"Static-Free Aerials," by Dr. Rogers

Radio Disest EVERY INPROGRAMS WEEK INPROGRAMS CENTS

Vol. XVI

Copyright 1926 By Radio Digest Publishing Co.

JANUARY 9, 1926

No. 1



Hoot Owls Hoot and the "Mystery Girl" Unmasks; "King" Milo Gurney Simplifys Radio; Lack of Radio Lost Georgian War; Women's Programs; "Ohm" the Radio Dog, Speaks

PIONEER ANNOUNCER WILL FORSAKE MIKE

VOICE OF HAROLD W. ARLIN GAINED FAME AT KDKA

Promotion in Westinghouse Company Will Necessitate His Making Mansfield, Ohio, His Home

PITTSBURGH.—One of the best known voices in the world became silent, as far as the Radio audience is concerned, when Harold W. Arlin, pioneer announcer of the world and chief announcer of Westinghouse Station KDKA since its beginning in 1920, severs his connection with the station to take a position in the commercial world that will necessitate ending his residence in Pittsburgh.

Mr. Arlin remains with the Westingouse company, however, as he has been ippointed manager of personnel for the Westinghouse Electric Products company, at Mansfield, Ohio, and with his removal to the Ohio city has resigned his position as Chief Announcer of KDKA.

Popular All Over World
The hold Mr. Arlin has on the Radio audience is evidenced by the thousands of letters he has received from every section of the United States and from nearly every civilized country in the world. He is one of the incorporators and the first vice-president of the National Association, Radio Announcers of America.
One of the highlights of Mr. Arlin's

One of the highlights of Mr. Arlin's Radio activities was the handling of the concerts from Wanamaker's in New York and Philadelphia which were transmitted to England by the Westinghouse international short wave relay system.

Mr. Arlin is a native of Missouri and is a graduate of the University of Kansas with the degree of bachelor of science in electrical engineering.

FUNDS ASKED FOR INSPECTION FIELD

Bureau of Budgets Recommends Sufficient Funds to Increase Force

WASHINGTON.—If the recommendation of the bureau of the budget is adopted by congress, sufficient funds will provided for the Radio section to atly increase its inspection field force. h a step would result in greatly imved service to the public through the nination of interference.

Officials of the budget bureau refuse to disclose the amount they have recommended for the Radio service. The opinion prevails, however, that the demands of the Radio bureau were given more consideration this year than at any previous

The budget bureau recommended an increase in the appropriation for the Radio service last year, but the recommendation was defeated in the house appropriation committee.

Pushing Cow Up-Hill Is Better Than Radio Drill

Strong Willed Bossey Provides Exercise and Plenty Laughs

SAN FRANCISCO.—At last something has been found which Radio cannot do. Health training exercises broadcast from KGO are good enough, as thousands of letters testify. But pushing a cow up-hill every morning before breakfast, causing joy in the entire neighborhood, is held to be more efficient than Radio physical drills.

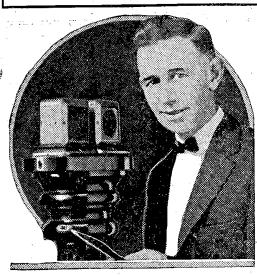
Here is a letter sent to the studio manager of KGO. "I have tried all your exercises, but I like my own little work-out better. Every morning, before breakfast, I wrestle with a strong-willed, determined-eyed cow, pushing her up-hill against her wishes. I must say it puts our Radio exercises completely in the ade for efficiency.

"My cow exercises bring all the muses of the body into play, and at the same time gives plenty of chance for muscles of the jaws. And the whole neighborhood gets the benefit of the 'laughing exercise,' which you recommend so highly.

Canadian Listeners Can Rent Telephone Poles for Aerials

WINNIPEG, Manitoba.—The owners of Radio receiving sets in Manitoba do not have to take a course in steeplejacking or hire a human fly to put up an aerial. The Manitoba Telephone System, operators of Station CKY, rents the use of its poles for the attachment of Radio antennas in cases where the poles are conveniently located. A small fee is charged for rental, labor and inspection.

Arlin Leaves KDKA



Harold W. Arlin before the microphone of the Westinghouse Station KDKA at Pittsburgh, which he will leave to take up new duties at Mansfield, Ohio.

Deny Broadcasting Stations All Higher Power Requests

WASHINGTON, D. C.—It is understood that the Radio section of the department of commerce is receiving a large number of requests from low-power broadcasting stations in class A for increased power. The department is turning down these requests, it is understood, as recommended by the recent Radio conference in which it was held that increased power should be treated as new stations.

COY MISS ON COVER GIVES BEAUTY HINTS

COME folks have their good looks by a gift of nature. Others acquire them. We venture that the dainty little miss on our cover this week was just naturally endowed. But one would think it was acquired, to hear her talk ing to the listeners in over WMBB, Chicago, The call letters stand for the "World's Most Beautiful Ballroom" and that is what they call the Trianon and beauty is the keynote and spirit of the place. Miss Beulah Clark, this week's cover girl, tells those who would like to know in the privacy of their own homes, by means of the Radio, just what to do to keep beautiful and how to do it. She arouses interest when she is heard and carries conviction when she is seen.

Canadian Railway Stations Are Heard in Los Angeles

MONTREAL, Canada.—Canadian Radio broadcasting stations have long ago established quite enviable reputations for sending their programs great distances, yet a new record has been established by CNRA and CRNV, the Atlantic and Pacific stations, respectively, of the Canadian National Railways, in simultaneously making known their presence in Southern California. The unusual performance was described in a recent letter from Paul J. Potter of Los Angeles, 3,004 miles away from the most distant of the two plants.

CONTENTS

Radio Digest, Illustrated, Volume XVI, Number 1, published Chicago, Illinois, January 9, 1926. Published weekly by Radio Digest Publishing Co., (Incorporated), 510 N. Dearborn Street, Chicago, Illinois. Subscription rates yearly, Five Dollars; Foreign Postage One Dollar additional; single copies Ten Cents. Entered as second class matter at the post office at Chicago, Illinois, under the Act of March 3, 1879.

All the Live News of Radio1 to	11
III the Live News of Radio.	4
Three Words by Radio Would Have Won Georgian was	E
Ohm" Tells Wee Lo About Bed Time Story Tellers	9
CPRC "Kotten Port Rail Center"	O
Ioot Mon! Hoot Owls Hoot at KGW and "Enigma" is Unmasked	7
Homonia Bogo, Index to Women's Programs	ΥT
Advance Programs for the Week	21
An Evening at Home with the Listener In; a Chart in Central Time, showing when	
to listen in for stations	20
Editorials, Indi-Gest and Condensed by Dielectric.	22
My Experiments with Underground Antennas, by Dr. J. Harris Rogers	23
My Experiments with Underground Entenness, by Di. C. Maria Bassiver	25
Operating and Trouble Shooting for the Owner of an Apex Super Five Receiver	20
A. B. C. Radio Fundamentals for Everybody, Part I—Audio and Wire Telephony, by Milo Gurney	27
by Milo Gurney	
Straight-8: Outside Aerial Tuned R.F. Super, Part IV—Adjusting and Operation, by Jacques Fournier	29
ny dacques routher	30
Questions and Answers	
Directory of Radiophone Broadcasting Stations, Part III (Revised)	OI

Looking Ahead

What Does Jiggs Think of Mike When Jiggs Happens to Be a Movie Monk and Mike a microphone? See the answer in next week's Radio Digest. Special article with pictures tells how monkeys, sea lions, birds, dogs and other animals behave in the presence of the microphone and the effect on the listener.

Radio Pie and Wireless Spaghetti are among the new and practical by-products of kitchenette Radio. Ida Bailey Allen, the "Nation's Home-Maker," broadcasts recipes and gives wholesome advice to thousands of listeners who write to her and are helped by her kitchen suggestions. In the next Radio Digest.

and are helped by her kitchen suggestions. In the next Radio Digest.

Another One of Those Big Eastern Stations—WMCA—will entertain readers of the Radio Digest by proxy of a staff correspondent next week. There will also be an interesting account of how two Kansas City brothers got their start in college through the microphone of the Kansas City Star Radio station.

Radio Station KFOA Is One of the Pioneer Stations of the Great Northwest. It started back in 1922, at the Rhodes department store with 50 watts. It has kept pace with the times and last September marked its third step of progress when it went to 1,000 watts. Story of the rise of this remarkable station in next week's issue.

A.B. C. of Radio Fundamentals, as expounded by Milo Gurney, next week takes up the relationship between Radio and the two allies from which it borrows much—wire telephony and audio telephony. Mr. Gurney, being an old-timer in this field, and having followed it from its dot and dash infancy of 1906, is in a position to give our readers correct, concise, reliable information.

For the "Operating and Trouble Shooting" Series the staff has gone over the Thorola Islodyne and the results of its findings will be contained in next week's issue. These articles are not alone of value to the man who happens to own one of the sets mentioned, but contain much of value as to set design for the home builder.

Newsstands Don't Always Have One Left

WHEN YOU WANT

Radio Digest

BE SURE OF YOUR WEEKLY COPY
BY SUBSCRIBING NOW

YOU WANT IT!

SEND IN THE BLANK TODAY

AMRAD COMPANY IS BOUGHT BY CROSLEY

STATION WARC WILL AGAIN BROADCAST PROGRAMS

New Radio Receiver Is Designed for Factories of American Radio and Research Corporation

BOSTON.—Assets of the American Radio and Research corporation at Medford Hillside, which went into bankruptcy last April, have been purchased by Powel Crosley, Jr., nationally prominent Radio manufacturer of Cincinnati, it was announced recently by Harold J. Power, former president of the corporation, and before many weeks it is expected that listeners in will again hear Station WARC. A new 500-watt transmitter is near completion and it is planned to send its programs out from one or several of the Boston studios.

A newly organized Amrad Radio corporation will soon go into production, it was announced, with Mr. Power president and Mr. Crosley probably chairman of the board of directors. Mr. Power is credited with being the man responsible for the first programs over the air, back in 1915, when his station was operated under an experimental license with the call letters 1XE. Later, it became WGI, and its last call letters were WARC.

STATIONS STRIVE TO GET LICENSES

Prospective Broadcasters Making
Every Effort for Wave Length
—Door Has Closed

WASHINGTON, D. C.—Almost frantic efforts are being made by the owners of new stations already constructed or almost near completion to get wave lengths for them before the door is finally closed to new broadcasters.

In some cases, these newly constructed stations will be given wave lengths, according to officials of the department of commerce. It will depend entirely on the circumstances connected with each individual case.

Three stations are known by the department of commerce to be near completion and about ready to go on the air. One is in New York, another in Chicago, and the other in St. Louis. In the cases of the New York and Chicago stations, it is doubtful if they have much chance of getting a wave length at present. It is believed that the new St. Louis station may be given a wave length as soon as it is possible to do so.

In individual cases, according to commerce officials, much will depend on whether the station was warned in advance that it could not get a wave length. If the station was constructed in the face of such a warning, it may not receive very sympathetic consideration by the government.

Radio to Link British, U.S. Telephone Lines

Committee to Investigate Possibilities Following Experiments

LONDON.—With a view to linking up the American and British telephone systems by means of Radio telephony, further experiments will be made at an early date. For some time there has been regular transmission of Radio telephonic messages from America to England, and these have been received by the post office and by the International Western Electric company.

The success of the American experiments led the postmaster-general in 1923 to appoint a committee to investigate the possibility of transatlantic Radio telephony being established on a reliable commercial scale.

Cincinnati Organists Will Present Series of Concerts

CINCINNATI.—Radio listeners will have the opportunity to hear the outstanding organists of Cincinnati in recitals to be given through the Crosley WLW broadcasting station every Sunday afternoon, beginning at three o'clock.

The first recital was by Adolph H.

The first recital was by Adolph H. Staderman, who was organist for the Cincinnati May festival for many years.

Programs are made up of a group of old favorite hymns and also the standard

organ repertoire.

