How to Chart Your Dial Settings to Save Time; Pictures of WFAA, Dallas; Directions for Making New Four Filter Eight Tube Super-Heterodyne Set



NEW FOUR FILTER SUPER

### **JAZZ FADES OUT AS CLASSICS WIN FANS**

## SURVEY SHOWS TASTE OF PUBLIC IS IMPROVING

# WEAF Correspondence Also Increases Threefold — "Talk" Listeners Quadruple Strength

NEW YORK.—The public is renouncing its allegiance to King Jazz. The "jazz age" is passing fast. So says John A. Holman, broadcasting manager of the American Telephone and Telegraph com-pany, after a study of the correspondence received by that company as a result of Radio.

American Telephone and Telegraph com-pany, after a study of the correspondence received by that company as a result of Radio. For, out of 54,000 letters received in January, 1925, only 5 per cent favored jazz figure was 35 per cent, while in January, 1923, it dominated all else, for then it was 75 per cent. In the meantime the percentage of fans inclined to favor classic and "good" music has risen from 20 per cent in 1923 to 45 per cent in 1925. **Talks Gain in Favor, Too** "Talks" in January, 1923, rated 5 per cent popularity, while it now stands third in public appreciation with 20 per cent. Symphonic music ranks second nowadays with 30 per cent. "Good music, that is, concert and stand-ard numbers, philharmonic concerts and the like, are steadily growing in favor," says Mr. Holman, "and talks, inspira-tional, interesting and educational, are also more popular." Besides providing a method for analyz-ing programs the correspondence does an-other thing. It shows the Radio andi-ence has evidently grown greatly in one year's time. While 54,000 letters were received by WEAF in January of this year, the 1924 monthly average number of communications was only 17,00.

### **Pass Resolution Allowing Press Over Navy Stations**

WASHINGTON, D. C. — A resolution providing for the sending of press mes-sages over government-owned Radio sta-tions from the Pacific coast of the United States to the Orient, etc., has been passed by the Senate. The resolution provides for the use of these stations until June 30, 1927, by which time it is expected that commercial Radio stations will be in op-eration. .The House has a similar reso-lution pending on its calendar.

### **DIFFERENCE IN TIME CREATES BIG PUZZLE**

AVENPORT, Iowa.—A cablegram was received by WOC here from Samoa. It arrived at 8:49 Daven-port time. It was filed at 6:28 the same evening Samoan time. Now, how long did it take for the message to reach its destination? No, you're wrong! It took exactly twenty hours and twenty-one minutes to arrive. This apparent dis-crepancy is due to the international date line. crepancy date line

Kay Ronayne, better known as the "person-ality girl" at Station WEBH, Chicago. She appears every Tues-day and Saturday from this station. Right, Miss Imogene Schuster, versatile leader of the Schuster Sisters' Cali-fornia or chestra at WOC, Davenport.

# **SHARPNESS OF RECEIVER UNEXCELLED**

J. Fournier Designs Set

Noted Inventor Surprises Fans with Astonishing Improvement in Super-Heterodyne

Undaunted by the fact that super-heterodyne manufacturers had followed very closely the original design conceived by Major E. H. Armstrong for the super-heterodyne, Jacques Fournier, the well-known Radio engineer, has struck out from the beaten path into hitherto un-tried methods of utilizing super-hetero-dyne principles and has evolved a re-ceiver which is not only radically differ-ent in many respects but a marked improvement in both selectivity and range over anything in this line yet de-veloped. veloped.

range over anything in this line yet de-veloped. There is nothing patentable about this new receiver or any of the parts involved and, due also to patents, this receiver cannot be put on the market. There is nothing revolutionary in any of the cir-cuits of this improved set, but Mr. Fournier has deviated from the usual procedure in several re-spects so that his set which he calls the Four Filter Super, will operate anywhere in Chicago or New York, the two most difficult points, without inter-ference from local stations. "After building a number of super-heterodynes," says Mr. Fournier, "I found that none of them were sufficiently se-lective. It was in an effort to increase the se-lectivity, with-out loss of range, that I developed the set which I am now using. (Turn to page 2) (Turn to page 2)

### IMPROVES SUPER-HET

**IMPROVES SUPER-HET** (Continued from page 1) "It is not a particularly difficult set to build once the constants have been worked out, and I am quite sure that I did in constructing the parts which make up this set will get the same care that I did in constructing the parts which make up this set will get the same satis-faction from it that I do. My location is a very poor one, as previous experiments have shown, yet the set performs excep-tionally well and works even better when used in locations that are known to be at least average and will give a receiver an even break." Radio Digest has given Mr. Fournier's receiver some very thorough tests and is convinced that this set possesses sufficient merit to present it to Radiophans at large. The log sheet of the Four Filter Super

merit to present it to Radiophans at large. The log sheet of the Four Filter Super shows all of the high power class B sta-tions from WEAF in New York to KFI in Los Angeles and including of course such well-known broadcasters as WCAP, WOO, KDKA, WCX, WBZ, WMC, WSB, WBAP, WHAS, WOC, KOA, WFAA and KGO. A receiver which will go through this list practically any night in the week and also pick up many of the smaller and not so well known stations is exceptional, and while there may be a few readers able to do this, due either to excellent location or freak conditions, this is far from being the rule in any large cities. Its perform-ance on a loop derial was equal to that of the now famous Hetduogen on an out-side aerial and it was far simpler to con-trol, with less likelihood of radiation and interference with neighboring sets. This magazine has therefore made arrange-ments with Mr. Fournier to write a series of articles on the construction of this set beginning in this issue, the first of which will be found on page 17.

### De Luca and Mme. Dal Monte Enthrall Fans

### Hear Famous Artists on Fifth of Victor Programs

Victor Programs NEW YORK.—Guiseppe de Luca, bari-tone, one of the most distinguished mem-bers of the Metropolitan Opera company, and Mme. Toti Dal Monte, coloratura so-prano of the same organization, both world-famous Victor artists, made their Radio debut before the vast Radio audi-ence of twelve stations during the fifth Victor presentation given before the microphone in the studios of WEAF here on Thursday evening, February 26. In addition to De Luca and Mme. Dal Monte, the Victor Concert orchestra, un-der the direction of Rosario Bourdon, as-sisted in making the program one that will live long in the hearts of the lis-teners in on this evening. Murch 12 is the date of the sixth Victor recital. Even more stations will be linked in at this time, it is believed. The re-citals are given from 9 to 10 p. m. East-ern or 8 to 9 p. m. Central time.

### **Station Chitchat**

Ten of the company of KGO players, under the direction of Wilda Wilson Church, at Oakland, Calif., will speak the parts of Booth Tarkington's comedy, "Clarence," for the pleasure of Radio listeners on Thursday evening, March 12. Between the acts, music by the Arion trio will be heard.

Due to the absence of Dr. Sigmund Spaeth, who is at present on a lecture tour, his weekly studio party broadcast from WOR, will be presented under the direction of John Tasker Howard who has been associated with Dr. Spaeth for some time.

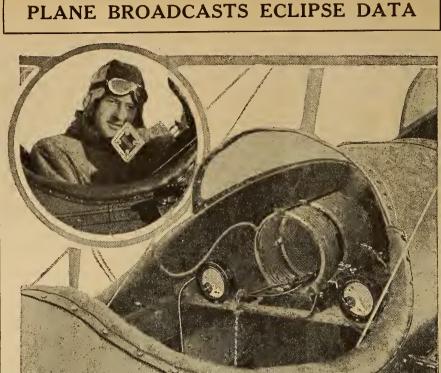
Senator Frank W. Elliott of WOC, has promised his aid to the Bishop of WAHG, in rounding up the Old Time Fiddlers who are really state champions for the Inter-state contest on the air.

Marguerite Namara, world-famous op-cratic soprano, made her only Radio ap-pearance in America through Station WJZ recently.

Godfrey Ludlow, famous concert violin-ist, has been added to the staff of Station WJZ and WJY. Mr. Ludlow will act as assistant to the manager in the prepara-tion of extraordinary musical broadcasts.

An Arkansas Old Time Fiddlers' contest was staged recently from Station KFMQ, when ten old time fiddlers competed for the honors of the country. Thousands of fans expressed their appreciation of the concert.

Howard Thurston, master magician, re-cently gave a talk from Station WLW. He requested at the time that anyone who had helped him in his numerous experi-ments, write him a letter. These letters will be compounded into a book entitled



Gold Medal Station WCCO rebroadcast the only successful airplane broadcast of the recent solar eclipse, made from the plane shown here. The set used, a 5-watt transmitter, is seen in the fusilage. Howard Kelley, who assisted in the experiment, is holding the microphone, which is concealed in a hushaphone.

"My Assistants—From Office Boys to Presidents." \* \* Yankee, an educated canary, caused a flutter of jealousy among the feathered members of the force at KHJ. When he came into the studio he made his debut by singing Yankee Doodle. Tune in on this station and hear this unique feature.

# CONTENTS

Radio Digest, Illustrated, Volume XII, Number 9, published Chicago, Illinois, March 7, 1925. Published weekly by Radio Digest Publishing Company, 510 N. Dearborn Street, Chicago, Illinois. Subscription rates, yearly, Five Dollars; Foreign Postage One Dollar additional; single copies Ten Cents. Entered as second class matter at the postoffice at Chicago, Illinois, under the Act of March 3, 1879.

### All the Live News of Radio. .1 to 8 Broadcast Listener's Reference Library, Part V-Radio Frequency Explained, by E. T. Jones..... Adding Radio Frequency to Reflex Set, by E. F. Ziemer..... Questions and Answers Radiophone Broadcasting Stations, Part I .....

## Looking Ahead

- The Four Tuned Filters of the Special Super will be taken up by Jacques Fournier next week. They are the secret of this receiver's remarkable selectivity and considerable space will be given this feature so that readers may have every detail and nothing to guess at. Materials necessary are in the list of parts included as part of this week's installment.
- **Broadcast Listener's Library** will be increased by an article on audio frequency amplification. This essential to volume and loud speaker operation is handled by E. T. Jones in a way that all can understand.
- **Operating and Trouble Shooting Grebe Synchrophase** will be a treat to appear in the next issue. The writer of the article found this a most interesting set, surprisingly different from the rest.
- Ever Heard "Old Bill" Hay at KFKX, Hastings? He and his splendid station will be described by word and picture in the next issue of Radio Digest. Those interested in the technical equipment of stations will also find KFKX of great interest because of its unusual design.





### London, Madrid Newcastle, Aberdeen-that's just a few of them

AGAIN Elgin Super-Rein-artz leads all others! Every trans-Atlantic report investigated was found to be ABSOLUTELY authentic ! Many happy owners of Elgin sets again tuned in the European stations.

21

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will give you the selectivity and distance it has given others. And you can save \$50.00. Let us tell you how-

FREE Mail the coupon TODAY for the plete working drawings of the fa Elgin Super-Reinartz, the set that the distant stations. They are fre obligations, just a stamp for po-please!

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ELGIN RADIO SUPPLY CO., Dept. A. 207 E. Chicago St., Elgin, Illinois. Send the FREE drawings of the Elgin Super-Reinartz at once. Also tell me how I save \$50.00 on this set. I en- close a stamp for postage.	
Name	. 1
Address (Please PRINT in pencil)	

### March 7, 1925

Right, P. A. Leon-hardt, athletic di-rector of the Cen-tral Y. M. C. A. in Chicago, giving his daily Radio exer-cise from Station KYW.

# **TUNE IN FOR BETTER HEALTH-EXERCISE**

Below, Bernard Drury, prominent physical culturist, directing thousands of Califorthousands of Califor-nians every morning in their exercise. Left, Margie Hipsley, fol-lowing the instruc-tions closely.

# N UMEROUS sta-tions throughout the country are now broadcasting morn-ing exercises for the sleepy commuters. Among them are: WLW, Cincinnati, Ohio, every Monday, Thursday, Fri-day and Saturday morn-ing at 8 a. m. (Central time); KPO, San Fran-cisco, Calif., every morning at 7 a. m., ex-cept Sunday and Mon-day (Pacific time); KYW, Chicago, Ill., every morning at 6:30 a. m., except Sunday and Monday (Central time); WWJ, Detroit, Mich., every morning except Sunday at 8 a.m.

CKY GETS CREDIT

FOR FIRST RELAY

Was Pioneer in Canadian Rebroad-casting—Now Performs Feat Regularly

Feat Regularly WINNIPEG, Can.—The first rebroad-casting of an American station by one in Canada occurred over a year ago. The original Canadian broadcaster to perform such a relay was CKY, Manitoba Tele-phone System station here. This an-nouncement is made to correct a previous statement that CKAC, Montreal, had re-cently performed this feat for the first time in Canada. CKY is by far the Canadian pioneer as far as rebroadcasting is concerned. The Winnipeg station first rebroadcast KYW, Chicago. Since then the stunt has been repeated many times. Every week CKY makes it a point to rebroadcast KDKA, WHAS, WOC, WLS, WABN, WBAP, WEAR, CNRR and other well-known stations. D. P. R. Coats, manager of the Winnipeg broadcaster, is a Radio pioneer to whom many innova-tions, now accepted as studio practice, may be credited.

Football Team for 2LO

LONDON, England.—Dan Godfrey, Jr., conductor of the orchestra at Station 2LO here and an old football player, has been successful in organizing a football team for the London station and the headquar-ters staff of the British Broadcasting company.

upon by paratus.

(Eastern time); WOR. Newark, N. J., every morning except Sun-day at 7 a. m. (East-ern time), and KDKA, East Pittsburgh, every morning except Sunday at 7 a. m. (Eastern time). "One - two - three -four — repeat," comes from the loud speaker, and the exponents of physical culture and their followers begin their "daily dozen" to a snappy tune. Each morning an invisible gymnasium is trans-ported right to your bedroom, and health exercises and advice are given.

### **DR. HEAVISIDE DIES PENNILESS; AGE 75**

WAS ORIGINATOR OF BASIC THEORY OF RADIO

Englishman Was Great Mathematician and Scientist, but Lived in Penury as Recluse

LONDON, England.—Regarded by many as the world's foremost Radio pioneer, Dr. Oliver Heaviside, known universaily in connection with the "Heaviside layer," and as the greatest student of electrical phenomena, has died in Torquay, England, in poverty at the age of 75. Dr. Heaviside's fame has spread throughout the world, but at his lonely little cottage at Torquay he lived the life of a recluse, seeing no one but those in immediate association with him, and de-clining firmly to make any appearance in public. It was with extreme difficulty that he could be seen at all. He was a bachelor and devoted himself to his studies to the exclusion of all other interests. interests.

### Marconi Used His Theories

Marconi Used His Theories For many years Dr. Heaviside lived in extreme penury. Even his gas was cut off, and it was not until Professor J. A. Fleming, the distinguished professor of electrical engineering at the University of London, and some others took the matter up that he was granted a civil list pension and thus ensured a moderate measure of comfort. comfort

comfort. Heaviside devoted himself chiefly to the study and interpretation of Clerk Max-well's theory of electromagnetic radiation and to showing how it can be applied to the solution of problems of practical telegraphy and telephony both with and without wires. The theories he put for-ward were essential to the invention of

### "BROADCAST" COMES FROM BIBLE; CLAIM

New YORK.—Broadcast — a word which is well known to devotees of Radio, comes from the para-ble of the Sower and the Seed as re-corded in the eighth chapter of St. Luke's gospel, the Rev. Father John Handly told more than 2,000 parishion-ers at a recent high mass in the church of St. Paul the Apostle, this city. Father Handly has been placed in charge by the Paulist fathers of the installation of the large Paulist fath-ers broadcasting station.

### Radio and they were consequently acted HAZELTINE SUES upon by Marconi in developing his ap-**GREBE COMPANY** How Heaviside Theory Started

Alleges "Syncrophase" Infringes Patents—A. H. Grebe Says Not—Will Test Patent

phase receiver in no way infringes on the very limited claims advanced by Mr. Hazeltine. "While in government service Mr. Hazel-tine dedicated his invention to the public and then withdrew this dedication. This was not legal. The Grebe company will show that the Hazeltine patent is now in litigation. Its validity is being ques-tioned by the Radio Corporation of Amer-ica and allied companies because it is alleged to infringe on the Hartley and Rice patents held by the latter companies. "The Grebe company was offered a Hazeltine patent license prior to the suit, but refused to buy one because of the question of its validity and because it did not cover the circuit now in use by the Hazeltine licensees."

### Samoa Hears WHB in WBAP Rebroadcast

### J. H. Dixon Says Relay Was as Clear as Original

KANSAS CITY, Mo.—WHB, the station of the Sweeney Automotive and Electrical school here, has recently been conducting some very successful tests in rebroadcast-ing. Included in the many letters of re-sponse is one from Samoa, which is about 6,500 miles from Kansas City. The writer says: "I heard clearly your rebroadcast of WBAP, Fort Worth, on Sunday, January 3. I listened to the original broadcast of the above piece from WBAP and your re-broadcast equalled the primary rendering in clarity.

"I have to thank your station for very many good Sunday concerts, received reg-ularly during the past year. I am using a 6-tube receiver of my own design."

### **ABSOLUTE SECRECY IN BRUNSWICK TEST**

EVEN ANNOUNCER DOESN'T KNOW ARTISTS' NAMES

Touch of Mystic Added to Broadcasts by Big Phonograph Company's Music Memory Contest

NEW YORK.—Absolute secrecy is the watchword of the Brunswick recording laboratories every Tuesday evening. Heav-ily veiled ladies dash down deserted cor-ridors and dodge hurriedly through quickly closed doors; puzzled Radio op-erators sit in a locked ante chamber and modulate the program coming from a microphone to which they have no access: a wondering orchestra plays accompani-ments for a singer hidden from them by a heavy screen; and elevator men and elec-tricians stand in little groups with com-plete bewilderment written large on their faces. faces.

plete bewilderment written large on their faces. The Radio Music Memory contest in-augurated February 3 by the Brunswick-Balke-Collender company through Stations WJZ, New York, WGY, Schenectady. WRC, Washington, and KDKA, Pitts-burgh, has brought into existence the most unique broadcasting methods ever employed. With hundreds of thousands of listeners in every part of the country competing for the \$5,000 cash awards to be given at the end of each month to those guessing the largest number of artists' names and compositions, it is imperative that no whisper of the iden-tities of the singers leak out from the Brunswick studios. For the first time in Radio history an announcer introduces an artist whom he cannot see. The announcer is seated in a tiny room separated from the broadcast-ing studio by a heavy locked door.

### WHEAT OPERATORS LOSE TO FARMERS

M INNEAPOLIS, Minn.—"Pity the poor farmer," is an expression often heard. Today that is a thing of the past. Out in North Da-kota the farmers bring their wheat to market, and wait until they think it is time to sell. They receive their prices via Radio. When prices drop, farmers call the elevator and sell. The elevator manager usually gives them the old price quoted and the elevator has to take the loss. Elevator min-ators are now planning to get

NEW YORK. — Infringement of the Hazeltine patent is charged by the Hazel-tine corporation in a recent suit filed here against A. H. Grebe & Co., Inc., who are alleged in manufacturing the "Syn-chrophase" receiver to be infringing the neutrodyne patent. A. H. Grebe, president of the defendant company, says: "I view this suit as a political gesture intended to create renewed interest in the declining stock issues of the Hazeltine corporation. So far as infringement of the Hazeltine patents by the Grebe com-pany is concerned, the Grebe Synchro-phase receiver in no way infringes on the very limited claims advanced by Mr. Hazeltine.

How Heaviside Theory Started In the early days of Radio, when skep-tics were denying the possibilities of elec-tric waves traveling over the mountain of water 150 miles high that lies be-tween England and America, Heaviside maintained, again on the basis of Max-well's theory, that, as sea water has suffi-cient conductivity to make it behave as a conductor of the electric waves, they would accommodate themselves to the surface of the sea in the same way as they follow a metallic wire. He further pointed out the probability that in the higher regions of the air there exists a permanently ionized layer which, being as good a conductor as sea-water, would act as an upper guide to electric waves. Reasons have since been adduced to explain the formation and maintenance of this "Heaviside layer." Dr. Heaviside was one of the world's greatest mathematics has been adopted in American text-books.

RADIO DIGEST-Illustrated

March 7, 1925

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# How to select batteries that run your set for weeks without recharging

work and risk getting one that requires recharging every few days? Buy wisely. Let the Prest-O-Lite Radio Chart guarantee you batteries that fit your set-of ample capacity to bring weeks of fine reception without too frequent recharging.

The above section of the master chart selects Prest-O-Lite "A" Batteries to fit all 5-volt sets. It recommends two sizes for each set, depending upon the days of service you wish between rechargings (based on the average use of your set of three hours a day). The larger capacity battery will be found more desirable unless facilities for frequent and easy recharging are provided. Consult the complete chart at your dealer's for data

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THE PREST-O-LITE CO., INC., INDIANAPOLIS, IND. New York San Francisco In Canada: Prest-O-Lite Company of Canada, Ltd., Toronto, Ont.

WHY select storage batteries by guess- on "B" Batteries and also "A" Batteries for low voltage tubes.

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rite today for s free booklet ether you have a tube set or most anced multi-tube it, you'll find a d of interesting in-

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This booklet gives the complete st-O-Lite Radio rt—technically acate recommenda-" and "B" storage batteries for every type of set.

In addition, there is much vitally impor-tant data on battery care and upkeep-information that any radio fan will find of real value in , keeping his set at its maximum efficiency. Write us at Indianapolis, Ind., for your copy right now.

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### March 7, 1925

Leland Johnson, a finished pian-ist often heard and greatly ap-preciated.

# WFAA-"Working For All Alike"

"THEY have lots to brag about, but they don't do it!" Thus tersely spoke a young man bearing the gloom-dispelling name of Joy occupying an office niche near the operating room of WFAA, broadcasting stations of The Dallas News and The Dallas Journal at Dallas, Texas. That's it exactly. They ARE modest down there! Climbing up the golden stairs may, or may not, be the mode of travel to reach the Heavenly Gates; but one does climb stairs to reach the Heavenly Gates; but one does climb stairs to reach the roof of the greatest newspaper building of the South, on which is located the operating room of WFAA and the office of Super-

rector of WFAA. He is well known and liked by thousands of Radiophans.

Above, oper-ating room, s h o w i n g power panel. Below, main studio, show-i ng setting of piano.

Miss Johnye Davis, ac-companying pianist at WFAA.

visor L. B. Henson, adjoining. And what a splendidly equipped operating room it is! The transmitter and latest im-proved apparatus are here, tele-phone, telautograph and signal light system. The antenna looms 207 feet above the street. The system of wiring was designed by Supervisor Henson and other stations have copied the WFAA antenna system. Due to its remarkable location and ef-ficient operation, amid surroundings peculiar only to the Southwest, this 500-watt stations having much more.

(Vic) r and

operator and assist-ant announcer. Below, Palace Theater or-chestra, which broad-casts regularly.

Wilson

here to be ration, amd surroundings peculiar only to the Southwest, this 500-watt station is credited with greater power than stations having much more. As is usual in Radio offices, there is the inevitable wall map heavily doted with points of reception; Honolulu, 4,000 miles; England, 6,500 miles, and Australia, 8,500 miles, are most distant points. "But," said Supervisor Henson, "it is the wrong attitude of the public to think only in terms of dis-tance. Clarity, efficiency, selectivity, sensi-tivity, non-interference and merit are what very listener wants and should strive for. WFAA is a stickler for quality—quality foradcasting; it is far better to get good to e quality with moderate volume, than to sacrifice quality to gain intensity. The studio is located on the third floor of the finest newspaper library in the country; this is used as a reception room for guests and artists; seldom a broad-to string period passes but that guests foug around the long table made from a texas oak tree, and listen to the loud speaker or enjoy the books from. WFAA bears the distinction of being the first in the world to form a bible class by Radio. Today there are 12,000 members in the WFAA Bible class. (Continued on page 7)

10 . . .

Dr. George W. Truett, pastor of the First Baptist church, who has many admirers.



Chas. E. Osborne, physical director at the Y. M. C. A., is a very popular part of the program. 0g1

Above, Charles F. Baker, operator at WFAA. Picture shows the look someone got when they said there was a better station than WFAA. Right, Dwight Brown, organist at the Falace theater.

# WOULD YOU TRUST THIS MAN'S JUDGMENT ON RADIO?



Commander DONALD B. MacMILLAN

The World's Greatest Explorer Took

ZENITH

Into the Arctic

MacMillan, when he sailed on his last Polar Expedition in 1923, selected a ZENITH 3-R.

He had to be sure. There are no radio supply stores in the Arctic. He couldn't afford to take a chance. Dependability to him was not alone dependable performance and sturdy construction, but ability to withstand the violent elements ranging from  $70^{\circ}$  below zero to  $50^{\circ}$  above. Is there a location in the United States that can offer such drastic conditions for what has been believed to be an ultra delicate instrument? MacMillan tells us—"Night after night, in that great silent Iceland, we heard the music from your popular cafes—the news day by day—your baseball scores and your great preachers from their pulpits." Think of it!!! Could anything be more convincing evidence in dependable radio construction and performance? Is Mac-Millan's judgment worthy of your consideration?

Call on your nearest ZENITH dealer and with your own eyes and ears satisfy yourself as to WHY MacMILLAN SELECTED ZENITH. It's worth the test. That's what MacMillan did.

-Costs More - But Does More LONG DISTANCE

Handled only by selected dealers who give you service. We give the Zenith agency franchise only to dealers who will give you service AFTER THE RADIO IS SOLD. When you buy a ZENITH we are not through. Our exclusive dealer's serviceman will call once a week or oftener if you want him. This costs you nothing. In other words, Zenith dealers have done your shopping for you.

mith Radio Corporation, Dept. M

Write us for the name of your nearest exclusive Zenith dealer



32 S. Michigan Ave., Chicago	o, Ill.	.,			
Please send me literature earest Zenith dealer.	and th	he n	ame	of	your
Jame		•			
treet	•••••	•••••			
lity	State				

RADIO DIGEST-Illustrated

# PLAN LINK OF PHONE LINES TO STATIONS

BROADCAST FROM WEAF TO ENTIRE COUNTRY

Overhead Cost Would Remain About Same—Stations to Pay on Pro-Rata Basis

Pro-Rata Basis NEW YORK. — Plans involving the eventual linking into a permanent hook-up by means of the telephone lines, sta-tions in eighteen cities for simultaneous broadcasting of programs furnished by Station WEAF, are now nearing com-pletion. The new project provides for the connection to be available every night from 8 to 11 p. m., Eastern time. An official of the telephone company giving further details of the project ex-plained by saying: "Using the long lines during their period of slackness, limits us tõ a network cast of the Mississippi. We have fewer lanes to the westward, and with differ-ences in time and other features, they have a peak load when the eastern lines are idle. Boundaries of Network

### Boundaries of Network

Boundaries of Network "Our western boundary for this scheme is set at Minneapolis and Davenport, Iowa, where negotiations have been perfected to give this service. South of that we can go to Fort Worth and Dallas. The southern boundary on the eastern coast will be at Atlanta, Ga., where we are negotiating. "Another point is that the studio over-head cost of the programs would stay about the same. In the enlarged hook-up broadcast those who pay for the good-will publicity broadcasting will be quoted a rate in proportion to the number of sta-tions they wish to use and the stations broadcasting such a program will be paid a pro-rata share of the receipts. On the other hand, stations taking portions of our sustaining program will be 'charged pro rata." **Victor Programs Speed Flan** 

victor Programs Speed Plan It is also said that the new project had received considerable impetus from the success of the recently inaugurated Victor record programs. The stations now under contract to par-ticipate in the new project, all of which will, for instance, take the Victor pro-gram, though there will be different hook-ups on other items of the WEAF pro-grams, include the following: WCAP, Washington; WJAR. Providence; WEEI, Boston; WDBH, Woreester; WFI and WOO, Philadelphia, dividing time; WCAE, Pittsburgh; WGR, Buffalo; WWJ, De-troit; WCCO, Minneapolis; WOC, Daven-port; WTIC, Hartford, and WEAR, Cleveland.

### WFAA, DALLAS, TEXAS

(Continued from page 5)

(Continued from page 5) WFAA audiences are generous with ap-plause; commendation coming in over telephone and telegraph wires is ever welcome. In keeping with the great newspaper institution by which it is sponsored, WFAA might well be said to have an editorial policy also. To interpret such a policy requires minds of peculiar ca-pability. L. B. Henson possesses qualities of correct judgment, inspiration, initia-tive and vision. Interconnectial service of many stations tied together by wire trunks, rather than installation of high-power stations or the rebroadcasting on higher wave of low-wave signals received, are some of the few things we may expect, declared Henson. That newspapers will probably find more profitable and service-able uses for their stations than they have up to now, is also an assurance, he states.

have up to now, is also an assurance, he states. Correlating the endeavors of Supervisor Henson are the various members of the personnel. A. Calhoun, chief announcer, lovingly known as Adam—and we use the word "lovingly" advisedly—has delighted untold thousands with the clarity of his enunciation. Brilliant, capable, witty, Cal-houn is in a class alone. It is a keen disappointment to his many admirers that his photograph does not accompany this sketch, but as aforementioned— they ARE modest down there at WFAA. C. F. Baker and D. B. Wilson, announ-cers, do their bits and do them exceed-ingly well. Mary Carter Toomey charms hundreds of listeners, big and little, with her bed-time stories, told in her inimitable manner. "The Red-Hcaded Girl" delights WFAA audiences each week with her softly modulated solos and quaint little melodles on the plano. "Do you ever hear my music or my songs?" she queried, and when we assured her that we had, with a bird-like turn of her famous head, she smiled: "Do you like 'em?" That is the spirit of WFAA—they want folks to hear 'em and they want every-body to like 'em. And most of us do both!

KDKA recently attempted to broadcast the noise of Niagara Falis.

### **FANS HAVE CHANCE** TO NAME SONG HIT

Buffalo, N.Y. Here is a new kind of a con-test! Radio contest! On Friday evening, March 13, at 10 o'clock, Eastern time, Announcer O. E. Becker of WGR will give the details of it. But you don't have to wait. Here's the idea.

have to wart the idea. The public is go-ing to be invited by Mr. Becker to sub-mit names that might do for pop-ular songs. Submit any way

"Danny" Engle (Colgrove Studio Photo) that you think might make a pop-ular song a success. Send in as many suggestions as you wish, including your name and address.

**Station Changes** 

Opening of the new studio for Station WGI will take place in about sixty days. The studio will be located on the roof of the Houghton and Dutton building, Bos-ton. The power will be increased from 100 to 500 watts. \* \*

100 to 500 watts. \* \*
Six new class A and one class B stations were licensed by the department of commerce recently, while one station transferred from class A to B. The new stations are as follows: KFWB, Warner Bros., Hollywood, Calif., 252 meters, 500 watts; KFWC, L. E. Wall and C. S. Myers, Upland, Calif., 211.1 meters, 10 watts; WGBX, University of Maine, Orono, Me., 252 meters, 10 watts; KFUZ, Y. M. C. A., Virginia, Minn., 248 meters, 10 watts; WGBW, Valley theater, Spring Valley, Ill., 212.6 meters, 20 watts.
The class B station is WMBF, Fleetwood Hotel Corp., Miami Beach, Fla., 384.4 meters, 500 watts.

The transfer from class A to class B is KFMQ, University of Arkansas.

name and address. The contest closes on Monday evening, March 16, at 10 o'clock. At that time "Danny" Engle, well-known WGR come-dian songster, whose 'idea this is, will be in the studio at WGR accompanied by Henry Murtaugh, organist for the Lafay-ette theater, and Fred Dempsey. The winning title must be selected, a

### Lots of Movie Stars Help KFWB Opening

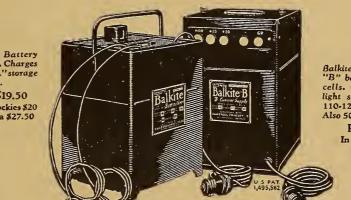
Warner Brothers, Film Makers, Go on Air in West

LOS ANGELES.—The location of the new Hollywood station, which has been kept such a close secret during the past month, is on the lot of Warner Brothers' West Coast studios. For some time rumor has had it that the new station would be owned and op-erated by a motion picture concern but it was not until construction of the towers began, and long after the transmitter itself was actually installed, did the news leak out.

began, was actually installed, did the news leak out. With call letters of KFWB, indicative of "Kall—Films of Warner Brothers," wave length of 252 meters, and power 500 watts, the new station was to make its bow at 8 p. m. Pacific time on the night of March 4 with the greatest assemblage of film luminaries that has ever been brought before any microphone in the world. This is the first station in the country to be owned and operated by a motion picture producing corporation.

20,000 in Nature League SPRINGFIELD, Mass.—In less than three weeks WBZ, Westinghouse station here, has enrolled 20,000 members in a Radio nature league whose sole aim is to assist in the preservation of all desirable wild life in America. Thornton W. Bur-gess, sponsors the league.

Balkite Battery Charger, Charges 6 volt"A"storage batteries. Price \$19.50 West of Rockies \$20 In Canada \$27.50



Balkite "B"-replaces batteries and dry cells. Operates from light socket. 60 cycle 110-120 A. C. current. Also 50 cycle model. Price \$55 In Canada \$75

# A uniform, constant power supply for both "A" and "B" circuits

Here at last is a convenient and unfailing power supply for your radio set. Balkite Radio Power Units furnish constant uniform voltage to both circuits, and will give your radio set greater clarity, power and range. The Balkite Battery Charger keeps your "A" storage battery charged. Balkite "B" replaces "B" batteries entirely and supplies plate current from the light socket.

