

New Wave Lengths Listed This Issue

# Radio Digest

JUL 13 '27

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ILLUSTRATED BY W. H. WILSON

FIFTEEN  
CENTS

JULY NUMBER, 1927

Title Reg. U. S.  
Pat. Off. &  
Dom. of Canada

Vol. XXI No. 6



*Cycle for Silent Nights; Whozit Winners; Manitoba Radio Monopoly; Seeing Paris; Torch of Youth; Art Gillham "Exposed;" R. M. A. Show; Ann Howe; Cup Nominations End*

NUMBERS 9 and 10

# OFFICIAL BALLOT

## Announcers' Contest

RADIO DIGEST FOURTH ANNUAL GOLD CUP AWARD

GOLD CUP AWARD Editor, Radio Digest, 310 North Dearborn Street, Chicago, Ill.

Please credit this ballot to:

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

### NOMINATIONS END; BIG RACE BEGINS!

Fifteen Days to Rush Votes to Gold Cup Editor—All But Twenty Eliminated

By Gold Cup Editor

In this issue of Radio Digest will be found the last complete list of nominations for the Fourth Annual Gold Cup to be awarded to the world's most popular Radio announcer.

In the next issue of Radio Digest only the twenty names who have the greatest number of votes will be included. If you want to make sure that your favorite survives the eliminations send in your votes, or at least part of them, before July 15.

Never before was there such a list of candidates. It will be nip and tuck for the next fifteen days to poll the greatest number of votes. Radio artist associates of the candidates are advised to begin their campaign in earnest at once. The time will be short for the final show-down. The Gold Cup will be awarded, very likely,

### GOLD CUP ENTRIES

- F. O. Adams, KFH
- Leslie Adams, KFI
- Arthur A. Atinworth, WSAI
- Earl C. Anthony, KFI
- G. C. Arnoux, KTMS
- Earl Baer, KFBB
- Norman Baker, KNTN
- Geo. E. Barnes, WCAE
- Pat Barnes, WHT
- L. J. Barnes, WGY
- L. S. Batton, WQAF
- Herbert Berger, KMOX
- Don Bernard, WAIU
- Edegar L. Bull, WLS
- Robert P. Boniel, WEBH
- Major Edward Bowes, WEAJ
- Norman Brokenshire, WPC
- Bobby Brown, WGES
- John Brown, KMMJ
- Robert Brown, WGR
- H. A. Bruno, WBJJ
- Nate Caldwell, WBBM
- W. Calhoun, WFAJ
- Phillip Carlin, WEAJ
- John T. Carter, WDOO
- Francis Chamberlain, WMC
- E. E. Chappell, WFBL
- Alvin Clark, WFIW
- John Clark, KYAB
- D. R. P. Coats, CJRM
- Dean Cole, WHO
- Pat Collins, WEAJ
- R. H. Conner, KCNC
- David Conlon, WLW
- D. J. Connolly, WBRC
- Marion E. Cox, KFEG
- H. J. Cross, WLS
- Harold Danforth, WDBO-WOCB
- John E. Daniel, WJZ
- A. F. Daniels, KPFC
- D. D. Denver, KFKB
- J. H. Devere, WCOB
- Mal O'Leary, KMOX
- George Duncan, KMOX
- Ruth Eitline, WLS
- F. E. Eatum, WFAJ
- Uncle Joe Eason, KSO
- Wm. Fay, WGY
- Kenneth Fickell, WGR
- Henry Field, KFNJ
- Leslie "Kaslat" Finley, KSO
- H. Dean Filzer, WDAF
- Leo Fitzgerald, WJZ
- Ralph Foster, KGBX
- Don Fox, WMBR
- Ralph France, KGA
- H. Cecil Fricker, CKCL
- Charles Garland, WBBM
- Peter Garvin, WOC
- Chetley Gaydon, WTAC
- Cale Grubb, KFAB
- Ralph Haberton, WLW
- Collin Hager, WGY
- Bob Hill, KOIL
- Wm. H. Hard, CJRM
- G. C. Hardy, WJZ
- Fred J. Harp, KQW
- Alvin J. Hauser, WSOB
- Richard V. Haller, KCW
- Hired Hand, WBAJ
- Bill Hays, WLS
- Harold E. Hedlund, KCOP
- A. Lee Henderson, WEAJ
- Carl Hildnerland, KFAB
- Elmer G. Howitz, WKVA
- Bert Honper, CKCK
- Rev. H. Hobenstein, KFUD
- Don Hunt, KMOX
- Edward B. Husel, WBET
- O. H. Ives, WHAS
- Jesse Jay, WIOO
- Richard Janny, WCAE
- Fred Jenks, WBBM
- Bert Johnson, WLS
- Paul Johnson, WCO
- George Junkin, KMOX
- Louis Kaulman, KOKA
- Lambdin Kay, WSB
- Jack Keele, WSM
- Ed Kieler, WBOQ
- Eugene Konecky, WOV
- A. S. Kyne, KMMJ
- Frank S. Lane, WVOO
- A. Lange, KFUD
- Wayne H. Latham, WBET
- Harold Leonard, CKAC
- Albert L'Roy, WMAQ
- Steven Leshon, KDKA
- Gordon W. McClain, CES
- W. Jack McClain, WDBO
- Peter MacArthur, WOC
- Mr. Macy's, KOWW
- Donald F. Mallin, WLS
- J. F. McManama, KSO
- Howard Martin, KOIL
- Carl Menzer, WSUI
- S. A. Merkle, CJRM
- Armed Morcan, WEAJ
- Walter G. Meyers, KDKA
- Paul Nelah, WVVV
- Harold Palmer, WOV
- Lester Palmer, WOV
- Pat Patrick, WFBE
- John Peck, WJLW
- Ralph Pratt, WDAF
- James Pearson, KFNF
- G. Allison Phelps, WLS
- Russel Pratt, WMAQ
- Frank J. Proudfoot, WJLW
- Clyde R. Randall, WSMB
- D. O. Richards, WLS
- Bob Riners, WFIW
- Frederick Rogers, KOKA
- George F. Ross, WRC
- Gene Ryan, WEBB
- H. B. Rutherford, CJCC
- "Andy" Ryan, CNRO
- Ouin Ryan, WGN
- Anna Adams Rank, WEAJ
- John Schilling, WHB
- Ransom M. Sherman, WMAQ
- Ralph Shuzari, WJJO
- Paul Simmons, KFNF
- Miss Simon, WCOO
- J. F. Sinn, KSO
- Frank S. Sullivan, WLW
- George G. Smith, WJAZ
- G. L. Sutherland, WSEA
- Mrs. W. Spears, WBBM
- Karl Stefan, WJAG
- William Steves, WCC
- Chas. W. Sullivan, WCC
- Jerry Sullivan, WBSB
- Geo. L. Sutherland, WLS
- Bill Tabor, KMMJ
- Freeman H. Talbot, KOA
- Harold Totten, WMAQ
- Hob. R. Turner, KFXX
- C. D. Tunny, WCX
- Wm. Walter Tyson, WFHII
- E. L. Tyson, WJZ
- Cecil P. Underwood, KIQI
- Tom Vexton, KFSD
- Ty N. Wallis, WWF
- Billy Ward, CJRM
- Arthur Wellington, KYW
- Ralph Wentworth, WEAJ
- J. J. Whalen, WVAE
- Mal. J. Andrew White, WJZ
- Jack Whitney, WHO
- Robt. Whitney, WMAQ
- A. C. Woolfries, WOI
- G. A. Wright, CNRV

either at the New York or Chicago autumn Radio show, as it has been in the past.

#### Prize Wonderful Trophy

This is a wonderful prize of which any winner may be justly proud. A solid gold cup of the size and shape of a microphone on which is inscribed the winner's name and the occasion. It is a splendid tribute from listeners who find it hard sometimes to adequately express the appreciation they sincerely feel for the man at the "mike" who sticks to his task, night and day, always with a cheery, happy voice, no matter how tired and unhappy he may be in his heart.

Send in your vote and see that your neighbors send in their votes. Do not let a single ballot go to waste. You will observe that the ballots in this issue are double in value because of the combined issues of July 1 and July 15.

### CHOOSE RADIO MAID FOR CINEMA QUEEN

Ann Howe Picked by Listeners for Beauty and Voice—Sings at 90 Stations

Ann now, Ann Howe!

You guessed it. 'Tis none other, and as picturesque and charming a miss as ever graced a screen from Sun-kist Hollywood—or the Radio Digest cover!

How come, Ann? Why, out of the air, so to speak! Don Meany, motion picture producer and incidentally Radio conductor of the Midnite Frolic at KFI, and later at KNX, conceived the happy thought that somewhere "out there" in the unseen audience was a beautiful girl with real talent but unknown to microphone or camera. Could he find her? He whispered to "Mike," intimating a throne in Cinemaland was awaiting a queen who could best qualify as to looks and talent. Thousands of pictures were received. Many had looks without talent and many had talent without—but, anyway, up from the heap came the picture of the little lady on the Radio Digest cover. Her real name is her own business, but that's how come Ann Howe. She has a voice that goes with the face. Mr. and Mrs. Meany and Ann have just completed a circuit of ninety Radio studios. Ann and Don have been on 218 programs.

After Ann was elected by the Radio fans the Midnite Frolic was moved to Hollywood under the banner of KNX, the Los Angeles Evening Express, which arranged the tour. When they get back to Hollywood the Radio star will ascend her throne and shine back on her Radio listeners from the screens as the star of "Tin Pan Alley."

### SHORT WAVES

By Marcella

Marcella to Lose Wave; Lovely May of WLS; Lon Chassy at Last; John's Turtle Reappears; Lovesick Pianist's Past; KOMO's Sheiks; Fresh Graham Cracker.

OH, DEAR! Oh, dear! What am I going to do? Why, WWJ's Mr. Tyson came in here this morning and told our Editor that he and Mr. Kirby are going to sue me for mixing them up several issues ago. Mr. Tyson's going to sue me for using the wrong picture next to his name and Mr. Kirby claims he has a case 'cause he hasn't any cheeild. I see where Marcella doesn't eat any more. I wish I had seen that Mr. Tyson. I'd certainly see what the blue winkers could do.

Mrs. St. Louis shows good taste when she asks for news about Lon Chassy. Read what G. C. of KTMS has to say.

"Now Lon Chassy, the dean of our Radio staff at KTMS is a Columbia University man; once held a chair in the conservatory of music there. Hails from Georgia, where the Georgia peaches grow, from Savannah, to be exact. Lon—sad blow to the lady fans—is decidedly married. He is dark and handsome, of foreign characteristics, though American born and bred. His violin concerts every other Monday night at 10 o'clock have made many feminine hearts flutter. His main hobby is attempting to keep his automobile from wandering off into the ditch as he drives over Arkansas' wonderful highways."

John Burroughs, KFI singer, doesn't need a watch dog to keep the ladies away, not he. He has one of those clammy—ugh—you know how they are girls, almost next to snakes in crawliness—turtles as a pet, whose name is Measles. Measles was the official mascot of John's regiment in the World War, and because he is a good listener and has a fine appreciation of music, the KFI soloist has kept the little tortoise ever since. The tenor explains that he can definitely tell when he is not in perfect voice, for on these occasions the turtle pulls its head under its shell.

Harriet Lee is the real name of your favorite Radio star, John, the stately May of WLS. She is just tall enough to carry herself well and her lovely features make her look a bit haughty. Every man that enters the WLS studios admires the beautiful May. Her hair is pure gold and her eyes that soft violet blue, and she is not even engaged to be married. The reason is, of course, her career. She takes vocal lessons all the time. But she is a regular girl, because she plays golf, swims and rides horseback.

"We find your letter referring to the Night Watchman," writes S. E. Hubbard of WAMD. "The Night Watchman began his career at WAMD, 'the Call of the North,' on a winter night about three years ago. He is a handsome brute, and is not married, but is looking for a wife (prefers blonds). He has dark hair, he is five feet eight in height, has brown eyes and is really and truly handsome. From the station director's angle, he is not quite as popular with the director as he could be, for the reason that after and during every program hundreds of young girls follow him up, to say nothing of the big mail he receives every morning from his admirers. Our reception room is usually packed when the Night Watchman is doing his stuff."

Dearest Peg, what a tempest you stirred up with your letter asking about the lovesick pianist. Says a certain gentleman from WSMB, "I haven't any idea where Bobby Ford is, as I haven't seen him for months. Bobby is very much married. In fact, he has been married, been divorced and is married again, and he has had time enough since I saw him last to have gotten another divorce. Ye Gods! What more do you want to know? He has brown hair, medium complexion, about five feet eight, weight about one hundred twenty-five pounds, must be over thirty, lots of bad habits, in fact too many to mention, don't know a note of music but can sure play the piano, had false teeth when I last saw him, wears loud neckties, but the best identification is that he wears a knit muffler summer and winter. Motor number 00000 Louisiana, license BYD 66. If you know anything more about him, please let me know." And he enclosed a picture of Bobby and his present wife way up on the top of some mountain in California. He's nice looking, Peg. I don't believe all the WSMB P. M. says /

(Continued on page 4)

## CONTENTS

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"All the News of Radio".....	2 to 9
Marcella.....	2
Gold Cup Nominations End.....	2
Ann Howe.....	2
Cycle of Silent Nights.....	3
Renew Wave Lengths.....	3
Whozit Prize Winner.....	3
Woman's Program.....	3
Art Gilham "Exposed".....	4
Radio Pole Expedition.....	5
Lindy Comes to Daihart Porch.....	6
Radionecking Through Paris.....	6
Government Telephone Monopoly in Canada.....	6
Interference.....	6
Broadcast Directory—Part II.....	8
Torch of Youth.....	9
Editorials; Indi-gest; Di-electric.....	10
Evening at Home Table.....	11
Reader's View.....	11
Advance Programs and Highlights of the Air.....	12 to 19
R. M. A. Show.....	20
New Wave Lengths, Corrected to date.....	23

### Looking Ahead

In War Mad China with all communications cut off except their little Radio receiver the Americans of the Presbyterian mission at Kingyian received their warning to flee for their lives from the air. They escaped by passing through a battle zone. The thrilling story is told in August 1 Radio Digest.

Meet the Folks at 3LO, the leading broadcasting station of Australia. Pictures and story sent from that station especially for readers of Radio Digest. Will appear in the near future as a Radio Digest feature.

And Now the Mystery Deepens, as the trail of the Torch of Youth leads into the labyrinth of the underworld. An interesting development of the situation will appear in the August issue of Radio Digest.

What Has Science Discovered, to help solve the problems of interference? J. E. Smith, president of the National Radio Institute, has prepared a series of three articles for Radio Digest on this important subject, the first of which appears in the current issue. You will be even more interested in the second article that appears next month.

Special articles about broadcasting stations and artists, with photographs, are desired, unless typewritten and prepaid, or returned without return postage being included. All manuscripts are sent at owner's risk.

### Newsstands Don't Always Have One Left

WHEN YOU WANT

## Radio Digest

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# MAY RENEW SIXTY-DAY LICENSES

## N. Y. FAN PROPOSES DX ZONING SCHEME

DIVIDES AREA INTO DAILY SILENT PHASES

Would Blanket One-Seventh of Wave Bands One Night Each Week by Rotation

NEW YORK.—Dr. Paul Norwood, M. D., 307 W. 93rd st., has submitted a silent night plan to the Federal Radio commission which he believes will be greatly appreciated by listeners who are handicapped in getting DX reception.

In the main Dr. Norwood's idea is to divide the northern part of the hemisphere into seven zones, corresponding to the seven days of the week. The stations also are to be divided into seven classifications according to their power.

### Seven Day Table

The table would be represented as follows:

- Class A including 550 to 610 kc
- Class B including 620 to 680 kc
- Class C including 690 to 770 kc
- Class D including 780 to 840 kc
- Class E including 850 to 920 kc
- Class F including 930 to 1080 kc
- Class G including 1090 to 1500 kc

Throughout Zone 1 of the geographical division all Class A stations would be silent on Sunday night. The other six classifications in that zone would be on the job. In Zone 2, the same night, Class B would be silent, but A and all the other classifications would be operating. In Zone 3 Class C would be silent while all other classifications made the air hum. And so it would go across the country.

### All Stations Silent

On Monday night, following, Class B would be silent in Zone 1. Class C would be silent in Zone 2 and Class D would be silent in Zone 3, the rotation continuing through the seven classifications. In this manner, according to Dr. Norwood, all areas would have a certain amount of broadcasting every night and yet there would be one silent night each week for every station.

"Of course you could blanket all stations on the same frequency band completely," said Dr. Norwood, "but I do not think that would be generally as satisfactory. This plan could be expanded to separate all local stations until they are 20 kilocycles apart, making room for more stations.

### Has Many Receivers

"With a pretty fair equipment of Radio receivers, crystal, tuned Radio, neutrodyne, reflex, short and long wave receivers down to a pretty fair superheterodyne, all home-built, I have passed through most of the building crazes and have reached this conclusion:

"I can separate most all of the local stations here in New York with my crystal set which will operate a Western Electric cone on the stronger stations; a reflex two tube superdyne with the aid of a wave trap will give good volume all over a seven room apartment and that other receivers of the home-built variety are, as a rule, mere noise traps.

### Small Set Best DX

"My superheterodyne has been rebuilt four times and gives superior quality on a horn, but with nine tubes and all, it does not get the distance any better, nor as well as the superdyne. The latter has brought me England, Spain, West Indies and all the Canadian stations when there have been periods or let-up on the local stations. If we could get just one-seventh of the New York stations, or one of the divisions I have proposed, quiet each evening all of us who play for DX thrills would certainly find a lot more cheer out of our Radio.

"With the Radio commission enabled with full power to act it seems to me that some plan like this could be worked out for the benefit of all. After all, the listener should be given first consideration as he is the ultimate consumer and the big majority."

## Medal of Honor for Static Study Awarded Dr. Austin

NEW YORK.—The 1927 Medal of Honor of the Institute of Radio Engineers was awarded to Dr. L. W. Austin of the government bureau of standards for his discoveries and research into the causes of static. He has made a special study of the relation of sun spots to static and believes it will become possible to forecast conditions that cause periods of static disturbance. With the basic causes definitely known it is believed that devices may be perfected for its complete elimination as an interference.

## COMBINE BOTH JULY ISSUES RADIO DIGEST

VACATION time is here. In many homes the voice of the loud speaker is silent. Families are visiting or touring. Radio Digest finds it expedient, therefore, to combine both the July 1 and the July 15 numbers in this issue. The next issue of Radio Digest will be August 1. Expiration dates for subscriptions will be moved forward accordingly.

## Balloon Vet Likes Radio

SEATTLE.—Cloudland as a realm for exploration always has appealed to Uncle Daniel Bickford, Civil War balloon hero, who now resides at the state soldiers' home in Ortig, Wash. Radio takes the place of balloons for Uncle Dan today. He is 89 years old and says he has at least 19 years more to go before he tunes out this worldly sphere. His sister lived to be 108, which leaves Uncle Dan the baby of the family. Hard old veteran of shot and shell that he is, he gets a great kick out of the bedtime stories from KOMO, Seattle. In the Civil War, when his balloon was incapacitated by gunfire, he took to the tree tops to make his observations.

## LOOK WHO'S HERE—JACKIE COOGAN!



REMEMBER the time Charlie Chaplin took up with a little bit of a kid and went around using him to break windows so he could get the job of mending 'em? Remember that KID? Who ever would think this big soldier boy was that Kid? This is Jackie Coogan, broadcasting a benefit program at Santa Monica, none other than the Kid.

## Plays Whozit to Earn Expenses for Major Surgical Operation and Wins!

Mother Listens and Fashions Her Design Grimly Determined to Capture Cash Prize for Doctor's Fee—Winners Write Interesting Letters

### THE WINNERS

#### Station WOC, Davenport, Ia.

First Prize, \$500 Gold, E. R. Bauer, 614 Payson Ave., Quincy, Illinois. (An elaborate and beautifully printed album.)

Second Prize, \$300 Federal Orthosonic Receiver, L. E. Reed, 116 C. Ave. W., Cedar Rapids, Iowa. (A book with water-color sketches.)

Third Prize, \$200 Howard Receiver, Earl L. Westeen, Boxholm, Iowa. (A small hand-carved cabinet containing the pictures of the artists.)

#### Station WHK, Cleveland, Ohio

First Prize, \$500 Gold, Louise Schilpp, 2180 Northland Ave., Lakeview, Ohio. (Fancy album worked very beautifully with colored silks on black satin, faces of artists hand-colored.)

Second Prize, \$300 Federal Orthosonic Receiver, Ida Hronek, 714 Melrose Ave., Cleveland, Ohio. (A continuous row of pictures with each artist in a separate wooden frame.)

Third Prize, \$200 Howard Receiver, William Singer, 2038 E. 65th St., Cleveland, Ohio. (Very neat album with each artist enclosed in a star frame.)

#### Station WPG, Atlantic City

First Prize, \$500 Gold, Kate M. Caldwell, 826 Kentucky St., Lawrence, Kansas. (Humorously decorated album with hobbies or vocations of artists very artistically drawn.)

Second Prize, \$300 Federal Orthosonic Receiver, Mary E. Arnout, Plainsville, Penn. (Luzerne Co.) (Blue satin and silver lace fan with pictures of Whozits stitched on with silver thread.)