Among the organists who will participate in this service, are: Mrs. Lillian Tyler Plogstedt, John J. Fehring, C. Hugo Grimm, Leo Thuis, Mrs. Lillian Arkell Rixford, J. Alfred Schehl and others.

OVERSEAS TRYOUTS FOCUS DIALS

NEWS BRIEFS FROM THE BROADCASTERS

ART HICKMAN LEAVES KHJ FOR LURE OF FLORIDA

Victor Concerts Now on WJZ Chain-Old Fiddlers Meet at WOS-Paul Reese at KFI

Florida is even attracting southern Californians. Art Hickman's band, long a broadcasting event of KHJ, Los Angeles, is moving to that state. A very good orchestra, Don Clark's La Monica orchestra takes the place of the band. Don Clark the leader was formerly a saxophone soloist with Paul Whitman.

A series of fine programs will be given this winter by the Victor Phonograph company over stations WJZ, WRC, WBZ. KDKA, and KFKX. These programs will include many celebrities.

Station WOS, Jefferson City, Monfiddled out the old year and fiddled in the new when over 80 old-time fiddlers from the state of Missouri gathered before the microphone of this broadcaster. The best old-time fiddler was chosen by the fans listening in. Postcards, telegrams, and telephone calls determined the winner.

Paul Reese, the popular announcer at KFI, Los Angeles, after an absence of several months, during which time he has been studying operatic roles, will return to his home station.

The KGO Little Symphony orchestra, Sunday afternoon, January 10, will feature the Dvorak New World symphony. Arthur S. Garbett, musical interpretative writer, will give a short talk about Dvorak and his work before the playing of the symphony by the orchestra. Ruth Waterman, contralto, will be the guest artist assisting.

The children had a special matinee recently at WOR Newark, when "Alice in Wonderland" was given. Only the most amusing scenes were played. The director of the Children's Radio theater, Clare Tree Major, gave the play in January because this is the birth month of Lewis

The Wanamaker series which was popular with fans last year has been resumed from WJZ, New York. The opening program presented the famous Russian string quartet and John Barnes Wells, tenor.

On Saturday night, January 16, the Hernandez Brothers, artists of all stringed instruments plucked with the fingers, will broadcast their first concert to American listeners, from KGO, Oakland, beginning at 8:10 p. m., pacific time. The brothers are native Indians from Columbia, Central America, and play the music of their native land as only natives can.

Robert Visconti's Hotel Gibson or-chestra will be heard through WLW from 12:30 to 1 p. m. central time Tuesday and Fridays, and Monday, Wednesday and Thursday evenings from 7 to 8 p. m.

Norman Brokenshire who has been heard lately from WRC, Washington, D. C., is back at WJZ, New York. He will take care of the microphone of the station which will use at times 50,000 watts.

Old favorites are rapidly returning to the air and one of the recent "come back's" is the Sunday evening concert by Joseph Knecht's orchestra at WJZ.

The Curb is the Limit club has reached its 100,000th member. Uncle Bob of KYW sent the 100,000th membership button to Joan Jule Kovacs, South Bend, Indiana. This club is to remind children to look both ways and count 10 before crossing E. C. J. Sandback WGBU Director

Vincent Lopez and his orchestra, who since 1923 have been one of the most popular dance organizations on the program WEAF, is now broadcasting from a chain of eight stations direct from Casa Lopez (the house of Lopez), in New York

Rudy Seiger, violinist-director of the Fairmount hotel orchestra, a daily feature of KPO, is again on the air. Mr. Seiger returns from a three months' European tour, during which he studied the new bad stroke of beginner's luck when one music and broadcasting conditions in Eu- of its towers, 133 feet high, collapsed and ropean countries. He appeared this sum- fell to the ground while being erected. A mer at WLS, Chicago; WEAF, New York; temporary wooden pole has enabled 2LO, London, and FL, Paris. 2LO, London, and FL, Paris.

International Test Programs

NOMPLETE, exclusive and special programs for the week of January 24 to 30, inclusive, for every European broadcasting station participating in the international tests, will appear in advance in Radio Digest, edition of January 23. Pictures and stories relating to European stations will appear as well in this special issue. Radio Digest staff correspondents in Great Britain and Continental Europe will give American listeners the best information obtainable anywhere on the international tests.

Wave lengths, hours, descriptions in detail of each number to be broadcast by European stations-all this and more will be found in the January 23 issue of Radio Digest. Be sure to reserve a copy at your newsstand. The special International Week issue will be in great demand.

TRULY SHATTUCK TELLS SECRETS



WLW Broadcasts Reports On Ohio River Conditions

CINCINNATI.—Through the efforts of Major W. W. Parker of the U. S. Engineers here, navigators, shippers, farmers and others for a stretch of 1,000 miles along the Ohio river, from Pittsburgh to Cairo, are receiving complete river information by Radio each morning.

At 10:45 a. m. central time, WLW broadcasts the official news of the weather, its prospects, the river and its stages, any unusual conditions or prospects in the tributaries of the Ohio, and whether the many dams on the thousand-mile stretch are up or down.

BROOKLYN .- Edward C. J. Sandback of Brooklyn N. Y., has been appointed studio director and chief announcer at Station WGBU, Fulford-by-the-Sea, in place of "Bob" Nolan who has resigned on account of his health, it was announced recently by M. C. Tebbetts, president of the Fulford-by-the-Sea chamber of commerce, which operates the station.

KTNT Tower Tumbles

MUSCATINE, Ia.—KTNT, located here, but a few weeks on the air, had a

Station Changes

Florida is booming in Radio stations as well as in real estate. The new voice is WDBO, Winter Park, Fla., 500 watts, 240 meters. The director is an old WSB man, Ed McConnell.

"The Voice of St. Louis" went on the air last week with the call KMOX. This station is more or less a community affair as 13 St. Louis organizations are contributing to its support. The station is located on the Hotel Mayfair at Kirkwood, Mo. The wave length is 261 meters.

The Haverford college new 1000-watt station is nearing completion and soon the call WABQ will be heard throughout the United States. This broadcaster is located in a suburb of Philadelphia.

familiar broadcaster puzzling fans with a new call. KFDJ, Corvallis, Ore. went on the air recently with the call KOAC.

The new Baltimore station, WBAL, has changed its wave length. Dial 246 meters or 1220 kilocycles now for this broad-

Loud Speaker Hook-Up

Dance music sufficiently loud to fill a good-size hall may be had by wiring several loud speakers together in series.

FANS ARE AWAITING **FOREIGN PROGRAMS**

INTERNATIONAL TESTS HOLD GREAT INTEREST

With Pacific Coast Stations Only Exception, U. S. Broadcasters
Getting Excellent Cooperation

CHICAGO.—With the interest of the Radio audiences over Europe and the western hemisphere steadily increasing and the greatest cooperation in the history of the tests being enjoyed by the broadcasters in the different countries and by those in charge of the arrangements, the Fourth International Radio Broadcasting tests, during the January 24-30, promise to be the biggest event that has been staged in the industry. Fans from more than 20 nations are clamouring for information concerning the tests and stations everywhere except on the Pacific coast are adopting an unselfish attitude, expressing their willingness to do what lies within their power to assure an overseas exchange of

To Unite Radio Fans

The international Radio week will be the most extensive program of international cooperation yet staged and the good to result from it will do more toward drawing the Radio fans of the world together than any single thing that has been done so far, in the opinion of Powel Crosley, Jr., chairman of the executive committee for the tests.

Foreign stations are arranging the most extensive programs they have put on the air and, undoubtedly, American and Canadian stations will extend themselves during the week. The complete programs of both the American and foreign stations will be carried in the Radio Digest in the issue of January 23. The call letters, wave lengths and other information to help the listener in will be given as well as pictures and feature articles relating to the European artists and stations to the European artists and stations.

Will Use High Power

Numerous stations this side of the Atlantic have signified their intention of increasing their power for the tests and practically every transmitter will be put in its best shape to get its greatest effi-ciency. Station OAK of Lima, Peru, is one of the latest foreign stations to announce their cooperation and will send on a wave length of 380 meters with increased power. Seven languages will be heard in the special addresses broadcast from Station KFUO, St. Louis, on Sunday, January 24, the opening day. Seven students of theology at Concordia semi-nary will broadcast the same message to Friday Night Is U. S. Special

During the week all broadcasting stations in the North American continent, including some South American stations, will be silent from 10 to 11 p. m., central standard time, to allow the European programs, which will be broadcast from 4 to 5 a. m., Greenwich time, to be received here without interference. This schedule will be followed during the week except on Friday night when for the first 15 minutes of the silent hour, the Atlantic coast stations will have the monopoly of the air, for the second 15 minutes the central western stations will broadcast, for the third quarter of the hour, the Rocky Mountain stations will be heard, and for the last 15 minutes of the specified time, the Pacific Coast stations will be sending out their programs.

Canada and Mexico Saturday

Saturday of the Radio week, January 30, the same domestic program will be carried out during the silent hour, except that during the first 15 minutes, the Canadian stations will have their chance, then the northern U.S. stations, next the southern U.S. stations, and during the last 15 minutes our Mexican neighbors will fill the air with their "hot tamale" messages.

Pacific Coast Refuses Period

At this time, just prior to going to the press, there remains but one obstacle to perfect cooperation between the different sections of this country in the tests. The majority of the major stations of the Pacific coast have refused to keep off the air or participate in the test program for the interchange of entertainment, and, unless previous decisions are rescinded, will prevent the United States from giving their full cooperation to the other 25 to 30 nations who will take part in the tests, KGO, the General Electric company's station at San Francisco, have, however, signified their intention of remaining silent at the specified times during the week as requested by the International Radio Week committee.

Three-Word Radiogram Could Have Won War



The leaders were devoted and ready to die for their cause. They had rehearsed every attack, had forefended every imaginable contingency, and yet, they had missed one vital point, one modern

Through the night the armed units moved bravely and swiftly. They surrounded the garrisons of the hated Russians. Struggles were brief and invariably successful for the conquering heroes. But it was a far flung line. The detachments that held the bridgeheads to the main command of the Moscow hordes were out of constant touch. One small detachment was surprised by the enemy. A spark—three words to the next command—"blow up bridges" would have

Frederic M. Delano, Paris correspondent of Radio Digest, presents herewith an exclusive and vivid account of one of the most dramatic incidents of modern history.

BY FREDERIC M. DELANO

Paris Correspondent of Radio Digest International Publication Rights Reserved (Photos Copyrighted by F. E. Compton Co.)

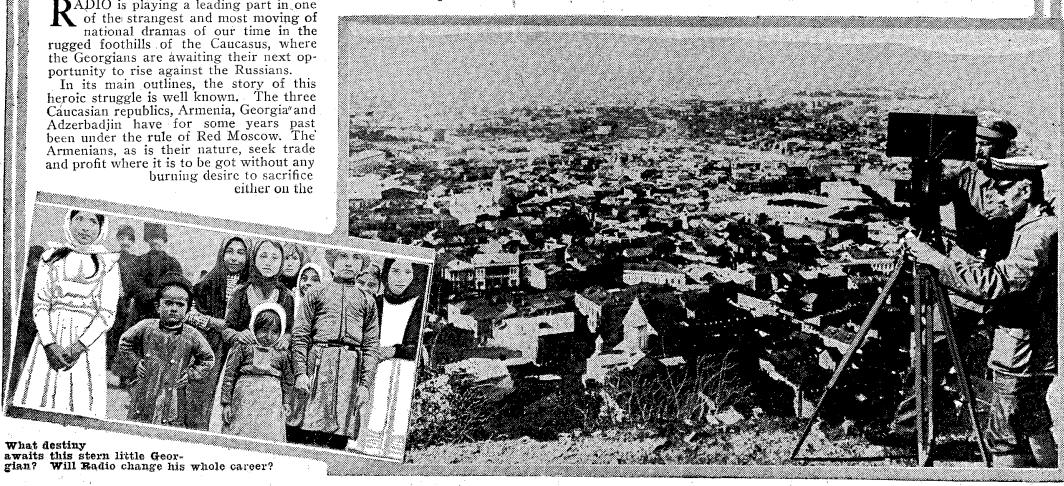
ADIO is playing a leading part in one

Under the heel of the Moscow terrorist is this proud city of Tiflis (below), capital of the Georgian republic. But Radio keeps the spark of hope alive and some day the patriots may rise again.

altar of freedom, so they give the Russians little trouble. The Mohammedans of Adzerbadjan look to Turkey for future aid and are content in the meantime to offer merely sullen acquiescence to the rule of the Moscow politicians. But the Georgians, white-skinned, proud mountaineers, are made of sterner stuff, and on several occasions they have risen and sought to drive out the oppressors.

