page 15)

Radio news items for Friday, April 9, including reports from KGO, KNX, and other stations.

Reveals Drifting Snow Discharges Electricity

Article discussing the discovery of static interference caused by drifting snow particles, mentioning a German scientist and various radio stations.

NEWS BULLETINS

Daily Except Sunday

Table listing news bulletins for various stations across different time zones, including Eastern, Central, Mountain, and Pacific.

Old Fireside Circle Is Brought Back by Radio

Restores to American Home What Other Inventions Took

Article about the restoration of the 'Old Fireside Circle' radio program, highlighting its popularity and the role of radio in bringing it back.

Organ Concert in New York Reaches Ship Off Honolulu

Report on an organ concert in New York that was broadcast to Honolulu, detailing the distance and the reception of the music.

WRC Sends Farm Programs

News item about the Washington Radio Club (WRC) providing farm programs to rural listeners.

Big Demand for Radio Book

Article discussing the high demand for a radio book, particularly in rural areas, and the role of libraries.

UNKNOWN GIRL TO BE MADE FAMOUS ON AIR

Don Meaney to Try to Popularize Movie Extra Girl

Story about Don Meaney's attempt to popularize a movie extra girl through radio broadcasts.

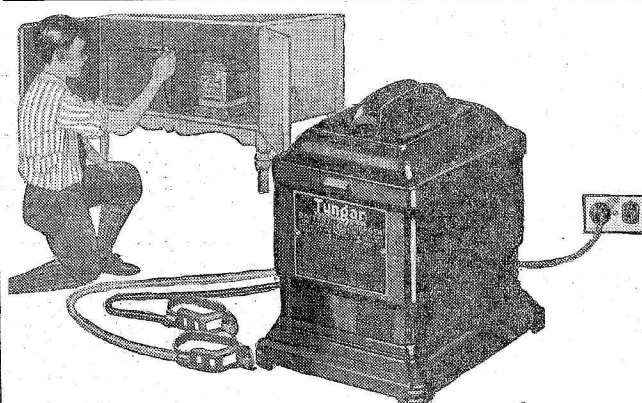
Decision Upholds Right to Broadcast Market Reports

Legal news item regarding a decision that upholds the right to broadcast market reports.

WOC Heard in Holland

News item about the radio station WOC being heard in Holland.

Advertisement for Steinite Low Loss Interference Eliminator, featuring a photo of Fred W. Stein and technical details about the device.



Tungar is the easy-to-use charger

Advertisement for Tungar battery charger, including a GE logo, descriptive text about its features, and the General Electric logo.

AN EVENING AT HOME WITH THE LISTENER IN IN EASTERN 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 6)

McNamee ever sang via WEA? Well, he doesn't. However, he has, twice during two "WEAF Home Talent" programs and once in an "Eve-ready Hour" program.

joval chap about 28 years of age, 175 pounds heavy, and has dark hair and blue eyes. A civil engineer by education and profession, he prefers Radio entertaining as an avocation.

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.

BEST MACARONI DISHES

(Continued from page 6)

stiffly beaten egg whites. Pour into a buttered mold or baking pan and sprinkle with paprika. Set mold in a pan of hot water. Bake 40 minutes in a moderate oven, 350° F. This amount will serve six.

Sauce for Lasagna

It is not necessary to serve a sauce with this loaf, but in case you wish to use one, I suggest Gold Medal egg sauce, as we have found it to be the most delicious with this particular loaf. Here is the recipe for the sauce: 1/4 cup butter, 2 tablespoons Gold Medal flour, 1/2 cup milk, 1/2 teaspoon salt, 1/2 teaspoon pepper, 2 egg yolks, 4 tablespoons lemon juice, grated rind of 1 lemon.

Method: Melt the butter, add flour and blend to a smooth paste. Add the milk and stir until the sauce boils. Add salt, pepper, and egg yolks, and stir until smooth without allowing the sauce to boil. Add the lemon juice very gradually. Serve at once on the macaroni and salmon loaf.

Serve Vegetable or Fruit

With the macaroni and salmon loaf, I suggest that you serve string beans, spinach or any other green vegetable, and stewed or canned fruit with cookies or cake or any simple dessert.

Gold Medal Semolina Special is our second recipe. Here it is: 4 tablespoons Cold Medal flour, 2 cups milk, 1 1/2 teaspoon salt, 1/2 teaspoon pepper, 1/2 cup grated American cheese, 1/4 cup sweet green pepper chopped, 1/4 cup pimento chopped, 3 hard boiled eggs, 2 cups cooked spaghetti, 1/2 cup stuffed olives.

Method: Melt butter, add flour, and blend to a smooth paste. Add the milk gradually and cook 10 minutes. Season with salt and pepper. Add grated cheese, green pepper, pimento and hard cooked eggs. Stir in the cooked spaghetti. Turn into a buttered baking dish. Bake 25 minutes in a moderate oven, 325° F. Remove from oven and sprinkle with stuffed olives.