Based on the same principle, both the Balkite Battery Charger and Balkite "B" are entirely noiseless. They have no bulbs or moving parts, and nothing to break, adjust or get out of order. They have a very low current consumption, are simple and efficient in operation, and can be put in use at any time by merely connecting to a light socket. Both are guaranteed to give satisfaction.

Sold by leading radio dealers everywhere



BALKITE BATTERY CHARGER - BALKITE "B" PLATE CURRENT SUPPLY

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



AN EVENING AT HOME WITH THE LISTENER IN IN CENTRAL TIME (SEE INSTRUCTIONS FOR USE BELOW)								
	(52			IS FOR			-	
Station and City	Met.	Saturday	Sunday	Monday	Tuesday	Wednesday		Friday
AT9, Fort Bragg, N. C CFAC, Calgary, Alta CFCA, Toronto, Ont CFCN, Calgary, Alta	435 430 350	7:00- 8:55 Silent Sllent	7:00-8:00 Sllent 6:00-7:00	Silent 9:00- 1:00 Sllent	7:00-8:55 8:45-9:45 7:15-8:15	Silent 8:15- 9:45 7:15- 8:15	7:00-8:55 10:00-12:00 7:15-8:15	Silent 8:00-9:00 Silent
CFCN, Calgary, Alta CHYC, Montreal, Que CKAC, Montreal, Que	$     \begin{array}{r}       440 \\       341 \\       437     \end{array} $	11:00- 1:00 Silent	Silent 8:00-9:00 3:30-4:30	Silent	7:15-8:15 12:30-1:30 Sllent	Silent 7:30-8:30 Silent	Silent Silent 6:30- 9:30	Silent Silent Silent
CKCD, Vancouver, B. C CKY, Winnlpeg, Man	410	6:30-9:30 10:30-11:30 Silent	Silent 7:00- 8:00	10:30-11:30 Silent	7:30-0:15	10:30-11:30 Silent	10:30-11:30 7:30-9:15	10:30-11:30 7:30- 9:15
CNRO, Ottawa, Ont CYB, Mexico City, Mex	435 370	6:30-11:30 8:30- 9:00	Silent	Silent Silent	Silent 8:30-9:00 10:00-11:30	6:30-11:30 Silent	Silent 9:00-11:00 Silent	Silent Silent 10:00.11:30
CYL, Mexico City, Mex CYX, Mexico City, Mex KDKA, E. Pittsburgh, Pa KFAE, Puliman, Wash KFAE, Dalka Jack	330 309.1	Silent Silent 6:30-8:55	Sllent Silent 5:30-7:45	9:00-12:00	Sllent 6:30-11:00	Silent Silent 6:30- 8:55 9:30-10:30	Silent 6:30-11:00	8:00-10:00 6:30- 8:55 9:30-10:30
KFAE, Pullman, Wash KFAU, Bolse, Idaho KEDM Beaumont Texas.	$  \begin{array}{c} 333.1 \\ 275 \\ 315.6 \end{array}  $	Sllent Silent Silent	Silent Silent 9:00-10:00	9.00-10.001	Silent Silent 8:00-11:00	Silent	Silent Silent Silent	9:00-10:00
KFAU, Bolse, Idaho KFDM, Beaumont, Texas. KFDM, Beaumont, Texas. KFK, Los Angeles, Calif KFKB, Milford, Kan KFKU, Lawrence, Kan KFKX, Hastings, Nehr	467 273	8:45-2:00 6:00-11:00	9:00-10:00 8:45- 1:00 8:00-10:00	8:43-1:00 6:00-11:00 6:50-9:45	8:00-11:00 8:45- 1:00 6:00-11:00	8:45-2:00 6:00-11:00	8:45-1:00 6:00-11:00	8:45-2:00 6:00-11:00 Silent
KFKX, Hastings, Nehr	288.3 299.8	Silent Silent Silent	Silent Silent Silent	9:30-11:00 Silent	Silent Silent 9:00-10:00	Silent Silent	6:50-8:45 9:30-11:00 7:30-8:30	Silent
KFMQ, Fayetteville, Ark KFMX, Northfield, Minn. KFNF, Shenandoah, la	336.9 266	Silent 6:30-9:00 8:45-1:00	7:00- 8:00 6:30- 8:00	Silent	Silent	9:00-10:00 6:30- 9:00 8:45-12:00	Silent	Silent 6:30-9:00 8:45-1:00 10:00-11:00
KFDA, Seattle, Wash KFPT. Salt Lake Cy., Utah KFRU, Bristow, Okla	$   \begin{array}{r}     455 \\     261 \\     395   \end{array} $	9:00-11:00	Silent 10:00-11:00 5:00- 6:00	9:00-10:00 7:00-10:30	8:45-1:00 10:00-11:00 10:30-12:00	9:00-10:00 8:00-10:30 9:15-10:15	10:30-11:30	11:00- 1:00
KEUO, St. Louis, Mo KED, Oakland, Calif KEW, Portland, Ore KHJ, Los Angeles, Calif	361 492	Silent 10:00- 3:00 12:00- 2:00 10:00-12:00			Silent 10:00- 3:00 10:00- 2:00 10:00-12:00	9:15-10:15 Silent 10:00- 2:00	Silent 10:00-3:00 10:00-2:00	Silent Silent 10:00-1:30
KHJ, Los Angeles, Callf KJS, Los Angeles, Callf	$\frac{404.1}{2000}$				10:00-11:00	Silent	10:00-11:00	Silent
KJS. Los Angeles, Calif KLX. Oakland, Calif KNX, Hollywood, Calif CDA, Denver, Colo	336.9 322.4	Silent Silent 8:00-1:00 10:00-1:00 Silent	Silent 10:00-12:00 8:45-10:00	8:00-1:00 8:00-1:00 9:00-10:00	Silent 8:00-1:00 Silent	8:00-1:30 8:00-1:00 9:00-10:00	Silent 8:00- 1:00 Silent	8:00-12:30 8:00-1:00 9:00-10:00
<ul> <li>(DA, Denver, Colo</li></ul>	$348.6 \\ 429.5 \\ 340.7$	Silent 10:00- 2:00 Silent	8:45-10:00 Silent 10:30-12:00 8:00-9:00 Silent	8:00-1:00 9:00-10:00 8:30-9:30 9:00-1:00 7:20-8:00 7:00-11:55 8:30-11:00	Silent 9:00-1:00 7:20-8:00 7:00-11:00	8:30-9:30	Silent	8.30-9.301
KSD, St. Louis, Mo	545.1 374.8	8:30-11:00	Silent 8:30-11:30 9:00-11:30	7:00-11:55 8:30-11:00	7:00-11:00 8:30-10:00	7:20- 8:00 Silent 8:30-11:00	8:30-10:00	8:30-10:00
KYW, Chlcago, Ill	535.4	Silent 7:00-2:00 Silent	9:00-11:30 7:00- 8:00 Silent	Silent	Silent 7:00- 2:30 6:05- 7:20	Silent 7:00- 2:30 6:25- 7:40	Silent 7:00- 2:30 5:45- 7:40	Silent 7:00-2:30 7:05-7:40 Silent
VAA, Radlo, Va WX, Havana, Cuba WABN, La Crosse, Wls WABN, La Crosse, Wls WABN, Faichmond, N. Y WBAP, Fort Worth, Tex WBAP, Fort Worth, Tex WBAP, Matapolaett, Mass WBBG, Matapolaett, Mass WBBG, Staten Island, N. Y WBAP, Staten Island, N. Y	434.5 400 275	7:30-10:00 Silent	Silent	Silent 6:00- 8:00 8:00-10:00	Silent	6:00-8:00	Silent Silent	6:00-8:00
WAHG, Richmond, N. Y WBAP, Fort Worth, Tex.	$     \begin{array}{r}       244 \\       315.6 \\       475.9     \end{array} $	Silent 11:00-12:00 7:00- 8:00	Silent Silent 11:00-12:00	6:30-1:00 7:30-1:00	Silent Silent 7:30-10:45	Silent 6:30-11:00 7:30-10:45	9:00-11:00 Silent 7:30-10:45	Silent 6:30-10:15 7:30-10:45
WBAV, Columbus, O WBBG, Mattapoisett, Mass WBBR, Staten Island, N. Y.	$   \begin{array}{r}     293.9 \\     248 \\     272.3   \end{array} $	Silent Silent 7:00- 8:00	Silent Silent 8:10-9:20	6:30-1:00 7:30-1:00 7:00-9:00 7:00-9:00 7:00-8:00	Silent Silent Silent	Silent 7:00- 8:00 7:00- 8:00	Silent Silent 8:10-9:20	7:30-10:45 7:00-8:00 6:00-1:00 Silent
WBCN, Chicago, Ill WBCN, Springfield, Mass WCAE, Pittshurgh, Pa WCAL, Northfield, Minn WCAP, Washington, D. C WCAP, Washington, D. A WCAP, Washington, Pa	$\frac{266}{333.1}$	6:00 - 1:00 6:40 - 8:55 6:30 - 8:30	4:00-10:00 6:00- 9:00 5:30- 9:15	6:00-7:00 6:40-11:00 6:30-11:00	6:00-1:00 6:40-8:55 6:30-10:00	6:00-1:00 6:40-11:00 6:30-8:30	6:00- 1:00 6:40- 8:55 6:30- 9:00	6:00-1:00
WCAE, Pittshurgh, Pa WCAL, Northfield, Minn WCAP, Washington, D. C	461.3 336.9 468.5	6:30-8:30 12:00-1:00 Silent	8.30-10.00	Silent	6:30-10:00 Silent Silent	Silent	9:00-10:00 Silent	6:30-9:30 8:30-9:00 6:30-11:00 7:00-10:10
WCAU, Philadelphia, Pa WCBD, Zion, 111	278 344.6	Silent Silent	6:20-9:00 4:30-6:00 2:30-9:00	6:30- 9:00 Silent 8:00-10:30	6:30- 8:15 Silent	6:45- 9:00 7:05-10:10 Silent	6:30-9:35	
WCBD, Zion, 111 WCBD, Zion, 111 WCCD, MinnSt. P., Minn WCX, Detrolt, Mich	516.9 365.6	8:00-9:00 Silent 6:00-1:00	7:45-10:15 6:15- 7:15 4:00- 5:30	6:00-11:00 7:30- 9:00 6:00- 1:00	6:30- 8:00 7:30-10:00 6:00- 1:00	6:00-11:00 7:30- 8:30 6:00- 9:15	6:30-11:00 7:30- 8:30 6:00- 1:00	6:00- 9:00 7:30- 8:30 6:00- 1:00
W DWF, Kaitsas City, MC. W DWF, Providence, R. L WEAF, New York, N. Y WEAR, Cleveland, O WEBH, Chicago; Ill. WEBJ, New York, N. Y WEBU, Beloit, Wiss WEEI, Boston, Mass WEGL, Boston, Mass WEAC, Bertien Spgs., MCh.	440.9	Silent 5:00-11:00	4:00-5:45 6:20-9:15	Silent 5:00-10:00	7:00-8:30 5:00-10:00	Silent 5:00-11:00 7:00- 8:00 6:00- 7:00	Silent 5:00-11:00	7:00-8:00 5:00-11:00
WEAR, Cleveland, O WEBH, Chicago; 111	293.9 389.4 370.2	Silent Silent 7:00-12:00	Silent Silent 7:00- 9:00	Silent 6:00-7:00 Silent	Silent 6:30-10:00 7:00-12:00	7:00-12:00	6:00-8:00 6:00-10:00 7:00-12:00	Silent 6:00-7:00 '7:00-12:00
WEBJ, New York, N. Y WEBW, Beloit, Wis WEE1, Boston, Maas	$     \begin{array}{r}       273 \\       268 \\       475.9     \end{array} $	Silent Silent Silent	Silent 4:30- 5:30 6:20-9:15	Silent Silent 6:15-9:00	6:00- 8:00 8:00- 9:00 6:15-10:00	Silent	7:30- 8:30	6:15-8:30 Silent 6:15-9:00
WEMC, Berrien Spgs., Mch. WFAA, Dallas, Tex	$   \begin{array}{r}     285.5 \\     475.9   \end{array} $	Silent 8:30-12:00	8:15- 9:15	8:15- 9:15	Silent	8:15- 9:15 Silent	Silent	6:15- 9:00 9:00-10:00 6:30- 9:30
WFBH, New York, N. Y WFI, Philadelphia, Pa WGAQ, Shreveport, La WGBS, New York, N. Y	272.6 394.5 263	6:00-11:30 5:30-8:00 9:00-12:00	6:30-12:30 6:30-7:30 Silent	10:30-12:15 5:30-7:00 9:00-12:00	10:30-12:30 5:30-10:00 Silent	6:30-12:30 5:30-7:00 8:00-9:00	6:00-12:15 5:30- 8:30 Silent	6:30-12:15 5:30- 7:00 Silent
WGBS, New York, N. Y WGN, Chicago, Ill.	315.6 370.2 319	6:30-11:00 6:00-11:00	2.30-10.00	5:30-6:30 Silent 5:30-11:00 9:00-10:00	0:00-11:00			5:30-6:30 6:00-11:00 5:30-10:00
WGBS, New York, N. 1 WGN, Chicago, Ill WGR, Buffalo, N. Y. WGST, Atlanta, Ga. WGY, Schenectady, N. Y. WHA, Madison, Wis WHAS, Louisville, Ky	270 379.5	5:00-6:30 Silent 8:30-10:30	Silent 6:30-10:00	9:00-10:00 6:30-8:00 7:45-8:45	5:00-10:30 Silent 6:30-11:30	5:30-9:15 Silent 6:00-7:00	5:00-10:00 7:00- 8:00 6:30-11:30	Silent 6:30-10:30
WHA, Madison, Wis WHAS, Louisville, Ky	399.8 379.5	Silent 7:30- 9:00	Silent 4:00- 5:00	7:45- 8:45 Silent 8:00-10:00	6:30-11:30 8:00-9:00 7:30-9:00	6:00-7:00 7:45-8:45 7:30-9:00 Silent		7:45- 8:45 7:30- 9:00
WHB, Kansas City, Mo WHK, Cleveland, Ohio	365.6	Silent Silent 5:00-12:30	Silent 8:00-1:00 6:30-10:00	7:00-8:00	Silent 8:00-9:00 5:30-6:30	7:00-8:00	Silent 8:00-9:00 5:00-10:30	Silent 7:00- 8:00 5:00- 9:00
WHD, Des Moines, Ia WIP, Philadelphia, Pa	501.2 526 508.2	6:30-11:00 Silent 6:00-11:05	8:30-11:00 4:00-9:00 9:30-12:00	6:30-11:00 7:30-12:00 Silent	8:30-11:00 Silent 7:00-11:00	6:30-11:00 6:30-11:00 Silent	8:30-11:00 11:00-12:00 7:00-11:00	8:30-11:00 7:30- 9:00 Silent
WHAS, Louisville, Ky WHAZ, Troy, N. Y WHK, Cleveland, Ohio WHN, New York, N. Y WHD, Des Moines, Ia WHD, Des Moines, Ia WHO, Porvidence, R. I. WJAS, Pittshurgh, Pa WJD, Mooseheart, Ill WJV, New York, N. Y WJZ, New York, N. Y	305.9 275.3 302.8	6:00-11:05 6:10-7:10 Silent 7:15-12:00	6:20- 9:15 Silent Silent	7:00-8:00 7:30-10:00 7:15-8:15	7:00-8:00	7:00-12:00 7:30-10:00 7:15- 8:15	Silent	6:30-10:00
WJY, New York, N. Y	495.2	Silent 6:00-10:30	7:15-7:45 6:00-10:30	Silent 6:00-10:30	7:15-8:15 6:45-8:00 6:00-10:00 7:00-8:30	Silent 6:00-10:30	6:30-9:30	6:30-10:30
WIZ, New York, N. Y WKAQ, San Juan, P. R WKAR, Lansing Mich WLBL, Stevens Point, Wis. WLIT, Philadelphia, Pa	$   \begin{array}{r}     340.7 \\     285.5 \\     278   \end{array} $	Silent 11:30-1:00 11:59-12:59	Gilont	Silent 6:00-7:00 Silent	Silent	6:00- 8:00 7:00- 8:15 Silent	6:30- 8:00 Silent	Silent 6:007:00 Silent
WLIT, Philadelphia, Pa WLS, Chicago, Ill	394.5 344.6	11:30- 1:00 11:59-12:59 6:30- 7:30 8:00-12:00	Silent 6:30- 8:00 7:30- 9:15	6:30-10:02	8:00-9:00 6:30-7:50 6:30-1:00	6:30-10:03 6:30-12:00 7:00-10:00	6:30-7:30 6:30-8:00	6:30-10:03 6:30-11:00 Silent
WLS, Chicago, Ill. WLW, Cincinnati, O WMAK, Lockport, N. Y WMAQ, Chicago, Ill. WMBF, Mlami Beach, Fla.	265.5 447.5	Silent 6:00-10:00	Silent	Silent	7:00-9:00 6:00-10:00	Silent 6:00-10:00	6:30-7:30 6:30-8:00 10:00-12:00 11:00-12:00 6:00-10:00	Silent 6:00-10:00
WMC, Memphis, Tenn	384.4	$\frac{7:00-2:00}{8:30-9:30}$	7:00-2:00 Silent 6:00-7:30	8:30-9:30	8:30-12:00	Silent	7:00-2:00 8:30-9:30	8:30-12:00
WMBF, Miami Beach, Fie, WMC, Memphis, Tenn WMAC, Boston, Mass WNYC, New York, N.Y WDAI, San Antonio, Texas WOAW, Omaba, Neb WOAX, Trenton, N. J WDC, Davenport, Ia	280.2	10:00-12:00 9:00-10:00 7:30-10:30	6:00-7:30 7:30-9:30 8:00-9:00 7:30-10:30	8:00-10:00 6:00-10:00 7:30-10:30	8:00-10:00 7:30-10:30	8:00-10:00 6:00-10:00 7:30-10:30	8:00-10:00	6:00-10:00 7:30-10:30
WOAW, Omaha, Neb	$     \begin{array}{r}       394.5 \\       526 \\       240     \end{array} $	Silent 6:00-12:15 Silent	6:00-10:00 Silent	Silent 6:00-11:00	8:30-10:30		6:00-11:00 Silent	8:00-10:00
			8:00-11:30 Silent Silent	Silent 10:00- 1:00 6:30-10:00	9:00-10:00 Silent Silent	9:00-10:00 Silent 6:30-10:00	7:00-12:00 8:15-9:15	8:00-9:00 Silent 6:30-10:00
WOR, Newark, N. J WDRD, Batavia, Ill. WOS, Jefferson City, Mo WPG, Atlantic City, N.J WRG, Valparalso, Ind WRC, Valparalso, Ind WRC, Valparalso, Ind WRC, Vashington, D. C. WREO, Lansing, Mich WRW, Tarrytown, N. Y WSAL Clement O.	405.2	6:15-10:00 Silent	Silent 7:00- 8:00 7:30- 8:30	5-15-10:00	5:15-10:00 Silent	5:15-10:00 Silent	5:15- 6:30 8:00- 9:00	5:15- 6:30 Silent
WOS, Jefferson City, Mo WPG, Atlantic City, N. J WQJ, Chicago, Ill.	440.9	Silent 8:00-11:00 7:00- 2:00	7:30-8:30 9:00-10:45 8:00-10:00	8.00-10.00	Silent 8:00-11:00 7:00- 2:00	8:00-10:00	1 Silent	8:00-10:00
WRBC, Valparaiso, Ind WRC, Washington, D. C	278	Silent 6:00-10:30	7:30- 8:30 Sllent	7:30- 8:30 Silent	Silent 6:00-10:30	Silent	6:00-10:30	Silent
WRW, Tarrytown, N. Y WSAC, Clemson Coll., S. C	285.5 273 336.9	Silent 8:00-10:30 Silent	Silent	Silent	7:15- 8:45 8:00-10:30 Silent	Silent 8:00-10:30 7:00- 8:00	7:15-8:45 8:00-10:30 Silent	Silent 8:00-10:30 Silent
			3:00- 4:00 7:30- 9:15	10:00-12:00 8:00-12:00	7:00-10:00 8:00-12:00	Silent 10:45-12:00	10:00-12:00 8:00-12:00	Silent 8:00-12:00
WSB, Atlanta, Ga WSUI, Iowa City, Ia WTAM, Cleveland, O WTAS, Elgin, Ill WTAY, Oak Park, Ill WTIC, Hartford, Conn WWJ, Detroit, Mich	+ 383.6 - 389.4 - 302.8	7:30-9:00 8:00-11:00 6:00-12:30	Silent 6:00-12:30	Silent 7:00-9:00 6:00-12:30	8:00-9:00 Silent 6:00-12:30	7:00-9:00	Silent Silent 6:00-1:30 6:15-7:30	Silent Silent 6:00-12:30
WTAY, Oak Park, Iil WTIC, Hartford, Conn WWJ, Detroit, Mich	250 348.6 352.7	6:15-10:00 Silent Silent	Silent Silent 6:20-9:15	Silent	6:15-7:30 7:00-8:00	6:30-1:00	6:15-7:30 Silent	6:30-8:00 7:00-8:00 7:00-8:00

Instructions for Use—All the hours above are given in Central Standard Time. If your city uses Eastern Time, add one hour to each of the periods stated; if your city uses Mountain Time, subtract one hour; if your city uses Pacific Time, subtract two hours. This table includes only the evening and, on Sunday, the later afternoon programs.

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always gets WSAI. 47-47-47 always gets WOS. For any particular station all dial settings are the same on every Day-Fan--anywhere-with any antenna.

All uncertainty is eliminated. You know even before you get your Day-Fan, just where to set the dials to pick up any station you desire. Could any set be more simple?

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### 8

### March 7, 1925

# BOYS GIVE MUSICAL PROGRAM AT WIP

### Saturday, March 7

# aturday, silent night for: CFAC, CHNC, CKY, KFDM KFKU, KFKX, KFMQ, KLX, KSAC, WBAP, WBAV WCAU, WCBD, WCX, WDWF, WEAO, WEAT WEBW, WEEI, WEMC, WGST, WHA, WHAZ WHB, WHO, WJY, WKAQ, WMAQ, WOAI, WOI WOO, WOS, WRBC,

### Eastern Time Stations

The following schedules of programs are given in Eastern time. To change to Central time, subtract one hour; Moun-tain time, subtract two hours; Pacific time, subtract three hours.

time, subtract three hours.
time, subtract three hours.
CKAC, Montreal, Can. (425), 7 p. m., kiddles' stories; 7:30. Windsor hotel concert orchestra; 8:30, concert, 7:30. Windsor hotel concert orchestra; 8:30, concert, 8:000 (and the strain strain strain strain strain strain sor hotel, Hrold Leonard's Hed Jackets.
KDMA, E. Pittsburgh, Pa. (305-1), 6 p. m., dinner concert, Westinghouse band; 7:30, children's period; 7:15, last unlute helps to Bible school teacher, Car-man Cover Johnson; 8:30, concert.
WHER, New York, N. Y. (272-6), 8 p. m., Theodore Armstrong, tollnist; 8:10, vocal selections; 8:20, Bible questions and answers; 8:45 Theodore Armstrong.
WBZ, Springfield, Mass. (333.3), 7:05 p. m., bedtime story for the kiddles; 7:15, sketches, United States maral history, E. S. R. Brandt; 7:30, Hotel Kinball trlo; 8, William A. Murphy, baritone; 8:15, John Cassato, violinist; 8:30, Imperial male quartet; 9:45, Jonne Cassato, violinist; 9, Jamerial male quartet; 9:45, Janta O'Conneli, planist; 9:30, Hal Wheeler; 9:45, Imperial male quartet; 10, Hotel Brunswick orchestra.
WCAE, Pittsburgh, Pa. (461.3), 4:30 p. m., Ed. Lally's

9:45. Imperial male quarter, 10, 1000 Shaharan, orchestra,
VCAE, Pittsburgh, Pa. (461.3), 4:30 p. m., Ed. Lally's Rendezwous Cabaret orchestra; 6:30, dinner concert, William Penn hotel; 7:30, Uncle Kaybee; 7:45, special feature; 8:30, concert, artist-students, studios of Charles ie Sueur.
VCA, Detroit, Mich. (516.9), 4:15 p. m., musical programs, New York, N. Y. (492), 4-4:30 p. m., Middiebury college glee club; 6-7, dinner music, Waldorf-

Wayne W. Myers (left) gives the annusing dialect impersonations on the late Saturday night programs of WEBH. August Werner (above), baritone, rep-resents the Rivoli and Rialto theaters Mondays at WNYC, New York. Mary Holliday is the director of the Holliday trio of Ft. Hayes hotel which will be heard again Wednesday, March 11, at WEAO, Columbus.

Astoria hotel; 7-7:15, Thuel Burnham, planist; 7:15-7:30, Agnes Brennan, planist; 7:30-7:50, Fred J. Turner, stories for boys; 7:50-8:15, Joseph Wilber-sheld, violinist; 8:15-11:30, special musical program; 11:30-12:30 a. m., Vincent Lopez and his Hotel Penn-velganle acheetra

shed, '10,3018,', o.10-11.30, special muscled profilant, 11:30-1230 a. m., Vincent Lopez, and his Hotel Penn-sylvania orchestra.
WFI, Philadeiphia, Pa. (394.5), 3 p. m., 'The Rob-bery,' play by Glen Nor high school atudents; 4, Bob Brown's Northeast high school dance orchestra; 6:30, Meyer Davis' Bellevue Strationd concert orches-tra; 7, Sumny Jin; 8, Bankery' association banquet.
WGBS, New York, N. Y. (316), 3-3:10 p. m., Interview with Mrs. William Latmbeer, assistant cashier, Na-tional City bank, by Perese Kose Nagel; 3:10-3:22, Ho-ward Kirsch, violatis; 3:20-3:30, Interview with 'Lady-boom,' 3:30-3:40, Howard Kirsch, violatist; 3:40-5:50, 'Aprendation of Catecutor,' Violatist; 3:40-9:45, Same ocul: times, Aided Cate; 'Wood de Faio-r; 3:50, 'Amord Kirsch, 6:30, Unite Grebes; 6:30-7:30, Same ocul: times, Aided Cates; 'Wood de Scho-9:45, Same ocul: times, Aided Cates; 'Wood de Faio-9:45, Same ocul: times, Aided Cates; 'Wood de Kon-80, Nethalo, N. Y. (319), 6-7:30 p. m., Hallpryd string quartet dimmer music.
WHN, New York, N. Y. (350-5), 9:30 p. m., dance music, Phil Bromano's orchestra.
WHN, New York, N. Y. (350-32), 3:30 a. m., Roseland dance orchestra.

Ollott vill; 1:30-1:33, neutre 2:30 a. m., Roseland dance orchestra; 11:30-12:30 a. m., Roseland dance orchestra.
WIP, Philadelphia, Pa. (508.2), 3 p. m., Gorald O'Dell and his entertainers; 6:05, Charles Masters' Hotel St. James dance orchestra; 7, Unclo Wip's bedtime storles; Conshohocken M. E. junior choir, direction Helen E. Koch; 8, Lenten moditations, E. A. E. Palmquist; 8:15, Mayor W. Freeland Kendrick presents "The Boy in Music;" the Civic Junior symptomy orchestra; Boy Connell harmonica band; Civic Junior band, direction hibert N. Hoxie; 10:05, Howard Lanle's dance orchestra; 11:05, Karl Bonawitz, organist.
WJZ, New York, N. Y. (454.3), 4:30-5:30 p. m., Shorry's Tea orchestra; 7-8, Freddie Rich and Hotei Astor orchestra; 8:15, "Art for Laymen," Walter M. Grant; 8:15-8:30, Elizabeth Barkley, contralio; 8:30-9, U. S. Matine band; 9:30-10, and Elizabeth Barkley, Panist; 10:30-11:30, Joseph Knecht's Waldorf-Astoria orchestra; 10-15, Dorothy Miller Duckwitz, planist; 10:30-11:30, Joseph Knecht's Waldorf-Astoria orchestra

tra. LIT, Philadelphia, Pa. (394.5), 2:30 p. m., Mrs. Louis Caivert Morre, soprano; Margaret P. Stelmruck, contraito; Russell Moore, hass; Herbert Stahl, tenor; Marcella North, planist; Caivin Trivito, planist; 7:30, Arcadia cafe concert orchestra. NYC, New York, N. Y. (526), 6:30-7:30 p. m., Sam Wording and his Club Alabam orchestra; 7:35-8, dane program, Chateau four; 8:15-8:25, taik, 8:30-8:45, song recitai; 9-9:30, Police quartet; 10:10-10:20, travel alk.

WOO, Philadelphia, Pa. (508.2), 11 a. m., organ reeital, Mary E. Vogt; 12:02 p. m., Wanamaker crystal tea room orchestra, Robert E. Golden, director; 4:45, organ reeltal, Mary E. Vogt; band concert, John Wanamaker Commercial institute band.
WOR, Newark, N. J. (405), 2:30-2:45 p. m., John R. Williams, tenor; 2:45-3, Mildred Fraze, soprano; 3:15-3:30, Mildred Fraze; 3:30-4, John R. Williams; 6:15-7:30, Bill Stanley's Manor Farm orchestra.
WRC, Washington, D. C. (468.5), 6:45 p. m., children's hour, Madge Tucker; 7, dinner muske, Irving Boern-stein's Hotel Washington orchestra; 8, Bible talk; 8:30, United States Marlne band, Taylor Branson, leader; 9:30, to be announced; 10:30, Joseph Knecht's Waldorf-Astoria orchestra; 11:5, Otto F. Beek, organ.
WWJ, Detroit, Mich. (352.7), 3 p. m., Detroit News orchestra; 8:30. Detroit Athletie club.