The last big attempt was in the fall of last year. After serious fighting throughout the country, the rebellion was crushed. According to one of the most prominent of Georgian leaders in the field at that time "it was crushed through lack of Radio.

What he meant was this. The country is fairly big, with exceedingly difficult communications. The rising had, of course, to be prepared in profound secrecy and the guerilla nature of the fighting made open relations between the different districts difficult. "We lacked some means of general communication between our various columns. We lacked, for instance, some swift means of conveying an order to one local commander to blow up certain railway bridges on the main line the Russians had to use in order to bring up reinforcements. Had we had any Radio equipment, this would have been a (Continued on page 28)



Ohm Tells Wee Lo of Story Tellers' Hour



KPRC Helps Conquest of Texas Air Ranges

EXAS IS the biggest brother in the big family Union. Every school child knows there is more air at large over the area between Amarillo and Brownsville and El Paso and Beaumont than over the entire German

Yet it is scarcely true to declare that this vast etherial space over the Lone Star state is "at large." The fact is it is pretty well roped and tied according to the standards established by the fathers when barbwire was unknown and ranches were ordinarily defined by the survey-

Texas may be a big state but it is not gawky.

I the big men (they also grow more six ters to the square mile than any other state in the Union) have the atmosphere pretty well corralled so far as Radio is concerned. The 262,896 square miles within its borders are charged with the finest kind of Radio entertainment. The lonely rancher far off the motor trails and the track of the Iron Horse can slip out of his saddle into an easy chair, flip a dial or two, and hitch his Pegasus before the Rice Hotel of Houston or the Paso del Norte at El Paso, go in and listen to the music.

W. P. Hobby, former governor of the state personally inaugurated KPRC at Houston. He tendered the institution to the service of the Texas may be a big state but it is not gawky.

tendered the institution to the service of the state on behalf of the Houston Post-Dispatch of which he is president. Houston needed a Radio station. It was the strategic point for one and on three weeks notice G.E. Zimmerman, the present supervisor, had the parts assembled and put together ready for the first concert.

Of course there was a particular need for the rush order and the story of the occasion and the organization are told by the Texas correspondent of the Radio Digest, Mrs. Susan

Haymes, as follows:

Here he is, girls, Alfred P. Daniel (top) the good-looking announcer at KPRC. On his lapel you see Edna A da m s, "Sweetheart of the Air" and under his eye is charming Lois Lilley, assistant. G. E. Zimmer-man (left) is the

man (left) is the capable supervisor who installed KPRC in the record time of three weeks. He is assisted by Harry Crossman (above) an expert operator.

"Hello folks, everywhere," were the first words spoken into the air from Station KPRC—Houston, Texas, "Kotton Port Rail Center," the broadcasting station of the Houston Post-Dispatch. At exactly 8 o'clock, central time, on the night of May 9, 1925, KPRC came into being. Its opening was coincident with the beginning of the world convention of Associated Advertising clubs which met in Houston, May 9 to 14. The usual formalities of opening addresses were interspersed with most out-of-the-ordinary talent, for KPRC was brought into existence quickly with a definite purpose—the Houston Post-Dispatch wanted to give to the nations the details of the entire convention program—and success of the very highest order prevailed.

The First Garrison band of Mexico-a messenger of good will, sent to the convention by Few artists, American born, have mastered the accordion as well as Miss Virginia Will-Virginia Willrich (a bove,
left) at KPRC
and with Frank
Tilton, the
blind pianist,
this station
has two outstanding instrumentalists. Another
big feature is
the Sylvan the Sylvan
Beach Orchestra (right) of
the Port
Housen ground.

President Calles of the Republic of Mexico, himself a Radio enthusiast—was the biggest musical event of KPRC's initial broadcast. The weather was admirable and the large outdoor weather was admirable and the large outdoor promenade studio was christened with the selections "Over the Waves" and "La Golondrina," played as only native Mexicans can play the numbers so dear to their hearts.

Mayor Oscar F. Holcombe of the city of Houston, was first to apply the slogan of KPRC and briefly told of the fitness of the application to Houston as a port and rail center of prime importance.

ter of prime importance.

Former governor of the state of Texas, W. P. Hobby, now president of the Houston Post-Dispatch, gave the dedicatory address in terms of unmistakable generosity, whereby KPRC entered the field of the air to enlarge the knowledge of her listeners and to widen the horizon of usefulness for the Houston Post-Dispatch

The Royal Scotch Highlanders band of St. Petersburg, Fla., a bright light of the convention week, furnished a full score of entertain-

Judd Mortimer Lewis, the poet laureate of the south and children's story teller, gave the kiddies of all ages a much too short sample of some of the "Kiddies Hour" readings. "Uncle Judd's Kiddies Hour" is a daily 7 p. m. feature. KPRC was built, housed, tested and put on

the air in the record time of three weeksevery detail had been completed and all adjustments were made, that spelled absolute success for KPRC from the very beginning. The first program brought acknowledgments from the four corners of the continent. Edmonton, Alberta, Canada; St. Albans Bay, Vermont; Kingston, Jamaica, B. W. I., and Guatamala were among the first to wire of

their reception.

KPRC is a standard 500-watt Western Electric, latest type 101-B transmitter complete, and operates on a wave length of 296.9. A valued appurtenance of the operating room is the quartz crystal oscillator, ground to maintain frequency, 1,010 kilocycles, at all

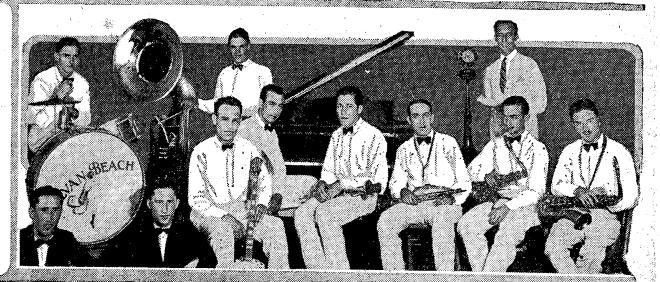
KPRC was installed by G. E. Zimmerman who is now supervisor. His Radio career has been wide and varied.

KPRC is admirably located in a suite of four rooms atop the Houston Post-Dispatch newspaper plant, far enough from the heart of a bustling city for ideal Radiocasting. The 135-foot steel towers may be seen from a great distance; at night a white light casts them in bold relief.

The studio construction embodys all the The studio construction embodys all the advanced principles in acoustics and arrangement. It is walled with celotex lumber, claimed perfect for broadcasting. Soft drapes in a subdued shade of Radio fleece attains a most attractive background. Heavily piled taupe rugs lessen the footfalls of enthusiastic fans who are cordially welcomed to KPRC. There is a friendly air about the studio, with its apple seating capacity wide open win-

its ample seating capacity, wide open win-

dows and hospitable personnel.
Alfred P. Daniel is announcer and program director and is early being recognized for his clear-cut diction and enunciation. While still a young man, he is an old-timer in Radio. He has earned for this station an enviable position, due to his judgment and tact. He realizes the responsibility of his office, that the station is dedicated to service and the ideals of a great newspaper, and is guided by the further conviction that the privilege of broadcasting carries with it the duty of providing the vast unseen audience with programs that are really worth while hearing. (Continued on page 10)



Hungari Hoot Owls Roost at KGW Portland



A PEPPY New York newspaper man, feeling that the great metropolis could be trusted to continue without him, decided to go West. So he bought a ticket for Portland, Oregon. He never regretted his decision. He speedily found himself annexed to the Oregonian and since 1923 has been director of that newspaper's broadcasting station, KGW. Now R. V. (Dick) Haller

—for 'tis none other than—wouldn't give one solitary hoot for all the effete in the Knickerbocker kingdom. No, he has other uses for his hoots. He is the Grand Gazaboo and Hootmeister Extraordinary of the Keep Growing Wiser Order of Hoot Owls.

This is one of the most prominent and exclusive (you have to qualify as a GW listener before you can join) Radio clubs west of the Mississippi river. During a lucid interval the Grand Quillshover of the order was persuaded to disclose the secrets of the order in a special article which begins on this page.

Enigma, the Hoot Owl Mystery Maid, is unmasked and her face with the

mask removed is shown to the right. However, her name was still a mystery at the time these lines were written, for that was one secret the Grand Quillshover guarded jealously up to the time of the Hungari.

Left to right, above, are, William and Dick. "William" is sometimes known as "Sweet William" but Dick's other name is Haller. Both are important in the process of joining the famous Hoot Owls congregation at KGW. "Enigma," right, unmasked. Do you know her name?



Good for a dreamy ballad or those wicked blues, Helen Nordstrom Boohr (above), sings them all for the Hooters with Miss Ruth Mead assisting at the piano. And a nestful of Owlets (left) who help at KGW, Portland, Ore.

Now, getting down to a serious definition of the purpose and aims of the KGW order of Hoot Owls, we find that this order was organized in the spring of 1923 by R. V. (Dick) Haller, director of KGW, for the express purpose of providing a galaxy of clean, whole-hearted fun for Radio listeners. With this one idea in mind, a group of men who could accomplish these ends were recruited from the business element of Portland; care being exercised in demanding that each member of the degree team be a jolly good fellow and a really good sport. Such a group of men was enrolled as the official degree team of the newly-formed Keep Growing Wiser order of Hoot Owls, and at their (Continued on page 26) first conference

STATIONS' SIGNALS **BIGGEST OBSTACLE**

MOST OF INTERFERENCE DUE TO CONGESTION

Bureau of Standards Makes Public Analysis of Main Causes of Imperfect Reception

WASHINGTON.—The greatest obstacle to perfect Radio reception is broadcasting station interference, according to an analysis just made public by the bureau of standards. The second greatest obstacle is atmospheric interference, while fading is third.

The analysis of the bureau was of the results of a series of observations covering a period of one year, from August, 1922, to July, 1923. Cooperating with the bureau in the tests were 100 voluntary observers who made approximately 8,500 observations on the signals of KDKA, East Pittsburgh.

The analysis showed the following relative magnitude of obstacles to reception: No obstacles, 32.4 per cent; other broadcasting stations, 25.7 per cent; atmospherics, 15.7 per cent; fading, 12.2

Since there has been a big increase in the number of broadcasting stations since the observations were taken, it is believed that station interference for 1925 would show a much higher per-

Distance Not a Gauge

A theory which is given credulence by the analysis is that signals from distant stations are often of greater intensity than signals from stations of similar power, but located comparatively near the observer.

The data in question showed that there is a sharp drop in the intensity of station signals for the first 75 miles. Between 75 and 125 miles there is a slight increase in signal strength, while between 125 and 175 miles there is another sharp drop. Between 175 and up to 450 miles there is a steady and gradual increase in signal

The analysis shows that the strength atmospherics for the period studied were greatest in September, and least in February. Fading was greatest in October and least in February.

CONTEST DECIDES SLOGAN FOR KFAB

"Home Sweet Home Station" Is Motto Selected by Lincoln; Neb., Broadcaster

LINCOLN, Neb.—"The Home Sweet Home Station" is the slogan selected as the winner from a total of 142,636 replies received to Station KFAB's request broad cast in connection with the station's first birthday party. Dick Stone of Gillette, Wyoming, submitted the winning slogan and was awarded the grand prize of the contest, a Buick Standard Six.

During the two weeks that followed the birthday program, 13,909 telegrams, 2,639 long distance telephone calls and 126,088 cards and letters were received at the

Send Aviation Talks

Electrical school, has recently inaugurated a series of aviation talks. These are given every Thursday evening at 7:30 central time, and are given by Mr. Harry C. Wimer, who is well known in aeronautical circles and who is the chief instructor in the new aviation department in the Sweeney, school.