Daylight Distance Easy for W

CHICAGO.—WHT, stationed on Wrigley building here, claims record for having its morning and noon broadcasts heard in 11 states and eastern vaudeville circuits during the past two seasons. She does the vocal part of the program, while the male member of the Phantoms is the pianist. He is a round,

Wayne wants to know what became of the Deese-Hughes orchestra, formerly heard on WAFB, Des Moines. The orchestra was then playing at WHO through the courtesy of the Fort Des Moines hotel, of Des Moines, but has since removed to play at the Blackhawk hotel, Davenport. Perhaps WOC will broadcast it some time.

Lillian Madeson, WOAW singer, has not been heard of late here, because the stork visited her recently and made her mother of a bouncing baby boy. Her evenings are now engaged in singing him to sleep.

Chawlie, of Cincinnati, gets mushy with me. Shame on you! You don't know who I am, and wouldn't you be surprised, though, if you ever saw me. I'll admit you sound interesting—but to give you the information, as much as I know, the Coldwater, Miss., station is WRIC, wave length 25.1 meters. You probably can't get them any more on account of the congestion. KPKE, late of Milford, Kansas, is a delete now, for Dr. Jones sold out his transmitter to Norman Baker, of Muscatine, Ia., and the latter gentleman has exchanged on the air under the colors KPTN, Walter Tison is the director and announcer of WGHE, Clearwater, Fla.

WCC, Detroit, is back in the hands of C. D. "Chief" Tomy, its original director and daddy. This bit of news no doubt will interest many members of the Red Apple club, at whose meetings the "Chief" will again officiate. For several months back he has been in charge of WGHF, Detroit.

Sammy Stept's location? He's now at WJZ, New York, with Frank Kauplain and Al Bernard, the Record Boys. Sammy still seems to keep his popularity.

Speaking of the "Phantoms" of KPRC, Houston, about whom so many letters of inquiry have been received, I can only add to the mystery. It would be unfair to divulge their identity when they have been so careful to keep it secret. The lady member of the Phantoms—"Phantolnette"—is a stately blonde with curly bobbed hair and blue eyes, and has been on tour in eastern vaudeville circuits during the past two seasons. She does the vocal part of the program, while the male member of the Phantoms is the pianist. He is a round,

Radio Digest Illustrated

Reg. U. S. Pat. Off. & Dom. of Canada
Published by the
RADIO DIGEST PUBLISHING CO.,
(Incorporated)
510 North Dearborn Street
Chicago, Illinois
Telephones: Superior 7323, 7324, 7325, 7326, 7327

E. C. RAYNER, Publisher

Eastern Office, Park-Lexington Building, 247 Park Ave.,
New York. Telephones: Ashland, 8144, 8145, 8146

Member of the Audit Bureau of Circulations

341

PUBLISHED WEEKLY

SUBSCRIPTION RATES

Yearly in U. S. and Possessions and Canada, \$5.00
Foreign postage, \$1.00 additional. Single copies, 10 cents.

Vol. XVI Saturday, April 3, 1926 No. 13

\$85,000,000 for Radio Programs

HOW would you like to have \$85,000,000? Apply to Uncle Sam and see if he will give it to you. Perhaps he will, for it was recently done for a group of millionaires by our senate and house of representatives and Mr. Coolidge.

The occasion was the refunding of the large estate inheritance tax with a two-year retroactive clause in it. In common speech, this means that \$85,000,000, levied against about a dozen millionaire estates and literally in Uncle Sam's pockets, was given back to these estates. No explanation was given as to the cause of this going back two years and taking the burden of taxation off of a dozen dead millionaires to place on millions of living wage earners in the future.

Did your senator or congressman let this go through? Most of them did.

The first reason for this editorial was to propose that Uncle Sam endow broadcasting stations with a fund, say \$85,000,000, the interest earned on which principal would be devoted to purchasing first class talent for the Radio broadcasting stations.

An annual fund of five million dollars would be available for this purpose. Uncle Sam could sponsor its expenditure. The machinery for spending this money to improve programs would not be difficult to organize.

Think of the great benefits to the great army of Radio listeners. The problem of who is to pay for broadcasting would be solved forever.

We appeal directly to the heirs of those estates which received the big "divvy" (the rebate of the \$85,000,000) to contribute this paltry (to them) sum to the future of Radio. Let their big-heartedness and foresight for the public welfare be expressed in such a permanent endowment.

We will bless forever the first of these millionaire heirs and heiresses who signs up for the outlined proposal. The line forms at the right.

Give Congress the Ether

AS THIS was being written, the house of representatives had just passed the revised White Radio bill. It has gone to the senate for action. Representative Davis, of Tennessee, a democrat, led the principle opposition and offered dozens of amendments, almost all of which were voted down. The other representatives, excepting White of Maine, father of the bill, were practically silent. They didn't know what it was all about and cared less.

The definition of the word "ether" caused quite a furor. Old-womanish representatives almost caused an investigation to be made. They demanded more knowledge of the ether.