### **Central Time Stations**

The following schedules of programs are given in Central time. To change to Eastern time, add one hour; Mountain time, subtract one hour; Pacific time, sub-tract two hours.

time, subtract one hour; Pacific time, sub-tract two hours.
KFNF, Shenandoah, Ia. (266), 6:30 p. m., concert from Rockport, H. W. Leech, director.
KFRU, Bristow, Okla. (395), 7:30-3 p. m., international Sunday school lesson; 9-12, special Saturday program.
KSD, St. Louis, Mo. (545.1), 8 p. m., concert, St. Louis Symphony orchestra, Rudolpb Ganz, conductor.
KTHS, Hot Springs National Park, Ark. (374.8), 8:30-10 p. m., concert orchestra, Charles Elliott; 10-11, dance frolic, Meyer Davis New Arlington hotel or-chestra, Jacques Renard, director.
KYW, Chicago, III. (535.4), 6:35-7 p. m., children's bedime story, Uncio Bob; 7-7:30, dinner concert, Congress hotel; 8:58, Agnes Kieln, soprano; Ste-phenson and Heather; Garfield Park Baptist church quartet; Mrs. Daisy Gissing, soprano; Mrs. Beulah Sandgren, contraito; Thomas W. Benson, tenor; ILesile W. Dollahan, baritone; Dorchay Marquart, director; 0:15. Youth's Companion.
WBCM, Cnieago, III. (266), 6-6:45 p. m., clinner con-ert, Harold's orchestra; 7-8. George R. Cleveland, "Hoby Club Man"; Mrs. Goldle Cornell, soprano; Jack Heath and Eddle Downs, singers; 8-12, popular program, Marle Writch, soprano; Harke Parker, tenor; Midway Gardens orchestra; George R. Cleveland, author; Les Cannoro, tenor; Elizabeth Fammett Malone, soprano; Triangle entortainers; George F. Cleveland, author; Horenco Tonney, blues shinger; 12-1; carly morning concert, Clifton Newton Moore, lar-morica king; Big Boy Yaglo, planist; G. Howred

wen, planist; Jimmy White, tenor; Wally Johnson WCAL, Northfield, Minn. (336.9), 7:30 p. m., St. Olaf vs. Carleton basketball game: 12, midnight musicale.

vs. Carleton basketball game: 12, mldnight musicale, WCCO, Minneapolis-St. Paul, Minn. (416,4), 2:30 p. m., matinee musicai: 8, "Fireside Philosophies," Rev. Roy L. Smith; 8:30, nuusic; 10, Minneapolis Athletic

# club orchestra, C. C. Holcomb, one stringed instrument soloist; Lowry maie quartet. WDAF, Kansas Gity, Mo. (355:6), 3:30-4:30 p. m., Star's Radio orchestra; 6-7, plano tunng-in number; address, Roger W. Babson; the Tell-Me-a-Story Lady; Trianon ensemble; 11:45-1, Nighthawk trolic, Merry Old Chief, Plantation players, Eddie Kuhn's Kansas City Athletic club orchestra. WEBH, Chicago, IH. (370:2), 7-8 p. m., Orlolo orchestra; Edeanor Glimour, soprano; Pat Barnes; Langdon brokhers; Elandor Glimour, soprano; Pat Barnes; Langdon brokhers; Marie Kelly, reader; 11-12, Orlole orchestra; Eleanor Glimour, soprano; Pat Barnes; Langdon brokhers; Marie Kelly, reader; 11-12, Orlole orchestra; Eleanor Glimour, soprano; Pat Barnes; Sout program, H. W. Wester, director; 11-12, band recital, De Molay boys. WGA, Chicago, III, (370:2), 6 p. m., organ recital, Lyon semble, Blackstone string quintei; 8-9, classical cancer, etc. Fad. G. Searry; 10-11. Don Bestor Drake concert, auspice, and the full sector program, etc. (Market, South, Stark, Star

trai Christian church; 3:30, "Kobin Hood," WOAI entertainers.
WOAW, Omaha, Nebr. (526), 6 p. m., dramatic haur, Davis Studio of expression; 6:30, music; 6:45, dinner program, Brandcis store restaurants; 7:30, eedy ad-dress, atuspices Omaha Chamber of commerce; 9, pd-gram, ausnices Omaha Chamber of commerce; 9, pd-gram, ausnices Omaha Chamber of commerce; 11:30, Arthur Hays, organist.
WOC, Davenport, ia. (483.6), 5:45 p. m., chimes; 6:30, sandman's visit, Vai MicLauchlin; 6:50, Sunday school lesson, Rev. M. A. Getzendaner; 9, Jeannette Brewbaker, soprano; Emil Hass, reader; Robert Mc Gregor, baritone; 11, Lonis Connor and his LeClaire hotel orchestra; Peter MacArthur, barlione.
WQI, Chicago, III. (447.5), 7:8 p. m., chinner concert, Raiph Willams and his Rainbo Garden orchestra; Laverne Hansen, pianlst; Esther Kellogs, vioinlist; Agatha Karlen, reader; 10-3, Ralph Williams and his Rainbo Skylarks; Melodians, Laurie, Eddle, Bennle; Jerry Sullivan; Harry Gelso; Alfred Tweed, harmonica and guitar soloist; Clarence Tweders, tenor; George A, Little, Lai, y Shay, song writers; Yukona Cameron, soprano; lick, Whalen and Gardner, harmony singers.
WSB, Atlanta, Ga. (428.3), 5-6 p. m., T. P. Appel,

Softmerin, Softman, Hand, Hander, Hannach, Singers,
 WSB, Atlanta, Ga. (428.3), 5-6 p. m., T. P. Appel, bartione; Pauline Landen, planist; beetime story, Karlon H. Hull; 8-9, excerpts, "The Crimson, Dr. Marlon H. Hull; 8-9, excerpts, "The Crimson, Dr. Marlon H. Hull; 8-9, excerpts, "The Crimson," Dr. Marlon H. Hull; 8-9, excerpts, "The Crimson, Dr. Marlon, H. Mull; 8-9, excerpts, "The Crimson," Dr. Marlon, H. Hull; 8-9, excerpts, "The Crimson, Dr. Marlon, H. Hull; 8-9, excerpts, "The Crimson, Dr. Marlon, H. Hull; 8-9, excerpts, "The Crimson," Dr. Marlon, H. Hull; 8-9, excerpts, "The Crimson, Dr. Marlon, H. Hull; 8-9, excerpts, The Crimson, Dr. Marlon, H. Hull; 8-9, excerpts, The Crimson, Dr. Marlon, Barlon, Barlon, Dr. Marlon, Dr

(Continued on page 10)

### Headliners of the Week

Treaditments O FINTEREST to everybody, par-ticularly boys, will be the pro-gram Saturday from WiP given entirely by boys. Mayor W. Freeland Kendrick will present a demonstra-tion of "The Boy in Music." Several will show what the Philadelphia boy thow what the Philadelphia boy thow what the Philadelphia boy thow about A sharps and B flats. KHJ's "A Night of Comic Opera," will be popular Sunday. The Martin Music company with a reputation for good music is sponsoring the program uncanny knack for arranging enter-tionments, is the director. Monday, Knute Rockne, the famous football coach of Notre Dame univer-sity, known to all sport fans for his wonderful team, will talk at WCCO, will be company in the this name to-to all debut under this name to-to all the CHNC trio which makes is Radio debut under this name to-to. The South Park Junior college will

its Radio debut under this name to-night. The South Park Junior college will present the Tuesday program at KFDM, Beaumont. The school band will play for the first time before a microphone. This is also Brunswick

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### RADIO DIGEST-Illustrated

# ROCKNE TO TALK MONDAY AT WCCO

### Saturday, March 7

### (Continued from page 9)

Mountain Time Station The following schedule of program is given in Mountain time. To change to Eastern time, add two hours; Central time, add one hour; Pacific time, subtract one hour. KOA. Dever Cale (2024) - 0.12

one hour. KOA. Denver, Colo. (322.4), 9-12 midnight, danco music, Joe Mann and his Rainbow-Lane orchestra. Pacific Time Stations The following schedules of programs are given in Pacific time. To change to Eastern time, add three hours; Central time, add two hours; Mountain time, add one hour Ea. time, au ne ho**ur**.

one hour.
KFI, Los Angeles, Calif. (467). 5:30-6 p. m., Examiner's musical half hour: 6:45-7, "Inspirational Psychology," Dr. Clyde Sheldon Shepard; 7-7:45, Lake Arrowhead dance orchestra. Mel Lemon, director; 7:45-8, "The Bookshelf," Miss Naney; 8-9, Examiner community program; 9-10, classic instrumental trio; 10-11, Packard Radio club; Varsity trio, Merrill La Fountaine, Howard Coy, Harold Allen, Ruth and Lillah Carlson, Ray Weyst and Barney Weber.
KFOA, Seattle, Wash. (455), 4-5:15 p. m., Olymple hotei orchestra; 6:43-8:15. Rhodes Dept. Store program; 8:30-10, Seattle Times dance music; 10:05-11, Eddio Harkness and his orchestra.
KFSG, Los Angeles, Calif. (278), 10:30-11:30 a. m., program, G. N. Nichols, Roy Reid Brignall and others; 7:30-9:30, auditorium service, special music and sermon on Divine Healing, Aimee Semple Mepherson, pastor.



Adelaide De Loca, concert contralto, is a regular fea-ture of the WAHG, Rich-mond Hill, programs. Miss DeLoca is a well-known concert artist who has a rich con-tralto voice that broad-casts per-fectly.

KGO, Oakland, Calif. (361), 4-5:30 p. m., concert orchestra, Hotel St. Francis; 8, program, Magnavox compony, Melody Maids; Elsa Pehlow Trautner, soprano; Carey male quartet; Antone Tomsie, concer-tuna soloist; Era Gruninger Atkinson, contralio; Ray Nealan, tenor; "The Sunny Side of the Street," Thomas A. Boyer; 10-1, Henry Haistead's orchestra. KGW, Portland, Ore. (492), 10 p. m., Colburn's Mel-ody men.

v, Portland, Ore. (492), 10 p. m., Colburn's Mer-y men.
, Los Angeles, Calif. (404.1), 6-6:30 p. m., Art feknan's Biltmore hotel concert orchestra, Edward tzpatrick, director: 6:30-7:30, Prof. Walter Syl-ster Hertzog, stories of American history; David urand, screen juvenile; Katherine McGuire, Jane iele Riley, readers; Davis Jean Enger; Uncle John dtime story; 8-10, program, Los Angeles Flue club; -11, Earl Burnett's Biltmore hotel dance orchestra; -2 a. m., The Lost Angels of KHJ, Majestic Six chestra.

11-2 a m., The Lost Angels of KHJ, Majestic Six orchestra.
NX, Holywood, Calif. (337.6), 5:45-6:15 p. m., Wur-KNX, Holywood, Calif. (337.6), 5:45-6:15 p. m., Wur-T:30, dinner hour music; 8-10, KNX feature program; 10-11, Abe Lyman's Coccanut Grove dance orchestra; 11-11 a. m., Holywood night, Holywood celebrilles; 1-2, Nighthawk club.
KPO, San Francisco, Calif. (429.5), 2:30-3:30 p. m., Mount Tamalpals Military academy band; 3:30-5:30, Gene James' Rose Room Bool orchestra.

### Sunday, March 8

unday, silent night for: CFAC, CHNC, CKAC, KFKU, KFKX, KFMQ, KLX, KOA, KSAC, WAHG, WBAY, WCAE, WCX, WOAF, WEAO, WEBW, WFI, WGBS, WGST, WHA, WHAS, WHAZ, WJY, WKAQ, WLBL, WLIT, WMAQ, WMC, WOI, WRC, WTAM, WTAY, WWJ.

### Eastern Time Stations

CFCA, Toronto, Can. (356), 7 p. m., service, Walmer Road Baptist church. CKAC, Montreal, Can. (425), 4:30 p. m., hand, Hull city: talk, Mayor Coursingan Talk, Mayor Consineau. East Pittsburgh, Pa. (309.1), 11 a. m., church y 2:30 p. m., Westlnghouse Symphony orches-t, Dr. Charles Heinroth, organist; 4:45, vespati-s, Shadyalde Presbyterlan church; 6:30, dinner t, Pittsburgh Athletie association; 7:30, services, Breeze Presbyterian church, Rev. Percival H.

Point Breeze Pre-byterian church, Rev. Pereival H. Barker, pastor.
 WBBR, New York, N. Y. (272.6), 10 a. m., Staten Jshand School er meise. Chiford Chapin, Edward Petri, Lodah Koral; 10.15. (Hiford Chapin, Edward Petri, Lodah Koral; 10.15. (Hiford Chapin, Schward Petri, 10.15.)
 Bibb leedure; 11, Staten Ishand School of music; 11:15. Lodah Koral; 10.10.
 Bibb leedure; 11, Staten Ishand School of music; 11:15. Lodah Koral; 10.10.
 Wohen Koral; 10.10.
 Wohen Koral; 10.10. violin duets. George Twarrowschk, Carl Park; 10:20. Watchtower orchestra; 10:30.
 Wohen Pittsburgh, Pa. (461.3), 10.455 a. m. sertices, Rade Church eventerst. William Penn hotel.
 Wohen, William Penn hotel.
 Wohen, William Penn hotel.
 Wohen Villiam Penn hotel.
 Wohen Villiam Penn hotel.
 Stokewell; 6. dinner concert, Meyer Darle! Hotel Pennaytvanla concert, Meyer Darle! Hotel Pennaytvanla concert, Meyer Barlet.
 Bible taik, Rev. Dr. John B. Stockwell; 6. dinner concert, Meyer Darle! Hotel Pennaytvanla concert orchestra.

WCX, Oetroit, Mich. (516.9), 10:30 a. m., church serv-

WOWF, Providence, R. I. (440.9), 10 a. u., chimes 5-6:15 p. m., Venetlan sernaders; Philharmonic pipe WEAF, New York, N. Y. (492), 8:15-9:20 p. m., Roxy and hls gang, Capitoi theater; 9:20-10:15, organ re-

cital. WEAR, Cleveland, Ohio (389.4), 1-2 p. m., symphony encert, Allem thester orchestra; 3:30-5, twillight con-cert, ivan Francisci and his Hote Cleveland orchestra. WEEL, Boston, Mass. (475.9), 3:45-5:30 p. m., men's conference, Beelford Branch, A. M. C. A.; 7:20-9:15, Hory and Jus Kang, Capitol theater; 9:15-10:15, organ

Moria deliphia, Pa. (394.5), 10:20 a. m., srevices.
 WFI, Philadeliphia, Pa. (394.5), 10:20 a. m., srevices.
 WFI, Philadeliphia, Pa. (394.5), 10:20 a. m., srevices.
 Weret Methodist Episcopal church; 4:30, cnapel services. Central Y. M. C. A. William and the services. Central Y. M. C. A. Weret Methodist Episcopal church; 4:30, cnapel services. Central Y. M. C. A. Bananstor, director.
 WCBS, New York, N. Y. (316), 3:30-4:30 p. m., pro-rram, PiccadIlly theater.
 WC Y, Schenectady, N. Y. (379.5), 10:36 a. m., service.

Flrst Reformed church, Rer. Clayion J. Potter; 3:35
p. m., WGY symphony orchestra; 5, organ recital, Dr. Frank Slil Rogers; T. Roy Keefer, violinist; 7:30.
Flrst Church of Christ Scientist; 8:45, symphony concert, Wakforf-Astoria orchestra; 5:30-6, New York, N. Y. (360), 3-4 p. m., Program, Queens County Christian Endeavor; 4:30-5, Colleeitate dance club; 5-5:30, Roseland dance orchestra; 5:30-6, Olcot Vall and his string trio; 10-10:45, Gem Razor entertainers; 10:45-11:15, Janssen's Hofbrau Commanders orchestra; 11:15-11:45, Vanlty club revue; 11:45-12:15 a. m., Conle's Inn revue; 12:15-12:45, Harry Richman and his entertainers.
WIP, Philadelphia, Pa. (508:2), 3:15 p. m., Chrie funitor, Y. M. C. A.; "Interracial Co-operation." heture by George E. Haynes; 7:15, services, Holy Trinity church; 8:30, Germantown theater orchestra; Karl Bonawitz, organist.
WIZ, New York, N. Y. (454.3), 11-12 m., church services; 2:50-3:30 p. m., Ikadio Biblie class. Federation of churches; 4-5, vencer services, St. Georges church; 7-8, Nathan Abas' Hotel Pennsylvania orchestra; 8:31:5, Julita Comin, soprano; 8:15-8:30, Anna Phito, harpist.

WLIT, Philadelphia, Pa, (394.5), 2 p. m., Lenten serv-ices; 2:30, Arcadia cate concert orchestra, Feri Sarkozi,

fees; 2:30, Areadia cate content orthogota, in a m., service, director. WMAK, Lockport, N. Y. (265.5), 10 a. m., service, First M. E. church service. Rev. Paul Burt, minister. WNYC, New York, N. Y. (526), 9-11 p. m., Brooklyn Mark Strand theater program, Edward L. Hyman, director.

director, and the area of the

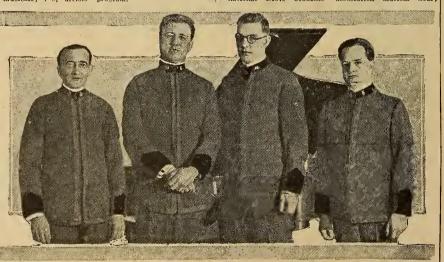
orchestra; 7:30, services, St. Fault's Episophic Central Time Stations CKY, Winnipeg, Can. (450), 7 p. m., service, St. Stephen's church. KFDM, Beaumont, Tex. (315.6), 9 p. m., sarced pro-gram. Young People's Service League, St. Mark's Episcopal church. KFNF, Shenandoah, Ia. (266), 10:45 a. m., church service, M. E. church; 3 p. m., services, Men's Gospel team; 6:30, services, Golden Rule Circle; 8, church service, Christian church. KTHS, not not service, end, 10-11:10, annu-New Arlington hotel orchestra; 10-11:10, annu-New Arlington hotel orchestra.
 Phil Baxter's Singing orchestra.
 KYW, Chicago, III. (535.4), 11 a. m., Central church KYW, Chicago, III. (535.4), 11 a. m., Central church service, Dr. Frederick F. Shannon, pastor; 4-5 p. m., artists program; 7, Chicago Sunday Evening club, artists program; 7, Chicago Sunday Evening club, services, State Black, services, services, setting

KYW, Chicago, Ill. (535.4), 11 a. m. Central church service, Dr. Frederick F. Shannon, pastor; 4-5 p. m., artists program; 7, (Thicago Sunday Evening club, speaker, Dr. Hugh Black.
WBAP, Fort Worth, Texas (475.9), 11 a. m., services, St. Paul's M. E. church, Rev. C. D. Meade, pastor; 4 p. m., concert, Rialto theater; 11-12, uidnight frolle. Ted Miller's Crave hotel orchestra.
WBCN, Chicago, Ill. (266), 10'30-12 m., sermon, Rev. R. A. White; 4-5 p. m., Lain & Son classical concert; 5:15-6:15, talk, Rev. Richard D. Hughes; 7-8, elassleal hour, Ballautine musical and farmatic burcau artists; 8-10, Eddie Shepard, concertinst; Midway Garden orchestra; Borden brothers; Cliffon Newton Moore, harmonica soloist; Florence Eastman, mezzo-soprano; 'Big Boy'' Yagle, pianist; Donald Rice, cornetist; Evelyn Johnson, mezzo-soprano.
WEGO, Zion, Ill. (344.6), 8 p. m., mixed quartet; Misses Wledman, double due; Mary Sweeney, soprano; Mrs. Katherine Crow, contraito; celestial bells; Wiliam S. Hester Robinson, reader; Bessie Wiedman, Junist.
WCCO, Minneapolis-St. Paul, Minn. (416.4), 11 a. m., Tunlity Rantist: Anno, Kore, Day Shang, Tang, Shang, Shan man, planist. WCCO, Minneapolis-St. Paul, Minn. (416.4), 11 a. m., Trinity Baptist church; 4:10 p. m., House of Hope Presbyterian church; 7:30, First Baptist church; 9:15, classical concert Presbyterian church; 7:30, First Baptist content, classical concert.
 WDAF, Kansas City, Mo. (365.6), 4-5 p. m., classical music, Star's studio; 5-5:30, Sunday school lesson, Dr. Walter L. Wison.
 WEBH, Chicago, III. (370.2), 5-6 p. m., twilight musicale; 7-9, artists' program. music, S Dr. Walt WEBH, Cl musicale;

Book concern: 11. services, Church of Covenant, Dr. Frank Stevenson; 7:30 p. m., services, Emmaus Evargelical Lutheran church; Dr. E. P. Dannenfelt, Daster; Sco, concert, Western anuscuent orchestra, William WoAW, Oranka, Peter, 6260, 9. a. m., Radio chapel service, Rev. R. H. Brown; 2:15 p. m., nathere prostram; 6. Bible study period, Mrs. Carl R. Gray; 9. monsleal chapel service, Emanuel Baptist church, Rev. John I. Barton.
WOG, Oavengort, L. (483.6), 1 p. m., Palmer Little symplony, Erwin Swhedl, conductor; song numbers, Charlos R. Hall; 2. "The Common Denominator of Christian church, Rev. Lara Cook Heivle; vocal numbers, Mrs. Edna Crentz Bradley.
WOI, Ames, Ia. (270), 10:45 a. m., college chimes; 11, chapel services, Fred M. Hansen.
WORD, Batavia, HI. (275), 7:30 a. m., services, First Distavia church.
WORD, Isatavia, Hu. (247, 5, 10:30 a. m., services, First Presbyterian church.
Wo, Cheago, HI. (447,5), 10:30 a. m., services, People's church. J. Presbyterian church.
WO, Chaego, HI. (447,5), 10:30 a. m., services, People's church. J. S. Kanas and his Rainbo Garden orchestra; Grace Velson, 14-year-old planist; Jvin Becker, sonano; Lancaster Smith, bass; Mrs. Lancaster Smith, accompanal, Maxine Mordy, Volunist; Kenneth Sterling, Weng, Bator, S. Mrs. Cardor, J. S. Mastro, Markov, Markov, Jone, Haven, Sanas, Sa

Lancaster Smith, bass: Mrs. Lancaster Smith, accompanist; Maxine Mordy, vloiinist; Kenneth Sterling, barltone. WRBC, Valparaiso, Ind. (278), 7:30 p. m., church serv-fee. Immanuel Lutheran church. WSB, Atlanta, Ga. (428.3), 11 a. m., First Presbyterian church service; 5-6 p. m., services, Capitol. View Baptist church; 7:30, Wesley Memorial church service. WSU, Iowa City, Ia. (483.6), 7 p. m., chldren's hour, Mrs. Allee McLeod Mills; 9-9:30, familiar hymns, Ruth Rowland, soprano. **Mountain Time Stations** CFAC, Calgary, Can. (430), 7 p. m., Knox Presbyterian church, Rev. George A. Dickson. KOA, Oenver, Colo. (322.4), 11 a. m., First Congrega-tional church, Rev. Robert Hopkin; 7:50, First Church of Christ Scientist. Pacific Time Stations

of Christ Scientist. Pacific Time Stations FI, Los Angeles, Calif. (467), 10-10:45 a. m., Los Angeles Church Federation service; 4-5 p. m., vesper services directed by Dr. Davis of Davis Musical col-lege; 6:45-7, Raditorial; 7-8, stage acts, specialities and orchestra from Metropolitan theater; 8-9, instru-mental and vocal recital of classical nature; 9-10, Examiner, Cindereila Baliroom orchestra from Long Beach; 10-11, Packard Eight orchestra, Bili Hennes-sey, director. and orchestra from schola of classical nature; 9-10, Examiner, Cinderella Ralinoom orchestra from Long Examiner, Cinderella Ralinoom orchestra from Long Beach; 10-11, Packard Eight orchestra, Bill Hennessey, director.
KFSG, Los Angeles, Calif. (273), 10:30-12:30 p. m., complete morning service of Angelus temple with series and the temple opening with special musical hour; 10-11, organ recital, Esther Fricke Green.
KGO, Oakland, Calif. (381), 11 a. m., service, First Unitarian church; 3:30, concert, KGO Little Symphony orchestra; Arthur S. Garbett; 8, services, JFrst Unitarian church.
KGW, Portland, Ore, (492), 10:30 a. m., service, First Unitarian church; 3:30, concert, KGO Little Symphony orchestra; Arthur S. Garbett; 8, services, First Unitarian church.
KGW, Portland, Ore, (492), 10:30 a. m., service, First Unitarian church, Br. Harold Leonard Bowman, pastor; 3 p. m., unicipal concert; 6, church services, Portland Council of churches; 7, Colburn concett orchestra; Fay Wentz Welde, soptano.
KHJ, Los Angeles, Calif. (404.1), 10:30-12:30 a. m., services, Portland Council of church, Strike, organist, and E. E. Helms, pastor; 6:30-7, Art Hickmar's Biltmore hotel concert orchestra, Edward Filzpatrick, director; 7-7:30, Arthur Blakely, organist; 8:10, program, Martin Musle company, arranged by J. Howard Johnson, presenting "A Nikely, Org. Div. 7, Prench E. Oliver, mastor; 6:437.6), 5-6:10, program and service and the church of Open Door, musical program and services, Church of Open Door, musical program and service and the context program and service and the context program and service and the church of Open Door, presental services, Church of Open Door, musical program and services, Church of Open Door, musical program and services of the church of Open Door, musical program and services of the church of Open Door, presentiat services of the church of Open Door, presentiat services, Church of Open Door, presentiat services, Church of Open Door, musical program a



Here is the Reo quartet, left to right, Raymond Hamilton, James Lyon, Kenneth Buckingham, and Raymond Lyon Bowers, popular artists who sing Thursday at WREO, Lansing.

Beloit, Wis. (268), 4:30-5:30 p. m., Sunday | WEBW, Beloit, Wis. (268), 4:30-5:30 p. m., Sunday vesper services.
 WEMC, Berrien Springs, Mich. (286), 11 a. m., saered music, Radio Lighthouse choir; Cecil Woods, bass; Martha Hutchinson, soprano; Mirs. Lela Beuchell, con-traito; 11:40, sermon, Pastor W. R. French; 8:15 p. m., saered music, Radio Lighthouse choir; music, S. D. A. church.
 WFAA, Oallas, Tex. (475.9), 6-7 p. m., Rudio Bible class, Dr. William M. Anderson; 7:30, City Temple service, Dr. L. D. Young; 8:45-9:30, solos, Miss Porter; Southern Methodist university quartet; 9:30-11, Graco Methodist church orchestra, Earlo D. Hebrends.

Graco Methodist church orchestra, Earlo D. Hehrends.
 WGN, Chicago, HL. (370.2), 11:45 a. m., program, Chicago theater; 2 p. m., organ recital, Lyon & ficaly; 3, Trihune master artist concert, Apollo quar-tet; 3:30, Chicago Mucleal college; 9:10, "An Evening with the Composers." Charles H. Gabriel, Jr.
 WHAS, Louisville, Ky. (399.8), 9:57 a. m., organ musle; 10, church service, Broadway Baptlet church, Rev. Dr. Russell Johnson Pirkey; 4-5 p. m., vesport song service, Fourth Avenue Keventh Day Adventist church, Rev. Robert J. Bayant, pastor.
 WHB, Kanasa Gity, Kan. (365.6), 9:40-11 a. m., morn- ing services, Linwood Bouicvard Christian church, Dr. Burris A. Jenkins; 2-3 p. m., classical program, Lena Kathryn Allon; 8-9, special church services; 072an Ceital, Linwood theater.
 WHO. Ocs Moines, 14, 526.11 a. m., church services;

WHO, Oes Moines, la. (526). 11 a. m., church service Enlversity ehurch, Dr. Charles S. Medbury; 4 p. m. program, Dean Holmes Cowper, director; 7:30-9.

8-9, Ambassador hotel concert orchestra, Josef Rosen feld, director; 9-11, program, Giobe 1ce Cream com KPO, San Francisco, Calif. (429.5), 8;30-10 p. m., Rudy Seiger's Fairmont hotel orchestra.

### Monday, March 9

Monday, silent night for; CKAC, CKY, KFDM, KFMQ, KGW, KHJ, KYW, WBCN, WCAU, WOWF, WEAO, WEBH, WGN, WHAS, WIP, WJY, WKAQ, WEBL, WLS, WMAA, WOC, WOAI, WQJ, WRC, WTAY. Eastern Time Stations

**LASTETN 11THE STATIONS** CHNC, Toronto, Can. (350), 8:30 p. m., CHNC trio, Frank Blachford, violinist, Leo Smith, ceilist, Dr. Harvey Robb, pianlst; Elsie White, soprano; Irving Levine, baritone; W. H. Hodgins, tenor. KDKA, East Pittsburgh, Pa. (309.1), 6:15 p. m., con-cert, KDKA Little Symphony orchestra; 7:30, chil-dren's period; 8:15, address, University of Pittsburgh;

Wards, H.Dirk, S.B., address, University of Pittsburgh;
S.So, concert.
WAHG, Richmond Hill, N. Y. (315.6), S-8:15 p. m., John J. Kimmell trio; 8:15-8:30, Edith Gutterman, mczzo; 8:30-8:45, Jeanette Sheldon; 8:45-9:15, Syn-chrophase trio; 9:45-10, Edith Gutterman, nezzo;
Io-10:15, John J. Kimmell trlo; 10:15-11:30, Gien C. Smith's Paramount orchestra; 12-2 a. m., special program, Adams' Sympholie concert orchestra
WBBR, New York, N. Y. (272.6), 8 p. m., Ruth do Roer, contraito; 8:10, Instrumental selections; 8:20, World News Digest, editor of Golden Ase mazzahe; 8:36, Ruth de Loer, contraite; 8:30, Instrumental selections.

WCAE, Pittsburgh, Pa. (461.3), 6:30 p. m., dinner concert, William Penn hotel; 7:30, Uncle Kaynes; 7:45, special feature; 8:30, concert, studios of Mine, Lella Wilson-Smith; 9, concert, A. & P. Gypey String ensemble; 10, program; 11, flight, the Press-Kaybee; Blackstone theater orchestra. WCX, Detroit, Mich. (516.9), 4:15 p. m., musleal pro-gram; 6, dinner concert, Book-Cadillae hotel; 8:30, wutchel horogram.

gram; 6, dinner concert, Book-Caullac noter, one, musical program. WEAF, New York, N. Y. (492), 4-4:15 p. m., Dorothy Wilder, planist; 4:15-4:25, Beatrice Mink, reader; 4:40-5, children's storles, John Farrar; 6-7, dinner music from Waldorf-Astoria; 7-7:30, Gustave Langenus, elarinetts; 8:30-9, Cushnan's Sons, Inc.; 9-10, A. & P. Gypsies; 10-10:30, Michael Markel's soclety or-chestra; 10:30-11:30, Ben Bernie's Hotel Roosevel

clarinetist; 8:30-9, Cushman's Sons, Inc.' 9-10, 'A.' & P. Gynsles; 10-10:30, Michael Martie's society orchestra; 10:30-11:30, Ben Bernie's Hotel Roosevelt orchestra; 10:30-11:30, Ben Bernie's Hotel Rooseveltors, Levey Lyon, director; 9, A. & P. Gynsles
Wf. Philadelphia, Pa. (394.5), 3 p. m., Comb's Comseventory Girl's glee club; 3:30, "The Home and Its Rehation to the School," H. A. Marsh; 6:30, Meyer Davis, Bellevie Stratford concert orchestra; 7, Sunny Jim, the kiddles' nal.
WGBS, New York, N. Y. (316), 3-2:10 p. m., intervised with Ruth Shepley and James Rennie of Cape Sunke company; 3:10-3:20, Olive Williams; 5:6:30, Olive Williams; 5:6:6:30, Oli

Walter Dun-ham, pianist, is one of the WOAI enter-tainers heard every Sunday and Thursday at WOAI, San Antonio, Tex. Mr. Dunham is a popular artist in southern Texas.



### **Central Time Stations**

chestra; Steller quartet. **Chertral Time Stations Section 19 Section 20 Chertral Time Stations Section 20 Section 20**<l

(Continued on page 11)

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### March 7, 1925

# SCOTCH PROGRAM FEATURE OF WHB

### Monday, March 9

(Continued from page 10) (Continued from page 10) (DAF, Kansas City, Mo. (365.6), 3:30-4:30 p. m., program, Newman and Royal theaters; 6-7, piano tuning-in number on the Duo-Art; Cecile Burton, reader; weekly request story night, the Tell-Me-a-Story Lady; Trianon ensemble; 8-9, around the town with WDAF; 11:35-1. Nighthawk frolic, Merry Old Chief, Plantation players. FEBH, Chicago, III. (370.2), 7-8 p. m., Oriole or-chestra; Dan Russo, violinist; Ted Fiorito, celeste soloist; Riviera theater; 9-10, Oriole orthestra; Dennis sisters; Dean Remick, planist; Kay Ronayne, songs; sisters; Dean Remick, planist; Banks Kennedy, soloist; Frank Magini, soloist; Banks Kennedy,

EBW, Beloit, Wis. (268), 8-9 p. m., songs, fraternity

- WEBW, Beloit, Wis. (268), S-9 p. m., songs, fraternity groups.
  WEMC, Berrien Springs, Mich. (286), S:15 p. m., Collegian string trio.
  WGST, Atlanta, Ga. (270), 9-10 p. m., "Talk Back Home", hour, students.
  WHAS, Louisville, Ky. (399.8), 4-5 p. m., Louisville Conservatory of Music; selections, Alamo theater organ.
  WHB, Kansas City, Mo. (365.6), 7-8 p. m., "A Talk on Salesmanship," I. L. Adams.
  WHO, Des Moines, ia. (526), 7:109-p. m., Bernice Courtright Hilnes, soprano; Wallace Donaldson, Scotch soloist; Guy Wilcox, accompanist; Irvin Miller, violinist; Great Western Silverstring serenaders; Edward Adams, popular song soloist; 11:15-12, Carlos Meier, organist.

- Ist; Great Western Silverstring serenaders; Edward Adams, popular softs soloist; 11:15-12, Carlos Meier, organist,
   WLW, Cincinnati, Ohio (423), 6 p. m., dinner hour concert, Selinsky instrumental quinitet; 8, Times-Star orchestra, William Kopp, director; Mariory Garrigus Smith, planist; Howard Hafford, tenor; Joseph Vito, harpist.
   WMAQ, Chicago, III, (447.5), 6 p. m., Chicago theater organ recital; 6:30.-Hotel LaSalle orchestra.
   WMG, Menphis, Tenn. (499.7), 8:30 p. m., Hotel Gayoso concert orchestra.
   WOAW, Omaha, Nebr, (526), 5:45 p. m., public news period, Eugene M, Konecky; 6, Arthur Hays, organist; 6:30, West sisters' string quartet; 9, father and son program; 9:30, program, auspices, Auto and Electric Radio corporation.

music; 7-8. program. West Coast theaters, Inc.; 8-10, KNX feature program: 10-11, Goodrich Silvertown orchestra; Lillyan May Challenger, soprano; 11-12, Abe Lyman's Coccoanut Grove dance orchestra. (PO, San Francisco, Calil. (429.5), 4:30-5:30 p. m., Rudy Seiger's Fairmont hotel orchestra; 5:30-6:30, children's hour stories, Big Brother; "Amateur Five" orchestra; 7-7:30, Rudy Seiger's Fairmont hotel or-chestra; 8-9, Theodore J. Irwin, organist; 9-10, pro-gram, Pearl Hassock Whitomb, contraito; 10-11, Gene James' Rose Room Bowl orchestra.