Third Prize, \$200 Howard Receiver, J. C. Albright, Medina, New York. (An album printed very artistically in black and white.)

That the big cash prizes are continuing to find their way into worthy homes is indicated by letters of acknowledgment from the winning Whoziteers. Radio Digest readers will be especially pleased to learn that the \$500 awarded the winner of the WLV game went to Mrs. F. O. Palmer of Canova, South Dakota.

"I certainly feel grateful for this prize," writes Mrs. Palmer, "and consider it an honor indeed to be among those so fortunate.

"The money never could be more welcome than right now for I have just re-

turned from the hospital where I was confined two weeks after a major surgical operation costing \$260.

### Wins for Operation

"All winter I worked on the contest, knowing that in the spring I must undergo this serious operation. The contest helped me to forget my suffering while I was confined indoors, and it was a wholesome sport. I learned what it means to be persistent for, with all my sickness, I was nursing a two and one-half months old baby and also had a nine year old son in (Continued on page 4)

## COMMISSION WILL STUDY EFFECT OF NEW ALLOCATIONS

AUTHORITY QUESTIONED IN SUPREME COURT

Commissioner Caldwell Outlines Plans to Distributors for Future Activities of Federal Radio Bureau

WASHINGTON.—Permanent waves for broadcasting stations are not on the books of the Radio commission at present. The revised order is to be given a thorough trial and check-up. For those who report conditions satisfactory at the end of sixty days, dating from the last allocations put into effect June 15, new licenses may be issued for another sixty day period.

Already the first dispute of the authority of the Federal Radio commission has reached the courts. The Madison Square Garden Broadcasting association, operating Station WMSG, has begun proceedings in the supreme court of the District of Columbia to test the constitutionality of the Radio Act of 1927.

WMSG is protesting its assignment to a frequency of 1270 kilocycles (236.1 meters) by the commission and has entered a motion in the court for a restraining order against the commission's enforcing this assignment. It is understood that a number of other similar actions are contemplated. The commissioners are not displeased that the cases have been brought because it will give them an opportunity to test out their powers.

Should the courts uphold the act as constitutional Commissioner Bellows is of the opinion that there will be a considerable dissolution of many broadcasting stations who find themselves operating at a disadvantage, but are hoping that something will happen to make conditions more favorable, as, for example, the tying up of the Commission by legal edicts will result.

One noticeable effect reported from various sources as the result of the new allocations is a sharper tuning on the part of broadcasters. Part of this effect is attributed to a discovery that new and unexpected interferences have developed, causing heterodynes on several of the most powerful stations.

Commissioner O. H. Caldwell in a recent speech to distributors said in part:

### More Changes Coming

"Sixty-day licenses have been issued for June 15 to August 15, and the operation of the new allocation will be carefully watched in the light of actual experience during this period, so that necessary changes can be made where interference is experienced. Such actual experience is necessary in view of the irregular and unpredictable transmission in different directions which almost every station sends out. If the ordinary station's radiation went out equally in all directions, making the station's interference area a big circle, the task of fitting stations together without interference at minimum distances would be simple. But as every listener knows, some stations are unaccountably heard for many miles in one or more directions, while being shut off by natural 'barriers' in other directions. Advantage must be taken of all these curious unpredictable phenomena, and adjustments made, before the new station set-up will be really working at its best. Here only actual experience, and not engineering theory, can be the guide. The commission is, therefore, likely to continue issuing only short-term licenses of sixty to ninety day duration on through the winter months, in order to test out the transmission conditions during the cold-weather period of greatest Radio effectiveness, before any long-term licenses are granted."

## DOGS YIP WHEN PET PURP DEPARTS AWOL

LOS ANGELES—Whistling is barred on the KNX programs—at least dog whistles. And 'tis the sad tale of a dog that brought it about. Harold Tucker of the films was doing a turn at the waves over the KNX "mike." Quite casually he announced that his pet dog had gone AWOL. In less than an hour the dog finders were standing in line at the studio door with canines of every description. Tucker started looking them over when someone whistled. The dogs had the air for ten minutes straight. Anybody who brings a dog around to the KNX studio again for sometime is liable to start a hydrophobia epidemic.

WINS WHOZIT \$500 FOR HOSPITAL



WHOZIT WINNERS

(Continued from page 3)

school, and a five year old daughter to care for.

"So you see I was very busy, but I certainly thank you for awarding my work

this prize and I assure you the money will be put to a very good use. I am 24 years old and have lived in South Dakota 21 years."

Hospital Her Goal

Imagine the earnest prayers and hopes that went into the fingers of this energetic

little woman as she grimly hunted through the night waves determined to earn the money to pay for her hospital bill. She had no happy thrills of anticipation as to how she would spend it for pleasure. Who knows? It may have been a direct means of prolonging her life, for there is enough left to allow her relief from worry and perhaps a measure of care that she might otherwise feel herself unable to afford.

A letter from Mr. and Mrs. Johannessen of Grand Rapids, Mich., says:

Filled "Great Need"

"Mr. Johannessen and I join in gratefully acknowledging the receipt of your check for \$500 in the Whozit game from Radio Station WMCA. It is doubly appreciated as it came at a time when it filled a great need. You might be interested in knowing that our Radio set is one put together by Mr. Johannessen. It is a five tube neodyne, the parts coming from Kresge's 25c to 50c store. We have had coast to coast reception and it has given us excellent service."

There was some doubt as to whether \$500 would mean much to Mrs. Bereniece C. Ellis, who won the first Whozit prize from WNAC, Boston. The check was acknowledged by her mother from the home in Maine. It was explained that Mrs. Ellis was in Haiti. It was thought she was probably there just for a good time while the winter storms raged in Maine. But a recent letter from Mrs. Ellis gives her address as First Brigade, U. S. M. C., Port Au Prince, Haiti. That "U. S. M. C." means a lot to patriotic Americans. God bless the Marines!

Hubby Horns In

"We enjoyed the Game of Whozit last winter. I say 'we'—I played the game but used my husband's Radio set; and like all men, now that I have won the prize, he is sharing the glory. He is quite interested in Radio, however, and we think we have a very fine set. The programs from WNAC are always good and we are looking forward to the time when we shall be able to enjoy them again. We have picked up WLW, Cincinnati and WEBJ, Brooklyn, on the little two tube set which we brought down here—not bad when you consider the conditions."

Next Radio Digest will publish another list of Whozit winners and more letters from those who have received their prizes.

Vote for Socialist Station

BRIDGEPORT, CONN.—A fund of \$25,000 was voted at the state Socialist convention here to be applied to a \$250,000 fund for the purchase of a New York broadcasting station to be used for dissemination of favorable propaganda.

SHORT WAVES

By Marcella

(Continued from page 2)

No wonder the KOMO's Richardsons can charm the hearts of the ladies. They are three of the most attractive Irishmen Killarney ever produced. They came to this country in 1909. The two older ones, Gordon and Fred, took naturally to the stage and spent much time in vaudeville and musical comedy. Neither one is married, girls, and that's that. Gordon is quite blond and not so tall. He writes plays and musical comedies in his spare time. Fred is like Doug, red-haired and built like a football player. He was a famous one in his high school days. Then he served in the army and also on the Seattle fire department. That was before he went on the stage with Gordon. When he isn't on duty at KOMO, he takes his rod and his gun and his German police dog and spends the day out of doors. Doug, even though he is the youngest and looks like a school boy, is married and has two children, Doug Jr., three years old, and Victor, six months. This youngest Richardson is getting terribly famous as a composer. Now Miss Nobody in Particular, turn to the first page of the programs and thank the Program Editor prettily, because she was a dear and let me use the picture of the Richardsons there.



Bernie, "and have a little daughter, age three, who has me completely vamped. Oh, yes, I have my hobbies. When I am not on the air, I dabble at painting portraits and landscapes in oil."

Wouldn't you love to sit for the artistic Bernie? That's something that's never happened to Marcella! Please, please come to Chicago and paint my picture and then everybody can tell just what I look like.

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.

WOMAN'S PROGRAM INDEX

(Daily Unless Indicated)

Household Economics, Women's Hour, Etc.

Table listing radio programs for Household Economics, Women's Hour, etc., with columns for Atlantic, Eastern, Central, and Mountain Pacific time zones.

Table listing radio programs for Household Economics, Women's Hour, etc., with columns for Atlantic, Eastern, Central, and Mountain Pacific time zones.

"Aunt Sammy"

Table listing radio programs for "Aunt Sammy" with columns for Atlantic, Eastern, Central, and Mountain Pacific time zones.

Women's Clubs

Table listing radio programs for Women's Clubs with columns for Atlantic, Eastern, Central, and Mountain Pacific time zones.

Fashions and Sewing

Table listing radio programs for Fashions and Sewing with columns for Atlantic, Eastern, Central, and Mountain Pacific time zones.

Health and Beauty

Table listing radio programs for Health and Beauty with columns for Atlantic, Eastern, Central, and Mountain Pacific time zones.

Gardening

Table listing radio programs for Gardening with columns for Atlantic, Eastern, Central, and Mountain Pacific time zones.

Table listing radio programs for News with columns for Atlantic, Eastern, Central, and Mountain Pacific time zones.

News

Table listing radio programs for News with columns for Atlantic, Eastern, Central, and Mountain Pacific time zones.

## ART GILLHAM, WHISPERING PIANIST, "EXPOSED"



Above, Hal and Lou, the two little "Whispers." At the right, Art and Mrs. Gillham (Delores Valesco).



POOR old Art Gillham, plodding across the country on his dilapidated snowshoes, lugging 365 pounds of perspiring avoidupois, dragging himself into charitable broadcasting stations and resting on piano stools while he drives his fingers to work—he can't win. He simply can't.

You've heard him, perhaps, and his plaintive whisper—they call him the "Whispering Pianist." The name came to him as a second christening in the town of his birth after he had lived and traveled the country over. Lambdin Kay, master of ceremonies at the WSB station in Atlanta, administered the title for the first time in a public way, because Art is believed to be the first person ever to have made a whispering gallery of a Radio studio.

But he keeps on going, even if he can't win, and thousands of listening fans each night search their dials for him whether he be singing his doleful song from the heart of the Eastern metropolis or from a cell in the jail at Everett, Washington, where he once found himself with the omnipresent microphone suspended from the dingy ceiling.

"I can't sing, never could, never will. I'm just a poor, fat, baldheaded old plodder trying to get along the best I can," he confides to the sympathetic listener.

### Make Room for Gillham

During the recent R. M. A. show in Chicago, Art found an opportunity to call at the office of Radio Digest. He was announced to the editor. Two chairs were placed in readiness to receive him. The typewriter desk was pushed over to the wall, the wastebasket and Webster's unabridged were taken out and the place made as commodious as possible.

In making preparations the help kept passing around a tall, thin, unobtrusive young person who stepped obligingly from side to side.

"All right, send him in," went the word to Mary, at the door.

"Why, he is in. Didn't you see him?" answered Mary.

The editor looked up at the solemn looking young beanpole with the shell rimmed glasses and pompadour hair who had been dodging the furniture as it was pushed about.

"Did you see a fat, baldheaded man by the name of Art Gillham?"

"That's me, I guess," said the visitor. "I've been losing weight since I started walking East from the Pacific with the baby seal for a mascot. Coming through Iowa, where the tall corn grows, I took on height and hair."

So we are giving you here the real low down on this popular favorite of the air.

### Here's Low Down

Art Gillham was born in Atlanta—in time to be of service during the World War. His early youth was spent in St. Louis where he graduated from Central High. There he developed his musical instincts and organized a school orchestra. "It was born in him," as they say in Atlanta. His mother was a well known singer and his grandfather, on his father's side, knew fame as Isham Gillham, musical director for the great Ole Bull.

"We played for money, of course," said Art, crossing his long thin legs and lighting a cigarette. "It was a wonderful thrill. We played for private parties at the homes of some of the mothers of high school students. Then we went into public auditoriums. Afterward I had a piano studio at Grand and Olive, where I made a specialty of teaching popular music."

In Los Angeles Art organized his famous "Society Syncopators." They traveled

(Continued on page 19)

## Expedition Goes Magnet Hunting

Secrets of Terrestrial Magnetism Object of Search by Putnam Explorers at Baffin Island

NEW YORK.—Romance, exploration and adventure on this little old globe, World, are still marvelously possible as recent events have shown. The latest of interest to Radioland is the expedition to the Arctic in search of the exact location of the magnetic pole.

Already the schooner Morrissey is heading into the north Atlantic on this mystic quest. When old Captain Bob Bartlett, in command of the ship and one of the Peary veterans, comes abreast of West Baffin Island with the members of the Putnam-Baffin Island Expedition aboard, it will mark the nearest that Radio has ever been taken to the magnetic pole.

### Visit Unexplored Region

What will be found? How will the magnetic instruments behave? How will the Radio apparatus perform? Do Radio waves flow in and out of this terrestrial magnet? What other influences will be observed? A hint at the beginning of this important work of discovery has already been given to science by Lieutenant Commanders Donald B. McMillan and E. F. McDonald from an expedition of two years ago. Now, taking up what was learned from that point, new and far reaching data is expected to be obtained.

The Putnam-Baffin Island Expedition, headed by George Palmer Putnam, left New York on June 11 for West Baffin Island, a region unvisited by white men since its discovery by Luke Fox in 1631. Sponsored by a number of scientific societies, the expedition is equipped for a thorough survey of the geographical, oceanographic and anthropological aspects of the rugged North country.

### Make Radio Tests

Radio operations and experimental work will be in charge of Edward Manley of Marietta, O. The Radio equipment as shown in the accompanying picture includes a generator-powered transmitter with the UX 852 tube, two especially built Radio receivers; one long wave and one short wave, and a portable battery transmitter. Current will be available from 37 dry batteries for the portable.

But don't forget the romance. A serious search is to be made for the lost tribe of blond Eskimos, reported to have been seen in the wilds of Baffin Island three centuries ago by Nicholas Tunes. Old ruins have been found showing that Norsemen had landed there long before the days of Columbus. Perhaps tablets or carvings may be found of Lindbergh's early ancestors who were the first to cross the Atlantic from the East by boat. Christopher Columbus may be relegated to the "also rans" of transatlantic adventurers.

### Federal Radio Data Available

WASHINGTON.—The Government Printing Office issues technical Radio papers compiled by the bureau of standards which are obtainable at prices from five cents to one dollar. A list of the subjects is available for the asking and without charge.

## Radio Signals Circle Globe

BERLIN.—Code signals sent from New York have been received from both sides of the globe, resulting in confusion, although the difference in time of the arrival was only an infinitesimal fraction of a second. A special trap was arranged to exclude all signals coming from the west and the trouble has thus been eliminated. The next big globe hurdling event will be to hear a human voice that has zipped around the world.

## Shenandoah Entertains 25,000 at Flower Show

Radio Stations Attract Farmers from Wide Area

SHENANDOAH.—Probably no town in the United States has benefited from Radio so extensively as Shenandoah, Iowa. This is evident from the tremendous crowd that has swarmed in for the current flower show, a crowd of from 25,000 to 30,000, or about five or six times the normal population.

The majority of the visitors were farmers from hundreds of miles about who came here to see the flower show, and also to see the two broadcasting stations, KMA and KFNE, which cater especially to their needs.

"Whatever jealousies may exist in other cities and among other communities concerning the activities of the Shenandoah broadcasting stations there can be no doubt but we have plenty of friends," said Earl E. May, owner of Radio Station KMA, and winner of the Radio Digest popularity contest last year.

The flower show was a climax in the way of a demonstration. It was the largest crowd of people ever assembled in Shenandoah, according to the Shenandoah Evening Sentinel, which has been recording the news of the community for more than 26 years. There was not a single instance of drunkenness or disorder, although some confusion resulted from traffic congestion.

Both the May and the Field nurseries presented remarkable floral displays and the story of the show was broadcast from both stations. Visitors thronged through the stations, curious to observe the source of their daily programs. The two stations distributed 29,000 badges in one day. Mr. May is president of the national association of nurserymen.

## Crystal Receiver Spans Atlantic

A crystal set in Ireland has reached across the Atlantic and picked up several American programs, according to Popular Mechanics magazine. Dr. Ellison of Armagh observatory made the long distance crystal record with the aid of a kite from which he suspended a 2,500 foot aerial as an incident to other electrical experiments.

## EQUIPPED FOR POLE EXPEDITION



EDWARD MANLEY is shown above at his Radio receiving and transmission sets, aboard the *Ed Morrissey*, commissioned to carry the Putnam-Baffin Island Expedition into the Arctic in search of the magnetic pole. They will visit regions hitherto unexplored by white men and report back to civilization through short and long wave transmitters. The generator power transmitter is shown at left and the battery powered transmitter with UX 852 tube is shown on the shelf above. The latter has four Radio frequency chokes. The circuit is shown as a tuned plate and tuned grid circuit, for use on 33 and 20 meters. Twenty B batteries supply 900 volts as power. Mr. Manley believes this equipment will be ample to keep the *Morrissey* in constant touch with New York and the rest of America.



# TORCH of YOUTH

## FIDDLERS DEMAND Their Pay and Babe Faces the Consequences of His Ill Advised Aid to Weiss—Wanda Waits in Vain and Stub Reports to Uncle Joe

Previously Published

By GRISWOLD BAER

sensation at her heart. Her fingers felt like ice and she trembled as she tore the end from the envelope. She read:

My Dearest Da:

I know you are entitled to a lot of explaining, but I cannot take the time to do it now. In fact there is an automobile full of assassins waiting in front of this building right now, waiting for me to meet you here. You will not see nor hear from me, perhaps, for a long time. Only this, I know that I love you more than anything else in the world, that I have loved you ever since you were a little girl with curls over your shoulder, that I shall always love you. Please give me a year, after that if you do not hear from me I shall consider that my chance has passed. It may be that we shall never meet again. I have made a mistake that I am going to try and correct. Please forgive, but do not forget me. OMAR.

For a minute Wanda sat weakly in her chair. Then she tried to reread the missive. When she came to the word "assassins" she sprang quickly to her feet and rushed to the entrance, the note in her hand. The curtained automobile was still there. She ran to look at the license plate, but it was covered by the lower part of the spare tire. She turned toward the corner in search of a policeman. There was a snort of back-fire, the engine of the mysterious car suddenly roared, backed, then flashed away. She hurried to the driver of the Orange cab and ordered him to follow the car. He jumped into his seat, appeared to make an effort to start his motor. But there was no response. He stepped out and opened the hood to look at the mechanism. He got out his pliers and worked at some of the adjustments.

WANDA watched the speeding car turn west at the next corner and became frantic. She jumped out of the cab and implored the driver to make speed. But he looked up with a cold, unsympathetic smile.

"I'm afraid I can't move it, miss," he said. "The engine is cold and I can't seem to get it going. You will have to get another machine, besides I am waiting for another passenger."

"You were waiting for Mr. Garden?"  
"Let's see." He looked at his card. "Yes, Mr. Garden, do you know where he is?"  
"No, but those men were also waiting for him and I must know who they are—Help! Police! I must have a car. Go get me another car."

"What's the matter? They're gone. It's too late now."

A short, sporty looking man stepped out of a doorway. The driver looked at him with a surprised expression.

"It's no use," said the short man, "them guys have gone. They're half way to Cicero by now. This fellow wouldn't dare follow them, even if he wanted to."

"But I must know all about it and I'm going to find out. They have threatened Mr. Garden who ordered this cab."

"Oh, is that so? Where is he?"

"Oh, what can I do? What can I do?"

"Just go home and let somebody else do it. Fellers like them ain't any kind of folks for nice ladies to have anything to do with and if your friend, Mr. Garden, is mixed up with 'em the quicker he gets unixed the better. I'm a detective and I figured they were here for no good purpose."

"If you are a policeman why didn't you stop them?"

"You don't understand, miss; perfectly good reasons, though. You had better go home until you hear from Mr. Garden."

The taxi man now had his engine going and obtrusively wheeled away.

"But I'm not going home," Wanda stubbornly persisted. "I want to know all about who those men were and why they wanted to kill Mr. Garden."

"Are you sure they wanted to kill him?"

"He left me a note and told me they were assassins. He said he was going away."

"WELL, I'm glad to hear he is going away, because he has done something, or at any rate they think he has done something, and they think he is one too many or knows too much and they may want to make sure for themselves that he is out of their way. You must excuse me, miss. I'm in a hurry now. I advise you to just do nothing and  
(Continued on page 20)

the Sugar Bowl."

"You really don't think Karl would be so desperate as to attempt any violence,—"

"I don't know. I can't say anything more right now, he's—"

Wanda was surprised to hear the receiver click in her ears. She turned to the anxiously waiting Stella and told her the import of what Babe had said.

"Innocence," chided Stella. "He's crazy

become vocalized in her mind. It cried out at her as she stepped along toward her rendezvous at the Sugar Bowl. She tried to analyze the feeling and call it just a physical condition as a result of her lack of rest and the depressing influences of the incidents of the night before.

The wind blew off the lake and over the frozen bay with penetrating chill. The glazed front of the great Sugar Bowl with



THERE'S a sparkle in her eye and a tinkle in her voice, and you had better have this picture before you next time you hear the Metropolitan Light opera announced at KPO, San Francisco. She is Miss Mildred Lenore Epstein and one of those light hearted songsters who help to make the light opera light.

about you, head over heels in love and just found it out. He can't wait to tell you. Oh, I understand. Alone, of course."