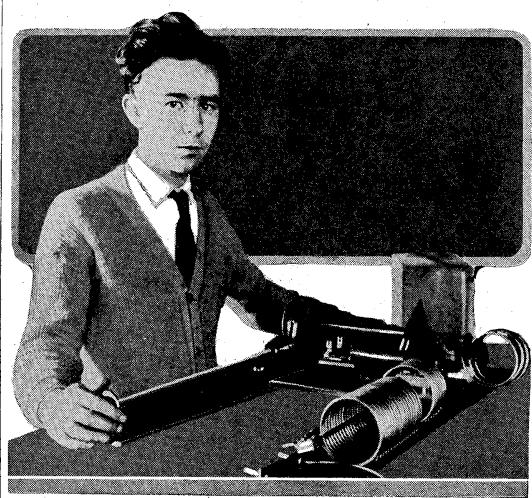
Butte Has Big Club,

BUTTE, Mont.-Although not having a broadcaster in or near the city, Butte has one of the largest, if not the largest, Radio clubs in the United States.

FIVE WILL RESPOND TO NAME "EUGENE"

INCINNATI, Ohio.—One can nearly always find "Eugene" at Station WKRC, here, and one will be lucky if five young men do not answer a call for him. The secret of this strange phenomena is that there are five "Eugenes" permanently located with the studio and on its programs. To avoid confusion they are known as "number one," "number two," and so on down the line. The five "Eugenes" on the studio payroll are: Eugene Mittendorf, studio director; Eugene Perazzo, musical director; Eugene Schmidt, tenor soloist; Eugene Wesselman and Eugene Huber, operators.

CLAIMS PRIVACY IN TRANSMISSION



Radio stations may become nearly as confidential as telephone lines if the projected invention shown above with its inventor, Winfield W. Salisbury, student at the University of Iowa, is successful. He has succeeded in oscillating the shortest known amateur waves. He uses a dial with 10,000 graduations, one of which will tune out his short waves.

|NEW_YORK_AQUARIUM_|**RADIO TELEP**ATHY TRY TO GIVE NEW SERIES

Miss Ida M. Mellen Will Talk Over Station WEAF

NEW YORK .- The New York aquarium announces that the long and popular series of Radio talks given from Station WEAF, on alternate Fridays since June 1925, by Miss Ida M. Mellen, assistant to the director of the aquarium, will be repeated during 1926, in response to many requests.

This time Miss Mellen will be heard on occasional Wednesday evenings in the New York Zoological society series, Station WJZ, beginning with two talks in February—one on the New York aquarium and its denizens, and one of goldfishes and the care of fishes in captivity. These will be followed by 10 other talks on fishes succeeding subjects being whales and por-poises, sea birds at the aquarium, seals, etc.

British Notes

A novelty item soon to be broadcast from all British stations will afford amateur detectives a chance to shine. The plot is based on a murder supposed to occur in an apartment house in West London. Listeners will be asked to furnish the best explanation of the mystery, and to send their solutions to the British Broadcasting company. The fan whose attempt most mates the actual solution, will win \$500. All contestants must donate 25 cents to charity. The first broadcast deals with the murder and an arrest; the trial is to be broadcast five days later.

What does it feel like to drive a subway train? British listeners will shortly hear the experiences of a driver employed on the London Underground railway, and he will try to convey an impression of his daily life rushing to and fro in the bowels of the earth.

English stations heralded in the New Year with two hours of dance music. From midnight on December 31 to 2 a. m. on January 1, the dance music at the Albert hall, the largest hall in the country, was relayed to 2LO and 5XX.

The London county council is to follow the example of the House of Lords by installing earphones to improve the hearing in the council chamber. A phone will be provided for every member of the council, and a number of phones will be installed in the press gallery.

Is Northernmost Radio Station

OSLO.-The nothernmost Radio station (code) in the world at present, it is stated, is that at Longyear-city on the island of Spitzbergen. The station is situated on the shore of Advent Bay, its geographical position being 78 degrees 20 minutes north.

IS COMPLETE FAILURE

British Attempt to Send Thoughts Fails to Work Out

LONDON, Eng.-Mental telepathy by Radio which was tried out by the British Broadcasting company here, was a complete failure according to reports received after the test.

Eight subjects, men and women, were locked in a room and told to concentrate upon what subject the millions of fans throughout the country were thinking about. The announcer informed the "guessers" that the first subject was a letter of the alphabet. The letter happened to be "K."

One of those in the locked room guessed "K" as the letter after three trials. This was the nearest that anyone of them came

Radio Brings Isolated Miners News of World

Sections Remote from Telegraph Kept Informed

SPOKANE, Wash.—Several hundred miners, situated in regions of Idaho remote from the railroads and the telegraph, some of them well up on snow- merce has expressed a keen interest in the clad mountains, with the aid of the Radio are as intimately in touch with the news of the world as a man buying the latest edition of a newspaper on a city street, according to Stewart Campbell of Boise, state mine inspector.

"I obtained most of my immediate information about the ball games and other happenings for the last 18 days of a tour of Montana by Radio," said Mr. Campbell while a visitor at Spokane recently.

"The Bunker Hill & Sullivan has a large Radio at the scene of its operation in Deadwood basin, as well as many other mining companies.

The Radio is a great thing for the isolated mining camps.' It brings civilization right into them. The only thing disliked about it by some of the miners is that they can not contradict or get back at it if anything is said that they do not like to agree upon."

Approve N. S. W. Relay Scheme

WASHINGTON, D. C.—Definite approval has been given to the New South Wales State Radio scheme and inquiries are now being made as to a suitable site for the Sydney and relay stations, the first of which is expected to be at Newcastle. The cost of establishing the central station and six relay stations is estimated at more than \$50,000, but for the present only one relay station is to be established.

With the ordinary receiver having three to five one-quarter ampere tubes, a 90 ampre-hour storage battery is all that is necessary.

TO SEEK WEATHER'S **RELATION TO STATIC**

STEWART-WARNER BEGINS TO OBSERVE BUGBEAR

Will Note Reception at Twenty Widely Scattered Posts—Fading Also Will Be Investigated

CHICAGO.—Investigation of "fading" on a scale never before attempted in the United States will be made in mid January at 20 observation stations, it was announced today by J. K. Smith of the Stewart-Warner corporation.

Hitherto such experiments have been carried on in isolated sections of the country between two or at most three stations. The results of such research have been negligible. There is still no explanation of why signals should be stronger in the winter, when static electricity leaps out of one's hair, or sparks out of the rug at one's feet, but weak in summer when there are apparently no static charges in the things about us, according to Mr. Smith.

Will Plot Radio Reception Against Weather

The Stewart-Warner observation posts will chart readings on selected distant stations every two minutes during the period of the tests. The results will be averaged and plotted on a map similar to that issued by the government weather bureau. It is the belief of the engineers conducting the tests that curves which will make possible a comparison of effects and a search for causes will result. If so, the experiment will be repeated at regular intervals throughout the winter.

"By a comparison of fading and the static curves with those of the U.S. weather map, it may be possible to determine the effect of weather on such phenomena," said Mr. Smith, "By plot-ting the curves of fading and static in tests on stations of varying wave length, some tangible progress may be made toward discovering what frequencies are best for broadcasting.

APPOINT JUDGES OF PLAY CONTEST

Silver Trophy to Accompany Cash Award to Be Called "Hoover Cup"

CHICAGO.—The machinery for conducting the nation-wide contest to secure the best Radio play and improve Radio programs to be held under the joint auspices of the Drama League of America and WLS, the Sears-Roebuck station, here, has been set in motion. Stuart Walker, playwright and producer, has been secured to act as chairman of the Radio play contest committee and Augustus Thomas, the playwright; George Arliss, the actor, and James O'Donnell Bennett, former dramatic critic, now feature writer on the Chicago Tribune, have been selected judges of the contest.

Mr. George Junkin, field secretary of the Drama League, has announced that the silver loving cup to be awarded in addition to the \$500 first prize will be known as the "Hoover Cup," as the secretary of comcontest.

A prize of \$200 will be given for the second best play submitted and \$100 for the third. Any man, woman or child is eligible to compete. According to the rules of the contest, all manuscripts must be received on or before February 1, 1926. The manuscripts are to be sent to WLS, Hotel Sherman, Chicago.

KSD, St. Louis, is to have its own orchestra. This organization will be composed of members of the St. Louis Symphony orchestra and will give concerts every Monday night at 9 p. m. central

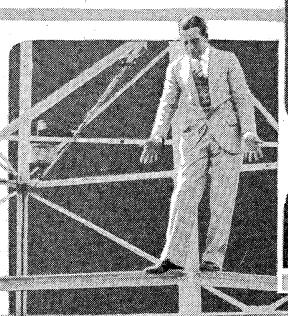
RADIO AIDS CASE OF SLEEPING SICKNESS

TEW YORK. John F. Hill, who is broadcasting every Saturday evening from WEAF a series of suggestions for better eyesight, discovered an unusual case of double vision recently, when a young man walked into his office and expressed interest in his weekly Radio talk and asked to have his eyes examined for glasses.

Mr. Hill's examination disclosed the fact that the man's condition was not caused by eyestrain, and, therefore, directed the man to a medical specialist who found him to be suffering from sleeping sickness.

GALAXY OF STARS ENTERTAIN RADIO FANS THROUGH KFWB MICROPHONE

Life for the Radio artist is not a very dull affair. The group to the right is composed of some of those who broadcast through Station KFWB on the Warner Brothers movie lot at Hollywood. Standing, from left to right, Verna Kloess, concert pianist; Frank Stever, baritone; Margaret Lancaster, mezzo-soprano; Billie Dunn, studio accompanist; Bill Blake, lyric tenor; Charlie Wellman, announcer and manager; Ron Wilson, pianist; June Purcell, Radio's Sweetheart; Ben McGlashan, Big Brother of KFWB, and Lee Kent and her Tarapache. Seated, left to right, are Charles Beauchamp, dramatic tenor; LeRoy Kulberg and his uke; Ray Kellogg, violinist, and Bill Hatch, pianist.







"I have below me five stars that can be classed as a constellation,," says Charlie Wellman, announcer and manager of KFWB, "But its a cinch I don't look down on them." Charlie is standing on one of the towers of the Warner Brothers station that was built within 28 days after Jack Warner decided the company should do a little broadcasting. The attractive quintet is composed of (from left to right) Verna Kloess, concert planist; Lee Kent, who sings quaint songs and plays the terapache; Billie Dunn, studio accompanist; June Purcell, Radio's Sweetheart, and Margaret Lancaster, mezzo-soprano.

DRAWS \$25 FINE FOR UNLICENSED SENDING

Dayton, Ohio, Man Caught Broadcasting Phonograph Records

WASHINGTON.—The attention of the department of commerce has been called to a case where punishment was meted out by court to the owner of a broadcasting station which was operated without a license.

The offender was Roger M. Daugherty of Dayton, Ohio, who broadcast phonograph records on 340 and 400 meters. He had been on the air about two years and Supervisor Edwards of Detroit and his entire staff had been trying to catch him. They finally located the transmitter and called on Daugherty.

The transmitter was eleverly concealed and it was only recently that Daugherty was caught in the act. Daugherty was tined \$25 for the offense. The call signal of SCOF was used by Daugherty.

Texas Boy Scout Wins Pup For One-Tube DX Record

SAN ANTONIO, Texas.—Otto Glaeser, Jr., 16 years old, boy scout and Brackenridge high school student, tuned in 42 Radio stations in one hour—18 of them distant ones, with his one tube home-made regenerative receiver. This remarkable performance, which sets a record for this city, won for young Glaeser the September award of the Crosley Radio corporation of Cincinnati. His boy scout honor was his verification.

The award is a pedigreed German police puppy from the celebrated Champion Kora von Warnowtal of Green Fair Kennels, Greenwich, Conn. The puppy has been shipped.