Many a scientist would give several years of his life to really know what the ether is. It is such a factor in modern science. Yet we know little about it.

But the house, twiddling its thumbs and puzzling over the definition of a word, passed the bill with minor changes. Probably many important things were overlooked, ignorantly or intentionally.

However, we need a law, despite how much favoritism it may show or how weak it may be. We hope the senate has passed the bill before this issue reaches your hands. If the senate does, and the president signs it, we will be able to get at least a skeleton of an administration for misadministered Radio.

Our "do-nothing" government, as a contemporary publication has aptly labeled the present administration, will have given some sort of excuse for its existence.

Chicago's Silent Night

THE Chicago Tribune is sounding its readers to see what they think about Chicago's silent Monday night with an idea of modifying it in the summer. There is much to be said on both sides. But, of course, has a problem individual and different from most cities. New York has an analogous situation difficulty.

Like to believe that some day, somehow, a revolution will be invented which will be so perfect in its nature that silent nights will not be required to ease the local barrage. The romance of distance and love of variety has not changed.

RADIO INDI-GEST

Grandfather Listens In

I thought the world had plunged ahead
With hard and reckless power,
And all old gentle things were dead
And blown like a dry flower.
And lying lonely here abed,
I had, I fear, grown sour.

But now I feel a different way,
With the heater red and roaring
And the lamp dim and the room gray
And the loud speaker pouring
"When You and I Were Young, Maggie,"
In a tenor softly soaring.

For I see that the young and bold and new
Are only fresh leaves hung
On the old oak standing the ages through;
This Radio, now, has sprung
From the loving toil eternally true
"When you and I were young."
CARLTON CULMSEE

Who's Who in Iowa?

Dear Indi: Last night an announcer at a certain Iowa station, while broadcasting a program from a dance hall by remote control, declared, "Among the guests present tonight, are the mayor and the president of the fair association. In fact, there are hundreds of representatives of the upper and lower crusts of society."
ELOISE

Always Always and Spanish Shawl

This is Station XXXX, Podunk. You have just listened to Whos, Whozis and his orchestra playing "Spanish Shawl," "Always," "Spanish Shawl" and "Spanish Shawl." For their next numbers, they will play "Always," "Spanish Shawl," "Always" and "Always."
TIRED TILLY

"A FLOP ON THE STAIRS"

by THE THIRD TROMBONE PLAYER
Episode—"A Bucket of Blood"
A SHOT was heard! A woman's voice shrieked through the night air. Then all was still, quiet and almost silent.
(Hot zigzigs, this is gonna be good. Watch for the next episode. Agnes, quit chewing your finger nails, and you, Aloysius, stop drumming with your fingers.)

Not a Moving Picture

Dear Indi: I see in your column where our old friend the Night Herd says as how some stations have put on a play and named it "The Night Herd" and how he lows as how folks will think it is about him. Well, he ain't got nothin on me. I see as how they have got an announcer down at WSB, the At—lant—ahh Journal, maybe they call "Old King Tut"—The Radio Nut. Well my better seven-eights says that if he is a bigger Radio nut than yours truly, then she shore pities his wife. As ever yours,
OLD KING TUTT (himself)
P. S. Which I says maby he ain't got none.

Where have you been, Tutt? Seems like the last time we heard from you was about 3,000 years ago.

My Pals

Soon the lowing of the cattle dies away and all is still,
Save the howling of a coyote lurking on a nearby hill
Or the sound of brushing bodies when the herd begins to mill—
And I'm alone when light of day has gone.
But there are three pals beside me—one is Shep, my mongrel pet
One's a pinto saddle pony—one's an eight tube super-het.
And there's a host of friendly voices in the ether I can get
To come and keep me company 'till dawn.
THE NIGHT HERD

Machine Has Cold Reception

Dear Indi: Kittle Drummer's ice machine inventshun might be all right, but it looks like it kind of balls things up.
AH GRATTON

Hey, Mildred, Give 'em Cards

Enter the nomination of Michael Angelo to the Famous Fans Club—he was the world's greatest designer of panels.
Schouten, because he used the "Horn" to beat Magellan and he DX-ed Tierra del Fuego, and Demosthenes because he actually held a crystal set in his mouth to make him a loud speaker,
ELOISE R.
Mary, Queen of Scots, because she had her head set on a block.
SQUEAKY

Wanted—A Guardian

Dear Indi: Since you have joined the technical department and started fooling with that invention, I'm beginning to worry. Please don't play with matches.
S. P. C. A.

The Truth Will Out

Dear Indi: Have you noticed lately the decreased number of "loving cup" ears? I wonder if its from wearing head phones?
THAT RED HEAD GAL

Sorry, Bobette, but we are prone to tell the truth. We have seen more "loving cup" ears the past year than ever before, since Porfola, Congressional and Boy bobs have become so popular.
INDI

News of the Week



Condensed BY DIELECTRIC

Station WTAM, Cleveland, had an unusually good dance program to entertain listeners the other night and during the playing of most of the selections one could easily pick out the drums. It may seem strange to mention that, as though something unusual, but just try to hear the drums in most orchestras and see how unlikely you are to hear them. There are receivers which make the French horn resemble a clarinet and mikes to confound harps and pianos, but just listen for the tympani.