"Don't be silly. I know he's in trouble," answered Wanda. But there was a warm glow in her cheek and she felt a desire to put her arms about the young man and try to soothe his troubled heart.

"I'm going to be sick until you get back. Perhaps by that time we will have heard from Dorothy. I won't talk to a soul, not even old Alex himself," Stella promised as she took Wanda's two gloved hands and looked long and deep into her eyes.

There are moments in the lives of all of us when some intangible element seems to be hovering about, a cloud through which fortune good or bad seems about to strike. As Wanda hurried along, in the cold sodden atmosphere of this winter's day, to keep her appointment with the man she believed destined for her she experienced such a feeling. "Bad news, bad news," was a phrase that seemed to have

its Delft coloring loomed with grotesque incongruity to her spirits.

AN ORANGE cab was parked near the entrance. The driver glanced sharply at her as she looked to see whether Babe was within. She stood for a moment before passing through the swinging doors of the Sugar Bowl. She noticed a very dark complexioned man observing her. He turned suddenly and spoke in low, excited tones to the unseen occupants of a curtained touring car in the rear of the cab. Then she entered the building. Could this have anything to do with Babe's agitation?

Gretchen, a student waitress, approached her almost as soon as she appeared at the foot of the winding staircase to the balcony.

"Mr. Garden hurried in through the back way about five minutes ago and said he had to hurry away and asked me to give you this note," said the girl.

Wanda took the note with a sickening

SOMETHING is happening to the Youth of today. Some maintain it is just a little bit more than the average measure of egotism. Others call it gin and jazz. Wiser heads declare that old foggy superstitions are breaking down and the modern youth is grasping the world for what it is without spirituality or false sentiments. Certain philanthropists, headed by Uncle Joe Grant founded Ivanhoe University on the southern shore of Lake Michigan to educate Superior students, who in turn are to educate others of finer clay, beginning from infancy. These are to be the torch bearers for the Youth of tomorrow. Wanda Nevens and Omar Garden, more intimately known as "Babe," childhood chums from Minnesota, find themselves drawn into the fast swirl of student life. Babe becomes involved with Nate Weiss, a bootlegger, and Karl Boescher, a ruthless student of science. Wanda and her roommate, Stella Gwynne, accompany Babe and Karl to Weiss' new country resort, Eden Garden, where Nicky Sanders, another student, drowns himself in a pool because his sweetheart, Shirley Buckhaven, flirts with Garden. Shirley is prostrated with grief. Karl takes advantage of her condition to ply her with psychological tests. He is forcibly ejected by Garden and vows revenge. Shirley goes to a hospital, Wanda and Stella return to their dormitory and Babe retires to his fraternity house fraught with fears of a reckoning with Karl and with Weiss, whom he had aided in the theft of alcohol from the University laboratory.

### Chapter VIII.

#### Kidnaped?

IT WAS nearly noon when Babe opened his eyes suddenly, at first with a sense of relief that he had just escaped from a horrible dream, then with a feeling of a heavy weight bearing down on his chest.

The shades were pulled low, but the cold morning light was streaming past the edges as the lower part swayed from the breeze that came through the window opening that had been left for fresh air. Slowly the events of the preceding night came into his consciousness. He felt the need for action. Where was Karl? Where was Babe? He sat up and ran his fingers through his thick black hair, trying to concentrate on some definite plan for his immediate movements.

A tap sounded on his door. He almost choked with sudden paralysis of the muscles in his throat as he debated whether or not to answer. A detective, perhaps. Even Karl, in his insane disappointment, might be there ready to assassinate and run. Then he looked at himself across the room in the wall mirror. Could that cringing individual covering in bedclothes be the football hero of a few weeks ago? "Well, who is it?" he called.

"Togo," answered the Japanese houseman. "I have a message from a lady who asks you to call. She has already called twice. It's Local 719, Miss Nevens."

Babe did not have a phone in his room. He thanked the Jap and said he would be down to the booth in five minutes.

It was ten minutes, of course, before he did call and heard Wanda's voice at the other end of the wire.

"We will have to get together somewhere to plan something," she said.

"Where?" answered Babe, unable to think of any place for the moment.

"Let's get a corner table in the Sugar Bowl," answered Wanda. "Better have Karl come along, too."

"He isn't here."

"Where is he?"

"I'd walk a mile to find out," answered Babe. "I'm afraid he is going to make trouble for all of us. He is more of a menace to me than you realize."

"Well, I wouldn't worry about it. We all saw what happened and you did exactly right, only, if I had been in your place, I think I would have struck him even sooner."

"OH, you don't understand. That's not the half of it. Listen to me, Da. Something's happened. Can't we two be alone? I'm just about wild, and I've got to talk to somebody; who else could it be but you? Can't we just talk it over between us two? Then you can fix it up with Stella later."

"You must be worried. Is it really serious?"

"More serious than you imagine, little girl. I'm going to get a cab so we can be absolutely by ourselves. We'll meet at

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See U.S. Part of A Day of Canada

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**T**HAT the menace of the National Broadcasting Company in securing the choicest wave band receiving the attention of the press of the country as well as Radio Digest is shown by the following editorial which appeared in the New York Daily News, the sister publication of the Chicago Tribune:

### Others Realize Menace

"The federal Radio commission has made the long-expected assignments of new wave lengths. Broadcasting results are reported good from the start of the new system. Now an important question is raised by J. F. Rutherford of WBBR, and another by WMSG at the New Garden.

"Rutherford complains to the Radio commission that the National Broadcasting company is building up a 'vast monopoly' in Radio. This company drew from the commission the most favorable frequency—660 kilocycles—and Rutherford demands 660 kc. for his own station.

"WMSG is challenging the commission itself, its creation and its right to handle Radio regulation in any manner. WMSG claims that when the commission ordered it to change its wave length, the commission took away a kind of property from WMSG.

"That a person or company can own a band of ether vibrations is a strange conceit, but stranger things have been held to be property by the courts.

"As to Rutherford's contention, most people will agree that the station which broadcasts the best programs ought to have the most favorable wave length. The shouts of propagandists and the sour notes of bad entertainment purveyors will have to be given the less favorable frequencies for the sake of the public.

"But when, and if, some other station's programs force ahead of the former best station's programs, what then? When, and if, the public wants to hear political or financial talks or news or anything else in place of entertainment, what then? Especially, what if the public wants to hear things which big broadcasters may not want it to hear?

"These questions may one day become so important as to call for submission of wave length allotments to direct vote of the people from time to time. Bear them in mind."

"We are daily listening to friends we have made by way of Radio in New York City, Atlanta, New Orleans and Los Angeles. They are our friends. We have learned to judge their personalities and have learned to like them for the pleasure they have brought us. Our national heroes, our great business men, our great entertainers, are no longer strangers, to be honored at a distance. They come directly into our home lives and speak to us. We hear their voices and we know them as we have never known them before."

—Senator Capper

Since business is dull with the Interstate Commerce Commission we recommend an investigation of the toll charge on wires used for broadcasting.

New York broadcasters threaten court action to secure equitable wave lengths. Two of the Commissioners have not been confirmed by the Senate.

The eventide of life bathes memories with a yellow glow.

Knowledge is a stroller down well worn paths.

Leaving the heir: "May the Lindberghs of broadcasting have the freedom of the air."

## RADIO INDI-GEST

### July

July, July—you tune and sigh,  
DX Stations are passing by—  
Ukes play on, and banjos strum  
But only static cracks your drum.  
"Wendell Hall will take the mike,  
And play you something that you'll like—"  
You give the dial one tiny touch—  
Bingo! Jingo! Zowie! Ouch!  
A static shimmy—then a shout,  
Both your ears turn inside out.  
The locals then will satisfy,  
DX for winter—not July.

—Tinkertube

### A Cow-stallment Plan

**R**ADIO listeners who are buying their more expensive receivers on the installment plan have the satisfaction of knowing that if they do not like any special kind of domestic broadcasting all they have to do is turn the switch and enjoy blissful silence. Not so with the poor Zulu who buys his loud speaker the same way, but—well, the details are mercifully omitted in this letter from William H. Dodge, formerly president of the Allied Newspapers, Inc., to Editor and Publisher:

"Last week we trekked back into the African bush and looked in on a Zulu kraal. Through our guide, we were invited by the headman to enter his bee hive hut. Squatting in the shadows to the rear we saw our host's spouse. With obvious emphasis the lord and master detailed the fact that this black Venus had set him back eleven cows.

"A second look at his matrimonial bargain gave rise to the suspicion that there must have been something wrong with the cows. They could not have been such as our well known 'contented' kind.

"But our Zulu Romeo did fairly well, for his wife had borne him three daughters, two of whom, reduced to the bovine common denominator, had yielded a net profit, on the marriage market, of one hundred per cent over his original investment.

"As proof that our 'deferred payment system' has penetrated Darkest Africa, and that they apply it beyond flivvers, furniture, frocks and furbelows—note this: A third daughter was later sold, in a falling market, on the Own-Your-Own-Wife—One-cow-down, one-cow-per-month, plan.

"The last son-in-law is still struggling with his cow payments, dreaming no doubt of the day when his daughters will serve to crown, with cows like these a youth expectant, with an age of ease.

"Cows are legal tender here when one or more wives are purchased."

### NuRwErle rImEs. #8 - 9 or 10:

ThAR wuS A MAnn Inn OuR toWn,  
HEE wuS WOUnderlous Wize U bett.  
HEE tuck A LoTT of juNk & WiEr  
AnD MaDe A RaDio Sett.

Old King Tutt Hiz1self.

### Studio Perils

**O**NE should not put one's trust too implicitly in piano spreads for bed covers. Leslie Adams of KFI vouches for this sophistry, according to the KFI news bureau. But a few hours intervened between the Saturday Midnight Frolic and preparations for the Sunday morning devotionals, so Leslie folded his nice flannel pants and laid them on a chair while he slept on the studio divan beneath the folds of the piano spread. Finally, after dropping off to sleep to the tune of a prowling vacuum sweeper, he was awakened by women's voices. We leave the rest to the formal news bureau report:

"The women's choir of a prominent church had come in early to rehearse one song and had discovered Adams on the divan—and, according to their anguished reports later, the brocade piano cover had slipped off."

### Another Chain

**G**ET ready for a hot political campaign. Radio will win the votes of the nation. Leaders are considering handcuffing the orators to mike—or make it a "mike and chain."

### Whatcha Mean, 'Little Port?'

"**W**HATCHA got in that box?" Inquired the Inspector as the American motor tourist was about to return over the International bridge.

"Just a little port—"  
"A little port, eh? Go back and get rid of it before I take ye to the judge."  
"Only five tubes—"  
"Five tubes! Holy mackerel, then ye are a bootlegger! Sure ye're outa luck, now. Nawthin' doin'!"  
"You misunderstand, sir. It's my five tube portable radio receiver."

### The Cat's Whisker

"**Y**ES," said the mother cat, licking her favorite kitten's ear, "you may be proud of your ancestry. Your great, great grandfather furnished the first whisker for a crystal set."

"What'll you have, what'll it be?"  
"Asked Beauty Doctor F. R. C."  
"A permanent wave I'll take, I think,"  
"Replied Miss Radio Station WINK."

—INDI.

## Today on the Air

KOA BROADCASTS THE CHEYENNE RODEO



KDKA PUTS ON THE NATIONAL OPEN GOLF CHAMPIONSHIP



COMM. BELLOWS TELLS THE BROADCASTERS THEY WILL HAVE TELEVISION SOON.



## Condensed

BY DIELECTRIC

**W**ILL we ever forget the excitement prevailing among spectators, listeners and announcers when Lindbergh made his triumphal entry into the thousands of cheering people forming the lane through which he passed to receive the highest flying award in our country! "Mac" has been slightly nervous on previous occasions, never, however, to such an unusual degree as when our unofficial ambassador of peace was about to step off the Memphis onto the dock at the Washington Navy yard. It was hard to credit the voice we heard as that of the calm, bantering, cheery announcer, winner of a former Radio Digest "Most Popular Announcer Cup." But McNamee had most able support in the persons of Milton Cross, Frank Daniel and Phillip Carlin, all three of whom displayed rare skill in giving thirty or more millions of us a bird's-eye view of proceedings.

The National Broadcasting Company is claimed to be the most perfectly functioning organization on the air—at least they think so. Yet there has been unfortunately still is, a practice which may truthfully be described in no other terms than an abomination. It occurs more frequently when Station WJZ, New York, is master of ceremonies and consists in breaking off a broadcast feature before the termination of the proceedings. There can be little good will for a station which advertises to give an event of general interest, only to transfer the audience back to the studio at an interesting point in the special program to listen to some commonplace number from its studio or other location. I suppose the machine-like schedule upon which this station operates compels an action like that, if so, then for pity sake honestly inform the expectant listeners they need anticipate hearing only a portion of the event.

Station WSB, Atlanta, retains its place in my affections despite telegram reading and sometimes too lengthy perorations. Its station Lamdin Kay made famous anyhow and there is something of the feeling of hearing from an old friend when this dew competitor comes into the headphones (I never rely on a speaker to give me the quality of tones). Well, on one of their recent programs I happened to be in time to listen to a pianist playing selections of a brilliant style with more than enough technical skill to handle the difficult passages, although his use of the pedal was not all that one might desire. In addition to his very entertaining portion of the program, a baritone of good voice sang some numbers familiar to most everybody. Of all his selections possibly the best rendered was that favorite the Kashmiri song, which is not easy to sing as intended, for the poesy of it is generally lost.

A trip to the World's Playground station, WPG, Atlantic City, brought one of the choicest bits of artistry broadcast since the winter season of superb concerts closed. In connection with the convention of National Electric Lighting Association members one of our leading tenors sang a group of songs chosen from an English and Italian repertoire in his usual painstaking style. With the singing of a favorite aria from the opera Martha, Mario Chamlee gave all the beauty of tone of which he is so capable and sang his way right into a tremendous applause from those present. His Italian diction was impeccable and later, in English, just as much so. One number (sung in English) with which your reviewer was not at all familiar, so perfect was Mr. Chamlee's diction that not a word was unintelligible. Very few present day tenors possess a quality, subject to tone coloring, so pleasing and unspoiled.



AN EVENING AT HOME WITH THE LISTENER IN IN EASTERN TIME

Reader's View

Circuit Proves Faithful

I HAVE listened in since December, 1922, and received 500 stations, all on the same set and with the same detector tube. You may be interested in knowing that the set is a Reinartz circuit built to Radio Digest specifications. All my stations have been checked and verified, including two in Porto Rico, three in Cuba and five in Mexico. And the old set with the old detector tube is still bringing in both coasts on the loud speaker, with but two stages of amplification. Interference, while troublesome, is seldom sufficient to completely spoil a program, but certainly there is a need for reallocation of stations, if not a weeding out. We notice a number of wave bands here that do not seem to be in use except a small part of the time, while others are overcrowded most of the time. It would seem that adequate time division between a number of stations that do not broadcast daily programs would aid greatly in reducing interference, and also placing stations of lesser power on wave bands between stations of greater power, thus reducing heterodyning.

I suppose that they are using only 5,000 at present. When they begin using more, if they do, the Lord have mercy on us. For only His mercy will save us. Those of us who have smaller and less selective sets might just as well tune in on KOA and let them stay there. You can hardly cut through now. But since KOA is one of the BIG ONES, I suppose that we must give in. On the other hand WJAZ gets it "in the neck." The ways of commissions seem past finding out. But since WJAZ exercised its legal rights, as upheld by the courts, an example must be made of someone who went against the "BIG ONES" and it might as well be WJAZ as any one else. Keep it up, Brother. I glory in the man who takes up the fight of the "little fish" or the "down dog" whichever you want to call them.—Frederic Tevis Krueger, Pastor Community Church, Castle Rock, Colo.

Likes His Style

IF EVERY one of the announcers would favor the fans as does the announcer at Jefferson City by giving his wave length "by authority of the Federal Radio Commission," it would be much easier for us to log. This gives us a feeling that the wave is permanent and right.—Mrs. James Robinson, 507 N. College st., Neosho, Mo.

Biffs the "Highbrows"

OF COURSE we cannot expect "ignorant" people to appreciate the wonderful chain programs put on from New York; the crowing of roosters and croaking of frogs is sweeter music to them. Fewer programs and better ones will raise many broadcasting stations in the estimation of their listeners. Chain stations, at least while broadcasting chain programs, should, I believe, be confined to a few definitely allocated wave bands, to minimize interference for those who wish to listen to other programs. The chain program is on the whole an excellent thing, but if it is not to one's taste it should not be allowed to monopolize the air to the exclusion of other programs.—H. C. Nystrom, Rapid City, So. Dak.

"Ask Me Another"

IS IT not true that Radio broadcast owes its rapid and substantial growth to the leadership of the stations of the "Big Four?" Was it not KDKA which inaugurated regular entertainment broadcasting six and a half years ago, and which became the pioneer in many services to the Radio public? Was not KYW the first station to broadcast opera for (Continued on page 21)

"On the Right Track"

KEEP it up. You are on the right track in your editorials in the second June number of your esteemed paper. But you missed it in the case of KOA. This station has been assigned 12,500 watts power.

Table with columns: Call, Location, Met., Ke., Saturday, Sunday, Monday, Tuesday, Wed., Thursday, Friday. Lists various radio stations and their broadcast schedules.

The NEW Radio Book. How to understand radio, assemble circuits, improve reception, operate sets, and is your Radio reference book. Includes an image of a radio receiver.

The greatest assemblage of facts and hints, from actual everyday practice, ever gotten together. Edited by the technical staff of Radio Digest, it supplies the demand for a book covering every phase of Radio. Starts at the beginning with simple explanation of Radio reception, with technical explanations of the different parts and leads right on to the more advanced instruction. A complete handbook serving as a ready reference in the Radio field. It gives suggestions on parts and sets which will prove to be a money saver. The full size template and working instructions for an efficient 7-tube super-het are essentially an important part of this book. Special chapter is devoted on the "How to Operate," which gives detailed information on the operation of many well-known sets.

Mail Coupon Today. Includes fields for Name, Address, City, State, and a large 'free' graphic.



# CANADIAN DIAMOND JUBILEE ON AIR

and three more versatile than the three smiling who do everything from radio and musical comedies, Seattle, Loretta Lee, who not only graduated from college but who has a well-modulated and will probably be the more station WBAL's. On the right is the who has been giving BB. Miss Hinrichs is Europe and America.



## SATURDAY, JULY 2 Headliners

Atlantic	Eastern	Central	Mountain	Pacific
7:45 p. m.	6:45	5:45	4:45	3:45
WBFO (416.4m-720kc)	August Breimeier, tenor.			
WJZ (454.2m-660kc)	Norman E. Sweetser Radio evening.			
WBZ (333.1m-900kc)	Pop concert.	7:10	6:10	4:10
WPX (234.2m-1280kc)	Anna Beckman, soloist.			
WFP (508.2m-590kc)	Kurtz studio quartet.			
WPG (272.6m-1100kc)	Steel Pier minstrels.			
WPX (234.2m-1280kc)	Arthur Findling, baritone.	8:30	7:30	6:30
WLAS (461.3m-650kc)	Florence Hayes, pianist.			
WMAQ (447.5m-670kc)	popular song cycle.			
WOC (352.7m-850kc)	H. O. DeBoer, tenor.			
KLDS (238m-1260kc)	Andrew Norman, harmonist.			
WBAP (499.7m-600kc)	King Sisters.			
WCCO (405.2m-740kc)	First Timers.			
WGN (399.8m-750kc)	Ev Jones and his Merry-makers.	9:20	8:20	6:20
WLVJ (428.3m-700kc)	Melody boys.			
WCAE (306m-660kc)	Ray Melchiorre, banjo artist.	10:30	9:30	7:30
WFAA (499.1m-600kc)	Ladies' vocal quartet.			
WGN (306m-660kc)	Over the hills and Far Away, Russia.			
WCCO (405.2m-740kc)	Music School.			
KFVI (267.7m-1120kc)	Darnelle Sisters.			
KGO (384.4m-780kc)	KFO (422.3m-710kc), KFM (468.5m-620kc), KGW (491.5m-610kc), KOMO (305.9m-890kc), Saturday night review.			
KHJ (405.2m-740kc)	Old time KBJ favorites.			
WJZ (454.2m-660kc)	Juanita Tennyson, soprano.			

## Regular Saturday Features Atlantic or Eastern Daylight Saving Time Stations

WAAM Newark, N. J. (348.6m-860kc)	6-11 p. m. musical.
WBAC New York, N. Y. (352.9m-920kc)	12 mid. midnight medley.
WBQ Philadelphia, Pa. (260.7m-1150kc)	6 p. m. Low's Fattler; 9, musical; 9:30, program.
WBZ Springfield, Mass. (333.1m-900kc)	6:15 p. m. ensemble; 7, orchestra; 7:33, concert group; 8:05, pop concert; 10:40, orchestra.
WCAE Pittsburgh, Pa. (516.3m-580kc)	6 p. m. dinner concert; 8, WEAF; 10:15, orchestra.
WCAU Philadelphia, Pa. (260.7m-1150kc)	6:30 p. m. orchestra; 8:45, architects; 10, orchestra; 10:30, Picaadilly orchestra.
WEAF New York, N. Y. (491.5m-610kc)	8:30 p. m. Goldman band concert; WEEL, WJAR, WRC, WLIT, WCAE, WTAM, WWT, WSAJ, KSD, WRC; 9, time. WEEL, WJAR, WRC, WLIT, WCAE, WTAM, WWT, WSAJ, KSD, WGY, WMAQ; 9, Goldman band; continued; 10:15, orchestra; WRC, WGY, WSAJ; 11, orchestra.
WEEI Boston, Mass. (447.5m-670kc)	8:30 p. m. WEAF; 10 p. m. cruising the air.
WFI Philadelphia, Pa. (405.2m-740kc)	8 p. m. topics; 8:15, musical; 10, musical; 10:30, orchestra.