The Crosley corporation is now conducting a second contest for one tube sets for the best record of distance which will continue until March.

This Would Insure Home Sweet Home

Germany Has List of Severe Regulations for Aerials

LONDON.—Detailed and severe regulations regarding the purchase of aerials have been introduced in Germany, and a further elaborate set of rules governs their use. Here is just one of the sixteen most important items in the rules:

most important items in the rules:

The sag of the aerial wire is to be so adjusted that with contraction through cold and with additional loading by wind, snow and ice, there is a factor of safety of three.

The sag is to be calculated for the two following cases:

(a) Temperature 23 degress Fahrenheit with additional loading; (b) Temperature 4 degrees below zero Fahrenheit without additional loading. The additional loading is to be assumed to act in the direction of gravity, per meter, and equal to 180/d in grams per meter, where d is the external diameter in millimeters.

A German fan after reading the above should feel like "acting in the direction of gravity by jumping off the roof."

The introduction of these rules has caused German experts to prosecute researches toward the evolution of aerialless receivers.

ss receivers. Let's move to Germany!

Radio to Aid Aviation

BRUSSELS.—The Belgian government has just signed conventions with the British, French, Luxemburg and Dutch governments ensuring Radio being used as a help to aviation. Radio stations on air routes are divided into two classes: control stations and collaboration stations. The former will keep airplanes constantly informed as to direction of flight, while the latter will help the plane determine its position.

INDIAN ENTERTAINER GAINS NEW LAURELS

Pueblo Indian, an expert in the art of wild animal mimicry, today lays claim to new laurels via Radio via KOA. During a recent program the Indian gave a few imitations of wild animals and as a result was confronted with a complaint from Alma, Mich. The writer told him that when the pack of yelping coyotes broke loose over the Radio their pet cat departed and failed to return. "Pretty good," the Indian grunted, "Chief Evergreen Tree, he reason why cats leave home."

NUTTY CLUB SESSIONS GRANT ALL REQUESTS

WBBM Nonsense Starts Off Week
With a Smile

CHICAGO.—Just a little fun and frolic to start the week with a great big smile was the idea that prompted those early hours of nonsense from WBBM, here. And it seems that late-hour listeners like their programs informal. The staff of WBBM, Chicago, works Sunday from twelve midnight until "when" and they are at it until every request is filled. That isn't so easy now since these run well over a thousand each session.

A Louisiana member suggests "a little nonsense now and then is relished by the best of men." A membership with Nutty club of WBBM, Chicago, which includes policemen, bootleggers, preachers and college professors, shows that a strong sense of humor is one of the attributes of the broadcast listener.

Improve Greatly Navy Radio Communication

Shore Stations Are Fast Installing Modern Tube Equipment

WASHINGTON, D. C.—Secretary Wilbur, discussing naval Radio activities during the past year in his annual report to the president, says that Radio communication has improved, especially in connection with aircraft and submarines.

"The Radio traffic stations of the shore system are being gradually improved," says Secretary Wilbur. "The obsolete spark apparatus and the obsolescent low-powered arcs are gradually being replaced with modern tube equipment as funds become available."

He continues, "the interest of the

He continues, "the interest of the American Radio Relay league has been enlisted in naval high frequency (short wave) work. An official of the league was placed on active duty and detailed to the fleet to conduct extensive short wave tests afloat during the recent Hawaiian maneuvers and cruise to Australia and New Zealand. These tests have already given valuable results, and large amounts of traffic have been moved by means of this apparatus."

FEW BROADCASTERS SUBDUE HARMONICS

REQUEST INSTALLATION OF GOOD SUPPRESSORS

But 47 Stations Have Been Equipped with Apparatus to Prevent Sending Stray Offshoots

Noise, noise, noise! Broadcasting stations heterodyning with one another, radiating one or several harmonics, their harmonics heterodyning with one another. That's what the Radio supervisors and the department of commerce are seeking to eliminate by the limitation of broadcasters and the strict supervision and inspection of those stations allowed to broadcast.

As a part in this general scheme, broadcasters have been advised to equip themselves with "harmonic suppressors" of recommended type. Harmonic suppressors prevent stations from sending out stray offshots of their program on waves other than that for which they are licensed.

So much for explanation. Up to December 1, which is the date the last government report was made, only 47 of this country's 500 stations had so equipped themselves. Of course, there may be stations which do not radiate harmonics, or their harmonics may be so slight as not to require a suppressor. In that event, the Radio supervisors or listeners can hardly complain.

complain.
"Honor Roll" Is Listed

Nevertheless, the following "honor roll" lists broadcasting stations which, up to December 1, had been equipped with approved harmonic suppressing devices.

KDKA, East Pittsburgh; KFDM, Beaumont, Tex.; KFJF, Oklahoma, Okla.; KOB, State College, N. M.; KPRC, Houston, Tex.; KTHS, Hot Springs, Ark.; KWWG, Brownsville, Tex.; WABX, Mount Clemens, Mich.; WAHG, Richmond Hill, N. Y.; WAPI, Auburn, Ala.; WBAL, Baltimore, Md.; WBAP, Fort Worth, Tex.; WBAX, Wilkes-Barre, Pa.; WBBR, Rossville, N. Y.; WBDC, Grand Rapids, Mich.; WCAE, Pittsburgh; WCAP, Washington, D. C.; WCAR, San Antonio, Tex.; WCAU, Philadelphia; WCX, Pontiac, Mich.; WEAF, New York; WEBK, Grand Rapids, Mich.; WFAA, Dallas, Tex.; WFDF, Flint, Mich.: WFI, Philadelphia; WGBS, New York, N. Y.; WGBU, Fulford-by-the-Sea, Fla.; WHAP, New York; WHAR, Atlantic City; WJAD, Waco, Tex.; WJR, Pontiac, Mich.; WKAR, East Lansing, Mich.; WLW, Harrison, Ohio; WLWL, New York; WOAI, San Antonio, Tex.; WOR, Newark; WPG, Atlantic City; WRC, Washington, D. C.; WRNY, New York; WRR, Dallas, Tex.; WRVA, Richmond, Va.; WSAI, Mason, Ohio; WSB, Atlanta; WSM, Nashville, Tenn.; WSMB, New Orleans; WTAM, Cleveland; WWJ, Detroit.

The above list and additional stations will be repeated from time to time.

London Festival Ends

LONDON, Eng.—The festival week of the British Broadcasting company, in celebration of its third birthday, has just concluded

RELAY PROGRAM OF KFI ACROSS NATION

POSSIBLE FOR MORE THAN 6,000,000 TO HEAR

Six Stations Rebroadcast Program from Los Angeles in Preparation for International Tests

LOS ANGELES. — Transcontinental rebroadcasting of a Radio program that was relayed on short wave length to Europe and Australia, covering an area in which it might have been heard by an audience of between 6,000,000 and 7,000,000 persons, was accomplished recently by seven stations located at strategic points throughout the United States, with the aid of the high-powered European stations.

The program originated at Station KFI of this city and was picked up by KCA, Denver, and relayed to five other stations in the East and Middle West-KFKX, Hastings, Neb.; WOC, Davenport, Iowa; WGY, Schenectady, N. Y.; KMA, Shenandoah, Iowa, and WHAZ, Troy, N. Y.

Announcer Hears Voice All six of the relaying stations were heard in certain localities, and in one instance a Los Angeles man tuned in on one of the eastern relays and, putting the loud speaker to the mouthpiece of a telephone, enabled the announcer at KFI to hear his own voice returning from the

The program continued for three hours without a break and operators of the Los Angeles station complimented the operators of the other six stations upon the skill with which they modulated the program as it was received and rebroad-

"OHM," THE RADIO DOG

(Continued from page 5)

Time Story Hour, sat on the wire smiling to himself very much satisfied over his success in escaping from the Sandman he heard some Mudder below calling Her Little One.

"Wake-y up, Wee Lo Foo
Sun is up, why aren't You?"

Oriental voice i

It was a sweet Oriental voice in the language of the Celestials. But Ohm, as he was Big Radio Dog (You must excuse me for telling you over and over again because it is necessary) understood Chinese just the same as he would if he had been born and brought up a Pekingese or a Chow. Here was a chance for a Jolly Surprise. He could hear the Mudder trying to get Wee Lo up like this:

"One, two, three The Bumble Bee Rooster Crows And away we go!"

So Big Radio Dog Ohm ripples himself into the lead-in and trickles into Wee Lo Foo's house. Mudder Foo sat on the bed pulling Wee Lo to his feet in his dainty blue embroidered silk pajamas. It was time for the Daily Dozen and they usually took their Exercises by the Voice of the Exercise Man in the Radio. So Mudder Foo tuned in and had the Surprise of her This is what they heard:

"Bow Wow! How do you do! I'm Ohm, who are You?"

Mudder Foo said, "Well, what in the world was that?" And Wee Lo almost jumped out of his skin as his slanty eyes popped wide open and he gripped his Mudder's hand.

"Don't you know me"? asked Ohm, astonished. "As I said before, I'm Ohm, the Big Radio Dog, Broadcasting During Dream Daddy and Uncle Bob, and Uncle Walt and Uncle Dutch and Big Buddy andand-and from Station USA and a lot more. I thought I'd drop in an s'prise You."

"I regret," said Mudder Woo, "that I must confess never to have had the pleasure, to my best recollection, of seeing you before." (You must always remember that Orientals are very polite when they are well brought up as was Mudder Woo).

"Oh, I beg that you will not let that worry you?" replied Ohm-he was such a Big Radio Dog-"because to tell the honest truth, hope to die cross my heart, nobody else has ever seen me. Big Radio Dogs like me are just to be heard, not seen because we are that different than little children who listen in. We are invisible because we are of two dimensions only."

"I'm so glad," smiled Wee Lo, "and who are all those people like Dleam Dladdy and Uncle Blob and-"

"Oh Wow! Who-ee Wow-wowow!" Big Ohm almost split himself for laughing. 'Please 'scuse me for laughing but your Oriental diction simply stirs my risibles beyond control. But I'll try not to be rude

"Only don't ask me to tell you who ALL of the Story Tellers are because USA now broadcasts from 550 stations and every station has one or two and sometimes more Voices who come through the air to homes where Little Children are, to tell them Stories while they are waiting for the Sandman. And, oh, the children love to

letters and when the Voices who are the Uncles and the Dream Daddys and the Big Buddys hear from their Little Friends

of the Air they are very happy.
"Sometimes they have Parties and the Children are invited to come and see the Voice. Oh, please forgive me for making out that they are just Men. There are lots of Aunties and Story Ladies, too, who tell the most wonderful stories. Sometimes they have me come to broadcast and I bark right out of the cabinet where the tubes are. Want to hear me bark? Bow Wow!

That's the way I do it.
"Dear me! I hear Cousin Oswald at Los Angeles calling me right now. Or maybe it is Uncle Remus. No, it's Uncle John, now I know. And after that Val will be waiting for me.

"And I want to thank you Mudder Woo and you, Wee Lo Foo, for the lovely time I have had on this little visit. I just heard a long wave start out from Singapore which I will hop onto when it comes by. Come and see USA some time. Bye-

hear them because they write such lovely | Big Radio Dog, broadcasting during the | cert of the "wonder boy"—Frank Tilton, Bed Time Hour from Station USA flipped onto another thousand meter wave and patch. For more than an hour, he played was back Home before Dinner Concerts were over.

But this time he was ready for the Sandman. And the Sandman was ready for him.

KPRC OF TEXAS RANGES

(Continued from page 6)

Henry Crossland is chief operator and was formerly with WCM. Grimes Waller is

Needless to say, none of these popular and good-looking young men are married. The writer has yet to find any Radio attaches who are! Thus the output of divinity, chocolate cakes and mash notes still continues.

Miss Lois Lilley is the efficient and decorative studio assistant. She welcomes guests to the studio and makes herself useful as well as ornamental.

blind pianist of the Houston Post-Disnumber that had been requested. Totally blind, this talented young man, with his varied repertoire, his sunny disposition and good humor entered into the spirit of each selection.