That big prize to follow the completion of the serial "A Step On the Stairs," now running in this paper and broadcast from a number of stations, may loom large while you read of it—and should. While the broadcasting station is putting it on the air, however, you can think of the plot only and the WGY, Schenectady, players took every precaution against the possibility of anyone losing interest while they were dramatizing the story. Much credit is due these players.

A very enjoyable mixed program was given through Station WRVA, Richmond, Va., under the title of the Appamattox Review. The male singers appearing in this were all capable individually and collectively and assured a pleasant evening's entertainment. The gentleman announcing that evening respected the wishes of most listeners in, yet his innermost feelings came to the surface each time he announced, for never was announcing done so consistently on a minor key leaving the impression of complete sadness.

The Rainbow orchestra has received little mention here for some time past and the whole blame attaches to my negligence. They can play, as all know who listen, and play with alluring charm. However, listeners feel when they hear a saxophone—the instrument produces varying effects—few could have failed to note the ability of the mighty sax player as he sallied forth in the vanguard of his fellow orchestra men, recently. Under his guidance the instrument fairly spoke, sometimes seductively and again most mournfully, but always unflinching. Hail the sax.

Pontiac, Mich., should be a notable habitation by now for the particular reason of its being the home site of Station WJR; what other reasons there may be do not concern us. Jewett Jesters provide an interesting feature for their programs, even if the jesting is often more in the name than performance. The contributions of these entertainers, when I listened to them, were of the oft-repeated variety in most part and yet you were carried along with the spirit in which they were rendered.

Another Radio jaunt to the home studio of Lambdin Kay found that urbane gentleman as insistent upon quoting at length from "long distance telegraphic requests" as of yore, so "Dubbaye—S—B, THE Atlanta Journal," etc., finds me willing to subsidize on the subject. Attention is to be called though to the Meyers orchestra, which does its best to please all in the Radio audience and succeeds admirably.

During the appearance of L. F. Smythe at the console of the organ utilized to bring pleasure to WHO's listeners, we were impressed with the choice of selections favoring an exposition of the majesty of that instrument. This feature from the state of Iowa, is one surely capable of bringing pleasurable response from all interested in organ recitals. The announcing was very precise and left none in doubt of the identity of the broadcasting station. We'll have them all in line.

W.D.C. Theatre Town organ WORD, total W.D.C. Gardner ones 11-2 Var

How to Stop Blooping and Man-Made Static

Part VIII—Is It in Set or Outside?

By The Technical Staff

CLOSE TO the end of the last article several tests were mentioned which the set owner could either make for himself or have done by the Radio dealer from whom he was purchasing equipment. The locating of trouble by means of these tests is not particularly difficult as can be seen by study of the following paragraphs.

First test: To determine if the noise in the receiver is due to a fault in your receiver or is actually interference coming in from the air. Disconnect your aerial and ground wires. If there is no reduction in the intensity of the noise, while the broadcast music is stopped by the disconnection, the probability is that the source of the noise is in your own receiving set, in the form of a loose connection, faulty batteries, or defective tubes.

If the disturbing noises are considerably reduced in intensity, or cease altogether, you may be reasonably sure that these noises are due to external causes. Their source may possibly be in your own home—electric motors or electric heating or cooking appliances. Again, these noises may be caused by more distant electrical disturbances of many sorts, or heterodyne whistles from broadcasting stations or receiving sets. Just before disconnecting the antenna you must note very carefully the character of these noises, otherwise you may confuse them with noises originating in the receiving circuit which are caused by its being thrown into an unstable condition by the removal of the antenna lead-in. With some receiving sets, a readjustment to a condition of less sensitivity may be necessary before the antenna is disconnected.

Assuming that the disturbing noises are now shown to come from the receiving circuit, how can one tell that they are not caused by some defect in the antenna or in the ground connection? An examination of the antenna is, for evident reasons, not very convenient and many listeners prefer to leave this to a Radio service man. This action need be taken only after tests

upon the receiving set itself fail to indicate the difficulty. If the antenna has been carefully installed it is not likely to give trouble. It is a simple matter to examine the ground wire and determine if it is intact. This should be done while the set is tuned to a local station, and particular attention should be given to the point of contact of the ground wire with the water or steam pipe. In the event of an insecure contact, a grating sound will be produced in the phones or speaker when the wire is shaken near this point of contact.

Most antennas are equipped with a lighting circuit: From cases of interference of difficulty. While the receiving set is adjusted as for normal operation, the wire leading from the lightning arrester to ground should be disconnected. If this causes a noise in the speaker it indicates a defective arrester.