WGBS New York, N. Y. (348.6m-860kc) 7:30-12 mid. program.  
 WICC Bridgeport, Conn. (214.2m-1400kc) 8:30 p. m. Ritz ballroom.  
 WIP Philadelphia, Pa. (508.2m-590kc) 7 p. m. bedtime story; 9, concert; 10, orchestra; 11:05, organ.  
 WJZ New York, N. Y. (454.2m-660kc) 7 p. m. orchestra; 8, Radio evening; 10, Keystone duo; 10:30, orchestra.  
 WMAK Buffalo, N. Y. (545.1m-550kc) 7:30 p. m. musical; 8:30, program; 9:30, musical; 10:30, studio program; 11, Silver Slipper club.  
 WMCA New York, N. Y. (370.2m-810kc) 6:30 p. m. orchestra; 8, musical extravaganza; 9, boxing bouts; 11, entertainers.  
 WMSG New York, N. Y. (236m-1270kc) 6 p. m. program; 10, orchestra.  
 WNAC Boston, Mass. (352.7m-850kc) 6:30 p. m. dinner dance; 7:45, Lady of the Ivories; 8, boxing bouts; 10:05, dance music.  
 WOR New York, N. Y. (422.3m-710kc) 6:15 p. m. ensemble; 9:30, orchestra; 10:55, news; 11, orchestra.  
 WPG Atlantic City, N. J. (672.5m-1100kc) 7:10 p. m. organ; 8:30, health talk; 10:10, feature; 10:30 dance orchestra; 11:30, dance orchestra.  
 WTAC Worcester, Mass. (516.9m-580kc) 8 p. m. orchestra; 10, orchestra.

## Eastern Standard or Central Daylight Saving Time Stations

KDKA Pittsburgh, Pa. (315.6m-950kc) 7:30 p. m. concert.  
 KJW Chicago, Ill. (526m-570kc) 7-8 p. m. melody hour; 9:10-30, classical concert; 10:30-11:55, carnival.  
 WBBM Chicago, Ill. (389.4m-770kc) 7 p. m. orchestra; 10, studio program; 12, request period.  
 WBCN Chicago, Ill. (298.3m-1040kc) 7 p. m. classical program; 10, orchestra.  
 WCFL Chicago, Ill. (483.5m-620kc) 6 p. m. labor hour; 7, trio; 8, Vaudeville night; 9-12, Chez Pierre orchestra.  
 WDBO Orlando, Fla. (288.3m-1040kc) 9 p. m. Bagdad serenaders.  
 WENR Chicago, Ill. (365.6m-820kc) 7-8 p. m. hotel orchestra; 10-12, orchestra.  
 WENR Chicago, Ill. (288m-1040kc) 6 p. m. organ; 8, Samovar orchestra, program; 12, frolic.  
 WGN Chicago, Ill. (406.5m-860kc) 6:10 p. m. Punch and Judy; 6:35, ensemble; 6:50, Old Fashioned Almanack; 8:15, WEAF; 8:30, Salerno; 9:30, Over the hills and Far Away; 10, Sam Henry; 10:10, music hour; 10:15, musical.  
 WGY Schenectady, N. Y. (379.5m-790kc) 6:30 p. m. musical; 7:30, WHAM; 8:30, WEAF; 9:15, WEAF; 10, dance music.  
 WHK Cleveland, Ohio (265.3m-1130kc) 8 p. m. program; 11, Rubberneck man.  
 WBEA Norfolk, Va. (416.4m-720kc) 8 p. m. program.  
 WIBO Chicago, Ill. (416.4m-720kc) 6-8 p. m., 10-11.  
 WJAX Jacksonville, Fla. (326.9m-890kc) 7 p. m. dinner program; 11, dance music.  
 WJAZ Chicago, Ill. (394.5m-860kc) 7:30 p. m. orchestra; 8:15, studio program; 9, program.  
 WJDD Chicago, Ill. (365.6m-820kc) 6 p. m. director's hour; 12, Palmers House program.  
 WJR Detroit, Mich. (440.9m-680kc) 7 p. m. good will ensemble; 11:30, Pontiac Tribe.  
 WLS Chicago, Ill. (305.9m-890kc) 7 p. m. dinner concert; 11-12:30, artists.  
 WLS Chicago, Ill. (344.6m-870kc) 7:10-11, barn dance.  
 WLW Cincinnati, Ohio (428.3m-700kc) 7 p. m. organ; 8, broadcast; 9:20, Medley Boys; 9:40, Castle Farm.  
 WMAQ Chicago, Ill. (447.5m-670kc) 7 p. m. dance music; 8, photologue; 8:30, song cycle; 9:30, orchestra.  
 WOK Woodrow, Ill. (252m-1190kc) 9:12-20 a. m. Del Lampe and Trianon orchestral; Hawaiian serenaders; Jack and Jill; George Allen, Marie Tully.  
 WRC Washington, D. C. (468.5m-640kc) 7 p. m. program; 9, studio program.  
 WQJ Chicago, Ill. (447.5m-670kc) 12 p. m. popular program.  
 WRC Washington, D. C. (468.5m-640kc) 7 p. m. Bible talk; 7:30, WEAF; 8:10, WEAF.  
 WSAJ Cincinnati, Ohio (361.2m-830kc) 7 p. m. music; 7:30, WEAF; 9:15, orchestra.  
 WSCB Chicago, Ill. (232.4m-1290kc) 6:30-8 p. m. Hugh Swift and his Serenaders; dinner concert; 9-11, popular program.  
 WVA Norfolk, Va. (218.5m-1370kc) 7 p. m. dinner concert; 8:30, recital; 10, dance music.  
 WTAM Cleveland, Ohio (399.8m-750kc) 6 p. m. orchestra; 7, studio concert; 8:30, Focobantans Indians; 9, Ev Jones and his Merry-makers.

## Central Standard Time Stations

KFAB Lincoln, Neb. (309.1m-970kc) 5:30-6:30 p. m. Hotel Lincoln orchestra; 8:30-9, Buick Little symphony; 9-10, Chamber of Commerce program.  
 KFH Wichita, Kan. (245.8m-1220kc) 7:30 p. m. artists' program.

## FARMERS' PROGRAM INDEX

### Special Farm Features

### Weather

#### Local Time

KDKA, 10 a. m., 10:55 p. m.  
 KFHF, 8:30 p. m.  
 KFNF, 7:30 a. m., 12:40 p. m.  
 KFOA, 4:30 p. m.  
 KFVIL, 10:30 a. m.  
 KGA, 6 p. m.  
 KGO, 12:30 p. m., 6:55 p. m.  
 KGW, 10 a. m., 7:30 p. m.  
 KJR, 12 p. m.  
 KMMJ, 9:30 a. m., 12:30 p. m.  
 KMOX, 1 p. m.  
 KOIL, 11:45 a. m., 5:50 p. m.  
 KOMO, 12:15 p. m., 8 p. m.  
 KPO, 12 p. m.  
 KYW, 10:55 a. m., 11:55 p. m.  
 WABC, 11:55 a. m., 11 p. m.  
 WBZ, 11:10 p. m.  
 WCAE, 3:40 p. m.  
 WCSI, 7:10 p. m.  
 WCG, 9:45 a. m., 1 p. m., 10 p. m.  
 WDAF, 5:45 p. m.  
 WDBO, 7:40 p. m.  
 WEEL, 11:10 p. m.  
 WFAA, 10:30 a. m., 9:30 p. m.  
 WGY, 12:01 p. m.  
 WHAD, 10:30 a. m., 2 p. m.  
 WHO, 9:45 a. m., 12:05 p. m.  
 WIE, 1:30 p. m.  
 WOI, 10 a. m.  
 WOC, 12:30 p. m.  
 WOI, 10:30 a. m.  
 WOO, 11:30 a. m., 10:05 p. m.  
 WOI, 10:30 a. m.  
 WSM, 11:45 a. m.  
 WTAC, 12:59 p. m.  
 WTC, 11:55 a. m., 10 p. m.

Eastern	Central	Mountain	Pacific
1 p. m.	12	11	10
WCCO (405.2m-740kc), Farm hour.			
WGB (336.9m-890kc), Farm flashes.			
WLS (344.6m-870kc), Dinner bell program.			
1:20	12:20	11:20	10:20
WGBF (236m-1270kc)	11:35	10:35	
1:35	12:35		
KSAC (333.1m-990kc), July 5, Fall seeding of alfalfa; wheat seed beds; July 12, Smut control; Agri. wild life.	11:40	10:40	
1:40	12:40		
KJFF (270.1m-1110kc), State farm talks.	11:45	10:45	
1:45	12:45		
WMAQ (447.5m-670kc), Prairie Farmer talks.	11:45	10:45	
1:50	12:50		
KOMO (305.9m-890kc), Garden talk.	11:50	10:50	
1:55	12:55		
WDBO (288.3m-1040kc), Farm talks.	11:55	10:55	
2:00	1:00		
KMOX (299.8m-1000kc), Farm talks.	12:00	11:00	
2:05	1:05		
KOA (325.9m-920kc), Farm question box.	12:05	11:05	

### Wednesday

Eastern	Central	Mountain	Pacific
11:40 a. m.	10:40	9:40	8:40
WCSI (361.2m-830kc), Farm feature.			
12:45 p. m.	11:45	10:45	9:45
WHL (265.3m-1130kc), U. S. farm flashes.			
1:45	12:45		
WSM (340.7m-880kc), Farm talk.			
1:50	12:50		
WHL (265.3m-1130kc), Farm flashes.			
1:55	12:55		
WLS (344.6m-870kc), Dinner bell program.			
2:00	1:00		
WMAQ (447.5m-670kc), Farm flashes.			
2:05	1:05		
WTAU (309.1m-970kc), Farm talks.			
2:10	1:10		
KSAC (333.1m-990kc), July 6, Green feed in July; July 13, Some Hens Can't Lay." Cream.	11:35	10:35	
2:15	1:15		
WMAQ (447.5m-670kc), Prairie Farmer talks.	11:45	10:45	
2:20	1:20		
5:30	4:30	3:30	2:30
KJFF (270.1m-1110kc), Poultry talks.			
5:35	4:35	3:35	2:35
KMOX (299.8m-1000kc), Farm talks.			
5:40	4:40	3:40	2:40
WLV (428.3m-700kc), Farm Bureau federation.			
5:45	4:45	3:45	2:45
7:27	6:27	5:27	4:27
KOA (325.9m-920kc), Farm talk.			

### Thursday

Eastern	Central	Mountain	Pacific
12:20 p. m.	11:20	10:20	9:20
WCSI (361.2m-830kc), Farm program.			
12:45	11:45	10:45	9:45
WHL (265.3m-1130kc), U. S. farm flashes.			
1:45	12:45		
WSM (340.7m-880kc), Farm talk.			
1:50	12:50		
WCCO (405.2m-740kc), Farm hour.			
1:55	12:55		
WGB (336.9m-890kc), Farm flashes.			
2:00	1:00		
WLS (344.6m-870kc), Dinner bell program.			
2:05	1:05		
WTAU (309.1m-970kc), Farm programs.			
2:10	1:10		
KSAC (333.1m-990kc), July 7, Green-Manure crops; July 14, Preventing Forest Fire.	11:35	10:35	
2:15	1:15		
KOMO (305.9m-890kc), Poultry talk.	11:40	10:40	
2:20	1:20		
WHL (265.3m-1130kc), U. S. farm flashes.			
2:25	1:25		
KOA (325.9m-920kc), Farm question box.			

### Friday

Eastern	Central	Mountain	Pacific
11:20 p. m.	10:20	9:20	8:20
WCSI (361.2m-830kc), Farm hour.			
11:45	10:45	9:45	8:45
WHL (265.3m-1130kc), U. S. farm flashes.			
1:45	12:45		
WSM (340.7m-880kc), Farm talk.			
1:50	12:50		
KTHS (319m-940kc), Farm talks.			
1:55	12:55		
WCCO (405.2m-740kc), Farm hour.			
2:00	1:00		
WGB (336.9m-890kc), Farm flashes.			
2:05	1:05		
WLS (344.6m-870kc), Dinner bell program.			
2:10	1:10		
WTAU (309.1m-970kc), Farm program.			
2:15	1:15		
KSAC (333.1m-990kc), Farm talks.	11:35	10:35	
2:20	1:20		
KJFF (270.1m-1110kc), Poultry talk.	11:40	10:40	
2:25	1:25		
KMOX (299.8m-1000kc), Farm talks.	11:45	10:45	
2:30	1:30		
KOA (325.9m-920kc), Aggie Kickoffs.			
2:35	1:35		
9:05	8:05	7:05	6:05
WSD (230.6m-1300kc), Missouri State Board of Agriculture.			

### Monday

Eastern	Central	Mountain	Pacific
9:30 a. m.	8:30	7:30	6:30
WCCO (405.2m-740kc), Farm hour.			
9:35	8:35	7:35	6:35
WHL (265.3m-1130kc), U. S. farm flashes.			
10:35	9:35	8:35	7:35
WCCO (405.2m-740kc), Farm hour.			
10:40	9:40	8:40	7:40
WHL (265.3m-1130kc), U. S. farm flashes.			
10:45	9:45	8:45	7:45
WCCO (405.2m-740kc), Farm hour.			
10:50	9:50	8:50	7:50
WHL (265.3m-1130kc), U. S. farm flashes.			
10:55	9:55	8:55	7:55
WCCO (405.2m-740kc), Farm hour.			
11:00	10:00	9:00	8:00
WHL (265.3m-1130kc), U. S. farm flashes.			
11:05	10:05	9:05	8:05
WCCO (405.2m-740kc), Farm hour.			
11:10	10:10	9:10	8:10
WHL (265.3m-1130kc), U. S. farm flashes.			
11:15	10:15	9:15	8:15
WCCO (405.2m-740kc), Farm hour.			
11:20	10:20	9:20	8:20
WHL (265.3m-1130kc), U. S. farm flashes.			
11:25	10:25	9:25	8:25
WCCO (405.2m-740kc), Farm hour.			
11:30	10:30	9:30	8:30
WHL (265.3m-1130kc), U. S. farm flashes.			
11:35	10:35	9:35	8:35
WCCO (405.2m-740kc), Farm hour.			





Table with columns: Atlantic, Eastern, Central, Mountain, Pacific. Lists radio stations and their frequencies.

SUNDAY, JULY 3 Headliners

Table with columns: Atlantic, Eastern, Central, Mountain, Pacific. Lists Sunday headliner programs and times.

Regular Sunday Features

Atlantic or Eastern Daylight Saving Time Stations. Lists stations and their programs for Sunday.

Baseball Scores

Local Time

Local Time section listing various radio stations and their broadcast times.

Play by Play

Play by Play section listing live game broadcasts and their times.

WOO Philadelphia, Pa. (508.2m-590kc) 10:45 a. m. service; 2:30 p. m. vesper; 6 organ.

WPG Atlantic City, N. J. (272.6m-1100kc) 3:15 p. m. service; 4:15 community recital; 5:15, twilight hour; 9:10, orchestra; 10:30, Sunday evening musicale.

Eastern Standard or Central Daylight Saving Time Stations

Eastern Standard or Central Daylight Saving Time Stations. Lists stations and their programs.

Mountain Standard Time Stations. Lists stations and their programs for Mountain Standard Time.

Central Standard Time Stations

Central Standard Time Stations. Lists stations and their programs for Central Standard Time.

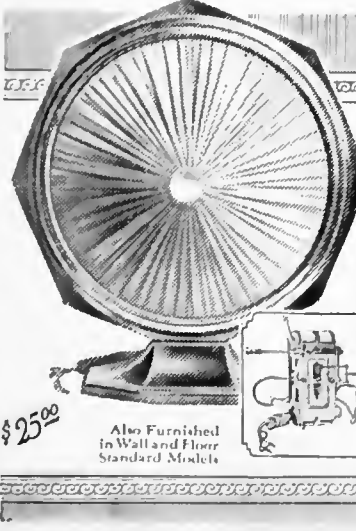
Mountain Standard Time Stations. Lists stations and their programs for Mountain Standard Time.

MONDAY, JULY 4 Headliners

Table with columns: Atlantic, Eastern, Central, Mountain, Pacific. Lists Monday headliner programs and times.

Regular Monday Features

Regular Monday Features. Lists stations and their programs for Monday.



A difference you can see and hear

YOU can see the rich wine-colored silk front, the protected back, the mahogany finished frame. You can hear this matchless tone quality due to the patented unit. Compare Sonochorde point by point and no other Speaker will do.

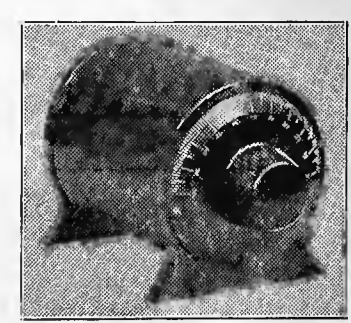
White for Sonochorde Facts BOUDETTE MFG. CO. CHELSEA, MASS.

The New SONOCHORDE CONE

REESONATOR \$3.75 SOMETHING NEW!

The Reesonator brings them in! INCREASES volume from three to twenty times on distant stations. Reduces signal ratio and eliminates interfering stations. Enables battery current to be reduced and increases life of your tubes. Made especially for Atwater Kent and Freshman single dial radio sets. (Can also be used to great advantage on two or three dial sets. Equals the addition of three tubes to your set. Can be installed without tools by anyone in less than a minute. Sent postpaid on receipt of \$3.75 or sent C. O. D. Try one for three days at our risk. If you are not fully satisfied your money will be cheerfully refunded. References: First National Bank or Bradstreet's. (Patent applied for)

F. & H. RADIO LABORATORIES FARGO NO. DAK.



NOT A WAVE TRAP F. & H. Radio Laboratories, Fargo, N. Dak. Please send me a Reesonator as per your guarantee above. Name Address City State

WGCS New York, N. Y. (348.6m-860kc) 6-7 p. m. string trio.
WGR Buffalo, N. Y. (302.8m-890kc) 7-12 mid. program.
WHN New York, N. Y. (384.5m-760kc) 6:30 p. m. program; 11, radio sweetheart.

KGO Oakland, Calif. (384.4m-780kc) 6-6:55 p. m. Stanislas Hem's Little symphony; 8-9, orange network; 9, Francisco, Calif. (422.3m-710kc) 6:30-7 p. m. studio program.
KGW Portland, Ore. (491.5m-610kc) 8, National Broadcasting company; 9, Venetian hour; 10, dance music.

Atlantic Eastern Central Mountain Pacific
9 p.m. 8 7 6 5
WJLB (333.1m-900kc) Violet Janeson Steppens, contralto.
KI.DS (238m-1260kc) 8 Norma Troje Miller, violinist.
WBZ (333.1m-900kc) Mrs. John C. Dow, pianist.

Regular Tuesday Features
Atlantic or Eastern Daylight Saving Time Stations
WAAM Newark, N. J. (348.6m-860kc) 6-11 p. m. musical.
WABQ Philadelphia, Pa. (260.7m-1150kc) 6-12:30 a. m. program.
WBRR New York, N. Y. (256.3m-1170kc) 6 p. m. orchestra; 7, talks.

Eastern Standard or Central Daylight Saving Time Stations

KDKA Pittsburgh, Pa. (315.6m-890kc) 5 p. m. dinner concert; 6:30, WJZ; 8, WJZ.
WAVL Columbus, Ohio (282.8m-1050kc) 7:50 p. m. farm talk; 8, nature; 8:10, artists concert; 9, program; 10, Radio production.

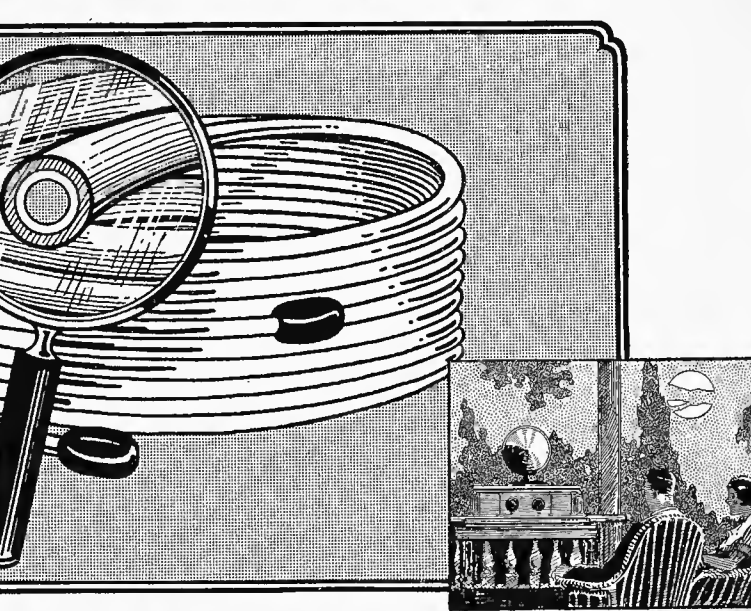
TUESDAY, JULY 5 Headliners

Atlantic Eastern Central Mountain Pacific
7 p.m. 6 5 4 3 2 1
WJZ (454.2m-660kc) "Boston Terriers," Frank Dole.