KPRC's programs are fitted to the needs of the community it was built to serve; standard time signals from U.S. Naval Observatory at Washington; U. S. weather forecasts; bulletins of agriculture; road bulletins; news items; baseball results; also an operator and came to KPRC from the Dallas stations, WFAA and WRR.

music. On Sundays, Dr. A. Frank Smith, pastor, First Methodist church, conducts pastor, First Methodist church, conducts services which are broadcast from 10:45 to 12 noon, and also from 7:45 to 9 p. m. On Saturdays, at 7:30 p. m., Rev. Claude L. Jones, has the Universal Bible class.

KPRC has yet another slogan calling attention to its home town, Houston-an inland port, 50 miles from the Gulf of Mexico—"Where 17 Railroads Meet Forty Steamship Lines." KPRC is proud of Steamship Lines." KPRC is proud of being representative of the growing ye."

It was the good fortune of the writer to metropolis and, incidentally, Houston is So, with a flip like lightning, Ohm, the be at KPRC for the weekly noonday conmighty proud of KPRC!

ATWATER KENT RADIO

"What kind of company makes it?"

EVERY DAY, as the public gets wiser, do you not hear fewer and fewer customers ask; "What's the price of that radio?" and more and more customers ask "What kind of company makes it?"

If you are an Atwater Kent dealer, figuring where you stand at the beginning of this New Year, are you not firmer than ever in your conviction that the stability of your manufacturer is no mean asset?

The Atwater Kent dealer knows:

- THAT behind the company with the strongest financial resources of any independent radio manufacturer stands the personal responsibility of a man who for twenty-five years has jealously guarded the quality of every product that bears his name.
- THAT we have built the largest radio factory in the world, and are putting on a large addition this winter, * because we are thinking of tomorrow's market as well as today's.
- THAT the merchant is backed by a policy that safeguards his profit, and is not tempted to throw his money away on job lots.
- 4 THAT he is handling the Radio which requires minimum service and is therefore insured against needless worry and expense.
- THAT Atwater Kent owners are satisfied with their receiving sets and radio speakers and are always boosting them in making
- THAT Atwater Kent is the make the greatest number of people intend to buy—or buy next, if they already have unsatisfactory sets. (Four surveys prove this.)
- *This addition covers 153,000 square feet. When it is com-pleted—probably in April—we shall have a fifteen acrefactory. We are also using our old Germantown plant, which covers

- THAT the Atwater Kent sales campaign is supported by an unparalleled advertising campaign, reaching, in magazines and newspapers and on billboards, into every corner of the United States and Canada.
- 8 THAT the new series of concerts by the Atwater Kent Radio Artists—the world's best-specially benefit the Atwater Kent merchant, in increased sales.

* * * * *

Nineteen Twenty-five was a wonderful Atwater Kent year. We wish to thank every one of you who helped to

And please keep in mind that more than ever they'll be asking, "What kind of company makes it?" in 1926.

Hear the Atwater Kent Radio Artists every Sunday evening at 9:15 o'clock (Eastern Standard Time) through stations

WEAF New York	WFI Philadelphia
WJAR Providence	woo alternating
WEEL Boston	WCAE Pittsburgh
WCAP Washington	WGR Buffale
WSAI Cincinnati	WOC, Davenpor
WCCO Minneapolis-	WTAG Worcester
St. Paul	KSD St. Louis
WEAR Cleveland	wwi Detroit
WLIB	

Send for illustrated booklet of Atwater Kent Radio

ATWATER KENT MFG. COMPANY A. Atwater Kent, President 4708 WISSAHICKON AVE. · PHILADELPHIA, PA.



Radio Speaker Model L, \$17

Model 20 Compact,

Radio Speaker Model H, \$22

HER TOPIC AT KDKA IS HOME ECONOMICS

KX 12 W(



Miss Marie Neff is the pretty young specialist heard over KDKA in charge of the home economics programs of the Stockman and Farmer studio.

BETTY CROCKER TO START NEW SCHOOL

WILL BROADCAST OPENING LESSON JANUARY 29

Housewives May Receive Scientific Training in Cookery and Home Making in Own Kitchens

By Betty Crocker

Have you heard, and do you regularly listen for Betty Crocker's Radio talks? Miss Crocker is nationally known as a home food specialist who is broadcasting from a dozen of the country's largest stations. By special arrangement Radio Digest has secured a series of exclusive articles by Miss Crocker dealing with her current Radio talks. These broadcasts are made through WEEL, WEAF, WCAE, WGR, WEAR, WWJ, WDAF, WHT, WF1, KSD, KF1 and WCCO, the Gold Medal station at Minneapolis-St. Paul, All of Miss Crocker's recipes and discussions are based upon investigations and work of herself and her assistants in model kitchens.—Editor's Note.

TE'RE GOING to have another Radio cooking school. The first lesson will be broadcast on January 29. As with our first school which closed in December, it will be necessary to register for this course. There is no fee or charge of any kind connected with it. The only qualifications necessary are a pencil and a paper and a will to learn. We are beginning now to take registrations for our second Radio cooking school, and will accept them up to and including letters postmarked January 23.

I have been enjoying a little Christmas vacation the last couple of weeks, but I am going to resume my regular Radio talks on Mondays, Wednesdays, and Fridays, from the stations listed above, on January 18. The first lesson of the receiver school to be broadcast Friday cooking school, to be broadcast Friday, January 29, will be "Gold Medal Biscuits and Variations." Subsequent lessons in the school will be broadcast for five succeeding Fridays.

I am particularly anxious that all of my friends among the readers of the Radio Digest and those who listen to the stations from which my talks are given, who desire to enroll for the second cooking school, will please get their registrations in in time.

Many housewives regret the fact that they have not had the advantage of a scientific training in cooking and home and vice versa. making. Now, due to the Radio, they may receive such training across the sky, with their own kitchens as classrooms.

Besides the Radio talks, we will send printed recipe cards of all the recipes described in the lessons to those registered. In arranging this second school, I have tried to select subjects of interest to every housewife. The schedule of the lessons is as follows: January 29, "Gold Medal Biscuits and Variations" February 5, "Luncheon Suggestions"; February 12, "A Gold Medal Pie"; February 19, "Foods That Satisfy"; February 26, "Salad Secrets"; March 5, "Unusual Desserts."

Besides these cooking school lessons and the talks which I broadcast every Monday and Wednesday, I am to have the privilege of visiting with you and offering you some of our kitchen tested recipes through the medium of the Radio Digest.

It might interest you to know that while all of these recipes are tested out in our model kitchens, many of them have been suggested by women all over the United States. Through our Radio talks and cooking school lessons, we have built

Inday to Women's Programs

Jane.
WQJ (447.5) The Business Woman Entertains.
The Fireplace—The Center of Interest in the
Home.

12:35 p. m. 11:35 KYW (536) Table talks.

Index to Wome	n s Programs	
Saturday, January 9	11:30 a. m. 10:30 a. m. 9:30 a. m. 8:30 a. m. KFAB (340.7) Home Economics.	
Eastern Contract	11:45 10:45 9:45 8:45	
9:30 a. m. 8:30 a. m. 7:30 a. m. 6:30 a. m. WWJ (352.7) Tonight's dinner.	WDAF (365.6) Betty Crocker home service.	
11 10' 9 8	12 n. 11 10 9	
WEAR (389.4) Home service talk.	WGN (302.8) Household hints.	
WHT (399.8) Women's club.	WQJ (447.5) Friday fish dinner menu. The Mid-	•
12 n. 11 10 9	dle Aged Woman.	
WGN (302.8) Household hints.		
WQJ (447.5) Let's Choose a Picture.	WGN (302.8) Discussion of fashions.	
D, III. - III.	12:35 11:35 10:35 9:35 KYW (536) Table talk.	
KMA (252) Domestic science topics. 12:30		
12:30 11:30 10:30 9:30 WGN (302.8) Discussion of fashions.	[12 n.]] 10 KPO (428.3) Sewing talk.	
12:35 11:35 10:35 9:35		
KYW (536) Table talk.	3 2 1 12 n. WCCO (416.4) Woman's hour.	
4 (000) 1 2 1	4 3 p. m. 2 p. m. [p. m.	
KJR (384.4) Tonight's dinner.	WOC (483.6) Home Management schedule, Aun	t
	Jane.	
Monday, January 11 Footorn Central Mountain Pacific	WQJ (447.5) Cake for Dessert. Meat Substitutes	
Edstein Contrat	4:30 3:30 2:30 1:30	
	WLW (422.3) Cooking school, hints.	
WWJ (352.7) Tonight's dinner. 10 9 8 7	5 4 3 2	
WJZ (454.3) Women's hour.	WMAQ (447.5) Recipes.	
WRC (468.5) Women's hour.	7 6 5 4	
10-45 9-45 8:45 7:45	KFOA (454.3) Today's recipes.	
WEAF (491.5) Home service talk, Betty Crocker.	KLX (508.2) Women's hour.	
WFI (395) Gold Medal talk, Betty Crocker.	KMA (252) Domestic science talk.	
11 10 5	10:30 9:30 8:30 7:30 KOAC (280.2) Curtains and Draperies. How D	10
WEAR (389.4) Home service talk.	You Wash and Iron?	۰
WHT (399.8) Women's club. WNYC (526) Women's program.		
11:30 10:30 9:30 8:30	Thursday, January 14	
KEAR (340.7). Home economics talk.	Fastern Central Mountain Pacific	
11:45 10:45 9:45 8:49	9:30 a. m. 8:30 a. m. 7:30 a. m. 6:30 a. n	۱,
WDAF (365.6) Betty Crocker home service.	WWJ (352.7) Tonight's dinner.	
WGN (302.8) Household hints.	10 9 8 7	
10 11 111 3	WJZ (454.3) Women's hour.	
WQJ (447.5) The Care of the Hair and the Skin.	WRC (468.5) Women's hour.	
12:10		
KYW (536), talk. 12:35 p. m. 11:35 10:35 9:35	WEAR (389.4) Home service talk. WHT (399.8) Women's club.	
KVW (536) Table talk.	12'n. 11 10 9	
0.20 (-30 n m 12:30 n, m), 11:30	WGN (302.8) Household hints.	
WGY (379.5) Cooking lesson; Household talks.	WQJ (447.5) Home Economics.	
3 2 1 12 11:	12:30 p. m. 11:30 10:30 9:30	
WCCO (416.4) Women's hour.	WGN (302.8) Discussion of fashions.	
WSOE (246) Cooking chats.	12:35 p. m. 11:35 10:35 9:35	
4 3 2 1 p. m.	KYW (536) Table talks.	