Outside Disturbances

Second test: To determine whether the interference originates in your own house lighting circuit. From cases of interference investigated, it has been found that a great number of these are of a purely local nature, originating in such sources as a lamp loose in its socket, or a loose plug of a heater, or from faulty household apparatus. While the interference is continuous, have someone open the main house-lighting switch for a few seconds, at the same time listening in on the receiver. If the interference stops when the switch is open, the source of the interference is probably in your own cir-

cuit. This test should be repeated several times, however, as there may have been a misleading coincidence with something occurring outside at the instant this switch was opened the first time. Many sources of interference do not start again immediately as the switch is closed, so that observations taken at the instant of opening the switch are more reliable than those taken at the instant of closing it.

Extent of Area Affected

Third test: To determine the extent of the area affected by this interference. When you are sure that the interference comes in on the air and does not originate in your own set or in your own house-lighting circuit, you should communicate with others in your district who have Radio receivers. Great care should be taken in making this test to avoid the danger of confusing the interference which originates from different sources, which may appear similar in the receiver.

The most satisfactory way of making this test is for one observer to listen to the interference received on two Radio receivers at different points at the same time by means of a telephone system. To carry out this test, an assistant at the distant Radio receiver should place his head phone (or preferably his loud speaker) near the transmitter of the telephone in order that the observer at the other receiver may listen at the same time to the interference heard on his own receiver at his right ear, while listening to the interference heard at the distant Radio receiver by means of the telephone.

at his left ear. This test should be continued for a sufficient length of time to observe a number of variations in the nature of the interference.

In cases where it is not convenient to use the telephone system for this test, the two observers at distant Radio receivers may keep an accurate log of the interference, but in this case they should first synchronize their watches and record any characteristic change in the interference heard, noting the time accurately to within a few seconds.

Fourth test: To determine if any suspected source actually causes Radio interference. (Continued on page 22)



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- Tobe Deutschmann Co.
- Webster Co.

RAYTHEON
Raytheon Manufacturing Co.
CAMBRIDGE, MASS.

Build Your Own "B" Eliminator!

RADIO DIGEST shows you, in this week's issue, how to build your own "B" battery eliminator. It's easy to do, will save you money, and will insure better operation from your radio.

For Raytheon and Filament Tubes

Better reception can be enjoyed with higher and constant voltage. A "B" Eliminator insures higher voltage constantly. The current consumption is negligible. The eliminator will take care of from two to ten tubes. For best results in your eliminator, be sure you use the Jefferson 355 Transformer and Jefferson 356 Chokes. No noise, no hum, no distortion with this efficient "B" eliminator. Their cost is no greater, yet they embody distinct advantages. The Jefferson 355 Transformer can be used both for Raytheon Tubes and filament tubes—a unique feature.

Jefferson Essential Units for "B" Battery Eliminators are sold through dealers. If your dealer does not have them in stock, write us and we will see that you are supplied. The Jefferson 355 Transformer sells for \$7 (only one is needed); Jefferson 356 Chokes sell for \$4 each (two are required).

Jefferson Electric Manufacturing Co.

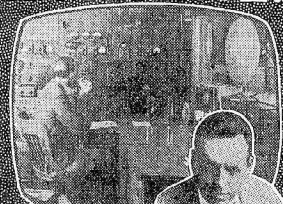
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"My charges for consultation \$2.50 per hour. All success due to you." R. W. Bickel, Brookline.



"Radio a gold mine in your course worth thousands." A. B. Becke, Winnipeg.



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Without obligating me in any way, please send me your free book "Rich Rewards in Radio," also complete information on your practical, hour-study Radio course.

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Town..... St.....

The Reader's View

You Gotta Know How
Why pick on the single circuit?
In looking through the issue of February 6, I noticed a letter from R. McE. M. of Mansfield, Ohio. Apparently he doesn't like the so-called "single circuit." There is always a limit to everything. Anybody knows that a single circuit will cause no more interference than some of the other sets, especially the super-het, if it is rightly operated. Of course, some of those respectful people haven't the brains to operate such a set. I would be very glad to teach such people how to operate such a set.

But why make such a fuss over a little thing like this when there is so much good entertainment on this free air of ours?—N. A. F., Cedar Rapids, Iowa.

Another 10-Watt Getter

In Feb. 29 issue of Radio Digest I see that J.M.H., Lake Charles, La., thinks it quite a feat to pick up 10-watt stations on a broadcast receiver and would like to know how it is done. If C.P.A. of Boston does not satisfy him, I will be glad if he will write to me. I have had WOWL on a loud speaker using three 199 tubes and at a time when the air was full of stations on nearly same wave length. WOWL is located at New Orleans so he should know if this is good reception or not. WOWL says it is.—H.W.H., Vandalia, Mo.

A Friend to Sopranos

Have just read the letter in "The Reader's View" signed C. A., Columbus, Ohio, and, having held the same opinion until the advent of resistance coupled audio, would like to suggest that before condemning the "Old Hen Soprano" we try this type of audio in connection with the W. B. cone speaker.

Have just listened to a soprano solo from WCBD and it was fine.—T.L., Okmulgee, Okla.