10:45 8:45 7:45 6:45
WABQ (260.7m-1150kc) Laff club.
KFI (468.5m-640kc) Los Angeles Fire Department orchestra.

WHN New York, N. Y. (384.5m-760kc) 6:15 p. m. program; 11:30, Silver Slipper orchestra.
WICC Bridgeport, Conn. (214.2m-1400kc) 9:15 p. m. musical.

Be Sure to Tune In KYW (536 Meters) every Wednesday Evening 7:30 to 8:00 P.M. Central Daylight Saving Time. The SUBANTENNA CRU. SADBERS and their accompanists will entertain you.



Use STATIC-FREE Ground Waves Get Distance Loud and Clear all Summer

SUBANTENNA—new underground Antenna System astounds listeners and laboratories with loud, clear reception on hot summer nights when old style aerial brings in unwanted noise

IMAGINE the intense pleasure of bringing in your favorite distant station loud and crystal clear—right thru summer's curtain of static and noise! But you don't have to be content with merely imagining it. Real DX in summertime—real big volume—amazing clarity—much better selectivity—all these are now available to you—and, with your present set. Simply connect your set to SUBANTENNA—the marvelous new underground antenna system that uses filtered ground waves instead of noisy air waves.



Eliminates Lightning Risk Not only will SUBANTENNA give you loud, clear reception in summer—not only will this remarkable invention better the selectivity of your set—but it also completely eliminates the lightning hazard. With SUBANTENNA you can go right on listening in during the most severe electrical storm without fear of attracting lightning or damaging your set.

FREE TRIAL

Make This Convincing Test Install SUBANTENNA. Leave your old aerial up. Select a bad night when DX is almost impossible with the ordinary aerial. Make a comparison station for station, connecting first your aerial, then SUBANTENNA. If from stations that are just a mess of jumbled noise with the old aerial, you don't get reception that rivals local in sweetness and clarity the instant you switch the SUBANTENNA, this test won't cost you even a single penny. Obtain a SUBANTENNA from your dealer or send coupon at once for scientific explanation of SUBANTENNA and for particulars of GUARANTEE and FREE TRIAL OFFER. Send COUPON NOW!

Why SUBANTENNA Makes Every Night a Good Radio Night In summer air, the ratio of static strength to signal strength favors the static. The "noise" is so much greater than the broadcast signal that it sometimes hides the music you wish to hear. That's why you don't get distance in the summertime. But, when you use SUBANTENNA, the situation is just reversed. For, in the ground, the ratio of static strength to signal strength favors the latter. In fact, there is so little static in the ground that the broadcast signal easily dominates it, with the result that you don't hear the static. Radio research men have long known this fact, but no device had ever been perfected by which ground waves could be used. Now, however, you have SUBANTENNA—a great new device which makes radio, for the first time, an all year round pleasure.

SUBANTENNA NEW UNDERGROUND ANTENNA CLOVERLEAF MANUFACTURING CO. 2717-F Canal Street CHICAGO, ILL. CLIP AND MAIL AT ONCE Cloverleaf Mfg. Co., 2717-F Canal St., Chicago. Tell me all about SUBANTENNA, your unqualified, unconditional guarantee and your FREE TRIAL OFFER. Name: Address:

Central Standard Time Stations

KFAB Lincoln, Neb. (309.1m-970kc) 5:30-6:30 p. m. Hotel Lincoln orchestra; 8:30-10:30, orchestra.
KFH Wichita, Kan. (245.8m-1220kc) 7:30 p. m. Story Lady; 8:15, serenaders.
KFNF Shenandoah, Iowa (270.1m-1110kc) 7 p. m. concert; 8:30, Landscape short course.

Pacific Standard Time Stations

KEX Portland, Ore. (239.9m-1250kc) 7:30 p. m. talk; 8, musical.
KFI Los Angeles, Calif. (468.5m-640kc) 7-8 p. m. music; 8:30, orange network; 9-10, program.
KFOA Seattle, Wash. (447.5m-670kc) 6:15 p. m. movie club; 7:30, tour; 8, orange chain.

Mountain Standard Time Stations

KOA Denver, Colo. (325.9m-920kc) 8 p. m. Scheuerman's Colorado orchestra; 8:15, studio program.
KOB State College, N. M. (384.4m-760kc) 7:30 p. m. State College orchestra.





WSB Atlanta, Ga. (475.9m-630kc) 7 p. m. WJZ; 8, concert; 10:45, musical.

WSM Nashville, Tenn. (340.7m-880kc) 6:15 p. m. dinner concert, Andrew Jackson hotel orchestra; 8:30, WAF; 9:30, studio program.

WSMB New Orleans, La. (322.4m-930kc) 8:30-10:30 p. m. Public School of the Air program; features.

**Mountain Standard Time Stations**

KOA Denver, Colo. (325.9m-920kc) 8 p. m. Scheuerman's Colorado orchestra; 8:15, studio program.

**Pacific Standard Time Stations**

KEX Portland, Ore. (239.9m-1250kc) 7:30 p. m. music.

KFI Los Angeles, Calif. (468.6m-640kc) 7 p. m. orchestra; 7:30, Nick Harris; 8-9, program, California Petroleum corp.; 9, orange network; 10, classic music.

KFOA Seattle, Wash. (447.5m-670kc) 6-7 p. m. program; 8-9, orchestra; 9-10, orange chain.

KFMB Long Beach, Calif. (238m-1290kc) 8 p. m. band; 9, orchestra; 10, orchestra; 11, orchestra.

KFSD San Diego, Calif. (440.9m-680kc) 7 p. m. program; 9, program.

KFWB Hollywood, Calif. (361.2m-830kc) 6-7 p. m. dinner hour; 7:50, news; 8-9, features; 9-10, orchestra; 10-11, Rainbo orchestra.

KFWI San Francisco, Calif. (267.7m-1120kc) 7:15 p. m. talk; 8, studio program; 10:05, orchestra.

KGA Spokane, Wash. (260.7m-1150kc) 6 p. m. baseball scores; 8:30, courtesy program.

KGO Oakland, Calif. (384.8m-600kc) 6:55 p. m. Stanislas Rem's Little Symphony; 8, vacation program; 9, National Broadcasting company; 10, orchestra.

KVW Portland, Ore. (491.5m-610kc) 8-9 p. m. concert; 9-10, National Broadcasting company.

KHJ Los Angeles, Calif. (405.2m-740kc) 6:30-7:30 p. m. children's hour; 9-10, features; 10-11, dance music.

KHO Spokane, Wash. (370.2m-810kc) 9-10 p. m. KVO.

KJR Little Rock, Wash. (348.6m-860kc) 6:30 p. m. dinner concert; 8-10, studio program.

KLX Oakland, Calif. (508.2m-590kc) 6:30-7 p. m. Athens Athletic club orchestra; 8-9, educational program; 9-10, program.

KNX Hollywood, Calif. (326.9m-890kc) 7:10 p. m. features; 11, Hotel Ambassador.

KNO Portland, Ore. (319m-940kc) 6-7 p. m. organ; 8-9, players; 9-10, studio program; 10-11, music.

KOMO Seattle, Wash. (305.9m-980kc) 7:30 p. m. Otemen quartet; 9, orange chain; 10, orchestra.

KPC San Francisco, Calif. (422.3m-710kc) 6:30-7 p. m. States Restaurant orchestra; 7-7:30, Rudy Seiger's Fairmont hotel concert orchestra; 8-9, Atwater Kent artists; 9-10, orange network; 10-11, States Restaurant orchestra.

KTAB Oakland, Calif. (280.2m-1070kc) 8-10 p. m. program.

KYA San Francisco, Calif. (309.1m-970kc) 8-10 p. m. feature program.

WPG Atlantic City, N. J. (272.6m-1100kc) 7:05 p. m. organ recital; 8, dance orchestra; 11, Emo's weekly movie broadcast; 11:30, dance orchestra.

WTAG Worcester, Mass. (516.9m-580kc) 8 p. m. travel talk; 9, WEAFF.

**Eastern Standard or Central Daylight Saving Time Stations**

KDKA Pittsburgh, Pa. (315.6m-950kc) 7-9, WJZ.

KYW Chicago, Ill. (526m-570kc) 7-9 p. m. WJZ; 9-10:30, classical; 10:30-11:55, Hearst square.

WAIU Columbus, Ohio (282.8m-1050kc) 7 p. m. farm talk.

WBAL Baltimore, Md. (285.5m-1050kc) 6:30 p. m. dinner orchestra; 7:30, musical; 8:30, WJZ; 9, dance orchestra.

WBEN Chicago, Ill. (499.7m-600kc) 7 p. m. orchestra; 9:30, Harmony Kings; 10, orchestra; 11, Harding theater gang.

WBCN Chicago, Ill. (288.3m-1040kc) 7 p. m. program; 10-1, variety program.

WCFL Chicago, Ill. (483.5m-620kc) 6 p. m. labor hour; 7, trio; 8, classical music; 9-12, Chez Pierre orchestra.

WCSH Portland, Me. (361.2m-830kc) 8, WEAFF; 10, WEAFF.

WCX Detroit, Mich. (440.9m-680kc) 6 p. m. dinner concert; 8, musical.

WORO Orlando, Fla. (288.3m-1040kc) 9:30 p. m. dance program.

WBEH Chicago, Ill. (365.6m-820kc) 7-8 p. m. Uptown theater presentations; 9-11, orchestra, artists.

WENR Chicago, Ill. (288.3m-1040kc) 6 p. m. organ; 8, orchestra, artists.

WFHH Clearwater, Fla. (365.6m-820kc) 8:30 p. m. musical.

WGHF Detroit, Mich. (319m-940kc) 8 p. m. Detroit symphony orchestra; 10-10:30 p. m. Oriole Terrace orchestra; 10:30-11, vaudeville; 11-12, orchestra.

WGN Chicago, Ill. (305.9m-980kc) 6:10 p. m. Punch and Judy; 6:30, old fashioned Almanack; 8, WEAFF; 10, Sam 'n' Henry; 10:10, Music Box; 10:20, songs. Correll and Gosden; 10:40, musical; 10:52, songs.

WGY Schenectady, N. Y. (379.5m-790kc) 6:45 p. m. musical; 8, WEAFF; 9, musical; 9:30, news; 10, WEAFF; 10:30, organ.

WHK Cleveland, Ohio (285.2m-1130kc) 6:30 p. m. dinner orchestra; 7:30, I. E. S. A. program; 9:45, banquets; 10, program.

WHT Chicago, Ill. (416.4m-720kc) 8-10 p. m., 11-11 a. m.

WIBO Chicago, Ill. (416.4m-720kc) 6-8 p. m., 10-11.

WJAX Jacksonville, Fla. (336.9m-890kc) 7:45 p. m. market.

WJAZ Chicago, Ill. (394.5m-960kc) 7:30 p. m. orchestra; 8:15, studio program; 9, program.

WJJD Chicago, Ill. (365.6m-820kc) 8-9 p. m. children's hour; 11-12, Victorians; 12-1, Knights of the Burning Candle.

WJR Detroit, Mich. (440.9m-680kc) 7 p. m. Petite symphony; 7:30, Idle and Meginity; 8, program.

WLIB Chicago, Ill. (305.9m-980kc) 7 p. m. ensemble; 11-12:15, organ.

WLS Chicago, Ill. (344.6m-870kc) 7:45 p. m. WLS players; 8, verse and music.

WLW Cincinnati, Ohio (428.3m-700kc) 7 p. m. orchestra; 10, Crusley Cossacks; 11, Tommy and Irene; 12, program.

WMAQ Chicago, Ill. (447.5m-670kc) 7 p. m. WEAFF; 8, orchestra; 8:50, WMAQ players; 10, Chicago theater revue; 11, orchestra.

WOK Homewood, Ill. (232m-1190kc) 9-12:30 a. m. Del Lampe and Trioan orchestra; Hawaiian serenaders; Jack and Jill; George Allen, Marie Tully.

WORD Chicago, Ill. (275m-1090kc) 8 p. m. program; 9, studio recital.

WOJ Chicago, Ill. (447.5m-670kc) 12 mid. popular program.

WRC Washington, D. C. (468.5m-640kc) 6 p. m. Kitt hour of music; 7-9, WEAFF; 9, program; 10-11, Meyer Davis' Le Paradis band.

WRVA Richmond, Va. (254.1m-1180kc) 8 p. m. program; 11:30, Carry Me Back to Old Virginia.

WSAI Cincinnati, Ohio (361.2m-830kc) 7 p. m. WEAFF; 8:01, studio concert.

WBCB Chicago, Ill. (232.4m-1290kc) 6-7 p. m. Hugh Swift and his Serenaders; dinner concert; 9-1, Serenaders, artists.

WSEA Norfolk, Va. (218.8m-1370kc) 7 p. m. dinner music; 8:30, studio recital; 10, orchestra.

WTAM Cleveland, Ohio (399.8m-750kc) 6 p. m. orchestra; 9, WEAFF; 10, studio program; 11, orchestra.

WTIC Hartford, Conn. (475.9m-630kc) 6 p. m. mid-week sing; 6:30, artists' period; 8:30, band.

WWJ Detroit, Mich. (374.8m-800kc) 6 p. m. dinner concert; 7, WEAFF.

Mona Motor Oil orchestra; 6:30, organ recital; 7:30, program; 11, Vesta Battery hour.

KPRC Houston, Tex. (286.9m-1010kc) 7:30-9:30 p. m. studio concert.

KSD St. Louis, Mo. (545.1m-550kc) 6 p. m. WEAFF.

KTHS Hot Springs National Park, Ark. (384.4m-780kc) 8:30-9:30 p. m. feature program, 10, program.

KVOO Bristow, Okla. (348.6m-860kc) 6-9 p. m. studio program.

KVWC Brownsville, Tex. (277.6m-1080kc) 8:30 p. m. program.

WAMO Minneapolis, Minn. (225.4m-1330kc) 6:15 p. m. organ recital; 7, musical feature.

WBAP Ft. Worth, Tex. (499.7m-600kc) 7:30-8:30 p. m. musical; 9:30-11, musical comedy program, Royal orchestra; 11-12, John Josey, organist.

WGBD Zion, Ill. (344.6m-870kc) 8 p. m. Cornet quartet, vocal solos, trio.

WCCO Minneapolis-St. Paul, Minn. (465.2m-740kc) 6 p. m. dinner concert; 7, WEAFF; 9, program; 10, baseball.

WDAF Kansas City, Mo. (370.2m-810kc) 6, WEAFF; 8, program; 11:45-1, Nighthawk frolic.

WFAA Dallas, Tex. (499.7m-600kc) 6:30 p. m. music; 8:30-9:30, musical.

WHAD Milwaukee, Wis. (293.9m-1020kc) 7:15 p. m. talk; 8:30, serenaders; 10, orchestra.

WHAS Louisville, Ky. (461.3m-650kc) 6-7 p. m. WEAFF; 7:30, WJZ; 8, WEAFF.

WHB Kansas City, Mo. (336.9m-890kc) 7 p. m. dinner hour organ; 8:30, studio program; 9, Martin and Taylor.

WHO Des Moines, Ia. (535.4m-560kc) 7:30-8:30 p. m. orchestra; 8:30, Victorians; 11, dance.

WLAC Nashville, Tenn. (226m-1330kc) 9 p. m. program; 10-11, orchestra; 11-12, orchestra.

WOL San Antonio, Tex. (302.8m-990kc) 8:30-9:30 p. m. C. A. hour.

WOC Davenport, Ia. (352.7m-850kc) 8 p. m. musical; 9, Playboys.

WOW Omaha, Nebr. (508.2m-590kc) 5:45 p. m. George Johnson, organist; 6:30, fretted instruments, Francis Potter; 6:50, orchestra; 9, classical; 10, Burnham's Rhythm Kings.

WRR Dallas, Tex. (352.7m-850kc) 6-7 p. m. musical program; 8-9, quartet; 9-10, Bible class; 11-12, musical program.

WSB Atlanta, Ga. (475.9m-630kc) 8, WEAFF; 10-45, organ.

WSM Nashville, Tenn. (340.7m-880kc) 7:30 p. m. WJZ; 8, WEAFF; 9, program.

WSMB New Orleans, La. (322.4m-930kc) 8:30-10:30 p. m. Public School of the Air program; Leslie George and his Latio Royal orchestra; Jimmie McGuire and his club orchestra; features.

Wednesday, silent night for: CKAC, CKCL, KFM, KLDS, KMIA, KMOX, KWB, KWB, KPSN, KWWC, WBAF, WCBF, WCSH, WFAA, WFL, WGBF, WGBS, WGP, WIP, WWR.

**THURSDAY, JULY 7**  
**Headliners**

Atlantic Eastern Central Mountain Pacific  
7 p.m. 6 5 5 4  
WHD (416.4m-720kc) 5 In a Flower Garden.  
8 7 6 5 4  
WBZ (333.1m-900kc) Alwyn E. W. Bach, baritone; Catherine Gravelin, pianist.  
WEAF (491.5m-610kc) "The Red Hussar," light opera.  
8:30 7:30 6:30 5:30 4:30  
WJZ (454.2m-660kc), WBZ (333.1m-900kc), KDKA (315.6m-950kc), KYW (526m-570kc), WJR (440.9m-680kc), WBAL (285.5m-1050kc), KSD (545.1m-550kc), WEBH (365.6m-820kc), Stadium Philharmonic orchestra.  
WOW (508.2m-590kc) Francis Potter, fretted instruments.  
10 9 8 7 6  
WABQ (260.7m-1150kc) Mlle. McVie, cellist.  
WBBM (389.4m-770kc) Dream Daddy Davis.  
WSEA (218.8m-1370kc) David and Pender.  
10:15 9:15 8:15 7:15 6:15  
WABZ (260.7m-1150kc) Tom Kelly, Lillian Court.  
10:30 9:30 8:30 7:30 6:30  
WFAA (499.1m-600kc) Aida Choral club.  
10:55 9:55 8:55 7:55 6:55  
WBZ (333.1m-900kc) Melody Boys.  
10:50 9:50 8:50 7:50 6:50  
KTHS (384.4m-780kc) classical hour, Arlington ensemble.  
WRVA (254.1m-1180kc) Fluvana music club.  
11 10 9 8 7  
WCCO (405.2m-740kc) Minneapolis Police Department band.  
12 mid. 11 10 9 8  
KGO (384.4m-780kc), Paul Steindorff Radio Light Opera co.  
WBBM (389.4m-770kc) Hank and his Harding Theater gang.  
12:30 a.m. 11:30 10:30 9:30 8:30  
KJR (348.6m-860kc) Reverie Piano bour, Hal McCracken.  
12 11 10 9 8  
KGO (384.4m-780kc), KPO (422.3m-710kc), KFI (468.5m-640kc), KGW (491.5m-610kc), KOMO (305.9m-980kc), "Chimes of Normandy," KLDs (238m-1260kc) Margaret Langsdorf Flagg, pianist.

**Regular Thursday Features**  
**Atlantic or Eastern Daylight Saving Time Stations**

CFCA Toronto, Can. (357m-840kc) 10 p. m. quartet; 11-15, organ.

CKNC Toronto, Can. (357m-840kc) 8 p. m. orchestra, artists.

WAAM Newark, N. J. (348.6m-860kc) 6-12 mid. musical.

WABQ Philadelphia, Pa. (260.7m-1150kc) 6-11:30 p. m. program.

WBBR New York, N. Y. (256.3m-1170kc) 7 p. m. world news; 7:10, studio orchestra.

WBZ Springfield, Mass. (333.1m-900kc) 6 p. m. organ; 6:30, musical; 7, Hotel Statler ensemble; 7:30, musical; 8:30, WJZ; 10, program; 10:30, dance orchestra.

WCAE Pittsburgh, Pa. (516.9m-580kc) 6 p. m. dinner concert; 9, WEAFF; 10, WEAFF; 11, club revue.

WCAU Philadelphia, Pa. (260.7m-1150kc) 6:30 p. m. orchestra; 8, serenaders; 9:30, musical chefs; 10, banjo and songs; 10:30, Piccadilly orchestra.

WEAF New York N. Y. (491.5m-610kc) 8 p. m. Howard Comfort hour; 8:30, ball hours with great composers, WGR, WFI, WVI, WSJ, WJZ, WOC, WDAF, WSB, WRC, WSAI; 9, correct times, WEEI, WJAR, WFI, WRC, WCAE, WTAM, WVJ, WSAI, KSD, WOC, WGY, WMAQ; 9, Citequet Club Ensembles, WEEI, WJAR, WFI, WRC, WCAE, WVJ, WGN, WOC, WCCO, WGY; 11, orchestra, WGY.

WEEI Boston, Mass. (447.5m-670kc) 8 p. m. musical; 9, WEAFF; 10:05, weather.

WFI Philadelphia, Pa. (405.2m-740kc) 8 p. m. WEAFF.

WGBS New York, N. Y. (348.6m-860kc) 7:30 p. m. orchestra; 8:50, program; 10:30, dance orchestra.