7 6 5	4,
KFOA (454.3) Today's recipe.	- 4
KLX (508.2) Women's hour.	
KTAB (240) Women's club in	otes
KTAB (240) Women's crub in	utus.
Tuesday, Janu	arv 12
E town Control Me	untain Pasifis
Eastern Central MC	untain Pacific 10 a.m. 6:30 a.m.
9:30 a.m. 8:30 a.m. 7:3	0 a. m. 0 .00 a. m.
WWJ (352.7) Tonight's dinner.	7
10 9 8	,
WIP (508.2) Menu.	
WJZ (454.3) Women's hour.	
WJZ (454.3) Women's hour. WRC (468.5) Women's hour.	4- 9.40
10:45 9:45 8	:45 7:45
WTAG (268) Talks to Mothe	ers.
(1 10 9	8
WEAR (389.4) Home service	alk.
WHT (399.8) Women's club.	•
AVAICA (340.7) Home maker	' hour
WTIC (475.9) Professional Ca	ndy Making.
(1:30 10:30 9:30	8:30
WTIC (475.9) Housewives' for	um.
12 n. 11 10	9
WCN (202 8) Household bint	3.
WQJ (447.5) How to Wear a	Hat. Hotel Salads.
19:25 n m 11:35	5 9:35
12:35 p. m. 11:35	9:35
12:35 p. m. 11:35 10:2 KYW (536) Table talk.	5 9:35 10
12:35 p. m. 11:35 10 2 KYW (536) Table talk.	10
12:35 p. m. 11:35 lua KYW (536) Table talk. 1 l2 noon li KPO (428.3) Domestic science	10 te talk.
12:35 p. m. 11:35 lua KYW (536) Table talk. 1 l2 noon li KPO (428.3) Domestic science	10 te talk.
12:35 p. m. 11:35 lua KYW (536) Table talk. 1 l2 noon li KPO (428.3) Domestic science	10 te talk.
12:35 p. m. 11:35 KYW (526) Table talk. 1	to te talk. Il and Care of the Sick. and hints.
12:35 p. m. 11:35 KYW (526) Table talk. 1	to te talk. Il and Care of the Sick. and hints.
12:35 p. m. 11:35 10 m	to talk. Il and Care of the Sick. s and hints. o. m. p. m. ent schedule.
12:35 p. m. 11:35 10 m 12 mon 11 12 mon 11 12 mon 11 12 mon 13 p. m. 12 mon 13 p. m. 12 mon 13 p. m. 13 p. m. 14 p. m. 3 p. m. 2 mon 14 p. m. 14 p. m. 14 p. m. 14 p. m. 15 p. m.	to talk. te talk. Ind Care of the Sick. s and hints. m. p. m. p. m. Exchange.
12:35 p. m. 11:35 10 m 12 moon 1 m 12 moon 1 m 12 moon 1 m 12 moon 12 m 12 m	to talk. Il and Care of the Sick. s and hints. o. m. p. m. ent schedule.
12:35 p. m. 11:35 10 m 12 mon 11 12 mon 11 12 mon 12 m 12 m	to talk. 11 and Care of the Sick. and hints. 1 m. 1 p. m. ont schedule. 2
12:35 p. m. 11:35 10 a 12 13 b 13 b 14 b 14 b 15 b 1	to talk. 10 te talk. 11 Ind Care of the Sick. 2 and hints. 1 p. m. 1 p. m. 2 talk. 2 and 2:30
12:35 p. m. 11:35 10 m 12 moon 1 m 12 moon 1 m 12 moon 1 m 12 m 12 moon 12 m 12 m	to talk. 11 and Care of the Sick. s and hints. b. m. 1 p. m. ent schedule. s Exchange. 2 30 2:30 ince.
12:35 p. m. 11:35 10 m 12 mon 11 12 mon 11 12 mon 12 m 12 m	to talk. 10 te talk. 11 Ind Care of the Sick. 2 and hints. 1 p. m. 1 p. m. 2 talk. 2 and 2:30
12:35 p. m. 11:35 10 at KYW (536) Table talk. 12 noon	to talk. 11 Ind Care of the Sick. 2 and hints. 1 p. m. 1 p. m. 2 by Exchange. 2 30 1 2:30 1 1 2 30 1 2 30 1 3 3
12:35 p. m. 11:35 10 m 12 moon 12 mo	to talk. 11 and Care of the Sick. s and hints. b. m. 1 p. m. ent schedule. s Exchange. 2 30 2:30 ince.
12:35 p. m. 11:35 10 at KYW (536) Table talk. 12 noon	to 10 te talk. 1 Ind Care of the Sick. s and hints. I. m. 1 p. m. ent schedule. 2 2 30 2:30 ince. 3 3:45
12:35 p. m. 11:35 10 x KYW (536) Table talk. 1	10 10 10 10 10 10 10 11 11 11 11 11 11 1
12:35 p. m.	10 10 10 10 10 10 10 11 11 11 11 11 11 1

WIP (508.2) Market hints for housewives.
WOC (483.6) Home Management schedule, Aunt

Jane. WQJ (447.5) Radio Fans Recipes.

5 4 KJR (384.4) Home helps.

_ Home.	.4	•	2
5 (454.9)	4 Home help	3	2
KFOA (454.3) KSD (545.1)	Women's		
5:30	4:30	3:30	2:30
	Housewives'	matinee.	
6	5	. 4	3
KOA (322.4)	Culinary hi	nts. 4:15	3:15
6:15	5:15 Fashion rev		0.10
KOA (322.4)	6	5	4
KFOA (454.3)	Today's ra	ocipe.	
- KSAC (340.7) Getting .	Rid of Hou	sehold Pests
When You	ı_a Marketi	ng Go.	
8	7	6	5
KFMQ (299.8			
E	'riday, J	anuary 15	5
Eastern	Central	Mountain	Pacific
9:30 a.m.	8:30 a.m.	7:30 a.m.	6:30 a.m
WWJ (352.7)	Tonight's	ainner.	7
10 KDKA (309.1	9) Domestie	Science and	
KDKA (309.1 Housewife.) Domestic	peroneo ana	2.2200 202 0
	Women's he	our.	•.
WRC (468.5)	Women's h	our.	W . 4P
10:45	9:45	8:45	7 :45
WTAG (268)	Food hint	s. 9	8
WHT (399.8		**	· ·
11:15	10:15	. 9:15	8:15
WTIC (475.9)		ashion talk. 9:30	8:30
11:30	10:30 ') Home E	eonomics.	0.00
KFAB (340.7	10:45	9:45	8:45
WDAF (365.6	i) Betty Cro	icker home se	ertice.
WEAR (389.4		rvice talk.	9
12 n.	11	10	a
WGN (302.8)			
WQJ (447.5) 12:30 p. m.	11:30	10:30	9:30
WGN (302.8)	Discussion	ı of fashion	S '
12:35	11:35	10:35	9:35
KYW (536)	Table talk.	11:45	10:45
1:45 WOAW (526	12:45	Sunday dim	
3	2 p. m.	(p. m.	12 n.
WCCO (416.4	1) Women's	hour.	
4	3	2	t 7
WOC (483.6)	Home Ma	nagement, A 3	unt Jane. 2
5 · KJR (384.4)			, ~
5:15	4:15	3:15	2:15
WMAQ (447		f the Shops	
5:30	4:30	3:30	2:30
KOA (322.4) WFAA (475.	9) Women's	s hour.	
6	5	4	3 .
KOA (322.4)	Culinary b		2.15
6:15	5:15 Fachion r	4:15	3:15
KOA (322.4)	rasmon r	OTTOW.	
	<u> </u>		
I Cton Molom	ram ic	in doubl	e harnes:
Star-Teleg	rain, is	III dodbi	· 1100111003

up a national housekeeping suggestions. We are always glad to work these out and submit them for your approval in the most acceptable form. I feel sure that if Mrs. San Francisco has some particular dish which has found favor in her own community, there is no reason why Mrs. New York and Mrs. Chicago shouldn't enjoy it just as well,

Eastern | Central | Mountain | Pacific |
9:30 a.m. | 8:30 a.m. | 7:30 a.m. | 6:30 a.m. |
WWJ (352.7) | Tonight's dinner. |
10 | 9 | 8 | 7 |
WIP (508.2) | Menu. |
WJZ (454.3) | Women's hour. |
WRC (468.5) | Women's hour. |
WEAF (491.5) | Home | Service | talk | Betty | Crocker. |
WEAF (491.5) | Home | Service | talk | Betty | Crocker. |
WTAG (268) | Talk | to | Housewives. |
11 a.m. | 10 a.m. | 9 a.m. | 8 a.m. |
WHT (399.8) | Women's | program. |

Wednesday, January 13

KGO (361) As a Woman Thinketh.

We want to make these lessons and talks both interesting and valuable to you, and you can be sure that I will always appreciate any suggestions you care to send me.

SHORT WAVES

🗕 By Marcella -

The editor moved me over to the women's page this week. He said I was mostly of interest to women, and that was where I belonged. Guess he's right, judging from the mail. All kinds of ladies are writing to learn about their favorites. Funny the men don't write about their beloved lady

Jack Little isn't little. He's average in height and build. Yes, that's his real name, although he divided it this last spring with a beautiful lady, who adds the prefix "Mrs." Now the two Littles are touring the stations together.

The Hired Hand, of WBAP, Fort Worth clock is usually set for 10 o'clock in the answer it here.

s, he claims. But he sent me five pounds of wonderful Texas paper shell pecans to keep me quiet on the subject. Said he didn't want to break any fair lady's heart; that is, of course, if any lady happened to be admiring him.

"The Merry \Old Chief," formerly of WDAF, Kansas City Star, and now announcing at WJR, Jewett Radio, Detroit, is very likeable. He drives a flivver on rainy days and smokes a pipe. How to live long, in his creed, is to take a cold plunge every morning.

Speaking of marriage, as some of us will, I learn that Miss Vee Lawnhurst, popular WEAF pianist, will say "I do soon along with Sylvester B. Morris of New York city. After the nuptials the couple will be tuned in on Florida stations, for it's there they are bound.

Don't you wish you were President Coolidge or someone important like that? Imagine, WRC at Washington has a special microphone stand exactly 47 inches in height for the exclusive use of our chief executive. And Mrs. Coolidge doesn't have went that he would most likely be there. to dust it, either.

Radio artists and announcers have to adopt a peculiar schedule of hours. Imagine working from afternoon till mid-

AUNT JANE IS BOTH PRETTY AND PETITE



Every afternoon, except Saturday and Sunday, you can hear "Aunt Jane," above, at WOC tell how to bake a cake or plant a flower garden.

WJZ PROVIDES TWO HOURS FOR WOMEN

DOUBLE SERVICE AIDS CITY AND FARM DWELLERS

New Experimental Station at Bound Brook, N. J., Has Both Morning and Afternoon Programs

NEW YORK .- The difference in scheddules of daily routine followed by housewives of the city and those living out of town made the fact apparent that two women's hours were necessary, after the first test programs were completed at WJZ's new experimental station at Bound Brook, N. J.

Bound Brook, N. J.

The city woman, living in an apartment or small house, aided by electricity, gas and other modern conveniences, is generally through her housework and ready to listen to her Radio set by 10 o'clock. The afternoon is generally devoted to shopping, calling or a movie. The out-of-town woman, on the other hand, with a larger house to take care of and without the modern conveniences. is and without the modern conveniences, is seldom free to devote herself to Radio until after lunch.

Add Women's Forum In order that all could enjoy their service. Station WJZ has inaugurated a second women's hour, named "The Women's Forum," in addition to their morning program. The forum is a trifle more varied in its component parts than the women's hour. It is opened each day by Mrs. Julian Heath, the president of the National Housewives' league, who conducts a food forum. The balance of the program is changed each day, so that many topics of interest to the housewife are brought up. Decorating and wallcare and education papering, care of the complexion and beauty hints, styles and fashions and countless other subjects are treated by competent experts. Short periods are devoted to musical selections and the reading of poems.

morning. Thus they miss the Radio "get-ting-up" exercises, and must get their muscle limbering elsewhere. Credo Harris, of WHAS, Louisville, loves to hike. Jerry Sullivan, of WQJ, Chicago, is an equestrian, while the sport of Clyde Randall, WSMB, is motor boating. Golf claims many an otherwise perfect Radio enter-

Phillips Carlin is a card. We like him as much as Graham McNamee at WEAF. Handsome, young, nice disposition and a good future describes him to a tee. No, we don't think he is married.

Dropped in to visit Station WHT, Chicago, one night last week, and, just sort of blushingly, you know, I will break down and confess that I knew before I Anyway, as Flo Ziegfeld might say, he was amid some very pleasant surroundings.

What deep secret would you like to know about your favorite broadcast star? Drop night or two o'clock every day. The alarm me a note, girls, and I'll do my best to MARCELLA.

Photogravures of Your Favorite Artists GALLERY OF RADIO STARS

Suitable for Framing or Placing in Your Album

BY SPECIAL arrangement, Radio Digest is able to offer its readers a great opportunity to secure fine photogravures of their favorite Radio stars at practically no cost.

Radio fans will be able now, by this very special offer, to have pictures of their favorite artists and announcers before them when they listen in.

All that is necessary to secure photogravures from the Gallery of Radio Stars is to send the coupon published each week in Radio Digest, accompanied by ten cents to cover the cost of mailing and postage. Where a series of three photogravures is desired, it will only be necessary to send twenty-five cents and three consecutively numbered coupons clipped from Radio Digest.