HELP STOP BLOPING

(Continued from page 21)
interference. In carrying out this test, either of the systems referred to in test number three is suitable. Great accuracy is required in these tests, for it has been found that many misleading reports have been received from observers who were not sufficiently accurate in their observations. For instance, interference has been reported to be associated with the switching on of the street lights in cases where the interference actually was produced by another circuit which was switched on

CLASSIFIED ADVERTISEMENTS

Classified advertisements in Radio Digest produce results. Have you a receiving set to sell? Do you want to buy a Radio? A classified advertisement in this column will sell your set.
Rates are twenty cents a word for each insertion, five per cent discount for four insertions, ten per cent for thirteen insertions, fifteen per cent for twenty-six insertions, twenty per cent for fifty-two insertions. Name and address to be included at above rate. Cash should accompany order. Minimum of ten words. Objectionable and misleading advertisements not accepted. Forms close three weeks prior to date of publication, which is Saturday.

BLUE PRINTS

Super-Het, Ryan's Simplest Possible 7-Tube Set. Complete instructions, actual size template. How to make a loop. All for 50 cents. Book Dept., Radio Digest, 510 North Dearborn Street, Chicago.

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

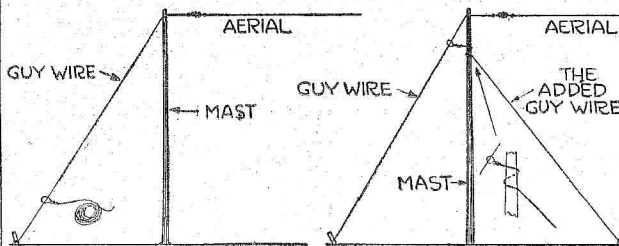
PATENTS. Booklet free. Highest references. Best results. WATSON E. COLEMAN, Patent Lawyer, 614 G Street, Washington, D. C.

BODINE TWINK-EIGHT R.F. COIL
A remarkable new radio frequency transformer that combines a very limited magnetic field with tremendous amplification. Very sharp tuning. For real satisfaction use TWINK-EIGHTS.
Price \$2.00 each, \$9.00 per set of 3 matched coils.
At your dealer or sent postpaid upon receipt of check or money order. Wiring diagrams free.

BODINE FOLDING LOOP AERIAL
Wonderfully efficient. Large enough to give good signal pick-up, but folds to fit in small box. Beautifully finished in mahogany and satin silver. The best loop at any price. Standard loop \$8.50. Equipped with 5 point tap switch \$10.00. Write for folder.

BODINE ELECTRIC CO.
1260 W. Ohio St., Chicago, Ill.

TRICK FOR ATTACHING REPAIR GUY



When I erected my aerial mast I put only two guy wires on it. The other night a strong wind came up and blew the mast down. As I was in a hurry to get the mast up again, I neglected to put more guy wires on it. Because it was too much trouble to take the mast down again, I took some wire, looped and twisted one end around one of the guy wires, as shown

in the diagram. Then I held the other end of the wire and walked along toward the post. The loop of wire slid up the slanting guy wire to the top. I then walked around the post once and tied the wire where I wanted it. The wire is then to be fastened to the post, making a third good guy wire.—Buell Beadle, Hartford, Kansas.

every evening about dusk. If the observers in this case had noted this very accurately, the source of the interference could have been located much more readily.

Fifth test: To determine from where the interference radiates by means of a portable Radio receiver. In cases where a portable receiver is available the source of interference may be very often traced by this means. Some of the apparatus used by power companies and Radio clubs to locate interference from motors and dynamos, from street lighting circuits and house lighting wires, from telephone systems and high tension circuits, will be presented for duplication by those requiring such equipment. Each listener

has the job of seeing that his own set and the electrical equipment in his house are not causing interference to his neighbors. You should also assume some responsibility in the direction of locating troubles outside your house and reporting these troubles. If every listener would do this consistently and conscientiously, it can most definitely be said that the

RADIO TUBE RENEWER FOR USE ON FARMS OR IN OFFICES OPERATES ON THE BATTERIES OF THE RADIO SET
NO CITY LIGHTING CURRENT REQUIRED
RECHARGES DUAL AND REPRODUCTION TUBES OF PRESENT RUN-DOWN TUBES MADE GOOD AS NEW
SUFFICIENT LATE FOR YEARS SAVES MANY TIMES ITS COST
CONSTRUCTION GUARANTEED BY YOUR MONEY BACK
SENDING MONEY BY POSTMAN
CROSBY ELECTRIC CO.
MADISON, WISCONSIN
CHICAGO WRITE FOR BROCHURE

Nightingale
6-tube Set with Integral Loud Speaker \$75
A wonderful, sharp tuning set of beautiful tone, made complete in our own factory. Five tube assembly suffices for most stations, but volume can be tripled by using 6 tube terminal. No wasteful neutralizing condensers but perfect balance of parts. See Nightingale dealer or write to:
THE GUTHRIE CO., GRAFTON, OHIO
Makers of the famous Nightingale Line.