### Tuesday, March 10

Tuesday, silent night for: CHNC, KFKU, KFKX, KFNF, KLX, KOA, WAHG, WBAV, WBBR, WCBD, WEAO, WEMC, WGST, WHA, WHAZ, WHO, WMAQ, WOI, WOO, WOS, WRBC, WSUI. Eastern Time Stations

CKAC, Montreal, Can. (425), 7 p. m., kiddies' stories; 7:30. Windsor hotel concert orchestra; 8:30, Frontenac Breweries; 10:30, Windsor hotel dance program. KDKA, East Pittsburgh, Pa. (309.1), 6:15 p. m., dinner

two-plano concerto, Minna Rutenberg and Simon Cohn; 9-910, astrology talk, Belle Bart; 9:10-10, ducts and solog, Marie Yicholson and Elizabeth Glibbs.
WGY, Schenettady, M. Y. (373.5), 2 p. m., address, meber, Woman's Chub el Schenettady; 2:30, Stephen E. Belstait, organist; 6:30, dinner music, New Ken-Dr. Frederick W. Grover; 7:40, Paula Smith, planist; Par. Frederick W. Grover; 7:40, Paula Smith, planist; Motion J. Hall, tenor; 9, Brunswick hour of music; 10:50, Meyer Davis orchestra; 11:30, Stephen E. Belstait, organist.
WHM, New York, N. Y. (360), 12:30-1 p. m., Charles Strickland's Palals D'Or orchestra; 2:15-3:15, program, Loew's State theater; 6:30-7, Strand Roof orchestra; 10:30-11, the New Horks, T. Suderlib, Concestra; 10:30-7:35, health talk, Dr. Landis; 7:35-8:05, Lou Meini's Mah Jong Im orchestra; 10:15-10:30, Loew's raudeville headliners; 10:30-11, the New Rockwell Ferrace revue; 11-11:30, Brerglades revue; 11:30-12, Club Alabam orchestra; 12:12:30 a. m., Ted Lewis and his Parody club orches-tra.
WP, Philadelphia, Pa. (508.2), 4 p. m., W. G. Boyd.

tra. (ra., Philadelphia, Pa. (508.2), 4 p. m., W. G. Boyd, baritone; Wayne Branckman trio; 4:15, Henrietta Knowles, contralto; 6:15, Harvey Marburger's dance orchestra; 7, Uncle Wlp's bedtime stories; 8, "Timely

quartet; 7:30, "Control of Grasshoppers in Alfalfa," J. W. McColloch: 7:40, college quartet; 7:50, "Essen-tial Features of a Poultry House," J. H. McAdams.
KSD. St. Louis, Mo. (545.1), 6 p. m., concert, Benja-min Rader's orchestra; 9, concert, Shurtleff college gtee club.
WEAP, Fort Worth, Tex. (475.9), 7:30-8:30 p. m., artists. Baptist seminary. Frank Cheek, director; 9:30-10:45, program, Travis Avenue Baptist church.
WBAP, Fort Worth, Tex. (475.9), 7:30-8:30 p. m., artists. Baptist seminary. Frank Cheek, director; 9:30-10:45, program, Travis Avenue Baptist church.
WBCN, Chicago, III. (266), 7-8 p. m., Lulu Raben, riolinit; Irene Irma Zinter, pianist; 8-12, Marle Wricht, soprano; Midway Gardens orchestra; Axel Christensen, planist; F. H. McDonald, talk; Lim-erlek girls; Finney Brags, humorlst; Edith McCune, reader; Fred Rose, tenor; Melody girls; Famous four; 12-1:30, Pirate ship.
WCCO, Mineapolis-St. Paul, Minn. (416.4), 6:30 p. m., Minneapolis, Athletic club orchestra; Edward C. Feerly, tenor; 7:30, lecture; 7:45, bookladgue, Leonard Wells; 8-10, national program from WEAF.
WDAF, Kanasa Cirb, Mo. (365.6), 3:30-4:30 p. m., star's Radio trio; 5-5:30, weekly child talent pro-tram, Mrs. A. E. Robinson, directo; 6-7, piano tuning-in numher on the Duo-Art; the Tell-Mesa-story Lady; Radio piano lesson, Muedellen Little-field; Trianon ensemble; 11:45-1, Newman Nighthawk night.
WEBW, Beloit, Wis. (268), 7:30-8:30 p. m., concert, Ferthyneks Vorze company.

- Bady, Jady, Radio presson, Andurenen Ditterier, Batterier, Bady, Radio Presson, Andurenen Ditterier, Bellen, Beloit, Wis. (268), 7:30-8:30 p. m., concert, Faltbanks, Morse company.
  WGN, Chicago, HL. (370.2), 6 p. m., organ reeltal, Lyon & Healy; 6:30-7, dinner concert, Drake Concert ensemble, Blackstone string quintet; 8-9, Simco band; 10-11, Don Bestor Drake dance orchestra.
  WHAS, Louisville, Ky, (399.4), 4-5 p. m., selections, Louisville Conservatory of Music; 7:30-9, concert; Eddle Rosson and his orchestra; "Billy and Jane?" WHE, Kansas City, Kan. (365.6), 7-8 p. m., "Shall We Scrap the Ten Commandment?" Dr. Andreas Bard; choir, First English Lutheran church; 8-10:30, program, Anna Brennan Burns, director; Gerald Burke, planist; Geraldine Obrian, planist; "Things Worth While," Dr. Fifeld; Crawford-Rutan Band.
  WLS, Chicago, III. (344.6), 6:30 p. m., Rabp Emerson, organist; 5:30, Senate studio; 7, Julaby time; 7:15, Florence K. White; 7:30, Grace Wilson; 7:45, Anthony Wons; S. R. F. D. program, Ford and Glenn;



Nicholas Garagusi, violinist, needs no introduction to music lovers. He has played with many of the leading orches-tras in the country and is at the present time with the Detroit News orchestra heard every day at WWJ.

WOC, Davenport, la. (483.6), 5:45 p. m., chlmes concert.
WOI, Ames, la. (270), 10 p. m., program popular music.
WORD, Batavia, III. (275), 8-9 p. m., Mildred Mor-lock, soloist; Marrel Morlock, soloist; Edward Fitz-gerald, pianist; Bible lecture.
WOS, Jefferson City, Mo. (440.9), 8 p. m., addresses, J. N. Williams, R. O. Marlin, Charles C. Jackson, Charles T. McLaughlin; musical program, Broadway Methodist church.

- Charles T. McLaughini; mustrel program, Broading, Methodists church.
  (RBC, Valparaiso, Ind. (278), 7:30 p. m., music.
  (SB, Atlanta, Ga, (428.3), 5-6 p. m., Bonnie Barn-hardt's songs and bedtime story; 8-9, vocal and in-strumental recital; 10:45, Warner's Seven Aces.
  (SUI. Iowa City, Ia. (433.6), 7:30 p. m., "Modern English," Prof. Thomas A. Knott; 7:45, "Current Social and Economic Problems," T. D. Yoder; 8, readings.
- **Mountain Time Station KOA, Denver, Colo. (322.4), 8 p. m., Fred Schmitt and** his Rialto theater orchestra; 8:10, "Safety First," Otis players.
- Duts players. Pacific Time Stations FAE, Pullman, Wash. (348.6), 7:30-9 p. m., Frances Lookwood, soprano: Reba Robertson, reader; "Have Morals a Biological Basts," Dr. F. F. Potter; "A Pure Brcd Sire Brings the Buyer," Don G. Ma-gruder; "What is Worth Seeing in Rome," Prof. C. M. Brewster; "More Electricity for Farm and Home," Dean E. C. Johnson, I. Los America Cittoria
- Brewster; "More Electricity for Farm and Home," n E. C. Johnson. Los Angeles, Calif. (467), 5:30-6 p. m., Exam-'s musical half hour, Floryane Thompson, soprano; 5-7, Raditorial talk; 7-8, Evening Herald Radio-is dance orchestra, Charlie McIson, tenor; 8-9, pro-m, Owl Drug company; 9-10, program, Walter M. rphy Molors company, Hudson Six orchestra; 10-11, miner, Ray West and his Alexandria hotel dance nestra.
- Examiner, Ray West and his Alexandria hotel dance orchestra.
  KFOA, Seattle, Wash. (455), 4-5:15 p. m., studio music; 6:45-8:15. Sherman Clay and company program; 8:30-10, Seattle Times studio program.
  KGO, Oakland, Calif. (361), 5:30-6 p. m., Aunt Betty storles; 8, Arion trio; "insects," E. O. Essig: "A Lesson in English," Wilda Wilson Church; "Kules of the Road which Every Motorist Should Know," George E. Sandford; "Leing a Good Hostes," Edith Steven Giles; "Chats about New Books," Joseph H. Jackson; 10-1, Henry Halstead's orchestra.
  KLX, Oakland, Calif. (350, 6), 5:45-6:15 p. m., organ recital from Wurlitzer studio; 6:15-7, dinner hour

Violet Deutsch is a talented, young pianist of Omaha, Nebraska. Her effective tone production on the Baldwin Concert Grand has won for her many admirers among the listeners in of WOAW. You may hear her Monday, March 9.

concert, Pittsburgh association orchestra; 7:30, chil-dren's period; 7:45, "Overcoming Economic Prejudice," Dr. John Ray Ewers; 8, concert; 9, Brunswick hour of music; 11, concert, Pittsburgh Post studio.
WCAE, Pittsburgh, Pa. (461.3), 6:30 p. m., dinner concert, William Penn hotel; 7:30, Uncle Kaybee; 7:45, special feature; 8, program, WEAF; 8:30, "The Gold Dust Twins"; 9, Evercady hour; 10, Goodrich Silvertown Cord orchestra.
WCAU, Philadelphia, Pa. (278), 7 p. m., Paul Specht and his Original Columbia recording dance orchestra; 7:30, N. Sneilenburg and company recital; 8, selections by Cleve-Chandlers Hawalian; 8:15, talk, auspices Philadelphia Electric company; 8:20, concert, Media Melodians; 8:40, Symphonic surety orchestra; 9:10, recital.

ncert Grand has won for her many AW. You may hear her Monday, March 9.
Talks to Motorists," Eugene Hogle; 9:15. Passion play: 10:05. "Emo's Weekly Broadcast," 10:30. Har-rey Marburger's dance orchestra; 11. Radio contest. WIY. New York, N. Y. (454:2). 8:15-8:45 p. m., Orphans Masonic quartet: 10-11, Montclair orchestra; WIZ. New York, N. Y. (454:3). 4-4:15 p. m., Myrile Van Veen, soprano; 4:15-4:30, L. E. Schoenbarn, basso; 4:30-5:30. Bernhard Leritow's Hotel Commo-dore tea orchestra; 7:7:15. dog talk, Frank Dole; 7:15-6; Joseph Strissof's Hotel Vandrebilt orchestra; 8:8:10. Wall Street Journal; 8:10-8:20. NYU Air col-lege; 10. Brunwick hour; 10-10:20. "Fyrenes," WIT, W. Barnitz.
W KY, G. S. Barniz, P. R. (340.7), 8:9:30 p. m., Euterpe jacq and Juan, P. R. (340.7), 8:9:30 p. m., Euterpe jacq and Juan, P. R. (340.7), 8:9:30 p. m., sports torles; 7:30. "Behind the Foodlents," Arnold Abbot, wNYC, New York, N. Y. (552), 7:20-7:30 p. m., sports torles; 7:30. "Behind the Foodlents," Arnold Abbot, woo, Philadelphia, Pa. (508.2), 4:45 p. m., organ recital, Mary E. Vost. WOR, Newark, N. J. (405), 6:30-6:45 p. m., Man in Moon storles. WRC, Washington, D. C. (468.5), 6:45 p. m., Main in Moon storles, S. "Show Shopping," Leonard Hall; 8:10, to be announced; 8:30, "The Political Situation in Washington Tonight," Frederic William Wille; 9. Brunswick hour of music; 10:30, dance music, Meyer Davis Le Paradis band.
WREO, Lansing, Mich. (285.5), 8:15-9:45 p. m., Reo band, Carl Hall Dewey, director; Reo male glee elub.
WTAM, Cieveland, Ohio (389.4), 6-7 p. m., dinner music, Hotel Staler concert rochestra; Maurice Splt-ahny, director.
WU, Deroit, Mich. (352.7), 3 p. m., Detroit News orchestra; 6, dinner concert; 8, concert from WEAF.
Central Time Stations
(KY, Winnipeg, Can. (450), 7:30 p. m., lecture, Prof. by Cleve-Chandlers Hawalians; 5:10, taik, auspites
 by Cleve-Chandlers Hawalians; 5:10, taik, auspites
 by Cleve-Chandlers Hawalians; 5:10, concert, Mich (5:6), 4:15 p. m., musical program; 6:40, pre-concert, Book-Cadliac hote; 1:30, pre-concert, 1:30, pre-conc

Henry Spies, first horn player of the **EGO** Little Symphony orchestra, was one of the soloists on the Tuesday evening program, March 3. The Little Symphony orchestra may be heard again Sunday at 3:30 p.m.

may be heard again Sunday at 3:30 p. m.
9. Glem's Threshers; 9:10, Shakespeare, Anthony Wons; 9:30, Nubs Allan; Art Kahn's Columbia Senate orchestra; 10, James Church banjo duo; 10:30, Glem's Threshers; 10:340, Ford and Glem time; 11, Carrell Vaudetlie nite program; 12, midnight review, Ralph Emerson, Dave Nudelman, Ford and Glem.
WLw, Clincinnati, Ohio (423), 4, p. m., Mah Jongs lecture, Lucy Blackburn; pupils of William Kyle; 6, dinner hour concert, Selinsky instrumental quintet; 8, concert program, Boathouse Coffee company; quarte of m'', Baitmental thio; 8:30, R. G. (Gregg) Henkel in "', Instrumental thio; 8:30, R. G. (Gregg) Henkel in "', Baitmental thio; 8:30, R. G. (Gregg) Henkel in "', Baitmental thio; 8:30, R. G. (Gregg) Henkel in "', Baitmental thio; Staff, McBoand, Taube trio; 9, Higginboom's and Group and Heghnett, Old Time fiddhin', Jake Rutz and his Pumpkin Vine orchestra.
MMAQ, Chicago, III. (447.5), 4 p. m., American Red Cross talk, Dr. H. W. Gentles; 4:30, pupils, Gum School of music; 6:50, Daddy; 8, Harry Hansen, literary editor; 8:50, Lavet Lab, Clara E. Lauchlin; 8:40, weekly talk, Association of commerce; 8:50, lecture, University of Chicago; 9:13, program, Betom of commerce; Man Reform church, WMC, Memphis, Temo. (499.7), 8 p. m., lecture, Col.

church. MC, Memphis, Tenn. (499.7), 8 p. m., lecture, Col. Harry B. Anderson; 11, frolic, Reinhardt's Music Harry B. Anderson; 11, 17010; hermandes, Shop symphony.
WOAI, San Antonio, Tex. (394.5), 8:30 p. m., Grieg compositions, WOAI entertainers; 9:30, Jimmie Joy's Hotel St. Anthony orchestra.
WOAW, Omaha, Nebr. (526), 5:45 p. m., public news period; 6. "Advice to Lovelon," Cynthia Grey; 6:23, dinner program. May Seed and Nursery company; 3. program, Thelma Skeen Swauger, harpist; 10, music; 10:30, Frank W. Hodek, Jr., and his Nightingale orchestra. program, Thelma Skeen Swauger, nample, Ap. Incomp. 10:30, Frank W. Hodek, Jr., and his Nightingale orchestra.
 WOC, Davemort, Ia. (433.6), 5:15 p. m., chlmes; 6:30, sandman's visit; 8, musical program.
 WORD, Batavia, III. (275), 8:9 p. m., Columbla Conservatory of Musicy world news items, G. L. Pyle.
 WQ, Chicago, III. (447.5), 7:8 p. m., dinner concert. Ralph Williams and his Rainho Garden orchestra; Isabclie Freeman, soprano; Ellen Doollitte, accompanist; 10-1, Ralph Williams, and his Rainho Skylarks; Ned and Ches; Will Rossiter; Mick Sleters; 1-2, Hotsy Totsy hour, Ralph Williams, the Concernant. Little Skylarks.
 WB, Atianta, Ga. (428.3), 5:6 p. gram; Bonilo Barnhard's bedlune Myers' melody artists; 10:45, uussi Stewart Hale players.
 (Continued on pag)

# BOSTON U.-DARTMOUTH COLLEGE D

### Index to Talks, Lectures and Addresses

TABULATED below is a time table of the stations giving talks, lectures ABOLATED below is a time table of the stations giving taks, feetures and addresses this week. These range from the instructive and serious to the humorous and frivolous. The stations listed are divided into the four different kinds of time in use. The hours are given in the kind of time in use at each listed station. By using this table as an index and referring to the complete programs below, full information will be obtained.

Eastern Time Stations Saturday, March 7: 7:15, WBZ; 7:45, KDKA; 8, WIP, WJY, WRC; 8:15, WNYC; 8:20, WBBR; 9:30, WGBS;

GBS. Monday, March 9: 7:15, WGY; 7:35, NYC; 8, WJZ, 8:10, WJZ; 8:15, DKA; 8:45, WJZ; 9:20, WLIT; 9:30, JZ: 10:15, WNYC. WJZ: 10:15, WNYC. Tuesday, March 10: 7, WJZ; 7:30, WIP, WRC; 8:15, WCAU; 8:30, WRC, 9, WGBS: 10, WJZ; 10:10, WNYC; 11:05, WIP.

WGBS: 10, W.JZ; 10:10, W.NIC; 1:05, WFP.
Wednesday, March 11: 6:45, WGY;
WCAU, WJZ; 8:15, KDKA: 8:30, VEAF, WNYC; 8:40, WCAU; 10, VJY; 10:15, WCAU.
Thursday, March 12: 7:30, WEAF, VGY; 7:55, VJZ; 8, CNRT, WGY, VIY; 8:15, WJY; 8:30, WGBS;
:40, WCAU; 10:05, WIP.
Friday, March 13: 7, WDWF, WJZ, FLIT; 7:30, WGY; 8:15, ULIY; 8:15, CDKA: 8:30, WEAF, WEEE; 9, VAHG, WJZ; 10:10, WEAF, WNYC.

Central Time Stations

Saturday, March 7: 6, WDAF; 6:50, OC: 7:30, WOAW; 8, WCCO; 8:30, BCN, WMAQ; 9:05, KYW; 9:15, YW.

KYW. Sunday, March 3: 6, WOAW. Monday, March 9: 6, WDAF; 7, WHB: 7:30, KSAC, WSUI; 8, KSD, WCCO. WOS, WSUI; 8:30, KFKU; 8:45, KFKU; 9, WGST.

Thresday, March 10: 6, WDAF, WOAW; 7, WHB; 7:30, CKX, KSAC, WCC0; 7:45, WCC0; 3, WLS, WMAQ, WMC; 8:50, WMAQ Wednesday, March 11: 6:50, WOC; 7, WHB; 7:30, KSAC, WSU1; 7:45, WSU1; 3, WLS, WMAQ, WOS, WSU1; 8:55, WEMC Thursday, March 12: 6, WDAF; 7, WHB; 7:15, KFKU; 7:30, CKY, KFKU, KFMQ, KSAC; 7:45, KFKU; 8, WMAQ; 8:45, WMAQ; 8:50, WMAQ. Triday, March 13: 6, WDAF; 6:50, WOC; 7:30, CKY, KSAC; 3, WLS, WOS; 8:30, WCAL.

### Mountain Time Stations

Monday, March 9: 8:30, KOB. Wednesday, March 11: 8:30, KOB; 10, CNRC. Friday, March 13: 6:40, KOA; 8:30, KOB.

Pacific Time Stations

Pacific Time Stations Saturday, March 7: 6:20, KPO; 6:30, KHJ, KPO; 7:45, KFI. Sunday, March 8: 6:30, KPO. Monday, March 9: 6:45, KFI; 8, KGO, KLX. Tuesday, March 10: 6:30, KHJ, KPO; 6:45, KFI; 7:30, KNX; 8, KGW. Wednesday, March 11: 6:30, KHJ, KPO; 6:45, KFI; 7, KFI. Thursday, March 12: 6:30, KHJ; 6:45, KFI. Triday, March 13: 6:30, KHJ, KPO; 6:45, KFI.

### Tuesday, March 10

### (Continued from page 11)

(Continued from page 11) Pacific Time Stations KFI, Los Angeles, Calif. (467), 5:30-6 p. m., Exam-iner's musical half hour; 6:35-7, Raditorial; 7-8, pipe organ recital, Dan McParland; 8-9, Examiner, clas-sical program; 9-10, Ruth Florence, dramatic so-prano, Isabell Boyd quartct; 10-11, Don Meany's movie night, Monte Blue, master of ceremonies. KFOA, Seattle, Wash. (455), 4-5:15 p. m., Olympic hotel orchestra; 6:35-3:15, Rundes Derb. Store pro-gram: 8:30-10, Seattle Times dance music; 10:05-11, Eddle Harkness and his orchestra. sunshine hour; 3:30-4:30 p. m., afternoon organ re-cital, Esther Tricke Green, organist; 6:30-7:30, ehli-dren's hour arranged and presented by Harry James Beardsley (Coush Jim).

dren's hour artanece data presented by lands and presented by an analysis of the second sec

, Portiand, Ore, (492), 5, 11, 6-6:330, concert; I college extension service locture; 8:33, concert; Multhomah Hotel Strollers. Los Angeles, Calit. (404.1), 6-6:330 p. m., Art kman's Biltmore hotel concert orchestra, Edward patrick, director; 6:50-7:30, little storles Amer-history, Prof. Walter Sylvester Hertzog, weekly of Queen Titania and Sandman, Louis F. Kieln, nona college; 9:30-10, Claire Forbes Crane, famous ert pianist; Calmon Luboviski, violinist; 10-11, Burinett's Biltmore hotel dance orchestra. Lee Angeles Calif (293), S-9:30 p.m. musical

Los Angeles, Calif. (293), 8-9:30 p. m., musical gram of classical nature, direction Musical Depart-

program of classical nature, direction Musical Department of Bible Institute.
 KNX, Hollywood, Calif. (337.6), 5:45-6:15 p. m., Wurfitzer pine organ studio; sports taik, Sid Ziff; 6:50-7:50, dinner hour music presented by R. C. "CHff" Durant; 7:30-8, style taik, Constance Service of Siegel-Myers; 8-9, program, Elite Catering com-pany; 9:10, program, Davis Standard Bread com-pany; 10:12, movie night, Ambassador hotel, Abe Lyman's Cocoanut Grove dance orchestra.
 KPO, San Francisco, Calif. (429.5), 4:30-5:30 p. m., Rudy Selger's Fairmont hotel orchestra; 5:30-6:30, children's hour stories; 7-7:30, Rudy Selger's Fair-mont hotel orchestra; 8:10, program, Mrs. Frederick Stow; 10:11, Gene James' Kose Room Bowl orchestra.

### Wednesday, March 11

# sday, silent night for: CHNC, CKAC, CKY, M, KFKU, KFKX, KFMQ, KGO, KSO, WBAY, 3D, WDWF, WEBW, WFAA, WFI, WIP, WJY, BL, WMAQ, WMC, WOAW, WOAI, WOI, WORD, BC, WRC.

### Eastern Time Stations

KOKA, East Pittsburgh, Pa. (309.1), 6:15 p. m., din-ner concert. Pittsburgh Athletic association; 7:30, children's period; 8:15, address, University of Pitts-

Mindrein & Stole, order, address, chinesary of Titlesburgh; 8:30, concert.
 WAHG, Richmond Hill, N. Y. (315.6), 8-11:30 p. m., prostan, Brooklyn Dally Eagle.
 WCAE, Pittsburgh, Pa. (461.3), 6:30 p. m., dinner concert, William Pean hotel; 7:30, Sunshine girl 7:45, special feature; 8:30, Maric Beltler, contratio. William E. Malger, planist; 9, concert, Aivatei Kent orchestra; 10:30, concert, Nixon restaurant or-

chestra. WCAU, Philadelphia, Pa. (278), 6 p. m., Meyer Davis' Hotel Pennsylvanla concert orchestra, direction Lon Chassey; 8, financial talk; 8:10, rocital; 8:45, sones, Anthonz McNichol; 9:40, recital; 10:05, Voice of Paris;

10:15, Radio tark. WCX, Oetroit, Mich. (516.9), 4:15 p. m., musical pro-dinner concert, Book-Cadillac hotel; 8:30 A program. New York, N. Y. (492), 11:35-11:45 a. m., talk, influes and Character," Dr. Bess V. Cumling-

lings and Character," Dr. Bes (2.30 p. m., chapel services, :45-4, Kay Macrae, soprano; -7, dinner music, Waldor(-As) tess Critical Synagogue of As)

Kent Manufacturing company; 11-12, Meyer Davis' Lido Venice orchestra.
WEAO, Columbus, Ohio (293.9), 8-10 p. m., concert, Ohto State university orchestra.
WEAR, Cleveland, Ohio (389.4), 7-8 p. m., dinner con-cert, Ivan Francisci and his Hotel Cleveland orchestra.
WEEI, Boston, Mass. (475.9), 6:30 p. m., Bilg Brother club; 7:25, Jack Griffin, Eddle McGinley; 7:50, Harry Einstelan, Bad Boy from the Good Home; 8, Traveler Shoe orchestra: 8:30, M. B. Cohan's half hour musical; 9, Gillette Safety Razor band.
WFI, Philadelphia, Pa. (394.5), 3 p. m., Loretta Kerk, planist; 6:30, Meyer Davis' Bellevue Stratford concert orchestra; 7, Sunny Jim, the kiddlos' pal.
WGBS, New York, N. Y. (316), 3-3:10 p. m., Interview with Marguerite LaNamara, operatic star; 3:10-3:20, 3:40, Berlin tric; 3:30-3:30, food roylead Natemotis, Countess Eckenstat; 3:50-4, Berlin tric.
WGY, Schenetady, N. Y. (329.5), 7 p. m., program, Strand theater orchestra.
WHN, New York, N. Y. (329.5), 6:30-7 p. m., Olcott Yall; 7-7:30, Harry Richman and his entertainers; 7:30-7:55, health talk, Dr. Landis; 11:30-12, Harry Rose and bis Silver Slipper revue; 12:12:30 a. m., Strand Roof or chestra.
WIP, Philadelphia, Pa. (502.2), 3 p. m., recital, students

chestra. WiP, Philadelphia, Pa. (508.2), 3 p. m., recital, students Rurtz studios, Helen M. Dpear, soprano; Katrina Ziegelock, contralio; Elizabeth McLean, soprano; M. Daniels, bass; 41.5, mental hygiene talk; 6:05, Ben-jamin Franklin concert orchestra; 7, Uncle Wip's bed-time stories.

time stories. WJZ, New York, N. Y. (454.3), 4-4:15 p. m., Mrs. Ralph E. Tower, pianist; 4:15-4:30, John V. Aspe, tenor; 4:30-5:30, Hotel Belmont tea music; 7-8, Cafe Boulevard orchestra; 8-8:10, Wall Street Journal re-view; 8:10-8:20, NYU Air college; 8:25-8:40, Frank Anderson, barltone; 10-10:15, "Work of the Juilliard Foundation," Dr. Eugene Noble; 10:15-10:30, Mary

Carr. soprano. WKAQ. San Juan, P. R. (340.7), 7-9 p. m., Municipal

Carr. soprano.
 WKAQ, San Juan, P. R. (340.7), 7-9 p. m., Municipal band.
 WLIT, Philadelphia, Pa. (394.5), 2 p. m., Arcadia cafe concert orchestra; 4:30, Alon Levy, violinst; 7:30, Dream Uaddy's bedtime stories; 9:30, Cotton Pickers' dance orchestra; 0:30, studio program.
 WNYC, New York, N. Y. (526), 7:35-8:30 p. m., dance program; 8:30-9, course in appreciation of music, Dr. Henry T. Ticck; 9:45-10:30, studio program.
 WOO, Philadelphia, Pa. (508.2), 4:45 p. m., organ reital, Mary E, Yogi; 7:30, A. Candelori's orchestra; from Hotel Adciphia; 8:30, concert from WEAF; 10:03, source from Wilder; 3:15-3:30, Constance C, Carr, source, 2:45-3, plano recital, Adelaide Purcell and Dorothy Wilder; 3:15-3:30, Constance C, Carr, 3:30, 3:45, plano recital, Adelaide Purcell, and Dorothy Wilder; 3:45-4, Jean Eckert, dramatist; 6:15-5:35, Harry Cox hotel Robert Treat orchestra; 6:15-5:36, Harry Cox hotel Robert Treat orchestra; 8:34, Music Bor, Chickering artist series.
 WTAM, Cleveland, Ohio (383.4), 6-7 p. m., dinner dance unusic, Philip Spitalny and his Music Box restaurant orchestra; 8:34, plana mesic, Philip Spitalny and his music hox restaurant orchestra.
 WJ, Detroit, Mich. (352.7), 3 p. m., Detroit News orchestra; 6:14, recording orchestra.
 Wictor Recording orchestra.
 Central Time Stations

**Central Time Stations** 

Central Time Stations KFNF, Shenandoah, Ia. (266), 6:30 p. m., program, Shenandoah, Lodie, B. P. O. E. KFRU, Bristow, Okla. (395), 8-10:30 p. m., music, entertalmment. KSAC, Manhattan, Kan. (340.7), 7:20 p. m., Instru-mental trio; 7:30, "Financine of Local Koads," C. H. Scholter, 7:40, Instrumental trio; 7:50, "Regular Caro for Profitable Tractor Work," W. H. Sanders; 8-0, KHSS, Hot Spings Netional Park, Ark. (374.8), Scholter, 11, dance troite, Eastman hotel orchestra. WBAP, Fort Worth, Tex. (475.9), 7:30-8:30, p. m., concert, Miss, Earl Rogera and pupils of Burleson; Scholter, tenor; Jack Farker, tenor; Midway Gardens orchestra; George Dell, bartine; Marry J. Mapp, auto talk; Les Cameron, tenor. WGCO, Minneapolis-St. Paul, Minn. (416,4), 7 p. m.

auto talk; Les Cameron, tenor. WCCO, Minneapolis-St. Paul, Minn. (416.4), 7 p. m., midweck churci service. 35th Street Consregational church; 8-9, program from WEAF; 9, South Dakota night; 10, Original George Osborn'a Nicollet hotel orchestra; 11:30, Eddle Dunstedter, organist. WOAF. Kansas City, Mo. (365.6), 3:30-4:30 p. m., Star's Radio trio; 6-7, address, speaker, auspices Health Conservation association; address, speaker, Mota council; Tell-Mea-Story Lady; Trianon en-scmble; 8-9:13, program, classical music, Star'a Radio orchestra.

orchestra. WEBH, Chicago, III. (370.2), 7-8 p. m., Orlole orchestra; hooks of the day, Lewellyn Jones; nusleal bits, Riviera theater; 9-10, Orlole orchestra; M. S. Szymaczk; Langdon brothers, guitarist; Edgewater glee club;

Frederick Agard, tenor; Marie Kelly, reader; 11-12, Oriole orchestra; Edna Solomon; Marie Kelly, reader; Langdon brothers, guitarists; Frank Sylvano, soloist.
WEMC, Berrien Springs, Mich. (286), 8:15 p. m., Ardice Bentley, plunist; 8:30, Marguerite Bordeau, reader; 8:30, Cardinal Ladies' quartet; 8:55, "What Books Do You Enjoy?" Lyndon L. Skinnet.
WGN, Chicago, III. (370.2), 6 p. m., organ recital, Lyon & Healty; 6:30-7, dinner concert, Dräke concert ensemble, Blackstone string quintet; 8-9, Bose Boehm, soprano; Heien Madison, planist; 10-11, Don Bestor Drake dance orchestra; Milton college glee club.
WHAS, Louisville, Ky. (399-8), 4-5 p. m., selections, Trake concert, and threetor; selections, String Division; chapter, "Billy and Jane."
WHB, Kansas City, Kan. (365.6), 7-8 p. m., "Holding Boys for Manhood," H. Harry Harlan, Northeast "Y community worker; students, Northeast high school.
WHO, Ges Moines, Ia. (526), 6:30-7:30 p. m., Reese-Hunches orchestra; 7:30-9:30, pes Molnes theater symphonic orchestra; Life Radido orchestra, William L. Marsh, director.