WGR Buffalo, N. Y. (302.8m-990kc) 7-10 p. m. program.

WGN New York, N. Y. (394.5m-960kc) 6:20-12 mid. program; 12, Cotton club orchestra.

WICC Bridgeport, Conn. (214.2m-1400kc) 8 p. m. laboratories; 9, orchestra.

WIP Philadelphia, Pa. (508.2m-590kc) 8 p. m. program; 10:05, orchestra.

WJZ New York, N. Y. (454.2m-660kc) 7 p. m. orchestra; 8, chorus, WJR, KDKA, KYW, WJR; 9:30, Hires Harvesters, WBZ, KDKA, KYW, WBAL, WJR, WHAS, WSM, WSB, WMC; 10, to be announced; 11:30, orchestra.

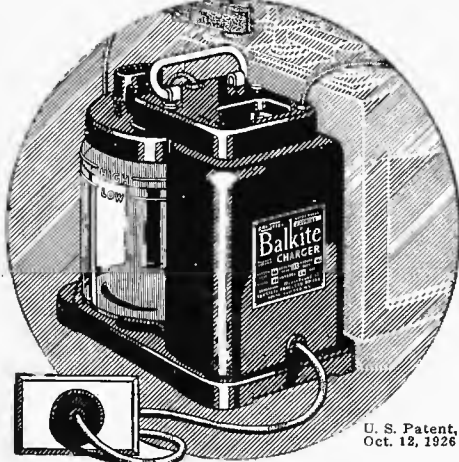
WMAK Buffalo, N. Y. (545.1m-550kc) 6:15 p. m. dinner music; 11, musical.

WMCB New York, N. Y. (370.2m-810kc) 6:30 p. m. orchestra; 11, orchestra; 12, Broadway nite.

WMSG New York, N. Y. (236m-1270kc) 8 p. m. ensemble; 9:30, folk songs; 10, Scotch program.

WNAO Boston, Mass. (352.7m-850kc) 8 p. m. Smilers; 8, talk; 8:30, theater studio; 9:15, Metropolitan theater presentations.

WOR Newark, N. J. (422.3m-710kc) 6:15 p. m. ensemble; 10:55, news; 11, orchestra.



U. S. Patent, Oct. 12, 1926

*This high-rate and trickle charger meets the requirements of the present day radio set*

The advantages of trickle [continuous] charging with its freedom from attention are so obvious that practically all set owners today insist on it. This means a low-rate charger. But suppose the battery should sulphate so that a more rapid rate is required. Or that a power tube is added. Or that the set is for some reason used much more than usual. This calls for a much higher rate.

why the Balkite Charger, Model J, with its low trickle and high rapid rates is rapidly becoming the most popular charger in the entire radio field. It combines the advantages of both trickle and high rate charging. In sections where it is best known it is being sold almost to the exclusion of all other types. Whatever type of set you own equip it with Balkite Model J. It will serve not only your present receiver, but any you may purchase in future. Models for both 25-40 and 50 or 60 cycles.

A charger to meet the requirements of the present day radio sets must have both a high and a low charging rate. That is

FAN STEEL  
**Balkite**  
*Radio Power Units*

THE BALKITE LINE OF ELECTROLYTIC DEVICES IS PROTECTED BY EDGAR W. ENGLE U. S. REISSUE PATENT NO. 16,439, DATED OCT. 19, 1924

Mountain Standard Time Stations

CAC Calgary, Can. (434.5m-600kc) 9:30 p. m. orchestra.

Pacific Standard Time Stations

KEN Portland, Ore. (1239.9m-1250kc) 6:30-7:30 p. m. dance music, Curt...

Atlantic Eastern Central Mountain Pacific

KTIS (1384.4m-750kc) St. Luke's Episcopal church, 1 p. m.

SUNDAY, JULY 10

Headliners

Atlantic Eastern Central Mountain Pacific 7:45 p. m. 8:45 5:45 4:45 3:45

MONDAY, JULY 11

Headliners

Atlantic Eastern Central Mountain Pacific 9 p. m. 8 8 8 8 8

TUESDAY, JULY 12

Headliners

Atlantic Eastern Central Mountain Pacific 7:45 p. m. 8:45 5:45 4:45 3:45

WEDNESDAY, JULY 13

Headliners

Atlantic Eastern Central Mountain Pacific 9:10 p. m. 8:10 7:10 6:10 5:10

THURSDAY, JULY 14

Headliners

Atlantic Eastern Central Mountain Pacific 7:45 p. m. 8:45 5:45 4:45 3:45

Atlantic Eastern Central Mountain Pacific

WEAF (491.5m-610kc) "The Grand Mogul," light opera.

FRIDAY, JULY 15

Headliners

Atlantic Eastern Central Mountain Pacific 7:45 p. m. 8:45 5:45 4:45 3:45

SATURDAY, JULY 16

Headliners

Atlantic Eastern Central Mountain Pacific 8:10 p. m. 7:10 6:10 5:10 4:10

Atlantic Eastern Central Mountain Pacific

WIP (508.2m-590kc) Geibel Falconer, organist.

SUNDAY, JULY 17

Headliners

Atlantic Eastern Central Mountain Pacific 7:45 p. m. 8:45 5:45 4:45 3:45

MONDAY, JULY 18

Headliners

Atlantic Eastern Central Mountain Pacific 7:30 p. m. 6:30 5:30 4:30 3:30

TUESDAY, JULY 19

Headliners

Atlantic Eastern Central Mountain Pacific 7:30 p. m. 6:30 5:30 4:30 3:30

Thursday, silent night for: CFCA, CKCL, KFAB, KFDK, KFR, KFYE, KXK, KMOX, KOA, KTAB, WABC, WAMO, WDOO, WEOA, WENC, WFIW, WGBF, WLIT, WLWL, WOO, WOS, WQV.

FRIDAY, JULY 8

Headliners

Atlantic Eastern Central Mountain Pacific 7:45 p. m. 8:45 5:45 4:45 3:45

SATURDAY, JULY 9

Headliners

Atlantic Eastern Central Mountain Pacific 6 p. m. 5 4 3 2 1

SUNDAY, JULY 10

Church Services

Atlantic Eastern Central Mountain Pacific 9:45 a. m. 8:45 7:45 6:45 5:45

SYD LIFE LONG 'B' BATTERY UNCONDITIONAL 2-YEAR GUARANTEE

30 DAYS FREE TRIAL New One Dial Radio NOW! Westingale offers the last word in Radio.

The LIFE of the FILTER CONDENSER you use depends upon POWER FACTOR AND RESISTANCE BAKELITE CORPORATION RESEARCH

WEDNESDAY, JULY 20 Headliners

Atlantic Eastern Central Mountain Pacific
7:30 p. m. 6:30 5:30 4:30 3:30
WQO (508.2m-590kc) J. W. C. I. hand.

Atlantic Eastern Central Mountain Pacific
9:30 p. m. 8:30 7:30 6:30 5:30
WHAS (461.3m-650kc) Lyst Reynolds orchestra.

Atlantic Eastern Central Mountain Pacific
11:30 p. m. 10:30 9:30 8:30 7:30
WHAJ (293.9m-1020kc) Wisconsin theater review.

Atlantic Eastern Central Mountain Pacific
8:10 p. m. 7:10 6:10 5:10 4:10
WVZ (333.1m-900kc) Pop concert.

THURSDAY, JULY 21 Headliners

Atlantic Eastern Central Mountain Pacific
7 p. m. 6 5 4 3
WIBO (416.4m-720kc) "In a Flower Garden," Chicago Lyric trio.

SUNDAY, JULY 24 Headliners

Atlantic Eastern Central Mountain Pacific
8 p. m. 7 6 5 4
WABQ (260.7m-1150kc) Yodlers.

WEDNESDAY, JULY 27 Headliners

Atlantic Eastern Central Mountain Pacific
7 p. m. 6 5 4 3
WIBO (416.4m-720kc) Howard Neumiller, pianist.

SUNDAY, JULY 31 Headliners

Atlantic Eastern Central Mountain Pacific
8 p. m. 7 6 5 4
WMAQ (447.5m-670kc) Reverie hour.

FRIDAY, JULY 22 Headliners

Atlantic Eastern Central Mountain Pacific
7:15 p. m. 6:15 5:15 4:15 3:15
WMAQ (447.5m-670kc) Wide-Awake club.

MONDAY, JULY 25 Headliners

Atlantic Eastern Central Mountain Pacific
9 p. m. 8 7 6 5
CKNC (356.9m-840kc) Eveready instrumental quintet.

THURSDAY, JULY 28 Headliners

Atlantic Eastern Central Mountain Pacific
7:31 p. m. 6:31 5:31 4:31 3:31
WIBZ (333.1m-900kc) Kerbstown Four.

ART GILLHAM "EXPOSED"

(Continued from page 5) across the continent and later in Chicago—after the war entertaining was over and the last Victory Loan drive had played its last flourish—Art found himself one of a party of jovial entertainers in the studio of the old WDAJ, atop the Drake hotel in Chicago.

SATURDAY, JULY 23 Headliners

Atlantic Eastern Central Mountain Pacific
8:10 p. m. 7:10 6:10 5:10 4:10
WBZ (333.1m-900kc) Pop concert.

TUESDAY, JULY 26 Headliners

Atlantic Eastern Central Mountain Pacific
7:45 p. m. 6:45 5:45 4:45 3:45
WIBO (416.4m-720kc) Chester Newman, baritone.

FRIDAY, JULY 29 Headliners

Atlantic Eastern Central Mountain Pacific
9 p. m. 8 7 6 5
WBEI (447.5m-670kc) Neapolitan Dutch Girls quintet.

Advised to Sing

"You may be a wiz of a piano player, but you got to know how to sing if you ever expect to be an all 'round Radio entertainer," said one of the artists.

"Is that so?" sighed Art. "Oh, well, what's a fat man goin' to do? He can't win." And thereupon he began to whine a doleful ditty that he had picked up in a New Orleans cafe, where minstrel entertainers often go to get real inspiration from the actual and original settings and characters.

"That's not so bad. Dare you to put it on the air," said the director.

So he did. It was a whisper, scarcely audible five feet distant. Within a few minutes the studio was overwhelmed with telephone calls. Then came telegrams from distant stations from listeners who were thrilled with the plaintiveness of it all.

"I had to put it on again the next night," said Art, telling the story. "And then came invitations to put it on in other cities. I traveled around, and when I came to Atlanta, Landin Kay gave me the title of the Whispering Pianist."



Since 1915 Standard for all sets

For all around utility, CX-301 A is unexcelled. Use it in any or all sockets of your (5-volt tube) radio receiver.

Cunningham RADIO TUBES

NEW YORK CHICAGO SAN FRANCISCO

Steinite Synchronized Unit advertisement featuring a portrait of Fred W. Stein, a photograph of the Steinite radio cabinet, and detailed text about its features and price.

### ART GILLHAM EXPOSED

(Continued from page 19)

While traveling through the Southern a rabbit a strange cat dropped into one of the studios for a friendly call. He was welcomed as a good omen for the dolorous entertainer and invited to participate in the broadcast. Pussy paraded the keyboard and added half a dozen hitherto unknown notes to his back fence repertoire.

#### A Cat Roundelay

After that the cat in spirit, but not in the flesh, accompanied the Whispering Par. st. He met the mascots of various stations and engaged in hostilities, emerging fiercer more spoiled than victorious. The Waterloo for the cat mascot occurred at KGW, Portland, Ore. Here he met the Hot Oats in solid phalanx. Boots and claws filled the air from Alaska to Palau. When it was over Art Gillham was looking for another mascot.

Prizes were offered for the best suggestion for a mascot. The award went to a man in the far Northwest who suggested a baby seal, explaining that the seal could be hauled overland in a bathtub and when the Whisperist arrived at rivers he could put the seal in the water and the seal would tow him across.

#### Pinched for Poaching

Flying in an airplane from Portland to Everett, Art began his evening's engagement in the local studio. In the midst of his discontented wall two policemen entered the room and without waiting for ceremony or the second verse took him off in the paddy wagon to the dingy little hoosgow. He was informed that he was under arrest for seal poaching. Art said several things not intended for public hearing to a companion representing the Columbia Phonograph company, for whom Gillham is an exclusive artist. To his dismay he looked up at a familiar object dangling from the ceiling. It was a microphone! A few minutes later a piano was brought into the jail and Art played his way to freedom. But they took his picture and Bertillon measurements before he left.

#### Meets the One Girl

About the time that broadcasting was being introduced to the public Art Gillham found himself an evening in Seranton, Pa., with nothing to do but go to a show. On the stage he beheld a singer whose voice and charms completely captivated him. He sought an introduction and thus met Dolores Valasco. It was love at first sight. They were married at the home of the bride in Fort Wayne, Ind. Hal and Lou were born to them. During the adjustment of two artistic temperaments a rift came between. But it took a separation—even divorce—for them to find that life meant nothing to either without the other. They were remarried and now have their own very beautiful home in Fort Wayne.

"I have the proud distinction of being own father to my step children," said Art, commenting on this phase of his life. Hal and Lou is 3.

Art has finally decided to make stage appearances with his charming mate. He has feared to do this because of the disillusionment that would come to many of his fans who still believe that he is fat, baldheaded, broken down and can't win.

#### Short Waves Locate Ore

MOSCOW.—Using short wave Radio, Professor Petrovsky of the Leningrad Geological Institute has been successful in locating large mineral deposits in the Ural mountains. The waves are deflected by the ore bodies, no matter how deeply they lie buried, he said.

### Nell Vinick Tells How to Enhance Complexion

THAT the fair may become even more fair is the mission of Miss Nell Vinick who speaks on the artful use of creams, lotions, complexion color combinations and all that goes to make up the symphony of femininity loveliness through her weekly lectures over WGBS, New York. Inquiries, letters of comment and a voluminous correspondence indicate that Miss Vinick has a large audience. She considers the art from every vantage point, with special advice for combinations for red heads, or blonds or brunettes. She is neutral on the subject of preferences. All the latest kinks in dressing the hair also has a share in her curriculum. If you are a woman and interested and live within range of WGBS you will hear Miss Vinick any Saturday morning at 10 o'clock, eastern standard time.



NELL VINICK  
WGBS

the latest kinks in dressing the hair also has a share in her curriculum. If you are a woman and interested and live within range of WGBS you will hear Miss Vinick any Saturday morning at 10 o'clock, eastern standard time.

### CROWDS SWARM TO BIG R. M. A. SHOW

#### Latest That's Good in Radio Attracts Dealers and Fans to Chicago

CHICAGO.—With the closing of the Radio manufacturers' show in the Stevens hotel, Chicago, the hotel set up a record for having listed the largest single day's registration for any hotel in the world.

That indicates the interest manifested in the show. Although the show was promoted only for the interest of the trade there were many visitors from the general public and anxious Radio fans.

What are the new wrinkles? What is the latest in Radio? How has science progressed against the dragons of interference? What has been done to simplify the technical phases of Radio reception?

And the trade wanted to know which of the many alluring models would prove the most popular, would produce the most money and deliver the best reception for the investment.

#### Crowds Study Exhibits

Thinking of these things the crowds moved in masses back and forth through the closely packed aisles in the subway display room. They continued their explorations in the more ornate quarters on the upper floors. Many manufacturers were equipped to give practical demonstration of their wares. They tuned in local and distant stations and called attention to volume and quality.

One heard a great deal about "A. C." tubes. Many of the newer and most popular sets have them. The aisles always were blocked before the Crosley booth where the powerful little Bandbox caught the eye. Zenith had displays upstairs and down. The Freshman Masterpiece was a magnificent and efficient instrument.

Practically all of the new sets are single dial control and are shielded, and generally utilize the Indoor Loop aerial.

The way has been paved for the biggest and best Radio shows in the history of Radio, one at the Madison Square Garden in September and the other at the Coliseum, Chicago, in November, where the general public will be invited.

### "TORCH OF YOUTH"

(Continued from page 9)

say nothing, because the more you keep out of the way of these desperadoes and the less you know about them the safer you are. Your friend was right. They are assassins—and they have political protection in certain quarters."

"Do you know Mr. Garden?" Wanda suddenly parried.

"He's the famous Ivanhoe football star, ain't he?"

"Yes. Do you know of anything he might have done to get himself mixed up with these people? Who are they—I suppose they are bootleggers."

"Worse and more of it," answered the short man, edging away and tipping his hat.

"You must be in it too, or you would not be so afraid to talk," said Wanda with a flash of anger.

"Hush, miss. I'm a friend, trying to do the best I can for you; and I'll keep an eye open to help you as much as I can, but you must let me do it in my own way. And now, goodbye. If I hear anything I'll let you know, Miss Nevens."

Wanda felt an almost uncontrollable impulse to run and seize him by the arm. But something within told her that she had better make her way cautiously—and, at least, not lose this one person who might help her in her dilemma. She hurried back into the Sugar Bowl and told Gretchen to bring her a cup of black coffee.

She sipped the steaming beverage and sat with her head in her hands trying to think of a way out of her problem. Was Karl to blame for this? What was it that Karl knew which made Babe fear him? Why had Babe not confided in her?

She spread the note on the table before her. Tears came to her eyes as she read the message of endearment. What a boy, what a boy! He had loved her and did not know it until he had carried her through the water in the lake the night before, and now he was flaming for her and had to hide himself.

Perhaps she had been too much of a sister, too frank and intimate. Men were queer—never satisfied unless a woman kept up a mystery about herself. She had been honest and lived up to the code of the Pinks of being herself. All the petty feminine artificialities she had cast aside as ignoble. It might have been better after all if she had put them on, if she really wanted to stir his love. No, it was just herself after all that had brought them together—a sudden revelation of her charms that made him realize that she was very desirable. Anyway he wanted her, and in the hour of peril he had risked everything to tell her so. His peril—yes, what, why and where? And her mind traversed the circle of these thoughts until they became a beaten path. She felt she could go no further. Mentally she paced up and down and around the bars—the phantom cage. Suddenly she realized she was a student. She had classes.

Others were expecting her. Stella would be waiting. She left change for Gretchen and hurried out the door.

STELLA saw the little corporal approaching from her perch in the window. She hurried down the stairs and as soon as Wanda entered clasped her excitedly in her arms.

"Something must have happened!" she exclaimed. "Did you see Babe?"

"No, why, what was it?"

"A strange young Italian came and asked for you. He seemed very nervous, especially when I told him you had gone to keep an appointment with Babe. He said he had just come from Babe and he wanted you to go with him, because Babe could not meet you at the Sugar Bowl. He said something about Babe going out of town for a while unexpectedly."

"Where is this man now?"

"Oh, he said he couldn't wait, as he was going to take Babe away and it wasn't safe to stay around here any longer. He only waited a minute. He came right soon after you left. Whatever do you suppose has happened?"

"I don't know, honey, but we've got to find out. I found a note at the Sugar Bowl. Babe is in some sort of trouble and some terrible people are after him. I saw them. Babe thinks they want to kill him, though he doesn't say what for." Then she told the pop-eyed Stella all that had happened.

"May I not see the note?" asked Stella when she had finished.

"Oh, I'd rather not—anyway, right now. I've told you all you need to know."

"And Dorothy called up from the hospital. She says Shirley is very anxious to see you. She wants to know whether anyone has telegraphed Nick's people and will you help her? She says she wants to talk to you about something else, but she wouldn't tell what it was. She is much better and wants to leave the hospital."

"What a mess! What a mess! That shows we never were intended to travel with the fast steppers, doesn't it? But what kind of a looking man was this Italian?"

"He had some kind of a soldier's uniform, puttees and leather coat and goggles. I think it might have been an aviator's costume. He didn't leave his name, but said we would hear from him again, but he didn't know when, an hour, a week or a month."

"I wonder whether he was really a friend or a foe. He might have been trying to find out something. He didn't have anything to prove that he was from Babe, did he?"

"No, he only waited a minute. When he went out something hard in his coat pocket hit against the side of the door. It seemed heavy and I wondered if it was a gun."

### Bradleystat

PERFECT FILAMENT CONTROL

Provides complete noiseless filament control for all radio tubes without change of connections. Metal parts are nickel plated. One hole mounting. Self contained switch opens battery circuit when desired.

Allen-Bradley Co.  
Electric Controlling Apparatus  
290 Greenfield Avenue Milwaukee, Wis.

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Telephone Superior 3580

2 Blocks North and 1 Block East of Tribune Tower

Just a "Whisper" from the Loop

UNLIMITED PARKING

Cafe offering unexcelled cuisine at moderate prices

Rates \$2.50 to \$4.00 Per Day—No Higher

Special rates to permanent guests

### Enjoy Radio Reception in Comfort

You can now enjoy a full program without re-adjusting the volume controls at the set every time the broadcaster changes from orchestration to vocal selections.

The New NUMBER THREE Centralab Modu plug

with twenty feet of cord, enables you to relax in comfort and modulate the tone and volume from a whisper to maximum without leaving your chair.

The Modu Plug clears up your reception. It does not change the ratio of high and low notes as the controls on the set sometimes do. It helps to reduce interfering noises.

Enjoy your radio set fully. Send for a No. 3 Modu Plug today. Price, \$3.00; mailed C. O. D. or postpaid on remittance.

Central Radio Laboratories  
12 Keefe Ave. Milwaukee, Wis.