22 Volt un-acid everlasting rechargeable "B" STORAGE BATTERY \$295
Includes Chemical

The wonderful SUPERFLEX radio
NEW CIRCUIT—ONE DIAL (one condenser—pat. pdg.) Not reflex. Volume, Clarity, Distance, Selectivity.
Sample to Rated DEALERS. TEST ONE.
RADIO PRODUCTS CORPORATION, (Inc.)
3816 N. 28th St. Birmingham, Alabama

interference in broadcast reception, aside from natural static, would promptly be reduced to an immaterial amount.
The staff wishes, at this point, to give credit for much of the information contained in this chapter to E. P. Peck of the Utica Gas and Electric company and M. E. Strook of the bureau of standards. All of the tests suggested have been carefully tried out both for ease of accomplishment by the unskilled and for value in eliminating trouble.

(Next week the series reaches the construction of trouble shooting apparatus and complete data and operating instructions will be included.—Editor's Note.)

A "RADEX" Tuning Chart
Shows by dial numbers, wave length to which set is tuned. Tells where to place dials for any station. Identifies programs received without announcement. Adapted to any set.
Send 25c Coin or Stamps
RADEX, Box 143-S, CLEVELAND, O.

FOR CLEAR, QUIET "B" POWER

RADIO Storage "B" Battery
22 Cells Lasts Indefinitely—Pays for Itself
Economy and performance unheard of before. Recharged at a multiple rate. This battery is sure that it's clean, pure and quiet. Approved and listed as Standard by leading Radio Authorities, including: Radio Manufacturers, Ford, Buick, Oldsmobile, Cadillac, LaSalle, Packard, LaSalle, LaSalle, Inc., and other important institutions. Equipped with Special Rubber Case, an insurance against acid and leakage. Extra heavy plate caps. Heavy spaced plates. Order yours today!
SEND NO MONEY Just state number of batteries you desire. We will ship you the one you want. Extra offer: 4 batteries in a case for \$10.00. Free examination of the examining batteries. 5 per cent discount for cash with order.

WORLD BATTERY COMPANY
1219 So. Wabash Ave. Dept. 76 Chicago, Ill.
Makers of the famous World Radio "B" Storage Battery
Free: 6-volt, 100 Amp. \$11.25; 150 Amp. \$12.50; 190 Amp. \$14.00.
All equipped with Solid Rubber Case.

World STORAGE BATTERIES
KOKA - WFAF - WGN - WIS - WJW - KGO - WFAE - WJW - KGR

Photogravures of Your Favorite Artists
GALLERY OF RADIO STARS

21 E. L. TYSON OF WWJ
Size 11x14 inches

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 a practically no cost. Below is only a partial list of the photogravures now included in the Gallery of Radio stars. Complete list in March 20 issue.

- 6 George Hay, 1924 Gold Cup announcer
- 7 Harmony Girls, Edith Carpenter, Grace Ingram
- 8 Ford and Glen, Lullaby Boys of WLS
- 9 "Hoop" Holmfelt of WEA-F chain fame
- 10 The Hired Hand, famous "Substitute Announcer" of WBAP
- 12 Bob Emery, Big Brother of WEEI
- 13 "Bill" W. G. Hay, ex-KFKX, now of WLIE
- 14 Happiness Boys, jovial singers of WFAF
- 15 Lambdin Kay, "Little Colonel" of WSB

COUPON NO. 15

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 consecutive 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 percent checks for exchange.

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

The new Crosley 4-tube 4-29 delivers an extraordinary performance because it has the Crescendone volume control which is equivalent to one or more additional tubes of tuned radio frequency amplification... \$29 without accessories.

Prices slightly higher west of Rockies
THE CROSBY RADIO CORPORATION, Cincinnati, Ohio
CROSBY RADIO
BETTER • COSTS LESS

Radio Broadcasts and Stations Corrected Every Week—Part III

FIND MISTAKES AND YOU'LL GET DOLLAR

ONE DOLLAR will be paid to the Radio Digest reader of Radio Digest submitting the most errors in any one station's listing in the Directory of Radiophone Stations, which appears in six parts, serially continuously on the next to last page. Letters must reach Radio Digest's office not later than one week from date of issue...

United States (Cont'd)

NOTE.—The third part of the schedule list appears below. The fourth part which consists of the remainder of the list will appear next week. WDRR, New Haven, Conn. 267.7m-1120kc. 100 watts. Double Radio Corp. Mon, Wed, Fri, 6:45-7:15 pm, news. Mon, 8-9:30 pm, Fri, 8-9 pm, Sun, 11 am, Eastern.

St. Cloud Daily Times. Slogan: "Granite City of the World." Announcer, Otto A. Rupp. Daily ex Sun, 4:45 pm, markets. Central. WFAV, Lincoln, Neb., 275.1m-1090kc. 500 watts. Univ. of Nebraska. Fri, 12 m, Central. WFCB, Knoxville, Tenn., 249.9m-1200kc. 50 watts. First Baptist church. Announcer, St. John Reynolds. Mon, 10:45 am, 4:30 pm, services; 4 pm, sacred music. Central.