 Compar, director; \$:30-9:30, Des Moines theater symphonic orchestra; Frof. Leon A. Dashof, director; W.15.11, Bankers Life Radio orchestra, William L. March, director; W.15. Chicago III. (344.6), 6:30 p. m., Raiph Emerson, orranalit; 5:50, Senate theater studio; 7: Uillaby time, Froid and Glenn; 7:15, WLS Tribo Lone Scouts; 7:40, Robort Lyle Malone, tenor; 8, R. F. D. program, Ford and Glenn, Raiph Emerson, orkanist; 9, John MacArine, bass; 9:10, Wallace Bruce Amsbary; 9:50, George D. Howe, tenor; 9:45, Glenn's Threshers; 10: Sonte Symphony orchestra; 10: 10, Nubs Allan; 10: 20, Grace Wallace; 10:20, Glenn's Threshers; 10: 30, Ford and Glenn time.
 WLW, Cincinnati, Ohio (423), 2:30 p. m., special program at Masis Hall with Radio show; 4. 'Shut In' program; 5. March In this unertail trio; Russian dances, Maxim Kastyluc; Clifford Lang, plankt; Formica entertainment; Walter Esberger's instrumental quartet; the Famous Lylic mills Construction of music; 6, Chicago III. (447.5), 7-30, Johnson Hane, 10: 30, Johnson, II. (447.5), 7-30, Johnson, Farnak W. Walter Baberger's instrumental quartet; 6: 30, bedtime storles, Yal McLauchlin; 6: 50, "Confilet organis; Carl Craven, tenor.
 WCC, Oavenport, Ia. (482.6), 5:45 p. m., edimes; 6: 30, bedtime storles, Yal McLauchlin; 6: 50, "Confilet, of Youth and Age, 'Harry E. Vedder; 9, Mrs, Frank W. Elliott, organis; Miles Peterson, tenor.
 WJS, Jefferson City, Mo. (440.59), 3 p. m., address, George A. Pickens; music, Missouri association.
 WJ, Chicago, III. (447.5), 7-3 p. m., dinner concert, Ralph Williams and his Rainbo Garden orchestra; 10: 10, reganist; Niles Peterson, tenor.
 WJ, Chicago, III. (447.5), 7-3 p. m., dinner concert, Ralph Williams and his Rainbo Skylarks; Rogers Boys, Larry, Billy; Clarence Theders, tenor; Alfred Tweed, harmonica solosi; Melodians, Laure, Eddie, Bennie; Fred A. Jacobsen, monloguist; George A. Little, Scylarks; Vand, Heldians, Clingerman, Little Skylarks. arks, Atlanta, Ga. (428.3), 5-6 p. m., Bonnie Barn-tt's songs and bedtline storles; 10:45, Roy Sulli-

hardt's songs and bedtime stories; 10:30, noy Sun-van trio, features. WSUI, lowa City, la. (483.6), 7:30 p. m., "The Amer-lean Constitutional System," Prof. Frank E. Horack 7:45, "The Psychology of Learning," Prof. F. Knight; 8, "The Appreciation of Literature," Prof. Frank L. Mott,

Mountain Time Station Mountain Time Station KOA. Denver, Colo. (322.4), 8 p. m., Fred Schmitt and his Rialto theater orchestra; 8:10, men's glee elub, University of Denver; Lyric quartet; Tuesday Musical club; "The Florist Shop," KOA studio players; KOA orchestra; 10-12, Joe Mann and his Rainhow-Lane orchestra.

### Pacific Time Stations

Pacific Time Stations
 KFAE, Pullman, Wash. (348.6), 7:30-9 p. m., Gladya
 Fraser, Raymond Howell, violinists; Lillian Pettl-bone, planist; "The Vacuum Tube," Dean H. V.
 Carpenter; "Oats and Barley for the Palouse," Leon-ard Hernauer; "Pointers on Dalry Farming," Prof.
 E. V. Ellington.
 KFI, Los Angeles, Calif. (467), 5:30-6 p. m., Exam-her's musical hali hour; 6:45-7, Raditorial; 7-7:30, Nick Harris, detective stories; 7:30-8, program, Goodwin-Klinger-MacKay company; 8-9, Evening Her-ald dance hour; 9-10, Examiner, popular song night; 10-11, Partick-Marsh dance orchestra, Betty Patrick, bluos singer.
 KEOA, Sauth, Wach, (45), 4 for

10-11, Patrick-Marsh Gance orchestra, Betty Patrick, blues singer.
KF DA, Seattle, Wash. (455), 4-5:15 p. m., Olympic hotel orchestra; 6:45-8:15, Hopper-Kelly company studio program; 8:30-10, Seattle Times atudio program; 8:30-10, Seattle Times atudio program, within hour program; 2:30-4:30 p. m., auditorium service and sermon on Divino Healing, Aimee Semple McPrezon, pastor; 6:30-7:30, children's hour, presenting Helen Edwino and Mary Elizabeth Hughes, Mrs. Rose, planits, (361), 3 p. m., musical program, Cora L. Williams institute; 4-5:30, concert orchestra, Hotel St. Francis.
KGW, Portland, Org. (492), 8 p. m., concert, Mrs. I., W. Waldorf, director; 10, Column's Molody men; Sheffer's Norely String quartet.
KHJ, Los Angeles, Calif. (404.1), 6-6:30 p. m., Art



Hickman's Billmore holel concert orchestra; 6:30-7:30, little stories American history, Prof. Waiter Sylvester Hertzog; Dick Winslow, juvenile reporter; Mickey McBan and Baby Muriel McCormac, screen juveniles; 8-9, program, Pacific Mutual Life Insurance com-pany; 9-10, program, Lincoln Heights Commercial and Industrial association; 10-11, Earl Burnett's Billmore holed dance orchestra.
KLX, Oakland, Calif. (509.9), 6-7, p. m., organ; 8-10, studio program, American theater orchestra; 10-11:30, Sweet's ballroom.
KNX, Hollywood, Calif. (337.6), 5:45-6:15 p. m., Wur-litzer pipe organ studio program, sports talk, Sid Zilf; 6:15-7, dinner hour music; 7-8, Ambassdor hotel concert orchestra, Josef Rosenfeld, director; 8-9, pro-gram, Security Trust and Savings hank; 9-10, KNX feature program; 10-12, Hollywoodland dance orchestra, FVO, San Francisco, Calif. (425.5), 4:30-5:30 p. m., Rudy Selger's Falrmont hotel orchestra; 5:30-6:50, children's hour stories, Big Brother; 7:7:30-8, program, Com Band Instrument company; 8-10, xvlophone solos, "Doc" Willats; Ida Palmer Walker, soprano; Gene James' Rose Room Bowl orchestra.

Thursday, March 12

# Thursday, silent night for: CHNC, KFDM, KFOA, KLX, KOA, WAHG, WBAY, WOWF, WEAO, WEBW, WEMC, WHA, WHAZ, WJY, WLBL, WOO, WOS, WRBC, WSUI.

# Eastern Time Stations

WRBC, WSUI.
Eastern Time Stations
CAAC, Montreal, Can. (425), 4:45 p. m., Windsor hotel dance orchestra; 8:39, Canadian National raliways using CNRM.
KOKA, East Pittsburgh, Pa. (309.1), 6:15 p. m., dinner concert, Broudy's orchestra; 7:30, children's period; 8, program, National raliways using CNRM.
WOKA, East Pittsburgh, Pa. (309.1), 6:15 p. m., dinner concert, Broudy's orchestra; 7:30, children's period; 8, program, National raliways using CNRM.
WBBR, New York, N. Y. (272.6), 8 p. m., Frank Wood, flutist; \$:10, L. M. Brown, soprano; 8:20, International Sunday school lesson, March 15, S. M. Yan Sipma; 8:40, soprano solos, Mrs. L. M. Brown; 8:50, flute solos, Frank Wood.
WCAE, Pittsburgh, Pa. (461.3), 6:30 p. m., dinner concert, William Penn hotci; 7:30, Uncle Kaybee; 7:45, special feature; 8, program from WEAF; 9, Victor artists; 10, concert, Goodrich Silvertow Cord orchestra.
WCAU, Philadeiphia, Pa. (278), 7:30 p. m., concert, N. Snellenburg and company's symphony orchestra; 8:16, recital and his dance orchestra: 10:20, Paul Specht and his dance orchestra; 10:20, Paul Specht and his dance orchestra; 10:20, Paul Specht and his dance orchestra; 10:20, Edward Bromberg, hasso cantate; 4:40-5, children's story, Miss Mary Rauch; 5:5:10, Louis Borsellino, bov violink; 6:47, dinner cmusic, Waldort-Astoria hotel; 7:35-8:10, Raymon O, Hunter, Barlone; 8:30, 8:48, 7:45-8:10, Raymon O, Hunter, Barlone; 8:30, 9:4, 8:48, 4:45-7:59, 9:40, 4:45-7:55, 8:40, 4:45-7:59, 9:40, 4:45-7:59, 9:40, 4:45-7:59, 9:40, 4:45-7:59, 6:30 p. m., Hig Brother Company; 9:10, Victor Talking Machine company; 9:10, Victor and His dance is 3:04-9; 4:45-7:59, 3:30, mass, (475-9), 6:30 p. m., Hig Brother Children's 7:55, Pathe News flashes; 8, from WEAF; 9:40, Victor concert, 10, Goodrich Sivertowa Cord orchestra.
WEAF, Beston, Mass, (475-9)

# (Cent Saturday, 8:15, Wbc, 9, Wbz, Wip; 9:30 10, Koa, Wcco, Wgm Kfoa, Wea Webh, Wo Kgo, Kgw Wibi, 1, 1

DAI

Kgo, Kgy Wlbl; 1, 3 Monday, Veaf, W

Weaf, Wo Weaf; 9:03 Wahg; 9:30 10, Wcco; 10, weco; Klx; 12, К Wbap; 12: Клх.

Tuesday, Cky, Kpo, Wfl, Wjy, Wgy, Woai 10, Wgn, Kfoa, Woa Kgw, Khj, Kfoa; 1, K

Wednesda 9, Kpo, Ww 9:30, Woo; 10, Wcco, Wqj, Wtai 12, Kfi, Ki

Knz. Thursday Wcau, Cnrw, D. Weaf, Weel 20, Woa Wcau; 8:3 Cnrw, Kfi

Nea 9:30, Weaf, 10:7 Wqj; 10:3 Who, Woc; Kgw, Khj 12:15, Kth: Friday, Wlit; 9, Wlit; 9:30 Wls, Weaf, Weaf, W 10:30, 11:45,

Maxim Kastyluck (left) will interpret J dances and sing Russian songs March 11 at Cincinnati. Macy and Scott, the two card above, are called the "Radio Aces" and have so popular with the fans that WGBS has a: to have them appear every Thursday evening Lena Milam, violinist, will be heard on the T and 17 programs of KFDM, Beaumont. The man in the upper right hand corner is the le Fairbanks, Morse and company band. Mr. Lho direct this organization Tuesday at WEBW,



# **BATE BROADCAST FRIDAY BY WEEI**



WGBS, New York, N. Y. (316), 3-3:10 p. m., interview with Kathleen MacDonnell and Betty Ross, Terese Rose Nagel; 3:10-3:20, Geneviere Williams, soprano; 3:20-3:30, "Home Architecture," F. D. Armory; 3:30-3:40, Geneviere Williams, soprano; 3:40-3:50, graphology talk, Louise Rice; 3:50-4, Geneviere Williams, soprano; 6-6:30, Uncle Geebec; 7:30-8:30, Armand Vessey's or-chestra; 8:30-9, "Footlights and Lamplights," Oliver Sayler; 9-9:30, Harry J. Caffrey, tenor; 9:30-11, Russian Eagle orchestra. Genetieve Williams, soprano; 3:40-3:50, graphology talk, Louise Rice; 3:50-4, Genetieve Williams, soprano; 6-6:30, Uncle Geebce; 7:30-8:30, Armand Vecsey's or-chestra; 8:30-9, "Footlishts and Lamplights," Offiver Sayler; 9-9:30, Harry J. Caffrey, tenor; 9:30-11, Russian Eagle orchestra. GY, Schenetady, N. Y. (379.5), 2 p. m., music and one-act play; 2:30, organ recital, Stephen E. Boisclair; 6:30, dinner music, Hotel Ten Evek orchestra; 7:30, review of new books, L. L. Hopkins; 7:45, program. Unitarian church; 8. "Childhood Training," Dr. A. A. Brill, 11:30, Stephen E. Boisclair; organist. HN, New York, N. Y. (360), 12:30-1 p. m., Charles Strickland's Palais D'Or orchestra; 6:30-7, violin solos, Olcott Vali; 7-7:30, Harry Rose and Silver Silpper revue; 7:30-7:35, health talk, Dr. Landis; 8:30-9, Prerglades revue; 9:30-10, O'Meara Gardens' or-chestra; 11-11:30, Connie's Inn revue; 11:30-12, Wig wam club revue; 12-12:30 a. m., Parody club revue and orchestra.

7: y;

and orchestra. (1P, Philadelphia, Pa. (508.2), 3 p. m., recital, students Philedelphia Musical academy; 4, Harmonica band; 6:05, Benjamin Franklin comert orchestra; 7, Uncle Wib's bedlime stories; 8:15, Philadelphia Police hand; 10:05, "The Concentration of Human Vision," Dr. J. F. Nelli, Jr.; 11, Harvey Marburger' dance or-chestra.

chestra. 17. New York, N. Y. (405.2), 7:30-8 p. m., Ralph Destefant and his Penatiquit Point inn orchestra 8:13-8:30, "American Fishes," Barton A. Ben of Smithsonian institute; 9:45-10, American Pen Women

Barton A., Bear of Smithsonian Institute 9:43-10, American Pen Women program.
WiZ, New York, N. Y. (454.3), 4-4:15 p. m., Edith Marlon, soprano; 4:15-4:30, Rahph Thomas, tenor; 4:30-5:30, Bernhard Levitov's Hotel Commodore tea orchestra; 7-7:55, Bernhard Levitov's Hotel Commodore tea orchestra; 7:55-8:25, 'New Brains for Old.'' John B. Kennedy of Colliers; 10:30-10:45, Josephine Evans, contralito; 1:145-12, songs, Olga Steek.
WKAQ, San Juan, P. R. (394.5), 2 p. m., concert, La Cafetera.
WLIT, Philadelphia, Pa. (394.5), 2 p. m., concert, La Cafetera.
WIT, New York, N. Y. (655), 12 midnight, Murray Whiteman's Midnight serenaders.
WNYC, New York, N. Y. (655), 12 midnight, Murray Whiteman's Midnight serenaders.
WONC, New York, N. J. (405), 6:15-7:15 p. m., from Cooper's Country cub orchestra.
WGC, Washington, D. C. (468.5), 6:45 p. m., organ recital, Mary E. Vogt.
WGE, Westen Mubassador, Speakeri, 10:45, dance music, Jacques Green and his Club Deauville orchestra;
WHEC, Lassington, D. C. (468.5), 6:45-9:45, dance music, Jacques Green and his Club Deauville orchestra;
WHEC, Lassing, Mich. (285.5), 8:15-9:45, p. m., Reo Brondesting, company contextored.

portunity, the Source that Produces Great Men," Pres. J. C. Futrali, "Relation of Electricity to Agriculture," W. J. Miller: "The Project as a Method of Training," G. N. Cade KFNF, Shenandosh, la. (266), 6:30 p. m., Seedhouse encoder concert. KFRU, Bristow, Okla. (395), 10:30-11:30 p. m., pipe

KTHS, Hot Springs National Park, Ark. (374.8), 3:30-10 p. m., concert; 12:15-1:15, Phil Baxter's Sing-ing orderestra.
WBAP, Fort Worth, Tex. (475.9), 7:30-8:30 p. m., Grapevine Municipal band, C. E. Stewart, director: 9:30-10:45, Panther City Hawailan trio.
WBCN, Chicago, 111, (266), 7-8 p. m., Chicago mixed quartet; Miyrla Peck, soprano; 8-1, Merle Yagle, planist; Midway Gardens orchestra; Aivina Becker, soprano; Larry Loser, tenor; Gene Ballard, con-traito; Limerick griss; Elmer Jordan, business talk; Al Phillips, tenor; Louis Clark, tenor; Lindsay McPhail, composer; Art Schuert, harmonica solist; Honolulu serenaders; Lew Butler, tenor.
W CAL, Northfield, Minn, (336:9), 9 p. m., Margaret Hoizaard, planist; Bernice O'Hara, violinist; Florence Hotvedt, soprano; Milton Soelberg, bass.
W CBD, Zion, III. (344.5), 8 p. m., celestlal bells; G. R. Sparrow, tenor; Mirs, G. R. Sparrow, contraito; Arthur Rendall, clarinetist; Lillian Detlenne, reader; Richard F. Hire, planist.
W CGO, Minneapolis-St. Paul, Minn. (416.4), 7-10 p. m., national program from WEAF.
W DAF, Kansas City, Mo. (365.6), 3:30-4:30 p. m., Star's Radio trio; 6-7, address, book talk, Louis Mecker; Tell-Me-a-Story iady; Tianon ensemble; 11:45-1. Nightawk frolic, Merry Old Chlef, Plan-tation players.
W EBH, Chicago, III. (370.2), 7-8 p. m., Oriole or-chestra; Dan Russo, violinist; Ted Fiorito, celeste solisi; musical bits, Rivira theater; 9-10, Oriole orchestra; Banks Kennedy, soloist; Dean Remick, planist; Loos brothes.
W GN, Chicago, III. (370.2), 6 p. m., organ recital, planist; Loos brothes.
W GN, Chicago, III. (370.2), 6 p. m., organ cedtal, planist; Loos brothes.
W GN, Chicago, III. (370.2), 6 p. m., organ cedtal, planist; Loos brothes.

miller, accompanisi; John Stamford, tenor; 11-12, Oriole orchestra; Banks Kenncky, soloist; Dean Remick, planist; Loos brothers.
WGN, Chickago, III. (370.2), 6 p. m., organ recital, Lyon & Healy; 6:30-7, dinner concert, Drake concert ensemble. Blackstone string quintet; 8-9, Signal Section, American Railway association banquet; 10-11, Don Bestor Drake dance orchestra.
WGST, Atlanta, Ga. (270), 7-8 p. m., Edith Moore, soprano; Mrs. J. O. Sanders, violinist; "The American Folk Balkad." W. L. Simmons.
WHAS, Louisville, Ky, (399.8), 4-5 p. m., selections, Louisville Conservatory of Music; 7:30-9, concert, auspices, Mrs. J. E. Harmon, Jr.
WHB, Kansas City, Mo. (365.6), 7-8 p. m., "The Biggest Single Business in the World," William E. Morton; 8-10, Mrs. B. I. Brooks, planist; Bernard McCarty, planist; vocal selections, Mrs. R. A. Penningto.
WHO, Des Moines, Ia. (526), 11-12 midnight, dance program, Cotillion ball room orchestra, Gale Fitch, director.

director. WLS, Chicago, III. (344.6), 6:30 p. m., Ralph Emerson, organist; 6:50, Senate studio; 7, Woodshed theater; 7:20, Dorothy Bell, harpist; Phyllis Campbell, con-

7:20, Dorothy Bell, harpist; Phyllis Campbell, con-traito.
WLW, Cincinnati, Ohio (423). 4 p. m., French lesson, Madame Ida Tcimpidis; Adelaide Apfel, pianist; 6, dinner hour concert, Selinsky instrumental quintet; 10, three minute message, Civil Service Dept., United States government; 10:03, Cooper corporation concert program; Cooper concert orchestra and male quartet: Larry Grueter, plano-accordion solos; Doherty melody boys.

Might, "Pan-American union; United States army band; Mexican ambassador, speaker; 10:45, Argues Green and his Club Deauville orchestra; Cark's Hawailans.
WREO, Lansing, Mich. (285.5), 8:15-9:45 p. m., Rea Broadcasting orchestra; 6, Statu Carker, Cark, Carker and Carker, Carker and Carker a

### Index to Popular and Classical Concerts

TABULATED below is a time table of the stations giving popular and classical concerts this week. The concerts are divided into two classes, popular and classical. Stations are likewise divided into the four different standard times in use. The hours are given in the kind of time in use at each listed station. By using this table as an index and referring to the complete programs below, full information will be obtained.

### Popular

Pop Eastern Time Stations Saturday, March 7: 6:30, WGBS; 8:30, WNYC: 11, WGBS; 12, WAHG. Sunday, March 8: 7:20, WEEL; 8:15, WEAF: 9, WNYC; 10, WNYC. . Monday, March 9: 6:40, WGY; 3, WAHG; WEAF: 9:30, WCX; 8:45, WAHG; 9, WEAF; 9:45, WAHG; 10, WAHG; 9, WEAF; 9:45, WAHG; 10, "Tuesday, March 10: 7:10, WEAF: 7:30, WCX; 7:35, WNYC; 8, WCAU, WCX; 8:30, WCAE, WEAF, WEEI, WFI; 9, WEAF, WEEI, WFI; 11, WIP. Wednesday, March 11, 11,

WIP: Wednesday, March 11: 7, WGY; 8:30, WCX; 8:45, WCAU; 9, WAHG, WEAF; 10, WAHG. Thursday, March 12: 7, WCAE; 8:30, WCX, WEAF; 11:45, WJZ. Friday, March 13: 6:05, WIP; 8, WEAF; 8:15, WGY; 8:30, WAHG; WCX, WJY; 9:20, WCAU; 10:15, WAHG; 10:30, WJZ.

**Central Time Stations** 

Central Time Stations Saturday, March 7: 7:20, WLS; 8, WBCN, WLS, WMAQ; 8:30, WFAA; 9, WBCN, WEBH, WLS, WOAW; 10, WBCN, WEBH, WQJ; 11; 4, WBCN, WEBH, WQJ; 11; 4, WBCN, WEBH, WQJ; 1, WQJ; 2, WQJ. Sunday, March 8: 8, WBCN; 9, WBCN; 11, WBAP; 12, WHB. Monday, March 9: 6:30, WOAW; 9:30, WBAP, WOAW; 11:45, WDAF; Tuesday, March 10: 8, WEBH, WCCO: 8:30, WLW; 9, CKY, WEBH, WLW: 9:40, WLS; 10, WEBH, WLS; WOAW, WQJ; 10:40, WLS; 11; WEAF; 12, WEBH, WLS, WQJ; 1; WQJ.

Eastern Time Stations Saturday, March 7: 6, WCX, WEAF, WGR: 6:30, WCAE, WFI: 7, WEAF, WRC; 7:30, CKAC, WEZ, WLIT; 7:45, WCAE; 7:50, WEAF: 8, CNRO, WEZ: 8:15, WEAF, WIP, WJZ; 8:30, CKAC, KDKA, WCAE, WJZ, WRC, WWJ: 8:45, WBER; 9, WEZ, WJZ, WNYC: 9:15, WEZ; 9:30, WJZ; 9:45, WEZ, WGBS: 10, WJZ; 10:30, WGBS; 11:05, WHP: 11:15, WRC. Sunday, March 8: 6, WCAU; 6:30, KDKA. WCAE; 7:30, WGY; 8, WJZ; 8:15, WJZ; 8:45, WGY; 9:15, WEEI; 9:20, WEAF; 9:30, WBBR; 10:10, WBBR. Monday, March 9: 6, WEAF; 6:30.

WBBR. Monday, March 9: 6, WEAF; 6:30, WCAE, WFI; 7, WEAF, WEAR; 7:30, KDKA, WGY, WOO; 7:45, WCAE, WNYC; 8, WBBR, WMAK, WOO, WTAM; 8:15, WAHG; 8:30, CHNC, WAHG, WCAE, WEAF, WLIT; 9, WCAE; MTAM; 9:30, WLIT; 10, WCAE; 10:03, WOO; 11, WCAE, WTAM; 11:30, WAHG. Tuesday, March 10: 6 WCX WEAF

WTAM; 11:30, WAHG. Tuesday, March 10: 6, WCX, WEAF, WTAM, WWJ; 6:30, WCAE, WFI. WGY; 7, WEAF, WEAR, WRC; 7:20, WEAF; 7:30, CKAC, WCAU, WEAF; 7:40, WGY; 7:45, WCAE; 8, KDKA, WCAE, WEAR, WEEL, WFI, WKAQ, WWJ; 8:15, WJY; 8:20, WCAU; 8:30, CKAC, WGBS; 8:40, WCAU; 8:45, WNYC: 9, KDKA, WCAE, WCAU, WGES, WJZ, WRC; 9:15, WIP; 10, KDKA, WCAE. Wednesday, March 11: 6, WCAU

WGBS, WJZ, WRC; 9:15, WIP; 10, KDKA, WCAE. Wednesday, March 11: 6, WCAU, WCX. WKAQ, WEAF, WWJ; 6:05, WIP; 6:15, KDKA; 6:30, WCAE, WFI; 7, CNRO, WEAR; 7:30, WEAF, WOO; 7:45, WCAE: 8, WAHG, WEAF, WEAO, WEEL, WTAM; 8:10, WCAU 8:25, WJZ; 8:30, KDKA, WCAE, WOO; 9, WCAE, WEAO, WEEL; 9:40, WCAU; 9:45, WNYC; 10:03, WOO; 10:05, WCAU; 10:15, WJY; 10:30, WCAE. Thursday, March 12: 6, WCX, WEAF, WTAM, WWJ; 6:05, WIP; 6:30, WCAE WFI, WGY, WKAQ; 7, KDKA, WEAR, WEEI, WRC; 7:30, KDKA, WCAU, 7:45, WCAE, WEAF, WEEI, WFI, WRC; 8:15, WCAU, WIP; 3:30, CKAC, CNRW, WEEI, WNYC; 8:40, WBBR; 8:50, WCAU; 9, WCAE, WEAR, WEAF, WEEI, WFI, WGBS; 9:45, WJY; 10, KDKA, WCAE, 10:15, CNRC; 10:30, WJZ; 11:30, WGY. Friday, March 13: 6, WCX, WEAF, WWL; 6:30, WCAE, WEAF, WCAE, WCAF,

11:30, WGY. Friday, March 13: 6, WCX, WEAF, WWJ; 6:30, WCAE, WFI; 7, WCAU, WEAF, WEAR, WGY, WJY, WWJ; 7:25, WEEI; 7:30, WOO; 7:45, WEAF, WGY; 8, WEAR, WEEI, WNYC, WOO; 8:10, WCAU; 8:30, CNRT, KDKA, WCAE; 8:40, WEAF, WJZ; 9, WAHG, WNYC; 10:03, WOO; 10:15, WEAF; 10:30, WGY; 10:45, WEAF.

### **Central Time Stations**

Saturday, March 7: 6, WGN, WLW; 6:30, KFNF, WGN, WOAW; 6:45, WOAW; 7, KYW, WBCN, WEEH, WQJ; 7:30, WHAS, WMC; 8, KSD, KYW, WGN; 8:30, KTHS, WCCO; 9,

War Wednesday, March 11; 8, WCCO, WLW; 9, WEBH, WCCO, WLW, WMAQ; 9:30, WBAP; 10, WEBH, WQJ; 10:10, WLS; 10:40, WLS; 11, WEBH, WQJ; 11:30, WEBH; 12, WEBH, WQJ; 1, WQJ. Thursday, March 12: 7, WLS; 9, WEBH, 9:30, WBAP; 10, WEBH, WQJ; 11, WEBH, WQJ; 11:45, WDAF; 2, WEBH, WQJ; 1, WQJ. Friday, March 13: 6:30, WOAW; 7:30, WBAP: 8, WDAF; 9, WEBH, WQAW: 9:30, WLS; 10, WEBH, WQAW: 9:30, WLS; 10, WEBH, WQJ; 10:40, WLS; 11, WEBH, WMC; WQJ; 11:45, WDAF; 12, WEBH, WQJ; 11:45, WDAF; 12, WEBH, WQJ; 1.

Mountain Time Stations Monday, March 9: 8:10, KOA; 10, CFAC.

Tuesday, March 10: 7:45, CFAC; 10, CFAC.

### Thursday, March 12: 9, CFAC. Friday, March 13: 8:10, KOA.

Pacific Time Stations Saturday, March 7: 8, KFI, KGO, KHJ; 9, KNX; 10, KFI; 11, KHJ, KNX; 1, KNX. Sunday, March 8: 7, KFI. Monday, March 9: 8, KFI; 8:30, KFOA; 9, KFI, KNX.

KFOA; 9, KFI, KNX. Tuesday, March 10: 7, KNX; 8, KGO, KHJ, KNX; 9, KNX; 10, KFI, KNX. Wednesday, March 11: 7:30, KFI; 8, KFI, KPO; 9, KFI, KHJ, KNX. Thursday, March 12: 7, KFI; 8, KGO, KHJ; 9, KNX; 9:30, KHI. Friday, March 13: 8, KGO, KNX, KPO; 8:30, KFOA; 10:30, KGW.

Classical

sical WMAQ. WOC; 11, WFAA; 11:30, WMAQ. WOC; 11, WFAA; 11:30, WOAW; 12, WCAL, WLS. Sunday, March 8: 6:30, WLS; 7, K, W. WBCN, WEBH, WLS, WORD; 8, WCBD, WQJ; 8:15, WEMC; 8:30, WCAL, WLW; 8:45, WFAA; 9, KFDM, WGN, WHB, WOAW, WQJ, WSU; 9:15, WCCO; 9:30, WFAA, WOAI; 12:30, WHE. Monday, March 9: 6, WGN, WLW, WMAQ, WOAW; 7:30, KFNF, WGN; 7:30, WHO, WRBC; 8, WCED, WEBW, WLW, WORD; 8:15, WEMC; 8:50, WMC; 9, KSD, WOAW; 9:30, KFKX; 11, WCAL; 11:15, WHO. Tuesday, March 10: 6, KSD, WDAF, WGN, WLW, WMAQ; 6:25, WOAW; 9:30, WCCO, WGN, WLS; 7, VEBH, WQJ; 7:30, WBAP, WEBW, WHAS, WHE, WLS; 8, CKY, KFDM, WGN; 9, KFMQ, KSD, WHE, WOAW; 9:31, WAAQ; 9:30, WEAP, 10, 0, WHE. Wednesday, March 11: 6, WGN, WHAQ; 6:30, KFNF, WGN, WLS; 6:50, WHS; 7, WEBH, WQI, 7:30, WBAP, WHAS, WHO; 8:45, WEMC; 9, WOC; 9:30, WEAP; 11: 6, WGN, WAAQ; 6:30, KFNF, WGN, WLS; 6:50, WHS; 7, WEBH, WQI, 7:30, WAAQ; 6:30, KFNF, WGN, WLS; 6:50, WHS; 7, WEBH, WQI, 7:30, WAAQ; 6:30, WFAP; 10, 0, WHE; 9, WCC, 9:30, WEAP; 11: 30, WCCO. Thursday, March 12: 6, WGN, WLW, WMAQ; 6:30, KFNF, WGN, WLS; 9, WOC; 9:30, WLS; 11:30, WCCO; 9, WCC, WOJ; 7:20, WLS; 7:30, WHE, WHAS; 8, CKY, KSAC, KSD; 8:50, WHO; W: 9:35, WHAQ, WMC; 9; 8:51, WOI; 8:30, WMAQ, WHE; 9:30, WEAP, WHAS; 5, WMAQ; 9:30, WEAP, WHAS; 5, WAAQ; 9:30, WEAP, WHAS; 5, WAAQ; 9:30, WEAP, WHAS; 6, CKY, KSAC, KSD; 8:50, WOC; 9:30, WLS; 7, WEBH, WGN; 8:55, WOC;

Monday, March 9: 8, CFAC. Wednesday, March 11: 7:45, CFAC; 8:10, KOA. Thursday, March 12: 9:30, CNRC. Friday, March 13: 8:10, KOA.

### Pacific Time Stations

Pacific Time Stations Saturday, March 7: 6, KHJ; 6:15, KNX; 6:45, KFOA; 8, KNX; 9, KFI. Sunday, March 8: 6:30, KHJ; 7, KGW, KHJ, KNX; 8, KFI, KHJ, KNX; 8:30, KPO. Monday, March 9: 6, KLX; 6:15, KNX; 6:45, KFOA; 7, KNX; 8, KNX, KPO; 9, KPO. Tuesday, March 10: 6, KHJ; 6:30, KNX; KPO; 8:30, KGW; 9, KFI; 9:30, KHJ. Wednesday, March 11: 6, KLX;

KHJ.
Wednesday, March 11: 6, KLX;
6:15, KNX; 6:45, KFOA; 7, KNX;
7:30, KPO; 7:45, KFI; 8, KGW, KHJ,
KLX, KNX; 9, KFI.
Thursday, March 12: 6, KHJ; 6:30,
KNX; 8, KFI, KGW, KNX, KFO 9
KPO; 10, KFI.
Friday, March 13: 6, KHJ, KOA;
6:30, KNX; 6:45, KFOA; 7, 100
7:45, KLX; 8, KHJ.

# BOSTON U.-DARTMOUTH COLLEGE DEBATE BROADCAST FRIDAY BY WEEI

### Index to Talks, Lectures and Addresses

TABULATED below is a time table of the stations giving talks, lectures and addresses this week. These range from the instructive and serious to the humorous and frivolous. The stations listed are divided into the four different kinds of time in use. The hours are given in the kind of time in use at each listed station. By using this table as an index and referring to the complete programs below, full information will be obtained.

March 7: 7:15, WBZ: (A: 8, WIP, WJY, WRC; YC: 8:20, WBBR: 8:30,

ch 9: 7:15, WGY: 7:35 JZ, 8:10, WJZ; 8:15 JZ; 9:20, WLIT; 9:30

8:15, WCAU: 8:30, WRC: 10, WJZ; 10:10, WNYC: ay, March 11: 8:45, WGY; WJZ: 8:15, KDKA: 8:30, NYC: 8:40, WCAU; 10, WCAU. 10:15, WCAU, stay, Mirch 12: 7:30, WEAF, 7:55, WJZ: 8, CNRT, WHY, 8:15, WJY; 8:30, WHES; (AH: 10:05, WHP, y, March 13: 7, WDWF, WJZ, 7:30, WGY; 8:10, WLHY; 8:16, 8:30, WEAF, WHEH: 8:16, WJZ; 10:10, WEAF, WNYC.

Central Time Stations

 March 7: 6, WDAF: 8:50,
 WOAW; 8, WCCO; 8:30,
 WMAQ: 9:05, KYW; 8:15, ch 8: 6, WOAW.