### Here Is Your Chance to Obtain an Autographed Copy of \$1 "Howdy Judge" \$1

Through a special arrangement Radio Digest is now able to offer to its readers a limited number of copies of "HOWDY JUDGE" autographed by the author, "Judge" George D. Hay, announcer at WSM, formerly of WLS and winner of Radio Digest's first annual gold cup given to the most popular Radio announcer.

Just pin a dollar bill to this advertisement and mail to

Shopping Service, Radio Digest  
510 N. Dearborn St., Chicago, Ill.

Considerably more than an hour had passed when Stub made his appearance again in the ante room to Uncle Joe Grant's office. The secretary told him to go right in. Uncle Joe, usually calm and unperturbed, was pacing up and down his commodious office when Stub entered. He wheeled sharply.

"Your telephone reports are not so good," he said. "Do you think any serious trouble is ahead?"

"I wouldn't be surprised to hear of a raid inside of the next hour," Stub answered, lighting the stub of a cigar that had expired between his teeth.

"Is there anything we can do to prevent it?"

"Not a thing. I'll go a long way, but I'm off the fireworks. Them Cicero guys got a hunch some way that Garden is a secret muscle man for Weiss and maybe bumped off Little Tony out by the Argo quarry last week. Somebody tipped the big boy off and he's hopped out—I don't know where or with whom. He may have been picked up by a stall and taken for a ride. Everybody's mum as mouse. I saw some of the Cicero mob waitin' for him when the girl came along and scared 'em off."

Follow the next installment of *Torch of Youth* for the exciting developments of underworld life as it weaves itself into the lower fabric of student life.

**LINDY IN DALHART**

(Continued from page 6)

forming, the moving, the progress of the parade.

**Visualize the March**

The triumphal march drew nearer. Cross switched control back to Carlin on top of the Washington monument, 550 feet above the ground. Carlin told the listeners on the porch of infantry, of cavalry, of marines, of bands, then losing his perspective as the parade passed, he gave way to John Daniels, who, leaning from a window of the Treasury building, let the waiting world hear of the fame of the Marine band which led the way, of the Navy band, of the white and gray mounted cavalrymen who came next, of the marines who followed, of the white-clad sailors who marched in ranks street-wide and preceded the car in which rode the boy for whom a great day was made. Rode the

boy, proudly, humbly—by his side the mother who had reared him, trained him, blessed him and sent him unflinchingly and unflinching upon that solitary sweep across a distance that had never been conquered until her boy did it.

**Mike Tells It**

Daniels turned the microphone around, stepped aside. Out through the loud speaker on this little front porch so far away from Washington roared the steady beat and rhythm of the great Marine band, which led the marchers. Roared louder, was partially drowned by a flooding volume of cheering, then faded as the players went by. Daniels talked again, then turned the microphone back to the street. The Navy band passed by the little porch, speeded the pulses of its listeners, went on. Went on, and then when the cavalry had passed, the marines had gone, and the sailors swept by—came at last the boy. And came also such waves of prolonged cheering that the horn on the little porch seemed filled to bursting.

The crowd, Daniels told us, was following the car in which Lindbergh rode. Following, frenzied and worship-mad. It followed to the monument grounds, roared louder as McNamee, announcer at the presidential receiving stand, tried to tell us: "Here's the boy, NOW. Tall, slender, his light hair glinting in the sun. His shoulders, though, droop a little. He is tired."

**President's Voice**

Pandemonium. Then quiet. McNamee: "The President of the United States speaks."

A voice, steady, fairly loud, blurred just a trifle either by the ether or from an inherited Vermont nasal twang.

"And now, as President of the United States, I bestow the distinguished flying cross as symbol of appreciation for what he is and what he has done, upon Colonel Charles A. Lindbergh."

Calvin Coolidge was through, and the boy, rising, waited while the air waves of the country vibrated with cries, with shrill whistling, with shouting, and with rhythmic beat of prolonged hand-clapping.

His voice finally came through, distinct, steady, controlled.

He could have thrilled his audience—Washington and wireless—for an hour.

But what he said was: "The people of France and of Europe—of Belgium and of England—wherever I went while over there—sent you of America a message of

love and of good will from those of France and of Europe. I bring you this message from France and from Europe. I thank you."

And could we who had heard it all do less than to thank Arthur Johnson for the loan of his front porch? We could not, did not.

**MANITOBA MONOPOLY**

(Continued from page 6)

"I am not against provincial control of broadcasting, but I am certainly against government monopoly to the exclusion of anyone who can demonstrate ability to perform a useful public service. Our Manitoba telephone system is simply playing the tune that is called by the larger telephone organizations—at least, that's my view of it. Mr. J. E. Lowery, the telephone commissioner for Manitoba, called a meeting of telephone heads from other provinces recently, to tell them of the impending 'danger' and to instruct them in the kind of legislation required to offset it, so the story has it.

"This Brandon situation is an example of his own disposition in the matter.

**"Let Brandon Pay"**

"Just suppose some large concern would come to your board of trade, as we did in Brandon and say, 'We're in a position—in effect—to put signs up all over the continent calling favorable attention to the attractions of Brandon. We want you to help us do the phrasing, and all we ask is to put our signature at the bottom of the sign; there will be no expense to you whatever.' You would close right away, of course. That's what happened here, but when it came to getting it done the official in Winnipeg said 'no, no; you can't let a private concern do that. You must let the government do it and you will have to pay for it yourselves.'

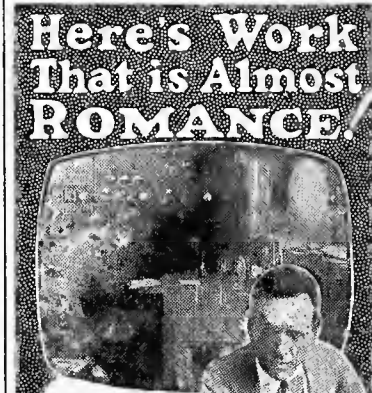
"The Brandon business men asked Mr. Lowery to come and talk it over. He did and said he would give his answer in three weeks. He took the time to figure out

the expense of establishing a broadcasting station through the telephone system, and told the Brandon folks to take that station, pay for it or go without a station.

"The telephone commissioner's letter to the board of trade in some respects is misleading. It seems to suggest that provincial control came about with the consent of the Radio trade, broadcast listeners and similarly interested parties. As a matter of fact the Radio trade was refused any definite information on the negotiations when they were in progress. I know this because I was in the Radio trade at the time and was the first member of the trade to write to Mr. Lowery for some light on the rumored changes in broadcasting control, and which rumors were disturbing our business of selling Radio sets. The reply I received from Mr. Lowery was simply that nothing was being contemplated to adversely affect the Radio trade.

**Hint Government Competition**

"It was a year or two later that the telephone system threatened to go into the business of manufacturing Radio re-



**EARN BIG MONEY in RADIO**

Get into the great new BIG-Pay Industry—Radio. If you're earning a penny less than \$50 a week, clip coupon now. Send for 64-page FREE Book. Be a Radio Expert and draw down big money for this easy, fascinating work. Positions everywhere. Need for Radio Experts in every community. Short hours. BIG PAY. Free book gives all the facts.

**Learn Quickly and Easily at Home**

Skilled Radio Engineers will show you how to qualify, quickly and easily at home, for Radio's fine jobs. We train you completely and thoroughly. Hundreds of N. R. I. trained men are to-day holding down good, big jobs in the Radio field. Hundreds of opportunities now awaiting the trained man.

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Materials for building up-to-date receiving sets and to construct 50 well-known Radio circuits included to help you learn. An UNEQUALLED OFFER. Other special features now being offered, so Act Quick!

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Other cones may look like a Farrand—but there the resemblance ends

**Farrand Speaker**

Senior Model, \$32.50  
Junior Model, \$16.50

Slightly higher west of Rockies.

**ASTOUNDING!**

"The only word that describes the reproduction of the 'ENSCO' 3 foot Cone or Roll type Speaker." The statement of one of the foremost Acoustic Engineers.

**GENUINE "ENSCO" KIT \$10**

Why has "ENSCO" been endorsed by all leading magazines and the foremost newspapers? Because—it is the most highly developed big cone assembly now offered to the public, it reproduces all frequencies and greatly reduces static. The "ENSCO" unit is the only direct-drive unit for large cone speakers.

Manufactured under U. S. Patent No. 1630119; "ENSCO" Cushion Drive Patent No. 1163854; Cone Diaphragm Patent No. 1003655 and other patents pending.

Assemble the "ENSCO" speaker in less than an hour. It works on any set with any power. No filters or chokes necessary, 90 to 250 volts without protection or 500 volts with transformer.

Six different types to choose from. Cones beautifully decorated and marked for assembly. Wall, pedestal or console, all fully described in illustrated instruction book.

Sold under absolute (money back) guarantee.

**ENGINEERS' SERVICE CO.**  
25 Church St., New York City  
73 Cornhill, Boston  
28 E. Jackson Blvd., Chicago

Ask your dealer or mail order to nearest office. Send money order, check or cash, or we will ship C. O. D. We pay shipping charges.

ceiving sets and the meetings were held to which Mr. Lowery refers. These meetings were merely concerned the proposition of the government going into competition with private manufacturing—nothing at all was mentioned about provincial control.

Mr. Coats has a splendid war record and has shown public service enterprise throughout his career. When asked how freely he could be quoted in this matter he said:

"So far as I am personally concerned I say nothing that I am afraid to repeat or declare publicly at any time, but I do not wish to draw my employers into any controversy. I will go into a setup any time and gladly, if I know I am right and I'll fight it through to a finish. This is the way in which I know my ground and that I am entirely right in my attitude."

### The Reader's View

(Continued from page 11)

public entertainment and uplift? Is it not true that the "Big Four" spends vast sums to give listeners the service of the best broadcasting equipment available? Is it not also true that about two-thirds of the independent stations are of too low power to furnish the public with really satisfactory service beyond a very limited radius? Is it not a fact that Radio sets are being sold and fans made on the basis of National Broadcasting company pro-

### CLASSIFIED ADVERTISEMENTS

**H**OW about that new set you want to buy? What are you going to do with the old one? A Radio Digest classified advertisement will sell it for you. Rates are twenty cents a word for each insertion. Five per cent discount for four insertions, 10 per cent discount for six insertions, 15 per cent discount for twelve insertions, 20 per cent discount for twenty-four insertions (each issue for 1 year). Name and address are counted. Two initials count one word. Cash must accompany order. Minimum of ten words. Objectionable and misleading advertisements not accepted.

### MAPS

**New Radio Maps.** We are now able to supply our readers with new radio maps showing location of stations, list of all stations by call letters. Come folded in cover, but may be used for pasting on cardboard. Size 28x34". Send 25 cents stamps or coin to Shopping Service, Radio Digest, 510 N. Dearborn St., Chicago, Ill.

### MISCELLANEOUS

**Modern Housekeeping Honor; Less Work in the American home.** A welcome guest in more than one million homes. (Copyright 1927, Radio Digest Publishing Co.) For information write Bureau of Broadcasting, Radio Digest, 510 N. Dearborn St., Chicago, Ill.

**The new and improved Proof of Reception Cards** are the most practical and convenient proof of reception of those distant stations. Contains spaces for complete reception record, dial settings, call letters, stamps and signature of announcer. Handy size, 3x5 inches. 150 for \$1 or send 25 cent (stamps or coin) for sample package. Shopping Service, Radio Digest, 510 N. Dearborn St., Chicago, Ill.

### PATENT ATTORNEYS

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PATENTS. Booklet free. Highest references. Best results. WATSON E. COLEMAN, Patent Lawyer, 24 1/2 North St., N. W., Washington, D. C.

### RADIO

Change your phonograph into a loud speaker with the "Patron" unit for only \$2 C. O. D. or postpaid if cash accompanies order. Brownstein's Pharmacy, 4600 Lincoln Ave., Chicago.

Will trade Grebe receiving set and Radio experimental apparatus. What have you? M. K. JACOBS, Kendallville, Ind.

We have an oversupply of the famous **Fultone** loud speakers which we are disposing of at only \$4.95 C. O. D. or postpaid if cash accompanies the order. Brownstein's Pharmacy, 4600 Lincoln Ave., Chicago.

Equipment of private laboratory—Davon Resistance Unit, \$5.00—Filko—1 Filko, \$5.00—1 Filko—Na Aid 3-inch dials, 10¢—99 to 1 vernier dial, tuning dials, \$1.25—Coll, 25¢. Box 27, Dearborn St., Chi-

grams; and that were it not for the stations of the "Big Four" and the associated stations of the red, blue and orange networks. Radio broadcast would be as good as dead today?—N. Vincent Parsons, 1646 Francisca St., Pasadena, Calif.

### Believes in State Stations

**I** BELIEVE each state should be entitled to one dependable wave length, which might be shared by two stations; one in the state capital city and the other in the principal city of the state. These stations should be required to put on first class programs of music, market reports and important news of the day, as KYW formerly did; it would be worth a lot to the state. Also during a state or national election one could tune in their state station and get the returns they are most interested in. Our most dependable station here is WOC at Davenport. Interference spoils some of the Wisconsin stations.—W. E. Lawton, Viroqua, Wis.

### Time Periods for Sales

**A** S A suggestion I would like to ask the Radio commission that they restrict all sales talks over the air from 7 a. m. to 6 p. m. The rest of the evening should be restricted to musical and other programs only.—H. O. Abbott, Lebanon, Mo.

### Depend on Shenandoah

**K**MA and KFNF provide our best all around programs and we, in this locality, would regret seeing anything to interfere with their regular operation. Suppose they do tell the farmers the prices of things for sale—that is what the farmers want. All stations advertise, so why not do it direct? I don't suppose you will ever read this, but it is written anyhow.—Anna E. Shannon, Liberty, Nebr.

### Wants 4-Station Chain

**T**HE time allowed for each station should be cut short. That would give every station at least a little time on the air and perhaps allow for more stations. If the chain stations could all work from the same wave there would be no kick, but this seems technically impossible right now. We would only get squeals and howls. At night there should be only one such station in each far corner of the United States. I have faith that the commission will iron out all the difficulties.—T. B. Shinn, Conway Springs, Kans.

### "Yes and No" or Big 4

**A**M enclosing one listener's slant on a good program. I think the organ should appear, as it doesn't come under any of the general headings listed, and nearly all my friends seem to enjoy it (from a good source).

May I comment regarding your editorial in the second April number? This writer cannot agree with the attitude taken there. There are a long way from 700 odd independent stations deserving a place "in the sun" or air. I hold no brief for the "Big 4" but I do feel that the same "Big 4" has done more to make Radio an institution than all the rest of the stations put together; and, incidentally, made possible the existence of Radio Digest and other publications now standard in the Radio field. I do not believe that "direct advertising" stations have so far contributed anything to Radio—nor to the Digest either. It is pretty certain that most of them don't contribute much to the quality of programs, and do contribute a lot to interference.

To the writer, the suggestion of exclusive wave lengths seems open to question, and am more than willing to concede the "Big 4" should not have any

**MEN INTERESTED** Big money for your spare or full time. **IN RADIO** Give a service to radio owners and autoists. No machines, no equipment. Something will need once a month anyhow. **EVENINGS ALONE PAY YOU SEVERAL DOLLARS EACH**—full time much better. No technical knowledge required—we teach everything. Enclose 25c for sample to try and full details.

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**Bradleyometer**  
THE PERFECT POTENTIOMETER  
Uses graphite disc resistors which are noiseless and not affected by atmospheric conditions. Metal parts are nickel plated. One hole mounting. Finish and knob match Bradleystat. Made in 200 and 400 ohm ratings.  
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Electric Controlling Apparatus  
290 Greenfield Avenue Milwaukee, Wis.

monopoly on the air. It is the general attitude implied in your editorial to which I object. I have been a nearly regular reader of Radio Digest for about three years, and it always has seemed to be reasonably broad minded but it doesn't appear in that light in this editorial. There will soon have to be some constructive unanimity of opinion—or no more Radio.—R. L. Hitchcock, 3137 Marborough street, Detroit.

### "We, 27,000,000 Strong"

**I**N Readers' View columns of your second April number it is noticed that you call attention, rather pathetically, to the fact that you "have one friend anyway." I am afraid that your last two signed editorials will be looked on by the readers of Radio Digest who are really interested in good Radio reception and high class programs to which your Di-electric calls attention with such fine discernment, and the stations to which he listens, are programs that we, 27,000,000 strong, like best; and the stations to which we turn night after night—and thank God for stations like KDKA, WBZ, KYW, WGY, WEAF, WJZ and other associated broadcasters in the Red and Blue hook-ups. May I mention as a fine example of may fine recurrent features the Walter Damrosch recitals this past winter? The sponsors of rare intellectual treats of this nature deserve our most grateful thanks, and we must not forget the Radio broadcasters who have put such programs within our reach. They should have clear frequency bands and I feel that I speak for the great majority of receptionists when I say we will be satisfied with nothing less. If the "Big Four," as you call them, is served the public is served.—John Young, Little Current, Ont.

### R. V. Gets Laugh

**W**ILL say in passing that your magazine covers the ground, or the whole field with regard to the best in Radio. What a laugh I receive in reading the letters you publish.—Erwin W. Gardner, Del Monte, Calif.

### To Hit "Chaincasting"

**W**HY all this fuss about chain broadcasting? We all know grand opera costs a heap of money, so, if half a dozen stations want to split up the cost it can be seen they are only getting together to cut the cost of each one, no matter how much they gum up the entire deal. My advice is not to tune them in at all and make your first Radio cost your last. When replacement sales begin to fall off I think we will get some action and chaincasting will be the first hit. Can anyone tell me what sense there is for seven powerful stations here on the Pacific coast putting on the same programs when any set with four tubes or more can get any one of these stations? And they are not playing to crystal set owners either. I think we are all beginning to realize that as soon as we find we cannot get outside of our

own state and pick up a little DX occasionally. Goodbye to Radio popularity, for as a source of local entertainment it is already doomed.—R. O. Brown, 1083 2nd St., San Bernardino, Calif.

### Reply to Mr. Radtke

**E**LMER RADTKE at Amboy, Minn., says he wants direct advertising. If WEAF isn't direct advertising I don't know what is. I would sooner hear WEAF chain and WJZ chain than some of these smaller stations that put on something nobody cares about as a rule. Stations with 500 to 10,000 or 50,000 watts always have something worth listening to. I sure would be pleased if the Rev. E. M. Gleason of Jackson, Nebr., would get his wish. Sunday is the day for preachers. How much more cash do they need in the Mississippi floods? I have tuned in over 100 stations and they all seem to be collecting the cash as though we were all millionaires around here. I am one of your old readers and sure think you have one of the finest Radio papers in the market today.—Blake H. Page, 1914 Main St., Peoria, Ill.

### Different Breed of DX Hound

**I**N ASKING for a verification stamp from Station WCOA, Pensacola, Fla., I received one of your "Interference" sheets to fill out. I am a DX hound but a little different from the rest; I do not stay with one particular station but keep on going over the whole scale nightly. I think you are really trying to do something for the listening public by getting the various viewpoints from the listeners. And I also manage to keep my Radio up with the times. Building a new set every time my set don't do exactly what I want it to do (meaning when there's a station that simply wants to rule the air.) This was particularly true when WGES and also WBSB tried to stop me from hearing WGN. Then I made up my mind to make a set that would cut through them. If all those Radio fans who have trouble with any particular station would decide to make a set that will eliminate that certain set they should have less to kick about.—Leo Hugo Kruger, BLA, ARRL, IRE, Chicago.

### "Pygmy Minded Critics"

**U**SUALLY letters like Mr. Johnston's are entirely ignored by broadcasting stations because their derogatory remarks are seldom directed at any special station, but in this case these remarks were directed at our station and we cannot pass this because it is not only an insult to our station, but also to the good talent that appears on our programs. We hope that some of the broadcasters who have been ignoring aspersions cast by these radicals will defend themselves and that Radio magazines will investigate and stop pygmy minded contributions that come in from these narrow minded critics who assume a pose of authority on broadcasting programs.—Main Auto Supply Co., by F. C. Zieg, Fort Wayne, Ind.

### DOUBLE DISTANCE REDUCE STATIC NEW TUBE



We guarantee this tube to double your range or money refunded. This tube has proven to be six times as sensitive as an ordinary 201A tube. The Prexto tube is making records for distant reception. Tested by Radio World and other leading laboratories. Insert tube in detector socket and set is ready for operation. 3,000 hours of use guaranteed. Try at our risk. Reduce static with new method furnished with tube. 25,000 sold in four weeks. Money refunded if not satisfied. Order today. **PREXTO MFG. COMPANY**, Dept. R. D.-2 Beaumont, Texas

Name .....  
Address .....  
City ..... State .....

**GET 1 MILE DISTANCE** Amazing Discovery for Any Radio  
You can enjoy your radio program to a few local stations when the expensive concert, dance music and lecture are hundreds of miles away. For just 1 cent with every order for our "Distance" tube, we include FREE our wonderful New Distance Transformer. Tune your set according to our special instructions and presto—the distant stations will be! **SATISFACTION GUARANTEED**—Your money instantly refunded if you are not satisfied. The attachment furnished FREE with the "Distance Getter" alone is worth the price. Calloway of Chicago writes: "I receive beyond all expectations. Cuts through locals like a knife."  
**MAIL COUPON TODAY**  
Request Laboratories, 4854 Madison St., Dept. R. D., Chicago  
 \$1.00 "The Distance Getter" postpaid. Enclosed find \$1 (M. O., stamps or check).  
 Send C. O. D., plus small postage added.  
Name .....  
Address .....  
City ..... State .....