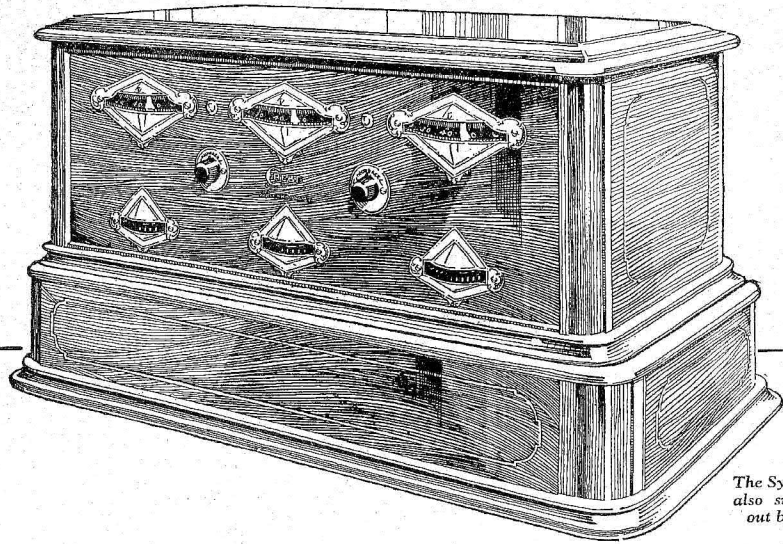
WHA, Madison, Wis., 535.5m-560kc. 750 watts. Univ. of Wis. Mon, Fri, 7:45-9 pm, Wed, 9-10 pm, Central. WHAD, Milwaukee, Wis., 273.1m-1090kc. 500 watts. Marquette University. Milwaukee Journal. Announcer, Ed. Rauff. Daily, 11 am, weather, news; 4-5 pm, news, markets, current topics, music; 6-7 pm, organ, orchestra; financial reports. Mon, 8-10 pm, Tues, 9-9:30 pm, Wed, 10:30-12:30, Fri, 8:30-10 pm, Central. WHAM, Rochester, N. Y., 277.6m-1090kc. 100 watts. Univ. of Rochester. Rochester Time-Union, Democrat and Chronicle. Daily ex Sun, 9:30-10 am, 7:55-7:44, Wed, 8-10 pm, Sat, 10-12 mid. Sun, 3:15, Radio Chapel, Eastern.

WIBR, Weirton, W. V., 245.5m-1200kc. 50 watts. Tri-State Radio Co. Announcer, W. D. Johnston. Slogan, "The Town Where Everybody Works." Fri, 8:30-11 pm, Sat, 11-1 am, Sun, 2-3 pm, Eastern. WIBS, Elizabeth, N. J., 202.6m-1430kc. 10 watts. Univ. National Guild. Announcer, J. E. Foy. Daily, 8-9:30, 10-11, 222.1m-1350kc. 20 watts. The Electric Fan. WIBW, Logansport, Ind., 220.1m-1300kc. 160 watts. Dr. L. L. Dill. WIBX, Utica, N. Y., 205.1m-1400kc. 150 watts. Grid-Link, Inc. WIBY, Montgomery, Ala., 250.6m-1200kc. 10 watts. A. D. Tron. WJL, St. Louis, Mo., 374.6m-1100kc. 250 watts. St. Louis Star and Times. Announcer, Billy Knight. Slogan, "Watch It Lead." Mon, 10-12 am, Tues, 4-5 pm, Wed, 9-11 pm, Thurs, 4-5 pm, 8-10, Fri, 9-11 pm, Sat, 4-5 pm, 10-12, Central.



It is written:
 "A perfect vase never came from a bad potter's wheel."
 When one realizes its origin, the superior reception of the Synchronphase is not to be wondered at.

Doctor Why



The Synchronphase is also supplied without battery base.

Why the Synchronphase Appeals to the "Fan"

HE, more than anyone else, understands what Grebe quality means. He best realizes why Grebe construction is reflected so surely in the superior reception of the Synchronphase.

The Grebe Synchronphase, built to satisfy the "fan", has quickly won first place in the opinion of the average radio user.

Ask your dealer to show you what Grebe reception means.

A. H. Grebe & Co., Inc., 109 West 57th Street, New York
 Factory: Richmond Hill, New York
 Western Branch: 443 So. San Pedro St., Los Angeles, Cal.

Grebe "Colortone"

Grebe Binocular Coils
 Reg. U. S. Pat. Off.
 and Low-wave Extension Circuits

Flexible Unit Control

This company owns and operates stations WAHG and WBOQ; also low-wave rebroadcasting stations, mobile WGMU and marine WRMU.

THE GREBE SYNCHROPHASE

TRADE MARK REG. U.S. PAT. OFF.



All Grebe apparatus is covered by patents granted and pending.