### Tuesday, March 10

### (Coulinged from page 11)

Pacific Time Stalions

### Wednesday, March 11

Contral Time Stations nandeah. la. (268), 6:30 p. m., peogra 1 Ixalge, lt. l'. O. E. 1tow, Okin. (395), 8-10:30 p. m., mu SIIONI NIGHI for: CHNC. CKA FKU. KFKX, KFMQ, KGO, KSB (DWF, WEBW, WFAA, WFI, W MAQ, WNIC, WDAW, WOAI, WO ittan, Ken. (340.7), 7:20 p. m., Inst

### Eastern Time Stations

### Pittsburgh, Pa. (369.1), 6:15 p. m., d Fittsburgh Athletic association; 7: wind: S. C. address University of Pit

troil, Mich. (\$16.9), 4:15 p. m., nusical pro

OAF. ew York, N. Y. (492), 11:35-11:45 a. m., lal

(OAW: 7, Maroh 10: 8, WDAF, CCO: 7:45, WCCO: 8, WLS, WNAQ, MC: 8:50, WMAQ, Wednesday, March 8:50, WMAQ. nesday, March 11: 8:50, WOC: 18: 7:30, KSAC. WSUI: 7:45 8, WLS, WMAQ, WOS, WSUI: VIANC (35) WOMC Tharsday, March 12: 8, WDAF; 7, VHB; 716, KFKU; 7:30, CKY, VFKU, KFNO, KSAC; 7:45, KFKU; WMAQ; 8:45, WMAQ; 8:50, WMAQ; Friday, March 13: 8, WDAF; 8:50, VGC; 7:30, CKY, KSAC; 8, WLS, VGS; 8:30, WCAL.

Mountain Time Stations Conday, March 9: 8:30, KOB. Vednesday, March 11: 8:30, KOB: Friday, March 13: 8:40, KOA; 8:30,

Pacific Time Stations Saturday, March 7: 8:20, KPO; 8:30, 14, KPO: 7:45, KFI. Sınday, March 8: 6:30, KPO, Monday, March 8: 6:45, KFI; 8, 10, KLX.

 NGO, KLX.
 Tnesday, March 10: 8:30, KHI.
 NP(1): 8:45, KF1: 7:30, KNX; 8, KGW.
 Wodnesday, March 11: 8:30, KHJ.
 NPO: 8:46, KF1: 7, KFI.
 Thursday, March 12: 8:30, KHJ:
 0:45, KH1; 0:45, MAI: Friday, March 13: 8:30, KHJ, KPO;

Philadelphia, Pn. (508.2), 3 µ. m., roelial, stur

Dhia (389.4), 9.3 p. m., di

tor Work," W. H. Sauders;

National Pork, Ark. (374.8

San Juan, P. R. (340.7), 7-9 p. m., Munici detphin, Pa. (394.5), 2 p. m., Arcadia

illo p. m., organ

nts, Ga. (428.3), 5.6 p. m., Bonnie Ba

(IIII:6: 117, 1a. (483.6), 7:30 p. m., "The Am utional System," I'rol. Frank E. Hora Psychology of Learning," I'rol. P. "The Appreciation of Literature," Fr

### Mountain Time Station

### Pacific Time Stalions

nan, Wash. (340.8), 7:30-0 p. m. symond Bourelt, clollnists; Lillia Isl; "The Vacuum Tole," Dean "Casts and Barley for the Palouse

lis-Si, Psul, Minn. (416.4), 7 p. m sas City, Mo. (355.6), 3:30-4:30 p. m Ito trlu; 6-7, address, speaker, muple

(EBH, Chicage, III, (370.2), 7.8 p. m., Orloto orches



### Thursday, March 12

hursday, sileni nisht for: CHHC, KEDM, KFOA, KLX KOA, WAHO, WBAY, WDWF, WEAC, WEOW, WENC, WHA, WHAZ, WIY, WLBL, WOO, WOS, WRBC, WSUI. Eastern Time Stations

reni, Can. (425), 4:45 p. m., Winsertra; 8:30, Canadian National littsburgh, Pa. (309.1), 6:15 p. m

DANCING (Central Time)

Kpo, 9:15, Woo; 11:30 Kihs: L

10: 9. Weel. 9:30, Wrc:

Ego. 12:05.

uth 12: 8. Main: II. E. Kro. Enr. Kpo:

13: 8:39, : 9:03, Wahs, Wid:

Central Time Stations peg, Can. (450), 7:30 p. m., Free A. C. do la Lande: S. Canadiau

(394.5), 2 p. m., Ar-2:30, Irena Sharer, son

(265.5), 12 midnight, Mur

J. (405), 6:15-7:15 p. m., To

colostial lici

Minn. (416.4), 7-10 p. :

11. (370.2), 7.8 p. m., Ortole a

### Index to Popular and Classical Concerts

TABULATED below is a time table of the stations giving popular and elassical concerts this week. The concerts are divided into two classes, topular and classical. Stations are likewise divided into the tour different standard times in use. The hours are given in the kind of time in use at each listed station. By using this table as an index and referring to the complete programs below, full information will be obtained.

### Popular 📉 👟

Eastern Time Stations ay, March 9: 126, WERT; 815,
 9. WNYC; 10, WNYC
 ay, March 9: 8:40, WCY: 8,
 WEET; 8:30, WCX; 8:45,
 9. WEAF; 9:45, WAHG; 10, day, March 10: 7:10, WEAF; WCN: 7:35, WNYC: 8, WCAU, 8:30, WCAR, WEAF, WEEI, 9, WEAF, WEEI, WFF; 11,

March 11: 7, WGY;
 X; 8:45, WCAP; 9, WAHG,
 10, WAHG.

WRAF: 8:15, W17: 8:00, WAR: WRAF: 8:15, W17: 8:00, WAR: WCX, W17: 9:20, WCAU; 10:15, WAR: 10:30, WJZ,

Thursday, March 12: 9, CFAI Friday, March 13: 0:10, KOA Central Time Stations turday, March 7: 7:20, N. WI.S. WMAQ: 8:30, BCN, WEBH, WLS, WO

Pacific Time Stations Saturday, Mapel: 7: 8, KFI, KUO, 1J: 9, KNN; 10, KFI; 11, KUJ, VN: 1, KNN. WEBH, WQJ: 11:45, WDAH N, WEBH, WQJ; 1, WQ,

Mounlain Time Stations onday, March 9: 8:10, ROA; 10,

uesday, March 10: 7:45, CFAC: 10,

anday, March 8: 7, KFL, onday, March 9: 8, KFL, 84: 9, KFL, KNN. sday, March 10: 7, KNN, 8, KUL, KNN: 9, KNN: 10, KFL

### Classical

); 11 WCAE

WJZ, WBC; 9:15, WIP; VCAE.

9:45, WNYC; 10:03, WOO; WCAU; 10:15, WJY; 10:30

Mountain Time Stations Ionday, March 0: 8, CFAC, Vsdnesday, March 11: 7:45, CFA hursday, March 12: 9:30, CNBC riday, March 13: 8:10, KOA.

Pacific Time Statio

# Cooper's Country club orchestra. WRC, Washington, O. C. (468.5), 6:45 p. m., children's hour, Pergy Alhion; 7. Lee House trio; 8, "Mexican Nicht," Pan-American union; United States army band; Mexican ambassador, speaker; 10:45, dance music, Jacques Green and his Club Deauville orchestra; Clark's Hawalians. WREO, Lansing, Mich. (285.5), 8:15-9:45 p. m., Reo Broadcasting orchestra; Reo male quartet. WTAM, Cleveland, Dhio (389.4), 6-7 p. m., Hotel Statler studio dinner music, Maurico Spitainy, director. WWJ, Detroit, Mich. (352.7), 3 p. m., Detroit News orchestra; 6, dinner concert; 8, concert from WEAF.

9.

10, u; iD, 1, ;0, 10;

10, 13, 12, 12; 11; 11; 11, 1,

orchestra; 6, dinner concert; 8, concert from WEAF. **Central Time Stations** CKY, Winnipeg, Can, (450), 7:30 p. m., French lec-ture, Prof. A. C. do la Lande; 8, Canadian National Rallways program (CNRW). KFKU, Lawrence, Kans, (275), 6:50 p. m., plano tuning-in number; 7, music; 7:15, 'Hardy Herbacoous Per-ennials for the Flowor Gardien,' Prof. W. C. Stevens; 7:30, 'Early History of Chemical Anaesthetics,'' Dr. F. B. Dains; 7:45, educational psychology, lesson X, Demn R. A. Schwergler. KFKX, Hastings, Nebr. (288.3), 9:30-11:30 p. m., Islent from Holdredo. KFMQ, Fayetheville, ArK. (299.8), 7:30 p. m., Pbi Mu mororliy; 'How Much Training Should a, Primary Tewener Have?' Lolis Armstrong; 'Educational Op-

 Latry Grueter, plano-accordion solos; Doherty melody boys.
 WMAG, Chicago, Ill. (447.5), 6 p. m., Chicago theater organ recital; 6:25, Hotel LaSalle orchestra; 6:30, Daddy; 8, garden taik, James H. Burdett; 8:15, Western Railways commission; 8:30, Jane P. Fritch, soprano; 8:45, taik on income tax; 8:50, University of Chicago lecture; 9:15, program, Edgewater glee club.
 WOAI, San Antonio Tex, (394.5), 9:30 p. m., program, Methodist orphanage.
 WOAI, San Antonio Tex, (394.5), 9:30 p. m., Jimmie Joy's Hotel St. Anthony orchestra.
 WOAV, Omaha, Nebr. (3:64), 5:45 p. m., public news period, Eugene M. Konceky; 6, every child's story hour, Grace Sorenson; 6:20, to be announced; 6:45, dinner program, Randall's Royal Fontenelle orchestra; 9, Omaha Technical high school band, H. W. Wendhand, director; 10:30, Frank W. Hodek, Jr., and his Nightingale orchestra.
 WOC, Oavenport, Ia, (483.6), 5:45 p. m., chimes; 6:30, sandmar's visit; 7, nusical program, WEAF; 11, Lonis Connor and his LeClaire hotel orchestra; Peter MacArthur, baritone.
 WOI, Ames, Ia. (270), 8:15 p. m., musical program.
 WOCH, Batzvia, Ill. (275), 8:90 p. m., Prosytorian church choir; international Sunday school losson, G. L. Pyle.
 (Continued on page 14) Larry Grueter, piano-accordion solos; Doherty melody

(Continued on page 14)

W1F, 0:30, CRAC. CARW, WELL, WNYC; 8:40, WBBR; 8:50, WCAU; 9, WCAE, WEAR, WEAF, WEEL, WFI, WGBS; 9:45, WJY; 10, KDKA, WCAE; 10:15, CNRC; 10:30, WJZ; 11:30, WGY.

WCAE: 10:13, CNRC, 10:30, W32, Friday, March 13: 6, WCX, WEAF, WWJ; 6:30, WCAE, WFI: 7, WCAU, WEAF, WEAR, WGY, WJY, WWJ; 7:25, WEBI; 7:30, WOO; 7:45, WEAF, WGY; 8, WEAR, WEEI, WNYC, WOO; 8:10, WCAU; 8:30, CNRT, KDKA, WCAE: 8:40, WEAF, WJZ; 9, WAHG, WNYC; 10:03, WOO; 10:15, WEAF; 10:30, WGY; 10:45, WEAF.

### Central Time Stations

Saturday, March 7: 6, WGN, WLW; 6:30, KFNF, WGN, WOAW; 6:45, WOAW; 7, KYW, WBCN, WEBH, WQJ; 7:30, WHAS, WMC; 8, KSD, KYW, WGN; 8:30, KTHS, WCCO; 9,

 Jations

 Saturday, March 7: 6, KHJ; 6:15,

 Sunday, March 8: 6:30, KHJ; 7,

 Sunday, March 8: 6:30, KHJ; 7,

 KGW, KHJ, KNX; 8, KFI, KHJ,

 KNX: 8:30, KPO.

 Monday, March 9: 6, KLX; 6:15,

 KNX: 6:45, KFOA; 7, KNX; 8, KNX,

 PO: 9, KPO.

 Tessday, March 10: 6, KHJ; 6:30,

 KNX; 6:45, KFOA; 7, KFI; 8, KFI,

 KNX; 6:45, KFOA; 7, KNX;

 KNX; 6:45, KFOA; 7, KNX;

 Yild

 Wednesday, March 11: 6, KLX;

 6:15, KNX; 6:45, KFOA; 7, KNX;

 Yild

 March 12: 6, KHJ; 6:30,

 KNX; 8, KFI, KIW, KNX, KPO

 KNX; 8, KFI, KIW, KNX, KPO

 KNX; 8, KFI, KIW, KNX, KPO

 KNX; 8, KHJ, March 13: 6, KHJ, KMA

 Sido, KNX; 6:45, KFOA; 7, WI

 Sido, KNX; 8, KHJ,

 Yild

 KY, KNX; 9, KFI

 Thursday, March 13: 6, KHJ, KMA

 KY, KNX; 9, KHJ,

 Yild

 Yild

 Yild

 KY, KY, S,

EBH,

A; 10, LC; 10, 3.

KGO, KHJ.

8:30. X; 8, KFI,

KFI; NX, FI; 8, J. KNX,

11:30,

LS; 7, 'ORD; 8:30, A; 9, WQJ, VFAA,

WLW, WGN; /CBD, EMC; **9:30,** 

. DAF, OAW; 'EBH, 'HAS, WGN, 'ORD; **9:15**,

WGN, WLS; 7:30, XSAC, EMC; EMC; O, WGN, WGN, EBH, 7:30, KSD, ORD; IC; 9, 9:30,

). MAQ; 'EBH, /HAS, WGN, **9:10**, EMC;

FAC:

NRC.

tations

### (Continued from page 13)

(Contrinded rioin page 10)
 WQJ, Chicago, III. (447.5), 7-8 p. m., dinner concert, Raiph Williams mod his Rafabo Garden orchestra; Mrs. Lydla Lochner, contratio; Edith Buckmaster, ac-companist; Blanche E. Robinson, planist; Mildred Porlin, render; 10-2, Ralph Williams and his Rainbo Skylarks; Lew Butler, Glant of Radhu; Ned and Ches; Marie Wright, soprano; James J. Whalen, tenor; 1-2, Hotsy Totsy hour, Ralph Williams, Ginger-man, Little Skylarks.
 WSB, Atlanta, Ga. (428.3), 5-6 p. m., Vic Myers' melody artists; Bonnio Barnhardt's bedthme stories; N=3:30, Dr. and Mrs. Tom Glbbs Frowler; 8:30-9, Gospei program, Charlie Tilhnan, noted Georgia song writer; 10:45, Dr. Charles A. Sherrin, organist.

Pacific Time Stations

- Pacific Time Stations KFI, Los Angeles, Calif. (476), 5:30-6 p. m., Exam-Iner's musical half hour; 6:15-7. Raditoriał and Y. M. C. A. speaker; 7-7:45, dance orchestra; 7:45-8, elaskeal songs, P-uil Resee; 8-9, program, Standard Oil company of California in charge of Aerlo, Micro-phoneus and Statieus; 9-10, program of old time bal-lads; 10-11, Examiner, dance orchestra. (FSG, Los Angeles, Calif, (Pacific, 278), 10:30-11:30 a. m. sunsilue hour program of 3:30-4:30 p. m., organ recital, Roy Reed Brusnall; 7:30-9:34, 5, auditorium service and baptism, sermon by Aimee Semplo Me-Pherson, pestor; 9:45-10, Gray studio musical pro-tram; 10:11, organ recital, Esther Fricke Green. KGO, Oakland, Calif. (361), 4-5:30, p. m., concert or-chestra, Hotel St. Francis; 8, "Clarence," KGO players; 10-1, dance musie, Henry Halstead's or-coestra.

- chestra,
  KGW, Portland, Ore. (492), S p. m., Oregoniau concert orchestra; 10, Multinomah Hotel Strollers.
  KHJ, Los Angeles, Calli. (404.1), 6-6-30 p. K. Art Hokman's Biltmore hote concert orchesta, Edward Fitzpatrick, director; 0.307-30, Hitle strike, American history. Frod. Walter Sylvester Hertzog, Jayre Coad, reads; Dickle Brandon, seriar club; 9:30-10, Piggly Wiggly girls trio; 10-11, Earl Burtnet's Bilture orchest data and concerts and series and s
- more hotel dance orchestra. KIS, Los Angeles, Calif. (293), 8-9:30 p. m., vocal and Instrumental program arranged, Dr. Books. KNX, Hollywood, Calif. (337.6), 5:45-6:15 p. m., Wur-Itzer pipe organ studio program; sports talk, Sid Ziff; 6:30-7:30, dinner hour musle; 8-9, program, B. H. Dyas corporation; 9-10, KNX feature program; 10-11, Abb Lyman's Cocosput Grovo dance orchestra from Ambassador hotel
- Abb Lyman S Opcostill Grovo dance orchestra 1001 Ambassador hotel. **KPO**, San Francisco, Calif. (429.5), 4:30-5:30 p. m. Rudy Sciger's Fairmont hotel orchestra: 5:30-6:30 children's hour storles; 7-7:30, Rudy Seiger's Fair-mont hotel orchestra: 8-9, Theodore J. Irwin, organist 9-10, program, San Francisco conservatory of music 10-11, Gene James' Rose Room Jowl orchestra.

### Friday, March 13

Friday, silent night for: CFAC, CHNC, CKAC, KFKU, KFKX, KFMQ, KGO, KSD, WBBR, WBZ, WCBD, WEAO, WEBW, WGST, WHAZ, WIP, WKAQ, WLBL, WLW, WRBC, WSUI.

Eastern Time Stations CNRT, Toronto, Can. (356), 6:30-8 p. m., Luigi Roma nelli and his King Edward hotel concert orchestra 8:30-10, Nellye Gill, soprano; George Aldcroft, bari tone; Bilton trio, L. Gelsin, violinist; Lionel Bilton cellist; Simson Joyce, pianist; 9, address; 10:30-12 Luigi Romanelli and his King Edward hotel danc orchestra. :30-12, dan

Luigi Romanelli and his King Edward hotel dance orchestra. KDKA, E. Pittsburgh, Pa. (309.1), 6:15 p. m., Charlle Gaylord's orchestra; 7:30, children's period; 8:15, address, University of Pittsburgh; 8:30, concert; 9, concert, Reick-Mclunkin Dairy company. WAHG, Richmond Hill, N. Y. (315.6), 8-8:15 p. m., Edna Fields, contralto; 8:15-8:30, Maude Mason, planist; 8:30-9, songs and duets, Davison sisters; 9-9:45, M. Lamberti, cellist; 9:45-10, Edna Fields, contralto; 10-10:15, the Radio Question Box, Wm. F. Dichl; 10:15-10:30, songs, Ted Snyder and Bill Heins; 10:30-11:30, dance music. WCAE, Pittsburgh, Pa. (461.3), 6:30 p. m., dlnner con-cert, William Penn holet; 7:30, Uncle Kaybee; 8:30, artists, Malate Post No, 285, Veterans of Foreign Wars.

- Wars. (CAU, Philadelphia, Pa. (278), 7 p. m., Meyer Davis' Hotel Pennsylvania concert orchestra; 8:10, recital 9:20, Musical chefs; 9:40, Helper International Sunday
- Butter tensors, Marken 19:40, Helper International Sunday school lessons.
  WCX, Detroit, Mich. (516.9), 4:15 p. m., musical program; 6, dhnuer concert, Book-Cadiliae hotel; 8:30, musical program; 10, dance musica.
  WDWF, Providence, R. I. (440.9), 8 p. m., lectures and talks of interext, faculty of Brown university.
  WEAF, New York, N. Y. (492), 11:10-11:20 a. m., 'Your Lawn,'' Leonard Barnon; 11:20-11:40, choir of First Methodist church, Ashury Park; 3:50-4:10 p. m., luth Dieterie, soprano; 4:40-5, children's storles; 6-7, 'dinner music, Waldorf-Astoria hotel; 7:7:30, Mozart string quarter; 7:30-7:45, children's storles; 7:45-8, Marjorle Horion Haskelt, soprano; 4:30. Haphiness candy hoys; 8:30-8:10, 'Ntyle,'' Nat Lewis, Inc; 8:10-8:55, Thuck Burnham, planist; 9:-10, B. Fischer and company's Astor Coffee orchestra; 10-10:10, '' How and What to Plant in Your Howe Garden,'' International Flower show; 10:10-10:30, George Dale, tenor; 10:45-11, Haroid Liebermann, violinist; 11-12, Meyer Davis' Lido Venice orchestra.
- Venice orchestra.
   WEAR, Cleveland, Ohio (389.4), 7-8 p. m., Austin J. Wylle and his orchestra; 8-10, program, Ed Day and his Bedford Glens orchestra; Gertrude Lance, planist.
   WEEI, Boston, Mass. (475.9), 6:30 p. m. Big Brother elub; 7:25, musicale; 8, program, Neapolitan Lee Cream company; 8:30, debate, Boston university, Dartmouth college; Boston university band, Bishop Anderson, dimenson,
- ctor, Philadelphia, Pa. (394.5), 3 p. m., lecture, Tyle-Leidgate; Ernestine Bacon, sopranc; readings by Temple Davison; 6:30, Meyer Davis' Bellevue tiford concert orchestra; 7, Sunny Jim, the kiddles'
- Strattord concert outstand, f.
  pal.
  WGBS, New York, N. Y. (316), 10-10:10 a. m., "Timely Talks," "Tcrese;" 10:10-10:20, beauty talk, Mrs Mabelle A. Burbridge; 10:20-10:40, fashion talk Lililan Regan; 10:40-11, E. Nest, planist; 1:30-1:33, p. m., Bible readings; 3-3:10, interview with Florence. Smith Vincent, editor of woman's page Telegram-Mall Uncle Geebee; 6:30-7:30, Larry Funk
- orchestra. GY, Schenectady, N. Y. (379.5), 2 p. m., "Good Taste in Home Decoration," Mildred Gaten Bowen; 7, M. Atmic Decoration," Mildred Gaten Bowen; 7, m, Strand theater orchestra; 7:30, health talk; WGY orchestra; 8:15, "Just Suppose," WGY s; 10:30, Schubert compositions, WGY orchestra; d. A. Rice, violinist; Caryl Marshall, mczzo-o; American trio; Giovanni Trombini, cellist; G. Yettru, planist; string quartet. layers;
- soprano; American trio; Glovanni Trombini, cellist; Ollie G. Yettru, planist; string quartet.
  WHN, New York, N. Y. (360), 6:33-6:35 p. m., vloim eolos, Olcott Vali, 6:55-7:05. Reld's beddine story; 7:05-7:30. Harry Ilchman and his entertainers; 7:30-7:35. health taik. Dr. Landis; 7:135-7:50. eross word puzzle contest; 8-8:15, fashion chats, Mme. Belle; 8:30-9. Dave Harman and his Cinderelia orchestra; 9:30-10. Dan Gregory and his Cinderelia orchestra; 10:25-10:30. "Storare Batteries," H. B. Shontz; 10:30-10; 30-11, Roseland dance orchestra; 11-11:30. Everglades revuce; 11:30-12. Club Alabam orchestra; 12:12:30 a. m., Parody club revue and orchestra; 12:12:12:30 a. m., Parody club revue and orchestra; 10:15, Harvey Marburger and his dance orchestra; 7. Uncle Wir's Marburger and his dance orchestra; 7. Uncle Wir's Marburger and his dance orchestra; 7. Uncle Wir's Marburger and his dance orchestra; 7. WIP, Neime Stork, Store and Store orchestra; 7. WIP, New York, N. Y. (405:2), 8:30 p. m., "Just Suppose," comedy by A. E. Thomas, author, and WGP
  WIZ. New York, N. Y. (454:3), 4:4:15 n. m. Dorle

- Happers, Concey by R. B. Holmas, autout, and work players, VIZ, New York, N. Y. (454.3), 4-4:15 p. m., Dorls Makstein, soprano; 4:15-4:30, Myro Glass, barltone; 7-7:30, Savarin ensemble; 8-8:10, Wall Street Journal refew; 8:10-8:20, NYU Air college; 8:40-9, Virginia Richards, soprano; Vere Richards, tenor; 9-9:15, "Ani-mals," Dr. W. Reid Blair; 10:30-10:45, French Songe, Leo Duran; 10:45-11:30, Duke Yeilman and bis Irene Castle orchestra.

WL17, Philadelphia, Pa. (394.5), 2 p. m., Arcadia cafe concert orchestra; 7:30, Dream Daddy's bedtime stories; 8, book review, Arnold Abbott; 8:10, "Fifteen Minutes of Humor," Sam Wingfield; 9:30, Cotton Pickers' dance orchestra; 10:03, Arcadia cafe dance orchestra; Morning Glory chub concert,
WNC, New York, N. Y. (526), 7:33-8 p. m., resume of meeting of board of estimate; 8-9, studio program; 9-10, German music hour; 10:10-10:20, talk on books, Professor J. G. Carter Troop.
WOO, Philadelphia, Pa. (506.2), 4:45 p. u., organ recital, Mary E. Vogt; 7:30, A. Candclorl's ensemble from Hotel Adelphia; 8, concert from WLAF; 10:03, organ recital, Mary E. Vogt; 10:30, Vincent Rizzo's Hotel Sylvania dance orchestra.
WOR, Newark, N. J. (405), 6:15-6:30 p. m., Bluebird orchestra; 6:30-6:45, Man in Moon stories; 7-7:15, Bluebird orchestra. orchestra; 6:30-6:45, Man in Moon stories; 7-7:15, Bluebird orchestra. WREO. Lansing, Mich. (285.5), 1-3 a. m., special or-chestral program for Pacific coast. WTAM. Cleveland, Ohio (389.4), 6-7 p. m., diuner dance music, Guy Lombardo and his Royal Canadians. WJ, Detroit, Mich. (352.7), 3 p. m., Detroit News orchestra; 6, dinner concett: 8, concert from WEAF.

orctiestra; 6, dinner concett: 8, concert from WEAF. **Central Time Stations** CKY, Winnipeg, Can. (450), 7:30 p. u., university lecture; 8, concert, Mason & Risch Piano company. **KFDM**, Beaumont, Tex. (315,6), 7-7:30 p. m., children's half hour; 8-10:30, band concert, Magnolia Petroleum company's refinery band. **KFNF**, Shenandoah, Ia. (266), 6:30 p. m., old time fiddling, M. R. Hays orchestra. **KFRH**, Bristow, Okla. (395), 11-1 a. m., midnight frole. **KFRH**, Sanhattan, Kan. (340,7), 7:20 p. m., college guartet; 7:30, "Old Age Polsoning," L. D. Bushnell; 7:40, college quartet; 7:50, "Second Claimant," W. H. Burn, M. S. State, Market, Magnolia Claimant, W. H.

quartet; 7:30, "Old Age Poisoning," L. D. Bushnell; 7:40, college quartet; 7:50, "Second Claimant," W. H. Burr.
KTHS, Hot Springs National Park, Ark. (374.3), 8:30-9:15 p. m., concert; 9:15-10, Meyer Davis New Artington hotel orchestra.
WBAP, Fort Worth, Tex. (475.9), 7:30-8:30 p. m., Fred Wagner's Hawalian trio; 9:30-10:45, program, R. C. Forman, director.
WBCN, Chicago, III. (266), 7-9 p. m., Merie Yagle, planist; Will Rossiter, tenor; Dorothy Ferruson, sylophonoist; Limerick grins; Joe Ward's banio friends; Roy Miller, tenor; 9-10, W. G. Tegtmeler and com-pany: 10-10:30, Midwas Gardens orchestra.
WCAL, Northfield, Minn. (336.9), 8:30 p. m., book talk, Dr. George Weida Spohn.
WCCO, Minneapolis-St. Paul, Minn. (416.4), 6:30 p. m., Biley's concert orchestra, 7:30, "American Farmers European Competition." Weils Levens; 8, Minneapolis-St. Faul Real Estate Board program; 9, F. & R Family: 11, Frank's St. Paul hotel orchestra.
WDAF, Kansas City, Mo. (355.6), 3:30-4:30 p. m., Star's Radio trio: 6-7, address, speaker, Kansas City children's bureau; Teil-Me-a-Story lady; Trianon en-semble; 8-10, popular program; 11:45-1, Nighthawk froile.

childrein s. Direald; Jell-Mac'a-Skory Rady; Jindon en, semhle; S-10, popular program; 11/45, J. Nighthawk froite.
WEBH, Chicago, III. (370.2), 7 p. m., Oriole orchestra; Cambridge Sisters; L. H. Aeger, tenor; musical bits, Rivera theater; J-10, Oriole orchestra; Klas McPawn, sopreno; Jack Penewell, guitarist; Sandy Meek, tenor; II-12, Oriole orchestra; Three Muskcherers; Jack Penewell; Dennis Sisters.
WEM, Christers, Stater Muskcherers; Jack Penewell; Dennis Sisters, Mich. (286), 9 p. m., Radio Lifethouse choir; 9:20, negro spirituals, Mrs. Sidney WeMC, Berrien Springs, Mich. (286), 9 p. m., Radio Lifethouse choir; 9:20, negro spirituals, Mrs. Sidney G. Mich, soprano, Jack Proc. P. D. m., organ recital, Lyon & C. Mic, 10-11, Du Best, Daris e Jacketon, School and Sc

WHAS, Louisville, Ky. (3928), 4-5 p. m., selections. -Louisville Conservatory of Music; 7:30-9, concert, auspless Kingswood Hollness college, C. G. Taylor, director. WHE, Kansas City, Mo. (365.6), 7-8 p. m., special Scotch program, St. Andrews society; greetings to Scotch folk. Join Snith; "A Visit to Scotland." Dr. James W. Fileid; music, James Price, "The Yankee Harry Lauder." WHO, Des Moines, Ia. (526), 7:30-9 p. m., Stewart Watson, American baritone; Vernon Sheffield, planist; Cyril L. Coussens, comic English selections; Williamson brothers.
WLS, Ghicago, III. (344.6), 6:30 p. m., Ralph Emerson, organdi; 6:50, Senate theater studic; 7, Lullaby time, Ford and Glenn; 7:15, Garfield Park mixed quartet; 8, Kenneth Clark, Ford and Glenn; 9, Glenn's Threshers; 8-10, Radio drama; 9:30, Senate Symphony orchestra; 10:10, Filipino string quintet; 10:30, Glenn's Threshers; 10:30, Ford and Glenn.
WMAQ, Chicago, III. (447.5), 4:30 p. m., pupils, Bush conservatory; 5, fashion taik, Jan Mowat; 6, organ rectal, Chicago, theater; 6:30, Hotel Lavalle orchestra; 8-00, Ford; 8:30, musical geography, Mr. and Mrs. Marx E. Oberndorfer; 9, F. J. Bridgeman; 9:15, musical program, 11, frolics.
WOAW, Omaha, Nehr, (526), 5:45 p. m., public news period, Eugene M., Konceky; 6, story hour, Dorfsram, Unien Ducific Rainford company; 10:30, orchestra; 1:3, ourcetife Rainford company; 10:30, orchestra, Handle's Store restaurants.
WOC, Davenport, Ia. (483.6), 5:55 p. m., dinner; 6:30, sandman's visit; 6:50, educational lecture; 8, program, quartet, First Preshyterian church.
WOS, Jefferson City, Mo. (440.9), S p. m., addresses, R. A. Rills, M. (447.5), 7-8 p. m., dinner; 6:30, sandman's visit; 6:50, educational lecture; 8, program, quartet, First Preshyterian church.
WOS, Jefferson City, Mo. (440.9), S p. m., addresses, R. A. Rills, H. Paul Beston, C. O. Reed; musical program, Tiple R elub.
WG, Jefferson City, Mo. (440.9), S p. m., addresses, N. A. Caldwell; 1-2, Hoisy

### Mountain Time Station

KOA, Denver, Colo. (322.4), 8 p. m., Fred Schmit and his Rialto theater orchestra; 8:10, Foster Auto Supply company, Columbian tric; F. A. Franklin, reader; Mrs. J. A. Donery, contraito; G. Ralph Crowder, planist; KOA orchestra.

company. Columbian trio; F. A. Frankin, reader; Mrs. J. A. Donery, contraito; G. Raiph Crowder, planist; KOA orchestra.
 Pacific Time Stations
 KFAE, Pullman, Wash. (343.6), 7:30-9 p. m., Prof. Heber Namyth, barline; Mrs. Louise Nasmyth, planist; Tilighy Safety, Prof. H. E. Phelps; reality and states of the Farw, A. B. Crane; heating takes book Alter Law, A. B. Crane; hotel orchestra; (457.8), 5.15 p. m., Olympie hotel orchestra; (453.8), 4.5.130 p. m., Organ recital, Roy Reid Brignali, 7:30-9.15, young people's erangelistic service with must by Silver band; 9:15-10, concert hy Silver hand of Angelus temple, G. N. Nishols, director; 10-11, organ recital, Roy Reid Brignali and assisting artists.
 KGO, Oakland, Calii. (361), 4.5.30 p. m., concert or chestra, Hotel St. Frands.
 KHJ, Les Angeles, Calif. (404.1), 6-6:30 p. m., Art Hickman's Biltmore hotel concert orchestra, Edward Headrick, Viola Von, sercer starlets; 7-8 Hunington Park Union High School bank, John R. Hawkins, di-rector; 8-10, program, Henley and Sock, Graee Currey, harpist; 10-11, Earl Burtnett's Biltmore hotel dance orchestra.
 KLX

harpist; 10-11, Earl Burtnett's Entrance noted cance orchestra.
 KLX. Oakland, Calif. (509.9), 6-7 p. m., organ; 7:45-9:45, studio prorram; 9:45-10:30, Sweet's ballroom
 KMX. Hollywood, Calif. (337.6), 5:45-8:15 p. m., Wur-Iltzer pipe organ studio; sports talk, Sid Ziff; 6:30-7:30, dinner hour nusic; 8-10, program, El Encanto Apartments, Harmonle trio; Victor Edmunds, basso and Florence Middough, soprano; 10-11, Willys-Knight program, presenting Knight Ridors dance orchestra; 11-12, Abe Lyman's Cocoanut Grove dance orchestra; RUdy Sciger's Fairmont hotel orchestra; 8-9, program, Cleveland Siz.