**FROST-RADIO**  
Ask Your Neighbor  
  
**FROST-RADIO SUPER-VARIABLE RESISTANCES**  
Smooth-operating, non-wearing, variable high resistance units of superb construction. Supplied in resistances from 50,000 to 500,000 ohms, 2 or 3 terminal type. List, either type, \$1.25. Order from your dealer. Write us for descriptive literature.  
**HERBERT H. FROST, INC.**,  
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New York CHICAGO Los Angeles

**Most Powerful "B" Eliminator Ever Made!**  
**MAJESTIC SUPER "B"**  
Complete with TUBE  
LIST PRICE  
**\$29.50**  
**GRIGSBY - GRUNOW - HINDS CO.**  
4576 Armitage Avenue, Chicago, Ill.

# Official Wave Length Directory

Effective July 1, 1927

Wave length	Frequency (kilocycles)	Power (watts)	Call signal	Location	Wave length	Frequency (kilocycles)	Power (watts)	Call signal	Location	Wave length	Frequency (kilocycles)	Power (watts)	Call signal	Location	Wave length	Frequency (kilocycles)	Power (watts)	Call signal	Location									
<b>UNITED STATES STATIONS BY WAVE LENGTHS</b>																												
199.9	1,500	15	KCFN	Aneta, N. D.	217.3	1,380	100	KFOR	Lincoln, Nebr.	238	1,260	15	KFBS	Trinidad, Colo.	267.7	1,120	100	KFIZ	F. du Lac, Wis.	344.6	870	100	KFQD	Anchrs, Alas.				
5	KOLO	Durango, Colo.	50	KQFW	Seattle, Wash.	100	KQFW	Seattle, Wash.	15	KFVI	Houston, Tex.	50	KFVI	Houston, Tex.	100	KFLV	Rockford, Ill.	100	KFLV	Rockford, Ill.	500	KFWB	Stockton, Cal.	5,000	WCBZ	Zion, Ill.		
10	KUIJ	Seattle, Wash.	100	KWBX	Portland, Ore.	100	WIBU	Poyette, Wis.	1,500	KYDS	Ind'p'd'ce, Calif.	25	KYDS	Ind'p'd'ce, Calif.	250	KLZ	Denver, Colo.	250	KLZ	Denver, Colo.	5,000	WJBB	St. Ptsbg, Fla.	5,000	WJBB	St. Ptsbg, Fla.		
15	WKBY	Portland, Ore.	100	WKBW	Buffalo, N. Y.	100	WCOM	Chicago, Ill.	1,000	WCOM	Chicago, Ill.	1,000	WCOM	Chicago, Ill.	1,000	KMED	Medford, Ore.	1,000	KMED	Medford, Ore.	2,500	WJCS	Chicago, Ill.	2,500	WJCS	Chicago, Ill.		
20	WMBY	Bl'm'g't'n, Ill.	250	WRCO	Raleigh, N. C.	250	WRES	Quincy, Mass.	1,000	WEMC	B. S., Mich.	150	WIBX	Utica, N. Y.	250	WBAO	Decatur, Ill.	250	WBAO	Decatur, Ill.	2,500	KJR	Seattle, Wash.	2,500	KJR	Seattle, Wash.		
250	WRAH	Prvdce, R. I.	250	KFWO	Avalon, Calif.	250	KGES	C'r'l City, Neb.	239.9	1,250	2,500	KEXE	Portland, Ore.	270.1	1,110	100	KFLX	G'veston, Tex.	352.7	850	1,000	WEW	St. Louis, Mo.	1,000	WEW	St. Louis, Mo.		
201.2	1,490	50	KCEH	Eugene, Ore.	10	KGEW	F. Mrgn, Col.	250	WAED	Detroit, Mich.	250	WFRM	Br'klyn, N. Y.	1,000	KGCU	Honolulu, T. H.	5,000	KGCU	Honolulu, T. H.	5,000	WOC	Davenport, Ia.	5,000	WRR	Dallas, Tex.			
100	WCBR	Prvdce, R. I.	100	WCBW	Chicago, Ill.	100	WCBW	Chicago, Ill.	500	WGRB	B'msh'm, Ala.	500	WKBQ	N. Y., N. Y.	500	WSEA	Va. Bch., Va.	500	WSEA	Va. Bch., Va.	361.2	830	500	KFWB	Los An'g	500	WCSH	Fortian
100	WGMU	N. Y., N. Y.	100	WHBM	Chicago, Ill.	100	WIBM	Chicago, Ill.	220.4	1,360	15	KGFI	F. Stktn, Tex.	241.8	1,240	1,000	KFKB	Millford, Kan.	272.6	1,100	500	KFAD	Phoenix, Ariz.	365.6	820	50	KMJ	Fresno, Cal.
100	WHBM	Chicago, Ill.	100	WIBM	Chicago, Ill.	100	WRMU	N. Y., N. Y.	15	KGRC	San Ant., Tex.	100	KJBS	San Fran, Cal.	100	KRAC	Shrevep't, La.	250	WEBC	Superior, Wis.	500	WBAW	W. Laf., Ind.	1,000	WJBB	Chicago, Ill.		
202.6	1,480	100	KCBS	Seattle, Wash.	100	KGBY	Shelby, Nebr.	100	KGDI	Cresco, Ia.	100	KGDR	San Ant., Tex.	100	WGBA	Allent'wn, Pa.	100	WGBW	Chicago, Ill.	272.6	1,100	500	WBAW	W. Laf., Ind.	1,000	WJBB	Chicago, Ill.	
50	KGDI	Cresco, Ia.	50	KGDR	San Ant., Tex.	50	WGBW	Chicago, Ill.	50	WGBW	Chicago, Ill.	50	WGBW	Chicago, Ill.	50	WGBW	Chicago, Ill.	50	WGBW	Chicago, Ill.	500	WJBB	Chicago, Ill.	500	WJBB	Chicago, Ill.		
100	WGBW	Chicago, Ill.	100	WGBW	Chicago, Ill.	100	WGBW	Chicago, Ill.	100	WGBW	Chicago, Ill.	100	WGBW	Chicago, Ill.	100	WGBW	Chicago, Ill.	100	WGBW	Chicago, Ill.	100	WGBW	Chicago, Ill.	100	WGBW	Chicago, Ill.		
204	1,470	10	KKEK	Yuma, Colo.	100	WBBZ	Chicago, Ill.	100	WHBL	Chicago, Ill.	100	WIBS	Eliz, N. J.	100	WIBW	Chicago, Ill.	100	WKBU	N. C'st'le, Pa.	250	WKEN	Kenmore, N. Y.	250	WLBN	Chicago, Ill.	250	WMBW	Newport, R. I.
100	WBBZ	Chicago, Ill.	100	WHBL	Chicago, Ill.	100	WIBS	Eliz, N. J.	100	WIBW	Chicago, Ill.	100	WKBU	N. C'st'le, Pa.	250	WKEN	Kenmore, N. Y.	250	WLBN	Chicago, Ill.	250	WMBW	Newport, R. I.	250	WLBN	Chicago, Ill.		
150	WIBW	Chicago, Ill.	150	WIBW	Chicago, Ill.	150	WIBW	Chicago, Ill.	150	WIBW	Chicago, Ill.	150	WIBW	Chicago, Ill.	150	WIBW	Chicago, Ill.	150	WIBW	Chicago, Ill.	150	WIBW	Chicago, Ill.	150	WIBW	Chicago, Ill.		
205.4	1,460	25	KFYF	Osmard, Calif.	250	KGFE	Barrett, Minn.	100	KGEE	Grand Is., Neb.	100	KGEE	Kallis'p, Mont.	100	KGFF	Alva, Okla.	250	WABF	Pr'glebro, Pa.	10	WFKD	Phila., Pa.	15	WKBL	Monroe, Mich.	15	WRSC	Chelsea, Mass.
100	KGFE	Barrett, Minn.	100	KGEE	Grand Is., Neb.	100	KGEE	Kallis'p, Mont.	100	KGFF	Alva, Okla.	250	WABF	Pr'glebro, Pa.	10	WFKD	Phila., Pa.	15	WKBL	Monroe, Mich.	15	WRSC	Chelsea, Mass.	15	WWSV	Buffalo, N. Y.		
100	KGFE	Barrett, Minn.	100	KGEE	Grand Is., Neb.	100	KGEE	Kallis'p, Mont.	100	KGFF	Alva, Okla.	250	WABF	Pr'glebro, Pa.	10	WFKD	Phila., Pa.	15	WKBL	Monroe, Mich.	15	WRSC	Chelsea, Mass.	15	WWSV	Buffalo, N. Y.		
206.8	1,450	100	KGDW	Hmbldt, Neb.	100	KGDY	Oidham, S. D.	100	KGTT	San Fr., Calif.	100	KLIT	Portland, Ore.	100	WHPP	N. Y.	100	WLBV	Mansfield, O.	15	WMBG	Rchmd, Va.	15	WNRJ	Jamules, N. Y.	15	WNBZ	Endicott, N. Y.
100	KGDW	Hmbldt, Neb.	100	KGDY	Oidham, S. D.	100	KGTT	San Fr., Calif.	100	KLIT	Portland, Ore.	100	WHPP	N. Y.	100	WLBV	Mansfield, O.	15	WMBG	Rchmd, Va.	15	WNRJ	Jamules, N. Y.	15	WNBZ	Endicott, N. Y.		
100	KGDW	Hmbldt, Neb.	100	KGDY	Oidham, S. D.	100	KGTT	San Fr., Calif.	100	KLIT	Portland, Ore.	100	WHPP	N. Y.	100	WLBV	Mansfield, O.	15	WMBG	Rchmd, Va.	15	WNRJ	Jamules, N. Y.	15	WNBZ	Endicott, N. Y.		
208.2	1,440	100	KGFJ	Los Ang., Cal.	100	KFKI	Yakima, Wash.	250	KFVD	Venice, Calif.	50	KGCN	C'n'rdia, Kan.	50	KGCR	Br'klyn, N. Y.	50	WGM	Jeannette, Pa.	100	WJZ	Chgo. Hts., Ill.	30	WJWP	Ashtabula, O.	100	WKBW	Nwgh, N. Y.
100	KGFJ	Los Ang., Cal.	100	KFKI	Yakima, Wash.	250	KFVD	Venice, Calif.	50	KGCN	C'n'rdia, Kan.	50	KGCR	Br'klyn, N. Y.	50	WGM	Jeannette, Pa.	100	WJZ	Chgo. Hts., Ill.	30	WJWP	Ashtabula, O.	100	WKBW	Nwgh, N. Y.		
100	KGFJ	Los Ang., Cal.	100	KFKI	Yakima, Wash.	250	KFVD	Venice, Calif.	50	KGCN	C'n'rdia, Kan.	50	KGCR	Br'klyn, N. Y.	50	WGM	Jeannette, Pa.	100	WJZ	Chgo. Hts., Ill.	30	WJWP	Ashtabula, O.	100	WKBW	Nwgh, N. Y.		
209.7	1,430	10	KFGQ	Boone, Ia.	250	KSOO	Sx. Falls, S. D.	500	KVOS	Seattle, Wash.	250	WCBZ	Springf., Mo.	50	WLBZ	Muncie, Ind.	50	WLBZ	Muncie, Ind.	50	WLBZ	Muncie, Ind.	50	WLBZ	Muncie, Ind.	50	WLBZ	Muncie, Ind.
100	KFGQ	Boone, Ia.	250	KSOO	Sx. Falls, S. D.	500	KVOS	Seattle, Wash.	250	WCBZ	Springf., Mo.	50	WLBZ	Muncie, Ind.	50	WLBZ	Muncie, Ind.	50	WLBZ	Muncie, Ind.	50	WLBZ	Muncie, Ind.	50	WLBZ	Muncie, Ind.		
100	KFGQ	Boone, Ia.	250	KSOO	Sx. Falls, S. D.	500	KVOS	Seattle, Wash.	250	WCBZ	Springf., Mo.	50	WLBZ	Muncie, Ind.	50	WLBZ	Muncie, Ind.	50	WLBZ	Muncie, Ind.	50	WLBZ	Muncie, Ind.	50	WLBZ	Muncie, Ind.		
212.6	1,410	10	KFHL	Oskaloosa, Ia.	100	KGBZ	York, Nebr.	250	KGDZ	Shrevep't, La.	10	KCFP	Hitchson, Tex.	100	KTUE	Houston, Tex.	1,000	WFLA	Boca R., Fla.	250	WFLA	Boca R., Fla.	50	WKBZ	B'le C., Mich.	150	WSIX	Springf., Tenn.
100	KFHL	Oskaloosa, Ia.	100	KGBZ	York, Nebr.	250	KGDZ	Shrevep't, La.	10	KCFP	Hitchson, Tex.	100	KTUE	Houston, Tex.	1,000	WFLA	Boca R., Fla.	250	WFLA	Boca R., Fla.	50	WKBZ	B'le C., Mich.	150	WSIX	Springf., Tenn.		
100	KFHL	Oskaloosa, Ia.	100	KGBZ	York, Nebr.	250	KGDZ	Shrevep't, La.	10	KCFP	Hitchson, Tex.	100	KTUE	Houston, Tex.	1,000	WFLA	Boca R., Fla.	250	WFLA	Boca R., Fla.	50	WKBZ	B'le C., Mich.	150	WSIX	Springf., Tenn.		
214.2	1,400	50	KFEC	Portland, Ore.	250	KFIF	Portland, Ore.	250	KFWF	St. Louis, Mo.	15	WPJM	Prescott, Ariz.	10	WAIT	Taunt'n, N. Y.	250	WICC	Brdgt'p, Conn.	100	WBUJ	Lewis'rgs, Pa.	100	WBRB	Yngst'n, N. Y.	100	WLBG	Peters'g, Va.
100	KFEC	Portland, Ore.	250	KFIF	Portland, Ore.	250	KFWF	St. Louis, Mo.	15	WPJM	Prescott, Ariz.	10	WAIT	Taunt'n, N. Y.	250	WICC	Brdgt'p, Conn.	100	WBUJ	Lewis'rgs, Pa.	100	WBRB	Yngst'n, N. Y.	100	WLBG	Peters'g, Va.		
100	KFEC	Portland, Ore.	250	KFIF	Portland, Ore.	250	KFWF	St. Louis, Mo.	15	WPJM	Prescott, Ariz.	10	WAIT	Taunt'n, N. Y.	250	WICC	Brdgt'p, Conn.	100	WBUJ	Lewis'rgs, Pa.	100	WBRB	Yngst'n, N. Y.	100	WLBG	Peters'g, Va.		
215.7	1,390	10	KFDZ	Mpls., Minn.	15	KFXJ	Edgewood, Colo.	50	KGCB	Oka, C. Okla.	100	KGER	Long B., Cal.	50	KGFC	Oka, C. Okla.	250	KFMX	Los Ang., Cal.	5	WACS	Smrville, N. Y.	100	WCLS	Joliet, Ill.	50	WBBZ	Kingst'n, Mass.
100	KFDZ	Mpls., Minn.	15	KFXJ	Edgewood, Colo.	50	KGCB	Oka, C. Okla.	100	KGER	Long B., Cal.	50	KGFC	Oka, C. Okla.	250	KFMX	Los Ang., Cal.	5	WACS	Smrville, N. Y.	100	WCLS	Joliet, Ill.	50	WBBZ	Kingst'n, Mass.		
100	KFDZ	Mpls., Minn.	15	KFXJ	Edgewood, Colo.	50	KGCB	Oka, C. Okla.	100	KGER	Long B., Cal.	50	KGFC	Oka, C. Okla.	250	KFMX	Los Ang., Cal.	5	WACS	Smrville, N. Y.	100	WCLS	Joliet, Ill.	50	WBBZ	Kingst'n, Mass.		
216.3	1,380	100	KFOW	Lincoln, Nebr.	100	KQFW	Seattle, Wash.	100	KGDM	Stockton, Cal.	5	WIBU	Poyette, Wis.	100	WCOM	Chicago, Ill.	1,000	WEMC	B. S., Mich.	150	WIBX	Utica, N. Y.	250	WBAO	Decatur, Ill.	250	WBAO	Decatur, Ill.
100	KFOW	Lincoln, Nebr.	100	KQFW	Seattle, Wash.	100	KGDM	Stockton, Cal.	5	WIBU	Poyette, Wis.	100	WCOM	Chicago, Ill.	1,000	WEMC	B. S., Mich.	150	WIBX	Utica, N. Y.	250	WBAO	Decatur, Ill.	250	WBAO	Decatur, Ill.		
100	KFOW	Lincoln, Nebr.	100	KQFW	Seattle, Wash.	100	KGDM	Stockton, Cal.	5	WIBU	Poyette, Wis.	100	WCOM	Chicago, Ill.	1,000	WEMC	B. S., Mich.	150	WIBX	Utica, N. Y.	250	WBAO	Decatur, Ill.	250	WBAO	Decatur, Ill.		
217.3	1,380	100	KFOR	Lincoln, Nebr.	100	KQFW	Seattle, Wash.	100	KGDM	Stockton, Cal.	5	WIBU	Poyette, Wis.	100	WCOM	Chicago, Ill.	1,000	WEMC	B. S., Mich.	150	WIBX	Utica, N. Y.	250	WBAO	Decatur, Ill.	250	WBAO	Decatur, Ill.
100	KFOR	Lincoln, Nebr.	100	KQFW	Seattle, Wash.	100	KGDM	Stockton, Cal.	5	WIBU	Poyette, Wis.	100	WCOM	Chicago, Ill.	1,000	WEMC	B. S., Mich.	150	WIBX	Utica, N. Y.	250	WBAO	Decatur, Ill.	250	WBAO	Decatur, Ill.		
100	KFOR	Lincoln, Nebr.	100	KQFW	Seattle, Wash.	100	KGDM	Stockton, Cal.	5	WIBU	Poyette, Wis.	100	WCOM	Chicago, Ill.	1,000	WEMC	B. S., Mich.	150	WIBX	Utica, N. Y.	250	WBAO	Decatur, Ill.	250	WBAO	Decatur, Ill.		
218.8	1,370	250	KFWO	Avalon, Calif.	10	KGES	C'r'l City, Neb.	250	KGEW	F. Mrgn, Col.	250	WAED	Detroit, Mich.	250	WFRM	Br'klyn, N. Y.	1,000	KGCU	Honolulu, T. H.	5,000	KGCU	Honolulu, T. H.	5,000	WOC	Davenport, Ia.	5,000	WRR	Dallas, Tex.
250	KFWO	Avalon, Calif.	10	KGES	C'r'l City, Neb.	250	KGEW	F. Mrgn, Col.	250	WAED	Detroit, Mich.	250	WFRM	Br'klyn, N. Y.	1,000	KGCU	Honolulu, T. H.	5,000	KGCU	Honolulu, T. H.	5,000	WOC	Davenport, Ia.	5,000	WRR	Dallas, Tex.		
250	KFWO	Avalon, Calif.	10	KGES	C'r'l City, Neb.	250	KGEW	F. Mrgn, Col.	250	WAED	Detroit, Mich.	250	WFRM															

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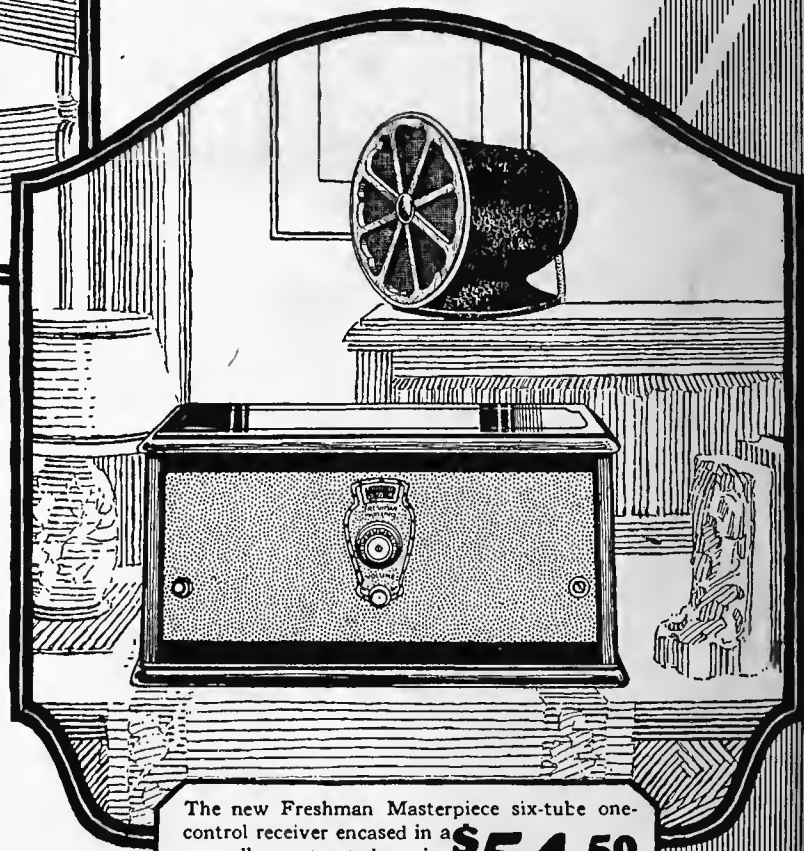
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