# Good Radio Reproduction

is assured when you connect your Set and your Phonograph with the Jewett Vemco Unit.

Just slip off the diaphragm, slip on the Vemco and listen to Radio that equals the finest phonograph record you have ever heard!

> No changes, no tools-Standard fits Victrola; adapters for other makes -Adjustable to increase volume from distant stations-The same reproducer used in the world-famous Superspeaker. Avoid imitations— There is only one Vemco, and Jewett builds it.

# JEWETT RADIO & PHONOGRAPH COMPANY 5670 TWELFTH STREET DETROIT, MICHIGAN

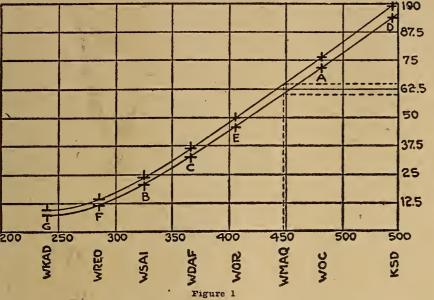


# Chart The Aerial Highways and Save Time

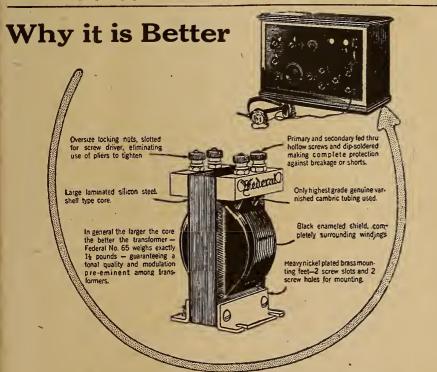
Condenser Curves Easy To Make

### **By James McDonald**

RACTICALLY every owner of a re-which he puts the dial settings of the stations he is able to find by careful lis-tening and accurate tuning, but, while these settings enable him to return quickly to the stations he has already tuned in, they do not help him very much More advanced Radio men have a sys-



tem which is called "plotting the con-denser curves" that enables them to quickly determine dial settings for any station they may wish to hear and, if the dials are set at the points indicated, the receiver is sufficiently sensitive and the station desired is on the air, the program will be heard. Any owner of a Radio set can easily make up the necessary charts and the only material necessary is a sheet of "graph" paper divided into

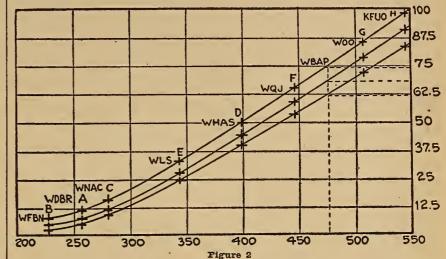


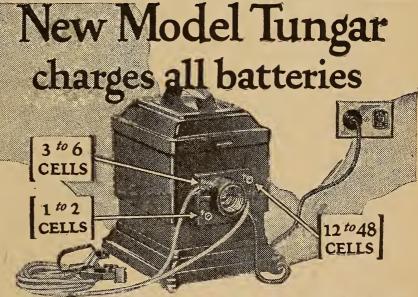
MASTER of Every Note in the Orchestral Range" is the proven claim of the Federal No. 65 Audio Frequency Transformer! Volume without distortion is the basis for the beauty of Federal Tone.

From its oversize locking nuts to its heavy brass mounting feet the Federal No. 65 Transformer incorporates the same engineering skill that has made Federal the recognized leader in electrical communication apparatus since 1890.

Insist upon Federal parts for your "pet" hook-up. There are over 130 standard parts bearing the Federal iron-clad performance guarantee.









product, developed in the great Research Laboratories of Gen-eral Electric.

The New Model Tun-gar charges Radio A and B storage bat-teries, and auto bat-teries. Two ampere size (East of the Rockles) . . \$18.00

The Tungar is also available in five am-pere size (East of the Rockies) . \$28.00

60 cycles - 110 volts

On the back of the Tungar, there are three terminals. Slip the wire into one and charge your radio "A" battery, 2 or 4 volt size. Use the second to charge your radio "B" battery, 24 to 96 volt size. Or the third will charge a 6 volt "A" battery or 6 to 12 volt auto battery.

Just clip on the Tungar, and plug it into any electric outlet in the house or garage. Then leave it overnighttocharge while you sleep. Very simple.



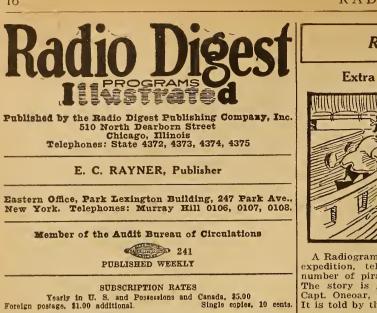
Tungar—a registered trade mark—is found only on the genuine. Look for it on the name plate. Merchandise Department General Electric Company Bridgeport, Conn.

ENERAL ELECTRI



P. South

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Saturday, March 7, 1925 No. 9 Vol. XII

### Official Washington Sleeps On

Official Washington Sleeps On PROGRESS—a word in eight letters meaning growth or development—is evidently not present in the vocabularies of many of our federal officials. Witness our Army and Navy. The secretaries of these two departments, Wceks and Wilbur, would stick their heads into holes in the sand like the well-known ostrich and use auto-suggestion on themselves to make believe they have efficient fighting weapons. We are for Brigadier General Mitchell, assistant chief of the Army air forces. As we go to press the country is in a turmoil and rumors are current that his official head will be chopped off. Why? Because he is progressive. He dared to show that Mr. Weeks and Mr. Wilbur had suppressed test reports showing how superior fighting aircraft were to battleships and land forces. Hasn't Radio shown official Washington that modern

how superior lighting ancient were to battleships and land forces. Hasn't Radio shown official Washington that modern inventions developed with great speed? The depart-ment of commerce certainly knows this. But even with Radio, Congress and our Washington sages hold tight the purse strings and' delay necessary laws. Again we have an example to prove that many— entirely too many—of our federal officials need to learn the meaning of the word progress. Radio and her sister ally of the air, the aircraft, will win the next war. It is poppicockish to sit by idly and twiddle our thumbs. Time waits for no man. The airplane and Radio are here to stay. Both demand more recognition from our Congress, Senate, chief executive and his cabinet, than has been given here-tofore.

tofore. As concluding thoughts, dare we suggest that Weeks

As concluding thoughts, dare we suggest that weeks and Wilbur either dust off the accumulated cobwebs or better resign; that Brigadier General Mitchell be given a portfolio in President Coolidge's cabinet as Secretary of the Combined Army, Navy and Marine Air Forces; and that someone in Washington get busy and secure needed funds and legislation for the proper administration of Radio?

### **Progress of Radio**

Progress of Radio THOSE good old days in Radio were not so good after all. Every fan who was in the art in its infancy will always remember with a vividness and joy akin to affection his experiments and struggles in those early days, and his delight when he over-came the difficulties under which he worked and got results in his primitive set. But if you were one of thosc early fans you remember how your home was strewn with huge coils, switchboards and other apparatus, and how crude your set looked. You will never forget the thrill when you brought in something, even if it was only the time signals at Arlington on the earphone. Now the general public is beginning to realize how rapidly and how potently Radio is effecting educa-tion, music, entertainment, sports, politics and other spheres of modern life. But way back in the be-ginning, who dreamed of the ramifications of Radio? Honestly, did you ever expect to hear the world's series over the Radio. Mod yet a few short years ago Radio was in its beginning stages everywhere. Its rush into every-day life is one of the miracles of the age.

### **Frequent Announcing of Call Letters**

Frequent Announcing of Call Letters ACCORDING to reports received by the Radio bureau the announcers of some of the broad-casting stations continue programs for long periods without announcing the call letters of the stations and as some of the call letters are not readily under-stood, suggestion has been made that some other method be adopted which will make identification more positive. It will probably be helpful if when making an announcement the call letters of a station are followed by the name of the city in which the broadcasting station is situated and would no doubt be appreciated by the audience if the announcers would announce distinctly the call letters and name of the city at somewhat regular intervals.



A Radiogram has been received from the Walla Walla expedition, telling of a thrilling battle between a number of pirates and the crew of the S. S. Kanoofis. The story is given below, and is aptly described by Capt. Oneoar, the brave commander of the "Kanoofis." It is told by the captain as follows:

"While cruising off the isle of Oofty Goofty, the Kanoofis ran into a smooth sea and was becalmed for ten days. During this time, the crew went swimming and fishing, entertaining themselves with the Radio set, and listening to the programs broadcast for their benefit from various stations. "Fork one morning a heat same element and with

From various stations. "Early one morning, a boat came alongside and with a fierce yell, the pirates sprang upon the various mem-bers of the crew and overpowered them. This was the beginning of the end. The Radio operator was blind-folded and made to walk the plank. Just as he was about to drop off the plank into the water, he thought of a good joke, and whispered it to the leader of the pirates.

"It was so good, that the leader decided to postpone the plank-walking stunt until the following day. 'Sparks,' heaving a sigh of relief, sneaked away to his shack and started to send out a distress call. The pirates became aware of what he was doing, and told him to sign off. That ended all hope of being saved. That night the crew got together and formulated plans to escape from the clutches of the buccaneers, and we went to bed."

(Don't fail to read the finish of this thrilling install-ment in next week's Indi-Gest column.)

### **Station WOS**

### Jeff-pher-sawn Sit-ee-Miz-zu-ree

Jeff-pher-sawn Sit-ec-----Witz-zu-ree (With apologies to Breton Braley) In the life of the nation, each broadcasting station Is quickly displacing some movie or play; In this age of invention, each reel you may mention Becomes very quickly passe. The harsh rasping screeches, the queer ranting speeches Which once filled the ether are gone; While smart airs and graces of charming sopranos and bassos Beguile us as time passes on

Beguile us as time passes on.

ut still there's one splendid old friend that I miss When music is crushed by static's wild fury; ne joy now is ended—and that is just this— The voice of Don Witten at Jeff-pher-sawn Sit-ee, Miz-zu-ree. But On

When worn with searching through static's crash lurching,
How good to arrive at the Capitol Dome;
Where Louis and Bryan, with fiddle bow flyin',
Were bringing back memories of home.
Each tune served some "function" at Jerkwater Junction,
In camp, or "Van Winkle" town;
G. Shrimp might be boring, his heel through the flooring, Still your griefs you could drown.

Still your greas of a And so I am singing the gladness it threw, (I am acting as judge and as jury) The joy it was flinging when winter winds blew, The voice of Don Witten at Jeff-pher-sawn Sit-ee, Miz-zu-ree.

### A Sure Cure for the Squealers

Our set is selective, no part is defective; 'Tis built from the most recent circuit; But every adjective of biting'invective We utter whenever we work it.

None mind a few snatches of static and scratches Which issue sometimes from the speaker; The unsolvable catch is to find what pest matches The ubiquitous one-circuit squeaker.

His whole-souled adherence to this interference Shows his patience is simply amazing; But from outward appearance he knows perserverance Will very soon bring him a hazing.

What would be so nice, should he come for advice, I might give him in manner mendacious; 'Twould be done in a trice, for I have on the ice A solution that's most efficacious.

Should he ask, with a flip little quirk of his lip, How to stop making other fans boil,— With a dexterous snip I will take off the tip Of his one tube, and pour in some oil! HOLLIS DE NEEFE.

RAAA (R) 2010 DA WHO'S GOING TO SAME OLD STUFF HAVE ORGANIZE RADIO ARTI

The Newcomer

### Condensed By DIELECTRIC

Most every time that WTAM has been tuned in a program of attractive features holds my attention. This was not so on a recent occasion, for while the orchestral numbers were pleasing and varied a violin-ist of very mediocre attainment rendered selections in a way to encourage dial twisting. The good offset the poor attists the poor artists.

Probably few among the millions of Radio listeners dislike singing of old darky melodies, hence it is likely that WHAZ had a good "turn out" to their concert presenting the Radio Quartet in a group of southern songs with typical negro dialect. Look for them.

In listening to WHO one evening a soprano held the limelight through several selections. It is some-what the fashion to make a joke of the soprano where Radiocasting is concerned, but most studios do not favor them to the near exclusion of singers with other registers (as previously), so we feel more kindly toward them. However, there was but one song, Honest and Truly, which this lady sang effectively.

Out in Nebraska you will find a Radio station with the call letters of KFKX where a male quartet en-tertains frequently, and there you will spend an en-joyable evening with these four singers. I shall not review the numbers given as I listened, but only assure you that all of them were of cheerful mood and worth tuning for and worth tuning for.

These Victor concerts emanating from WEAF and spread through a network of additional stations are cream to the pudding of ordinary programs. You may lack interest in some of the selections, though never fail to appreciate the superiority of the artists. When the Victor Salon orchestra poured forth the exquisite strain of "A Japanese Sunset," you could almost picture the rare coloring of such a scene.

It is now possible to step into movie houses all over the land with merely a Radio ticket purchasable at Radio stores. WGY took its listeners from Schenectady to Albany, N. Y., providing them with excellent seats in the Mark Strand theater to listen to the orchestra play through their program. William Brady would debar us, but not even the ticket scalpers may do that—there are no extortionate prices here may do that-there are no extortionate prices here.

Reading so much about Cave City, Ky., led a great many fans to tune in WHAS during the last days of the search to see what news the station had for them regarding Floyd Collins. The Kentucky Nite Owls were there to entertain all comers with the late lamentable jazz songs, the most so being "Too Tired," that Romance in A Flat.

A little applause for the Drake Ensemble now and then must be expected from this end of the column because they deserve it. One of the best things they have done recently was the playing of excerpts from the opera, "Jewels of the Madonna." Thanks, WGN, and come again.

HOLLIS DE NEEFE. HOLLIS DE NEEFE. Better Than a Wife! He: The wife I shall choose will charm me with music when I feel like it, and have the sense to shut up when I don't. She: You don't want a wife, you want a tube set! A. B. C. The complaint is often made that fans tune in and out station after station to find them listing the same character of program; in many instances, the same numbers. Well, this is usually confined to a single night in a week, anyway, how would you remedy it? I had the extreme pleasure of listening to five orches-tras in as many studios all "Waiting for the Sunrise" one night. I didn't wait after that.

### March 7. 1925

# Four Filter Eight Tube Super-Heterodyne Part I—Analysis of Circuit

**By Jacques Fournier** 

HEN Major Armstong first con-ceived the super-heterodyne he built the first model with one filter transformer and three untuned iron core intermediate stages and for some reason all of the super-heterodynes which have followed do not vary from this original design. This is similar in many respects

### LIST OF PARTS

	LIDI OI IIMAD	
1	Panel 7 x 30	5.00
	Panel 7 x 29	5.00
8	Sockets, 201-A or 199	8.00
	Variable condensers,	
		14.00
1	Midget condenser, 13 plate	1.50
4	Midget condensers, 9 plate	7.00
1	Rheostat, 2 ohm, 3 amp	2.50
1	Closed circuit jack, 2 springs	.55
2	Double circuit jacks	2.00
1	Open circuit jack	.70
1	Filament switch	1.00
Ž	Grid leaks with .00025 cond	1.50
14	Potentiometer, 400 ohm	2.50
1	Pair push pull transformers	12.00
3	Bypass condensers, .5 mfd	2.70
1	Fixed mica condenser, .006 mfd.	.75
1	Fixed mica condenser, .002 mfd.	.40
7	Binding posts	.70
2	Angle brackets	.30
1	Sheet 1/32" brass or copper	
	14" x 24"	.50
2	Lbs. No. 18 dcc. wire	2.00
1	Lb. No. 32 dsc	2.00
	Miscellaneous	5.00
	150 sq. in. of 1/8" cardboard,	
	- 16 lengths of bus bar, 14	
1	lengths of spaghetti, machine	
	screws, solder, lugs, etc.	
1	Cabinet 7" x 30" x 10" depth 3	15.00



### Figure 1

of sets, they were not all that had been expected. Putting in Filters A filter circuit is nothing more than a stage of tuned Radio frequency designed for a long wave length and permanently tuned for that one wave length. Since tuned Radio frequency is much more ef-ficient in the usual five tube set than is untuned Radio frequency, and selectivity is gained by being able to tune each cir-cuit to the frequency of the desired sig-

desired incoming frequency. Sharpening the Loop, At this stage of the experiments we were satisfied that a much superior super had been developed, but the lack of se-lectivity in the loop tuning condenser did not seem right, so various methods of in-creasing the sharpness of that control were considered. Regeneration, if prop-erly handled, will lower the effective re-sistance of a tuned circuit, so regenera-tion was introduced into the loop circuit by use of a center tap and a small con-nected to the plate of the first detector. This was at first placed inside the cabinet on the baseboard and adjusted to a point at which the loop circuit was just below oscillation on a short wave length. This helped the selectivity and volume remark-ably on the lower wave lengths, but its effectiveness was lost on stations above 400 meters. This small condenser was then placed on the panel so that it could be increased when tuning for higher wave lengths, and the benefits of regeneration

were then secured over the entire wave length range. Previous experiments had shown that the writer's location is a very poor one for loop reception as it is effect-ively shielded either by steel buildings or other large bodies of metal in three direc-tions, and all signals seem to come in when the loop is pointed southwest and northeast. No matter what the direction of a station may be from the writer's home the loop must be in this one **posi-**tion at all times. **Antenna Counline** 

### Antenna Coupling

Antenna Coupling It was plain that maximum efficiency was not being had on all stations so it was decided to use a short outdoor aerial as a collector of Radio waves which would not be so seriously affected by nearby metal objects; this brought up the prob-lem of coupling the antenna circuit to the super-beterodyne in such a way that the selectivity would not be seriously im-paired. Readers of this magazine will remember the low loss coupler described by the writer in the November 22 issue and, since one of these was available, it was put to use with one of the rotors re-moved. It is of the basket weave type and the primary can be rotated in relation to the secondary. This coupler worked perfectly with a 50-foot outside aerial, and even though very close to WEBH and WQJ, the two stations mentioned above, the set was able to get out of town sta-tions as though these two powerful locals were not on the air. **The Push Pull Audio** 

### The Push Pull Audio

The Push Pull Audio The final part to be tackled was the audio frequency amplification. Those who have built super-heterodynes utilizing two stages of audio frequency amplification have probably had the same difficulties as the writer. When the second stage is plugged in, the potentiometer controlling the intermediate stages must be turned back to such an extent that the volume is but little if any greater than the volume previously had on one stage. Those using very low ratio transformers, such as two to one or three to one, may not have had this difficulty to a marked degree, but (Continued on page 18)

It Has the Full SweetResonance of Our Upright Horn

T HE new cabinet model has a sea-soned wood horn which is "full floating"—the outer end, or bell, does not touch the cabinet. This, together with a long expansion chamber, gives it that same freedom of vibration which goes to make the Bristol horn type Loud Speaker such a resonant, sweet-toned instrument. It also has the same high-grade electromagnetic sound mechanism. It is not only a handsome piece of furniture, but a speaker worthy of the best radio set that money can buy.





Model "C" Cabinet Type \$30.00 Real Mahogany. Size 17x10x101/

or 36 Years Makers of BRISTOL'S RECORDING INSTRUMENTS. Ask Any Technical Engin

There are five Bristol Loud Speakers, priced from \$12.50 to \$30.00. If not at your dealer's, write for Bulletin No. AY-3020.

THE BRISTOL COMPANY Waterbury, Conn.

AUDIOPHONE LOUID Speaker



with this new principle horn-this Kellogg Symphony Reproducer

This offers a new conception of radio clearness-a recent scientific advance in radio reproduction. It "brings in" the marvels of the air exactly as they were broadcast. With an absolute fidelity of tone that will delight you.

This new way is the Kellogg Symphony Reproducer-now made in quantity production to sell at prices within the reach of every radio owner. It is made by the 28-year-old Kellogg Switchboard & Supply Co., leading specialists in reproduction of sound. The acoustical engineers of

this company worked for years on the problem of clarifying radio reproduction before they finally perfected the Symphony.

The shape and contour-the composition of the horn itself, is one of the principal features. But the theory and design of this "unit" is the secret of its wonderful success. This "unit" is unlike anything ever offered before for radio. The magnetic feature gives it watchlike precision. The improved results are noticeable instantly to any who hear it.

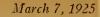
### HEAR IT TODAY

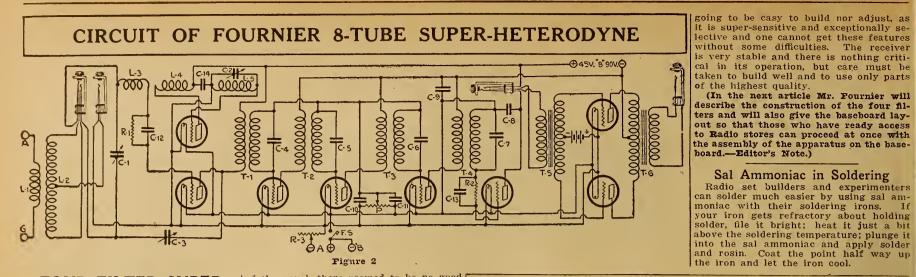
Today, hear the Kellogg Symphony. Do not buy any lesser horn until you have heard it. It will increase the value of your set 100% in musical quality— in pleasure to your family and yourself. Any dealer will gladly demonstrate the Symphony for you. Hear it—today!

**KELLOGG SWITCHBOARD & SUPPLY CO.** Chicago, Illinois

KELLOGG Symphony REPRODUCER

17





While all of the super-heterodynes second detector. which the writer has seen, specified that both condensers are to be at the left end Radio Digest readers that this set is not

<text><text><text><text><text>





There's an ALL-AMERICAN Transformer for every radio need. Audio and R. F. – Power Amplifying (Push-Pull)–Inter-mediate Frequency. andiate Frequency. ALL-AMAX Receivers—the famous ALL-AMERICAN sets —completely mounted with full wiring directions. Junior (1 tube) \$22. Senior (3 tubes) \$42.

Anumber of ALL-AMERICAN Standard Audio Transformers were taken from stock and soaked in water for three weeks. When taken out, each instrument tested 100%! Connected in a receiving set, each performed faultlessly.

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Your Favorite Radio Store Has Them!

THE RADIO KEY BOOK will give you just the information you need to enable you to enjoy modern reception to the utmost. It is a radio education in itself. Send 10 cents-coin or stamps-for the KEY BOOK.





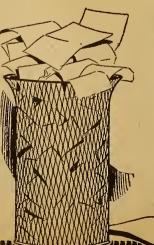
### Mr. Manufacturer:

Would you write 100 letters to 100 people to reach just two men?

> Then, before you invest your advertising dollars—THINK!

> > TILD

This Association is com-prised of the leading Radio Magazines



A<sup>N</sup> ANALYSIS shows that publica-tions of general circulation, newspapers and magazines, devote less than 2% of their reading columns to Radio— proving that, in the opinion of their own editors, less than 2% of their readers are interested in Radio. In fact, many gen-eral publications carry no Radio editorial matter. Therefore-98% of your investment is lost!

On the contrary, the Radio magazine offers 100% Radio editorial — attracts 100% potential buyers—has 100% reader interest.

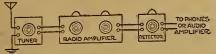
Spend your advertising appropriation in Radio Magazines and be sure of the greatest possible return on your advertis-ing dollar.

RADIO MAGAZINE PUBLISHERS ASSOCIATION, Inc.

# **Broadcast Listener's Reference Library**

### Part V—Radio Frequency Explained

By Edward Thomas Jones, A. I. R. E.

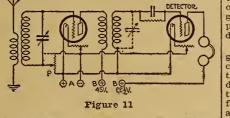


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Juaranteed

Owensboro

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At first glance this seems to be the ideal method as resistance cannot distort and has no peak efficiency. It has been found after much experimentation that resist-ance coupling of Radio frequency am-plifiers is not efficient on broadcast wave lengths and it should not be attempted. A third method is known as the tuned impedance system and there are two ex-cellent ways of applying this. The first

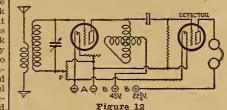


Figure 12 grid circuit is tuned exactly to the fre-quency of the incoming signal. In this case, however, when we tune the vari-ometer and plate circuit exactly to the frequency of the signal going through, the circuit offers infinite impedance or opposition to the signals and, instead of going through the variometer, the energy prefers to go through the small fixed con-denser to the grid of the following tube. It should be noted in figure 12 that the grid leak is not connected across the grid to negative filament and the small con-denser is merely a blocking condenser to keep the plate voltage of the first tube from the grid of the detector. It should also be noted that the grid return of the first tube connects to the center tap of this potentiometer. When the plate cir-cuit is tuned by the variometer to the frequency of the desired signal there is a tendency toward feedback through the tube and a form of uncontrolled regenera-

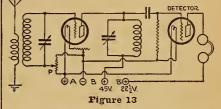
Super-Het

**Builders!** 

readin ucations re commend in highest terms heThords l rati

For the "RADIO" an other leading

The super-interodyne, do not use a poten-tiometer. The second way of using tuned im-pedance R. F. amplification is shown in figure 13 and in this case a parallel cir-cuit consisting of a coil and condenser have been substituted for the variometer. The coil and condenser must be in parallel so that the positive B circuit will be complete to the plate of the first tube. The circuit would not function if the coil and condenser were in series, as direct current cannot pass a condenser and the direct current from the B hattery which keeps the plate 45-volts positive in relation to the filament could not reach the plate. Tuned impedance R. F. am-plification is theoretically the most effi-cient system known but it is very un-



stable and hard to control and more than one stage is not recommended for the average broadcast listener. The best system of all and that which is now in favor is known as tuned Radio frequency. Referring back to figure 11 it will be noted that a variable condenser (Continued on page 20)







full size drawing of the separate Toroformen Attachment Unit is available for 25c postpald.

### The Toroformer (A transformer for Tuned Radio Frequency Amplification)

Overcomes Local Interference Gives Greater Distance Increased Selectivity

Vastly improves any Reflex or Radio Frequency set, such as Acme, Murad, De Forest Reflex, Powr, Erla Loop Aerial Sets.

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### **REFERENCE LIBRARY**

(Continued from page 19)

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### CHART THE AERIAL

(Continued from page 15) tion WDBR with a wave length of 256, and the loop tuning dial was at  $7\frac{1}{2}$  while the oscillator dial was at 11. 256 was found on the bottom line and  $7\frac{1}{2}$  and 11 were found on the vertical line, and crosses were marked on the chart where these points intersected. The loop dial was left at  $7\frac{1}{2}$  and the oscillator dial was turned toward the lower end until this station was again picked up. It was found

GROSLEY

Inder 50

again at point 5 and this cross was also put on the chart. Station WFBN with a wave length of 226 meters was the second station found and the crosses shown at B were put in. The other six stations indicated by the crosses at C, D, E, F, G and H were tuned in and the intersection marks placed on the chart. The little crosses were then connected and the three curves shown re-sulted. To use this chart the owner pro-ceeds in the following manner: presuming he wishes to find Station WBAP and knows the wave length to be 475.9, he first finds this number on the lower line and follows this point vertically to the point where it intersects the loop con-denser curve which is 67½ and the upper oscillator curve which is 67½ and the upper oscillator curve which is 67½ and the upper station so he turns the oscillator dial to f2 which will be the other setting for

Padio

510 N. Dearborn Street

Bending Bus Wire

March 7, 1925

Bending Bus wire Bus wire can be easily bent with the aid of two ten-penny nails and a small piece of wood ½-inch thick. Drive the nails into the wood, leaving about ½-inch protruding. The nails should be placed close enough together to just allow a piece of bus wire to slip between them. To bend the wire at right angles or into a loop at the ends, simply insert the bus wire between the nails and bend it in the desired direction.





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The only loops of their kind sold at popular prices.

Built by radio engineers—electric-ally and mechanically correct—beau-tifully finished and sturdy. A touch and and a new station comes in—or one is cut out. Their selectivity is remarkable.

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Lincoln 4-point Tapped \$8.00 Loop .....

Built for any circuit where it is desired to vary the inductance of the loop. Ex-ceptionally fine for super-heterodynes.

### Lincoln Center-Tapped \$6.50

For any set employing radio fre-quency amplification. For certain Super-heterodynes requiring a center tap.

Write to Lincoln your dealer cannot supply you, order g your dealer's name. Lincoln Loops are inteed. Send for literature. We welcome lence with legitimate dealers and jobbers.

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How to ~ Radio Digest understand radio, assemble circuits, operate sets, improve reception~

A BIGGER, better, more complete book than has yet been brought out for the Radio set owner. Whether you built your own or bought it complete, there are pages and pages of material valuable to YOU. 28 pages on explanation of Radio, 18 pages of circuits, complete detailed constructional data on building six different sets, 14 pages on constructing parts, operating schedules of dozens of stations, a two-color map showing their locations, how to operate some of the popular complete sets now on the market. on the market.

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Made in all standard types. Guaranteed to function efficiently in the most exacting circuits. Every Atlas Tube is individually in-strument tested. Try them 30 days. Money refunded if you are not delighted.

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DEALERS: Atlas Matched Sets are in great demand. Write or wire

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ATLAS

# Adding Radio Frequency to Reflex Set

AIDS TUNING, HELPS DISTANCE

### **Receiver Attachment to** Make it More Efficient

For those who are using the reflex set and to whom additional cost of a tube is of no consequence the hook-up shown in the illustration should be tried. By

### WORKSHOP KINKS EARN A DOLLAR-

THERE are many little kinks worked out at home that would aid your fellow Radio worker if only he knew about them. There are new hook-ups, new ways of making parts and various unique ways of oper-ating sets that are discovered every day. Radio Digest is very much inter-ested in obtaining such material. Send them in with full details, including stamped envelope, so rejected copy may be, returned. The work must be entirely original, not copied. RADIO KINKS DEPARTMENT Radio Digest, 510 North Dearborn St., Chicago

PLATE (a)

CHRCULAR

(a) MICA DIAELECTRIC

PLATE

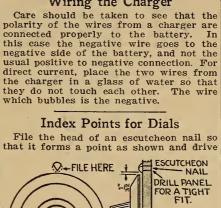
50 TURNS \*22 D.S. 3" TUBE AERIAL AND GROUND BINDING POSTS OF ORIGINAL SET COIL 12 TURNS #22D.S. IN SIDE SECONDARY 23PL.COND +0 A B+ Wiring the Charger

inner surface of the tinfoil. A circular metal plate, copper or aluminum, is at-tached to the inner end of the threaded shaft. Two binding posts make the con-nection to the circuit.—M. Daugard, Syra-cuse, N. Y.

### Transformer Ratios

If transformers of different ratios are to be used, the high ratio instrument should be placed in the first stage and the low in the second.

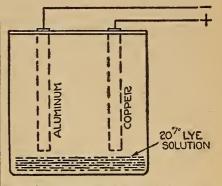
# adding a tap switch to the variocoupler oscillation can be controlled in the tube on all wave lengths. The rotor of the vario-coupler is set in position for best signals and then allowed to remain in that posi-tion. With the addition of this extra tube to a three tube set the range will be in-creased and the set will be more selective. —E. F. Ziemer, Minneapolis, Minn. Homemade Midget Condenser A panel mounted midget vernier con-defiser can be easily made as shown in the illustration. The mounting is similar to any instrument. A threaded bushing is BINDING POST.



it through a hole drilled in the panel di-rectly above the dial. This forms a pointer that can be readily seen.—Edward Cook, N. Troy, N. Y.

### Homemade Battery for **Lighting Peanut Tubes**

Illustrated herewith is a battery that should be of real value to the owner of peanut tubes. It is not only simple to construct but it will give real service when used right. The elements are alu-minum and copper, the container is an ordinary fruit jar and the solution is a



20 per cent mixture of water and ordinary

lye. Both the copper and aluminum plates should be cut 2 inches wide and 4 inches long. These are fastened to a wood sup-port which rests on the top of the jar. When the battery is not in use the plates should be removed from the solu-tion as the lye will slowly decompose the aluminum. Only one battery is used on a tube.—Chas. Bloedorn, Jr., Franklin, Nebr. Nebr.

### Foliage Absorbs Radio Energy

Radiophans who have erected aerials during the winter had best make sure that of the aerial is less than 6 feet from the nearest green leaves. Foliage "soaks up" Radio energy like a sponge.



**DEALERS:** 

**217 EUCLID ARCADE ANNEX** 

3 Dozen in Self-Sale Carton, \$11.40 F. O. B. Cleveland

POSTPAID

ARIOCOUPLER



# **Questions and Answers**

### B Battery Eliminator

B Battery Elminator(H709) ROR, Johnstowu, Pa.T made a battery charger from your<br/>phans by Jacques Fournier and it is a<br/>you thanking you for the plan that have<br/>have been wanting for some time. I have<br/>have been wanting for some a some some of some one<br/>have been wanting satisfactorily. We<br/>housh with someone who has developed<br/>have the time time to the point where it is<br/>possible to adjust that unit so that it will<br/>houshes at with for a particular set<br/>intection with that receiver without hum<br/>possible to outline a B eliminator which<br/>outline a B eliminator which<br/>outline a B eliminator which<br/>outline a B eliminator which<br/>outline some and the some one of success.Haneycomb Coll Circuit

### Honeycomb Coil Circuit

(11164) JAG, Piqua, Ohio. Will you furnish me with a diagram of a one stage Radio frequency and detector clrcuit using three honeycomb coils, re-generative hook-up with shunted con-

Men to build radio sets in spare time. Leon Lambert, 501-H Kaufman Bldg., Wichita, Kansas.

Roosevelt Musical Association. Music for all occasions. Fitzroy Brown, 158 Lefferts Place, Brooklyn, N. Y.

Cabinets-5,000 cabinets, 7 x 18 x 7, \$1.50 each. Enclose 20c postage with order. Haft & Co., 1364 Sterling Pl., Bklyn, N. Y.

Radio Reception Stamp Album and Log. 240 stamp size, fancy brocade cover. 50c each. Henry Jorgensen, Minden, Nebr.

Raulf Radio Consoles. The ideal radio cabinet, built in genulne mahogany or walnut. Send for descriptive circular. Raulf Manufacturing Company, 564 Ved-der St., Chicago, Ill.

Write for Our Free Book on Patents-Munn & Co. 643 Woolworth Building, New York City; 518 Scientific American Bldg., Washington, D. C.; 407 Tower Bldg., Chicago, Ill.; 360 Hobart Bldg., San Fran-cisco, Calif.; 215 Van Nuys Bldg., Los Angeles, Calif.

It's your money and you can spend it for tubes or batteries if you want to; but I can show you how to bring distant sta-tions in on a simple crystal set. Same plans increase range of tube sets also. Copyrighted plans \$1.00. Complete parts for long distant crystal sets \$5.00. Leon Lambert, 501 Kaufman Bldg., Wichita, Kansas.

### \$10.00 IS ENOUGH You can get programs 400 to 1,000 miles away on Lambert Crystal Sets, and you don't need tubes or batteries. Tell your dealer "nothing else will do" Picture of Set and Particulars Free. LEON LAMBERT 501 Kaufman Bldg. Wichita, Kan.

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densers, primary and secondary, using 1714 Radio frequency transformers? A.—Herewith we present a diagram such as you desire. This circuit is a combination of tuned Radio frequency coupling and a regenerator or feedback effect. Actually there are only two con-denser controls and the adjustment of the honeycomb coil coupling on the set. **PATENTS** Write for my free Guide Books "How to Obtain a Patent" and "Invention and Industry" and "Record of Invention" blank before disclosing inventions. Send model or sketch of your invention for instructions. Promptness assured. No charge for above information. Clarence A. O'Brien, Registered Patent Lawyer, 2008 Security Bank Building, directly across street from Patent Office, Wash-ington, D. C.

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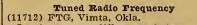
The coll above is a three circuit tuner -but there are Supercoils for all other circuits, including Neutrodyne, Robert's Reflex, Superdyne and Hark-ness. Write for price and particulars. Send 3- 2¢ stamps for Low-Losa Bulle-tin and Easy to Read Hook-Ups.

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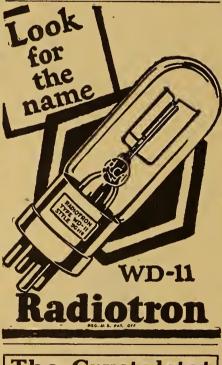
CONDENSERS



Tuned Radio Frequency (11712) FTG, Vimta, Okla. Is there any difference between two stages of tuned Radio frequency and a neutrodyne? Which is the best Which is the best for DX, an ultradyne or a super-het?



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Crystalstab The Ideal Refex Detector but equally suitable for crystal sets The Crystalstat embodies the following features: A super-sensitive crystal in an air tight enclosure. A bruck set which is a super-set of the set of the set



Is the quality of reception as good from a super-het as from a neutrodyne? A.—The difference between the neutro-dyne and a tuned Radio frequency receiver is that in a neutrodyne two small con-densers are used called neutrodons so connected that they will offset the in-herent capacity of a vacuum tube and prevent oscillation. The tuned Radio fre-quency set is prevented from oscillating by reducing the number of turns in the primaries of the air core transformers between the Radio frequency stages. Ultradyne and super-heterodyne are equal as regards range, but our readers have found that the ultradyne is not as selective as a well made super-hetero-dyne.

dyne.



### March 7, 1925

# Radiophone Broadcasting Stations

### Corrected Every Week-Part I

### United States

ton, O. 425 meters. Hdqts, 135th Field O. N. G. Bragg, N. C. 435 meters, 750 watts, U. S. mt, Announcer, Lleut, James Y. LeGette. The Pioneer Broadcasting Station of the Field "Tues, Thurs, Sat, S-9:55 pm, dance alks, bands, figbis. Sun, 8-9 pm, service. Canton, O tillery O. N Fort Bragg vernment. Artillery."

t. Paul, Minn. 400 meters. 6th Inf. Minn. Guard, St. Paul Armory. Irregular schedule.

AV7, St. Paul, Minn. 400 meters. 6th Inf. Minn. Nat'l Guard, St. Paul Armory. Irregular schedule. Central.
AW5, Dayton, O. McCook Field, U. S. Army. Experimental work only.
KDKA, E. Pittsburgh, Pa. 309.1 meters. 1,000 watts. Westinghouse Elec. & Mig. Co. Announcer, H. W. Arlin. Slogan, "The Pioneer Broadcasting Station of the World." Daily ex Sun, 9:45-10 am, 11:55, time; 12:1 pm. market reports, music, 6:15, music; 7:15-10, markets, news, features, concert, 9:55-10, time. Mon. Wed, Fri, 7 am, 8, exercises. Tues, 11:12:30 am, late concert. Sun, 10:45 am, church services; 2:30 pm, concert; 4, organ; 4:43-6:15, dinner concert; 7:30, church service. Eastern.
KDFM, Cleveland, O. 250-1817 meters. 750 watts. Radio Elec. Co. Announcer, H. W. Trrling. Experimental station.
KOPT, San Diego, Calif. 244 meters. 50 watts. Southern Elec. Co. Announcer, Milliam, O. Heathcote. Slogan; "At the End of the Trail." Daily ex Sun, 1:30-2:30 pm. Tues, 8:9 pm. Thurs, Fri. Satt. Need, 30:0-6:13 om. Tues, 8:9 pm. Plans, 20:2-330 pm. Sun etc., 3:4 pm for the Store, and the store for a statis. Newhouse Hotel, Announcer, Geney Rack. Store, Newhouse Hotel, Announcer, Geney Rack. Store, news, nusic, entertainment. Sun, 11:1 am. Mountain.
KDYL, San Diego, Calif. 240 meters. 100 watts. Savey Theater.

eater. kersfield, Calif. 240 meters. 100 watts. Frank Dally ex. Sun. 8-9 p.m. reports, music. Pacific. attle, Wash. 270 meters. 100 watts. Rhodes Store. Lincoln, Nebr. 240 meters. 200 watts. Nebraska Auto Co. Announcer, Gayle Grubb. Mon, Wed, 7:30-9:30 pm. Sun, 4 pm, church services.

DZB.

KFDJ,

T30 pm, taiks, induct. Pather. 500 watts. Western Radio Corp.
KFAF, Boulder, Colo. 213 meters. 500 watts. Univ. of Colo. Announcer, F. M. Orsborn. Tues, Thurs, Sat. 9 pm, time, music, addresses by faculty. Sat, 2:30-5 pm. sports. Mountain.
KFAN, Moscow, Idaho. 230 meters. 50 watts. University of Idaho.
KFAU, Boise, Ida. 275 meters. 500 watts. Boise H. Station." Daily ex Sat. Sun, 3:30-4:15 pm, markets. weather, news. Mon, Fri, 8-9 pm, concert. Mountain.
KFAW, Santa Anna, Calif. 214.2 meters. 50 watts. Radio Den. Sloran: "Where There Is Always a Friend from Your Old Home Torw." Daily ex Sun, 4:30-5 pm, news, reports, music. Mon, Thurs, concert. Pacific.
KFBB, Harre, Mont. 275 meters. 50 watts. F. A. But-trey Co. Announcer, C. O. Boettger. Daily ex Sun, 12:45 pm, markets, weather, reports. Mountain.
KFBC, San Diego, Calif, 278 meters. 15 watts. W. K. Azbili. Thurs, Sun, 8-9 pm, Bible lesson, sermon. Pacific.

Azbilt., Thurs, Sun, 8-9 pm, Blble lesson, sermon. Pacific. FBG, Tacoma, Wash. 250 meters. 50 watts. First Prestyterian Church. Announcer, Frank Tovey. Sun, 11K, Dan, 7:30-9. Pacific. FBK, Sacramento, Calif. 283 meters. 100 watts. Kim-ball Opcon Co. Wash. 224 meters. 15 watts. Lesse Bros. Announcer, R. H. Lesse. FBL, Evereture, R. H. Lesse. FBL, Lauie, Wyo, 270 meters. 50 watts. The 'athedral. Wed, 5:45 pm, chimes. Sun, 5 pm, 7:30, church Promis, Ariz. 238 meters. 10 watts. Nelson Radio Supply Co. Announcer, E. A. Nielsen. Slogan: "When 14's Wintertime in Michigan, 14's Summer 'When Here." Daily. 7-7:30 pm, bedtime storles.

time Down Here." Daily. 7-7:30 pm, beddime stories. Mountain. KFCC, Helena, Mont. 247.3 meters. 10 watts. The First Congregational church. Announcer, George C. Stocking. Sun. 11-12:15 pm, church service; 6:30, hedtime story 7:30-9, service. Mountain. KFCF, Walla Walla, Wash. 256 meters. 100 watts. Frank A. Moore. Slogan: "The Valley They Liked So Well They Named It Twice." 66 meters. 100 watts. Leslie E. Rice. KFCP, Ogden, Utah. 360 meters. 10 watts. Ralph W. Flygars. Le Mars, Ia. 252 meters. 50 watts. Western KFOF, 1c Mais, 1a. 255 Meters. 50 watts. Central WFCZ. Omaha, Neb. 258 meters. 50 watts. Central H. S. Announcer, Arnold Cisler. Dally ex Sat, 3-5 pm, orchestra, organ. Mon. Tues, Thurs, 7:30-9 pm. Sat. midnight program. Central.
 KFDD, Boise, Idaho. 275 meters. 10 watts. St. Michael's Episcopal Cathedral. Announcer, Paul Roberts. Sun, 11:15-12:30 pm, 7:30-9:15. Mountain.
 KFDH, Tueson, Ariz. 258 meters. 50 watts. Univ. of Ariz. Announcer, Max Voss Kuehler. Irregular schedule.

Ariz Announcer, Max Voss Kuehler, irregular schedule. FDJ, Corvallis, Ore. 254 meters. 50 watts. Oregon Agri. College. Announcer, Jacob Jordan. Mon, Wed. Fri. 7 pm, college news. Pacific. FDL, Denver, Colo. 226 meters. 50 watts. Knight-Campbell Music Co. FDM, Bcaumont, Tex. 315.6 meters. 500 watts. Mag-nolia Petroleum Co. Announcer, Magnolene Mike. Slogan, "Kall for Dependable Magnolene." Tues., Fri. 7.7:30 pm, children's hour; 8, concerts. Every other Sun. 9 pm. Central. FDX, Shreveport, La. 250 meters. 100 watts. First Baptist Church. Announcer, Dr. M. E. Dodd. Wed, 9:10 pm, musio, talks. Sun, 11 am, 7:45 pm. Central. tral. 7. Brookings, S. D. 273 meters. 100 watts. S. State College. Announcer, G. A. Rietz. Daily Sun. 12:15 pm, livestock markets. Tues, 11 am. ic. lecture. Thurs, 8-9 pm, music, lectures.

ral. , Minneapolis, Minn. 231 meters. 10 watts. ry O. Iverson.

KFDZ, Minneapolis, Minn. 231 meters. 10 watts. Harry O, Iverson.
KFEC, Portland, Ore. 248 meters. 50 watts. Meier & Frank Co., Inc. Daily ex Sun, 12 m, weather, reports; 4-5 pm, music; 6:30 pm, weather, erop, markets, re-ports. Thurs, 9-10 pm, concert. Sat, 11 an-12 m, children's hour. Pacific.
KFEL, Denver, Colo. 254 meters. 50 watts. The W. L. Winner. Baily coson. Announcer, Capt. W. L. Win-ner. Daily cx Sun, 9 am, 10, 11, 2 pm, 3-4. Tues, 8-9 pm. Thurs, 10-12 m. Frl, 8-9 pm. Sun, 9-10 am. Mountain.
KFEQ, Oak, Nebr. 268 meters. 100 watts. J. L. Scror-gin. Announcer, Clarence Koch. Frl, 9-10 pm. Central. gin. Announcer, Chaine Louis Lin, Central.
KFER, Fort Dodge, Ia. 231 metera. 10 watts. Auto Electric Service Co. Announcer, H. E. Giltner.
KFEY, Kellogg, Ida. 233 meters. 10 watts. Bunker Hill & Sullvan Mining & Con. Co. Announcer, Waiter C. Clark. Slogan: "Volce of the Coeur D'Alene." Mon, Wed, Sat, Sun, 7:30-8:30 pm. Deaths. Moberly, Mo. 266 meters, 50 watts. Firat t Church. Announcer, Granville Ray Boote. : "The Gospel Messenger of tho Alr." Sun,

biology, A. Do mouncer, Granville Ray Boote.
 an: 'The Gospel Messenger of the Alr.' Sun, am, 11, 7:30 pm. Central.
 Sparks, Nev. 226 meters. 10 watts. Nevada
 Journal.
 Lamoni, Ia. 250 meters. 100 watts. Grace-College. Announcer, R. A. Cherlle. Mon, 7:30 musicale. Thursday, 7:30-8:30 pm, educational ram. Sun, 11 am 2nd 3rd, 4th Sundays; 7:45 lat Sun, each month.

KFFY, Alexandria, La. 275 meters. 50 watts. Louis-iana College. Mon. Thurs, 7-8:30 pm. Central. KFGC, Baton Rouge, La. 208 meters. 100 watts, Louisiana State University. Thursday, 8-9 pm. Control. Louistana State University. Thursday, 8-9 pm. Central. Central. Chickasha, Okla. 252 meters. 100 watts. Okla. College for Women. Announcer, J. A. Teeters. Tues. Thurs. Sat, 8 pm. music, lectures. Wed, 10 am, chapel service; 11 pm, special jazz program. Central. KFGH, Stanford Univ., Calif. 273 meters. 500 watts. Leland Stanford Junior University. No regular sched-me

KFGH, Stanford Junior University. No regular sched.
KFGM, Bone, L. 226 meters. 10 vatts. Cramping Boome Station." Wed, 8-9 pm. Sun, 3-4 pm. Central.
KFGX, Galveston, Texas. 240 meters. 10 vatts. Cramping Boome State College of Colorado. Announcer, E. Russel and the story: 5 pm. numerics. Coll. 252 meters. 50 vatts. Users en State College of Colorado. Announcer, E. Russel and the story: 5 pm. numerics. Coll. 252 meters. 10 vatts. Cramping State College.
KFHA, Gunnison, Colo. 252 meters. 50 vatts. Westsel College.
KFHA, Gunnison, Colo. 252 meters. 50 vatts. Vestsel Coll. 200, orchestra. -Alountain.
KFHA, State College of Colorado. Announcer, E. Russel College.
KFHA, Scattle, Wash. 263 meters. 100 vatts. State Battara. Calif. 360 meters. 100 vatts. State Battara. Calif. 360 meters. 100 vatts. State Battara. Calif. 360 meters. 100 vatts. State State. Col. Announcer, Fig. 6:30-7:30 pm. New, Fig. 5:30 pm. Mon. Wed, Fig. 6:30-7:30 pm. Sun. 1:2:30 pm. Central.
KFHA, Scattle, Wash. 263 meters. 100 vatts. State Battara. Calif. 360 meters. 100 vatts. State Battara. Calif. 360 meters. 100 vatts. State States. Coll. Announcer, Rust. 100 vatts. State States. Coll. Announcer, Rust. 100 vatts. State States. Coll. 467:162 pm. dinner. States. 200 pm. Methods. State States. 1:00 vatts. State States. 1:00 vatts. Battar. Coll. 2:00 pm. dist. State States. 1:00 vatts. Battar. Calif. 467 meters. 1:00 vatts. Battar. States. 1:00 vatts. Battar. The Radid. Scentral. Super States. 1:00 vatts. Battar. Calif. 467 meters. 1:00 vatts. Battar. State. 2:20 pm. dist. State. States. 2:20 pm. dist. State. States. 2:20 pm. dist. State. States. 2:20 pm. dist. State. 2:20-7:20 pm. dist. State. 2:20 pm. dist. State. 2:20-7:20 pm. dist. State

"The Sunshine Center of America." Sat, 8 pm, music, Mountain. KFLU, San Benito, Texas. 236 meters. 15 watts. San Benito Radio club. Announcer, R. W. Thacker. Slogan, "Heart of the Magic Valley." Mon, Thurs, Sat, S:30-10 pm, concert. Sat, 8:30 pm, Sunday school lesson, Central. KFLV, Ruckford, 111. 229 meters. 100 watts. Swed-ish Evangelical Mission Church. Announcer, A. T. Frykman. Fri, 8:30 pm. Sun, 12:30 pm, service for shut-ins (Swedish); 9:30, service (English). Central. KFLX, Galveston, Texas. 240 meters. 10 watts. George R. Clough. Sat, 8 pm,

### CHALLENGE!

ONE DOLLAR will be paid to the Radiophan submitting the most errors in any one station's list-ing. Letters must reach Radio Digest office not later than one week from date of issue correcting one station, but such corrections must be certified by the stations themselves, and NOT by comparison to other so-called ac-curate Radiocast directories and lists. That's just how sure Radio Digest

by comparison to other solvaned ac-curate Radiocast directories and lists. That's just how sure Radio Digest is that this Radiophone station di-rectory is correct! To make the chal-lenge fair for everyone, Radiocast stations and their employes are barred from this offer. Why? Be-cause the Radiocasters are the source of all the data given herein. They are (or should be) interested enough to answer the inquiry sent them every time data on their station ap-pears. This inquiry contains a proof of their last listing and must either be corrected or O K'd as correct and returned to the Digest. Nevertheless, sometimes the stations are careless and mistakes are made. But Radio

CINCLE: Digest is so sure of the exactness of suade unconditionally. With reference to the directory: frappears in five parts, serially con-station data listings, arranged alpha-tic data li

John M. E. Church, S. Slogan, "Keeping Pace with Christ Means Progress." Wed, Fri, 8-10 pm, popular program. Sun, 1-3 pm, chapel service. Central. KFPX, Pine Bluff, Ark. 242 meters. 100 watts. First Presbyterian Church. Announcer, Howell L. West-brook. Sun, 11 am, 12 m, 7:30-8:30 pm, cburch services. Central. KFPY, Spokane, Wash. 266 meters. 100 watts. Symons Investment Co. Announcer, E. B. Craney. Tues, Wed, Thurs, Fri, 6:43-7:20 pm. Tues, 9-11 pm. Fri, 9:30-11:30 pm. Pacific. KFQA, St. Louis, Mo. 261 meters. 50 watts. The Principia. KFPY, Spokane, Wash. 266 meters. 100 watts. Symons Investment Co. Announcer, E. B. Craney. Tues, Wed, Thurs, Fri, 6:45-7:20 pm. Tues, 9-11 pm. Fri, 9:30-11:30 pm. Pacific.
 KFQA, St. Louis, Mo. 261 meters. 50 watts. The Principia.
 KFQB, Fort Worth, Tex. 254 meters. 100 watts. The Searchlight Pub. Co. Announcer, Y. M. Cornelius. Sun, I1 am, 7:15 pm, church services. Tues, Wod, Thurs, Fri, 8 pm, music. Sat, 8 pm. concert, Bible lecture. Central.
 KFQC, Taft, Calif. 231 meters. 100 watts. Kidd Bros. Radio Shop.
 KFQE, Colorado Springs, Colo. 224 meters. 100 watts. Dickinson-Henry Radio Laboratories.
 KFQE, Los Angeles, Calif. 223 meters. 50 watts. Soubtern Calif. 231 meters. 50 watts. Southern Calif. Radio Assn.
KFQH, Burlingame, Calif. 231 meters. 50 watts. Albert Sherman.
KFQM, Austin, Tex. 268 meters. 100 watts. Texas Highway Bulletin. Announcer, Gorge M. Bakker. Daily er Sun, 7 pn. 9. Central.
KFQN, Portland, Ore. 283 meters. 5 watts. Tbird Baptist church. Wed, FrI, 8-9 pm. Sun, 9:45-10:30 am 9-10 pm. Pacific.
KFQN, Portland, Ore. 283 meters. 10 watts. George S. Carson, Jr., Wed, 8-9 pm. Sat, special programs. Central.
KFQN, Oklahoma City, Okla. 209.7 meters. 50 watts. Walter La Fayette Ellis.
KFQT, Denison, Tex. 252 meters. 10 watts. Texas National Guard. Announcer, Robert Cox.
KFQU, Holy City, Calif. 234 meters. 100 watts. W. Riker. Announcer, Anhur J. Landstrom. Daily et Mon. 9-10 pm. Sun, 11-12 m. 9-10 pm. Pacific.
KFQW, North Bend, Wash. 215.7 meters. 50 watts. The Photo Radio and Elec. Shop. Announcer, Carl F. Knierim. Slogan, "Athew 215.7 meters. 50 watts. The Photo Radio and Elec. Shop. Announcer, Carl F. Knierim. Slogan, "Athew 205 watts. Slogan, "Where State Bank, Announcer, A. H. Abts. Slogan, "Where State Bank, Announcer, A. Slow atts. Jailfed H. Hobard.
KFQZ, Beiden, Neb. 273 meters. 50 watts. Hall Brothers. FT, 10 pm. Central.
KFRB, Beeville, Tex. -248 meters. 250 watts. Hall Brothers. FT, 10 pm. Central.
KFRB, Beeville, Tex. -248 meters. 50 watts. Hall Brothers. FT, 10 pm. Central.
KFRB, Beeville, Tex. -248 meters. 10 watts. W. R. Barton Cong.
KFRB, Grafton, N. D. 268 metera. 10 watts. The Radio Shop.

KFRH, Grafton, N. D. 268 metera. 10 watts. The

KFRF, Alexandria, La. 242 meters, 10 watts. W. R. Brown.
KFRH, Grafton, N. D. 268 metera. 10 watts. The Radio Shop.
KFRI, Conway, Ark. 250 meters. 10 watts. Guy Sim mons, Jr.
KFRL, Grand Forks, N. Dak. 240 meters. 10 watts. Men's club, First Presbyterian church.
KFRL, Grand Forks, N. Dak. 240 meters. 10 watts. Men's club, First Presbyterian church.
KFRL, Grand Forks, N. Dak. 240 meters. 10 watts. Men's club, First Presbyterian church.
KFRM, Fort Sill, Okla. 263 meters. 50 watts. James P. Boland.
KFRN, Hanford, Calif. 224 meters. 5 watts. M. Laurence Short.
KFRD, Fort Worth, Tex. 216 meters. 50 watts. Curtis Frinting Co. Announcer, James R. Curtis. Slogan: "Who Does Your Printing?" Sat. 8-10 pm. Central.
KFRP, Redlands, Calif. 211 meters. 16 watts. Trihity Episcopal lourch. Satt. 7:30-8 pm, organ. Sun, 11-12:30 pm; 7:30-8:30, church service. Pacific.
KFRU, Bristow, Okla. 206.9 meters. 500 watts. Etherical Radio Co. Mon. 8 pm. Wed. 7:30 pm; Prior pmi, 7:30 Central.
KFRW, Olympia, Wash. 220 meters. 100 watts. J. Gordon Klemgard. Announcer, Gordon Klemgard. Susan, "The Only Farmers Radio Station in the World." Daily ex Sun, 9:10 pm, news, music. Pacific.
KFRY, State College of Agriculture and Mechanic Arts. New Mexico College of Agriculture and Mechanic Arts. New Mexico College. N. M. 266 meters. 50 watts. The Electric Shop. Announcer, P. M. Thies, Daily ex Sun, 11:153 am, news, maticts 4:15:1515 pm, netertainment. Sun, 12:1:30 pm, entertains. Contral.
KFSY, Helena, Mont. 248 meters. 10 watts. The Van Bularicom company. Announcer, Red. 30:30-4:30 pm. 7:30-4:30 pm. 7:30-4:30 pm. 10:30-12:30 pm. Central.
KFU, Galveston, Tex, 253 meters. 10 watts. Thousand Sogan, 5:45 markets. Mon, Wed, 8:-9 pm. 0:30-12:30 pm. 2:45:30 pm. duraters. 500 watts. Anneuls Temple. Tues, Tours. Fri, Sat, 3:30-4:30 pm. 10:30-12:30 pm. 2:45:30 pm. 4:45:30 pm. 0:30-12:30 pm. 1:45:45:30 pm. 4:45:30-130 pm. 10:30-

L. Sherman, L. Sherman, KFUT, Salt Lake City, Utah. 261 meters. 100 watts. University of Utah. Tues, Thurs, 12 m. Mountain. KFUU, San Leandro, Calif. 224 meters. 100 watts. Colburn Radio Laboratories. KFUV, Springfield, Mo. 252 meters. 10 watts. G. Pear-Colburn Radio Laboration KFUV, Springfield, Mo. 252 meters. 10 watts. G. Fear-son Ward. KFUW, Moberly, Mo. 233 meters. 10 watts. Earl Wm. Lewis. KFUY, Butte, Mont. 254 meters. 5 watts. Irvine H. Bouchard. KFWB, Hollywood, Calif. 252 meters. 500 watts. War-

C. A.
(F.W.B. Hollywood, Calif. 252 meters, 500 watts. Warner Brothers.
(FWG. Upland, Calif. 211.1 meters. 10 watts. L. F.
(Wall & C. S. Myers.
(GB. Tacoma, Wash. 249.7 meters. 50 watts. Tacuma Daily Ledger. Announcer, Alvin Stenso. Slogan, "This is KGB in Tacoma, Washington, the Lumber Capital of America and the Gateway to Mount Tacoma." Mon, Wed, Fri, 7-9 pm. Pacific.
(KG, Oakland, Calif. 361 meters. 1,500 watts. Gen. 2009, "State State S

A. Multony, Dally, 1:30-5 F. Hours Homer Worley, Dally, 1:30-5 F. 2½ hours Sat, special program. 150 metidian. 2½ hours than Pacific. (Note=The second part of the station data II. appear next week.)

nouncer, Albert Mayer. Daily ex Sun, 5 pm, music, news, markets, weather. Central. FIB, Marshallown, Iowa. 248 meters. 10 watta. Marshall Elec. Co. Announcer, E. N. Peak. Slogan: "Marshallown, the Heart of Iowa." Daily ex Sun, 10 am, markets. Tues, Fri, 8:30 pm. Central. FIF, Oklahoma City, Okla. 261 meters. 225 watts. National Radio Mfg. Co. Announcer, Tired Hand. Slogan: "Radio Headquarters." Daily ex Sun, 9:50 am, 12:15 pm, markets; 7 pm. Daily ex Sun, 9:50 am, 12:15 pm, markets; 7 pm. Daily ex Su, Sun, 3:15 pm, markets. Sun, First Baptist church. Central. Central. KFJI, Astoria, Ore. 252 meters. 10 watts. E. E. Marsh-and Liberty Theater. Announcer, E. E. Marsh-Wed, Fri, 10-11 pm, organ. Sun, 10:30-11 pm. Pacific. Wed, Fri, 10-11 pm, organ. Sun, 10:30-11 pm, Pacific.
KFJM, Grand Forks, N. D. 278 meters. 100 watts. University of North Dakota. Slogan; "Grand Forks, the Educational Center of the State."
KFJR, Portland, Ore. 263 meters. 5 watts. Ashley C. Dixon & Son. State Teachers' College. Educational programs.
KFJY, Fort Dodge, Iowa. 235 meters. 50 watts. Iowa State Teachers' College. Educational programs.
KFJY, Fort Dodge, Iowa. 246 meters. 50 watts. Tun-wall Radio Co. Announcer, Carl Tunwall. Dally, 12 m, 5:45 pm, markets, news, weather. Wed. 9 pm, orchestra. Thurs, 6 pm, agriograms, weather builtetins, news. Sun, 11 am. Sun, 3:30 pm, music. Central.

Drake. Daily 2-3 pm; 6-6:30, news, music. Pacific. KFNY, Helena, Mont. 248 meters. 50 watts. V. Kemp Roberts. Experimental station. KFOA, Seattle, Wash. 454.2 meters. 500 watts. Rhodes Dept. Store. Announcer, Carl E. Haymond. Daily ex Sun, 4-5:15 pm. Tues, Wed, Thurs, Fri, 12:30-1:30 pm. Daily ex Thurs, Sun, 6:45-8:15 pm; 8:30-10, Times program. Tues, Fri, Sat, orcbestra. Pacific. KFOC, Whitler, Calif. 236 meters. 100 watts. First Croitsian Church. KFOJ, Nolarle, Idaho. 224 meters. 10 watts. The Radio Shop. KFOJ, Moherly, Mo. 246 meters. 5 watts. Moberly High school. Announcer, Herbert Settle. KFOJ, Marengo, Ia. 234 meters. 100 watts. Leslie M. Schafbuch. KFOL, Marengo, Ia. 234 meters. 10 watts. Leslie M. Schafbuch.
KFON, Long Beach, Calif. 234 meters. 100 watts. Echophone Radio Sbop. Slogan, "Where Your Solp Conces In." Tues, Wed, Fri. 2:30-4 pm; 7:30-40. Sun, 11-12 m., 8-9 pm. Pacific.
KFOO, Salt Lake City, Utah. 261 meters. 5 watts. Latter Day Saints University. Announcer, Don C. McRae.
KFOR, David City, Neb. 226 meters. 20 watts. David City Tire & Elec. Co. Slogan, "The Voice of David City," Announcer, Howard A. Shuman.
KFOT, Wichita, Kanasa. 231 meters. 50 watts. College Hill Radio Club. Announcer, Leon Garnett, Slogan, "Radiocasting Church." Sun, 11-12:30-9, church services. Mon, 9-10:30 pm, music. pm. orchestra. Thurs. 6 pm. agriograms, weather builetins, news. Sun, 11 am. Sun, 3:30 pm, music. Central.
KF1Z, Fort Worth, Texas. 240 meters. 20 watts. Texas Sat. 8:30-10 pm, program. Central.
KFKA, Greeley, Colo. 273 meters. 50 watts. Colorado State Teachers College. Announcer, Brewer Boardman. RFKB, Milford, Kans. 273 meters. 50 watts. Colorado State Teachers College. Announcer, J. R. Brink, ley. Jongan. "The Home of Gland Transplantation." RFKA, Groway, Ark. 250 meters. 100 watts. Conway, Radlo Lab.
KFKU, Gurvay, Ark. 250 meters. 100 watts. Conway, Radlo Lab.
KFKV, Butte, Mont. 233 meters. 500 watts. University of Kansas. Announcer, John F. Patt. Mon, Thurs, 8 pm; Sat, 10-11 pm; Signans: "The Empress of the Alr." "The Pioneer Re-Broadcasting Station of the World." Mon, Thurs, 8 pm; Sat, 10-11 pm; Signans: "The Empress of the Alr." "The Pioneer Re-Broadcasting Station of the World." Mon, Thurs, 9:30-11 pm, broadcasts own program. Re-broadcasting Relat. 266 meters. 25 watts. National Bcucational Service. Signational. Science, Merg. Co. 268 meters. 25 watts. Signatic. Wilson.
KFLE, Denver, Colo. 268 meters. 25 watts. Signatic. KFLE, Denver, Colo. 268 meters. 25 watts. Signatic. KFLE, Menoninee, Midt. 248 meters. 50 watts. Signatic. KFLE, Menoninee, Midt. 248 meters. 50 watts. Signatic. KFLE, Albuguergue, M. M. 254 meters. 100 watts. West. Wilson.
KFLE, Denver, Colo. 268 meters. 25 watts. National Bcucational Service. Signatic. Signatic. KFLE, Albuguergue, M. M. 254 meters. 100 watts. West. Weider Misson.
KFLE, Henver, Mindt. 248 meters. 50 watts. Signatic. KFLE, Albuguergue, M. M. 254 meters. 100 watts. West. Broadcasting Station of the World. Weider Signatic. Weider Signatic. Wilson.
KFLE, Albuguergue, M. M. 254 meters. 20 watts. Signatic. Weider. Midding Signational Service. Signatic. Weiders. 20 watts. Weider Wilson.
KFLE, Albuguergue, M. M. 254 meters. 100 watts. Weider Midding Signatin Weider Misson.
KFLE,

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S UPREME QUALITY of Broadcast Programs is the 1925 radio demand—quality of entertainment, quality of information, quality of instruction.

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