ADVANCE PROGRAMS FOR THE WEEK

Saturday, January 9

Headliners Today

Mountain Eastern Central Pacific 7 p. m. 6 p. m. 5 p. m.
WBZ (333.1) Special musical feature.
7 6 8 7 6 5 WSM (282.8) Champion Barn dance fiddler. 8:30 7:30 6:30 5:30 WMAQ (447.5) "The Heart of Africa," travelogue. WJZ (454.5), WGY (379.5), WRC (468.5) Dextra 9 8 7 6

KTHS (374.8) Comedy program.

WOC (483.6) K. of C. Minstrels.

WSB (428.3) Red Head club.

WSM (282.8) Tennessee College Glee club.

10 9 8 7

KTHS (374.8) Comedy program.

11:10 10:10 9:10 8:

KGO (361.2) Wagnerian program.

2 a. m. 1 a. m. 12 11

KFI (467) Midnight frolic. 8:10

Saturday, silent night for: CFAC, CFCA, CHIC, CKNC, CNRA, CNRC, CNRE, CNRM, CNRR, CNRT, CNRV, CNRW, KFDM, KFEQ, KFKX, KFMQ, KFMX, KFUO, KFXF, KLX, KMA, KOAC, KOB, KQP, KSAC, KSO, KTAB, WDOD, WEAO, WEBJ, WEBW, WEEJ, WGCP, WGR, WGST, WHAD, WHAZ, WHB, WHN, WHO, WIP, WJAR, WJAZ, WKAR, WOAI, WOL, WOC, WRVA, WTAG, WTIC, WWJ.

Eastern Time Stations

CKNC, Toronto, Can. (356.9), 4 p. m., string quintet,
Charles E. Bodley, director; Gerrard J. Kelly, tenor,
Dwight Wilson, baritone.

CNRO, Ottawa, Can. (435), 7:30 p. m., Cosy Corner
for boys and girls, Uncle Dick; 8, Chateau Laurier
concert orchestra; 8:45, Lucille Moore, planist; Ottawa
quartet; Mrs. F. J. Horning, violinist; Chateau Laurier
ier dance orchestra.

dunter, dance orchestra.

Ier dance orchestra.

KDKA, Pittsburgh, Pa. (309.1), 6:30 p. m., Westing-house band; 8, farm program, National Stockman-Farmer studio; 8:30, Westinghouse band; Elmer Ab-

lett, tenor. PWX, Havana, Cuba (400), 8:30 p. m., concert, Prof. Walero Vallve.

WBBR, New York, N. Y. (272.6), 8 p. m., Dr. Hans
Haag, violinist; 8:10, L. Marion Brown, soprano; 8:20,
Bible questions and answers, Judge Rutherford; 8:40,
L. Marion Brown, soprano; 8:50, Dr. Hans Haag,

wBZ, Springfield, Mass. (333.1), 6:30 p. m., Little Symphony orchestra, KDKA; 7:30, Capitol theater or-

violinist.

WBZ, Springfield, Mass. (333.1), 6:30 p. m., Little Symphony orchestra, KDKA; 7:30, Capitol theater orchestra.

WCAE, Pittsburgh, Pa. (461.3), 3 p. m., music, Nixon cafe; 6:30, dinner concert, William Penn hotel; 7:30, children's period; 8, Youngstown artists.

WCX, Detroit, Mich. (516.9), 6 p. m., dinner concert, Book-Cadillac hotel.

WEAF, New York, N. Y. (491.5), 4-5 p. m., Louis Fisher's orchestra; dance music; 6, dinner music, Hotel Waldorf-Astoria; 7, Ross Gorman's orchestra, Monte Carlo; 8, Garo Vivani, bass baritone; 8:15, Grosskopf trio; 8:45, Constance and Helen Hulsmann, plano duets; 9, Delta Upsilon glee club; 9:45, Constance and Helen Hulsmann, plano duets; 10, Hughie Barrett and orchestra, Hotel Commodore; 11-12, Vincent Lopez and his orchestra, Casa Lopez.

WEAR, Cleveland, Ohio (389.4), 11 a. m., home service talk; 7 p. m., Hotel Statler concert orchestra, Maurice Spitalny, director.

WEEI, Boston, Mass. (348.6), 6:45 a. m., Tower health exercises; 7:45, morning watch, Estey Organ studio.

WFI, Philadelphia, Pa. (394.5), 1 p. m., tea room orchestra; 3, Brownson string club; 6:40, Bellevue Stratford hotel concert orchestra; 7, Bellevue Stratford hotel dance orchestra; 8, dinner, North Philadelphia Real Estate board; 11, Bellevue Stratford hotel dance orchestra; 8, dinner, North Philadelphia Real Estate board; 11, Bellevue Stratford hotel dance orchestra; 8, dinner, North Philadelphia Real Estate board; 11, Bellevue Stratford hotel dance orchestra.

phia Real Estate board; 11; Bellevue Stratford hotel dance orchestra.

WGCP, New York, N. Y. (252), 3 p. m., Henry Rogers, pianist; 3:15, Cross and Abrahams, songs; 3:30, Andy Razaf and Paul Denniker; 3:45, Elmer McDonald songs; 4-5, Club Clover orchestra; 8:30-9, Strickland's orchestra, Bob McDonald; 9:15, Adine Feeker, soprano; 9:30, Regalbutta sisters, piano duets; 9:45, Madeline Freeman, soprano; 10, Pettit, Frasier, Marcus trio; 10:15, June Lee; 10:30, Strickland's orchestra.

tra.

WGHB, Clearwater, Fla. (266), 6:30-7:30 p. m., Fenway hotel orchestra; 8:30-9:30, weekend revue, pupils, Mrs. George Kelly; 11:45-1, WGHB Radio Ramblers midnight frolic.

WGR, Buffalo, N. Y. (319), 2:30 p. m., WGR's after-

WGR, Buffalo, N. Y. (319), 2:30 p. m., WGR's afternoon program.
WGY, Schenectady, N. Y. (379.5), 7:30 p. m., dinner program, Onondaga hotel, WFBL; 7:45, half-hour bridge lesson, No. 5; 8:30, Dextra male chorus; 9:30, dance program, Syracuse hotel.
WHAR, Atlantic City, N. J. (275), 2 p. m., Seaside hotel trio; 7:30, "Life of William West, the Artist," Julia Hazard; 8, Seaside hotel trio.
WIP, Phildelphia, Pa. (508.2), 6:45 a. m., setting-up exercises; 7, setting-up exercises; 10:30, reducing exercises; 1 p. m., organ recital; 3, St. Leger's dance orchestra; 6:05, Benjamin Franklin concert orchestra; 7, Uncle Wiy's bedtime stories; 8, Banquet of Transportation club of the Pennsylvania railroad system, 10:05, Benjamin Franklin dance orchestra; 11:05, organ recital. organ recital. WJAR, Providence, R. I. (305.9), 1:05 p. m., studio

wJR, Pontiac, Mich. (516.9), 7 p. m., Jean Goldkette's Petite symphony orchestra; 9, Jean Goldkette's serenaders; 10, Jean Goldkette's Victor Recording orchestra; 11:30, Jewett Jesters.

WJZ, New York, N. Y. (454.3), 1 p. m., Irwin Abrams' Knickerbocker grill orchestra; 2, "Aviation's Future for National Defense and Commerce"; 4:30, Hotel Lorraine grill orchestra; 7, Bernhard Levitow's Hotel Commodore dinner concert; 7:45, Radio novel, Cosmo Hamilton; 8, Hotel Madison orchestra; 8:30, announced; 10:30, Paul Specht's Moulin Rouge orchestra.

Cosmo Hamitton; S. Hotel Madison orchestra; 3:30, announced; 10:30, Paul Specht's Moulin Rouge orchestra.

WLIT, Philadelphia, Pa. (394.5), 12:02 p. m., daily almanac; Stanley theater organ recital; Arcadia cafe concert orchestra; 2. Arcadia Cafe concert orchestra; 4:30, Ed. Matthews dance orchestra; 7:30, Hotel Benjamin Franklin concert orchestra.

WMCA, New York, N. Y. (340.7), 6-6:30 p. m., Olcott Vail and his Hotel McAlpin string ensemble; 6:30-7:30, The Amphions; 8-8:15, current events; 10-10:15, talk on Burlap; 10:30-11, "The Bachelor Poet," Norman Pearce; 11-12, Ernie Golden and his Hotel McAlpin orchestra.

WYC, New York, N. Y. (526), 7 p. m., studio program; 7:30, police alarms; 7:35-7:45, studio program; 8, lecture; 8:30, entertainment.

WO, Philadelphia, Pa. (508.2), 11 a. m., organ recital; 12, Golden's crystal tea room orchestra; 4:45, organ recital; 7:30, Hotel Adelphia French room orchestra.

WOR, Newark, N. J. (405.2), 3 p. m., Casion's tea music; 6:30, words often mispronounced; 6:45, sports, Bill Wathey; 7-7:30, Jacques Jacobs string ensemble; 7:45-8, Van's collegians; 10, Newark evening news; 10:15-12, Katinka orchestra.

WPG, Atlantic City, N. J. (299.8), 1:30 p. m., Hotel Morton luncheon music; 6:45, organ recital, Arthur Scott Brock; 7, Hotel Ambassador dinner music; 8, WPG male quartet; 8:45, Killy Mitchell's Irish sunshine; 9, Hotel Traymore concert orchestra; Elks home.

WREO, Lansing, Miell. (285.5), 6-7 p. m., dinner con-

home.

WREO, Lansing. Mich. (285.5), 6-7 p. m., dinner concert, Speed-Wagon serenaders; Gold Standard Ensemble; 10-12, special dance program, WREO Speed-Wagon serenaders, Carl Hall Dewey, director.

WRC, Washington, D. C. (468.5), 12 m., organ recital,



The soprano soloist of St. Bartholomew's church, New York, Grace Kerns, will be the guest artist on the Cincinnati community program, Monday night, of WSAI. Miss Kerns holds the highest paid soprano position of any church soloist in America.

Homer L. Kitt studios; 1 p. m., Hamilton hotel orchestra; 6, Lee House trio; 7, Hotel Washington orchestra; 8:10, Bible talk; 8:30, Dextra male chorus; 9:15, music; 10:30, Crandall's Saturday Nighters; 12-1, Spanish Village orchestra.

**VAG, Worcester, Mass. (268), 10:30 a. m., musica selections; 12:05-2 p. m., luncheon music, WTAG orchestra, Will Hardy, director; 3-5, tea dansant music, WTAG orchestra; 5:15, "The Twinkle Twinkle Story Teller".

WTAM, Cleveland, Ohie (389.4), 12:15-1:15 p. m., Austin Wylie's Golden Pheasant orchestra; 6-7, Carl Rupp and his Hotel Hollenden orchestra; 8-8:45, Guy Lombardo and his Royal Canadians; 8:45-9, popular music; 9-12, Coo Coo club.

WWJ, Detroit, Mich. (352.7), 12:05 p. m., Jules Klein's Hotel Statler orchestra; 3, Detroit News orchestra.

Central Time Stations CKY, Winnipeg, Can. (384.4), 8 p. m., "Current World

High Lights of the Week

ODERN jazz orchestra leaders who think that synchronizing their shoulders with the music their shoulders with the music, is something new have a lot to learn Thompson who Jimmy has been fiddlin' for more than sixty years. Although Uncle Jimmy is only 82, he plays 375 barn dance numbers which he dances as he plays. Radio has at last claimed this popular fiddler and he will appear every Saturday at WSM, Nashville. Intrepid hunters will prefer the travelog by Mary Hastings Bradley at WMAQ, Chicago.

The world's greatest lieder singer is the title given to Elena Gerhardt, who will sing these charming German folk songs Sunday evening at WTIC, Hartford. Roszi Varady, cellist, will assist. Paul Althouse, tenor, and Arthur Middleton, baritone, formerly of the Metropolitan opera company, are the Atwater Kent artists singing over the WEAF chain this Sunday. Detailed program appears on page 19.

The guest artist of the community program at WSAI, Cincinnati, Monday evening, is Grace Kerns, soprano soloist of St. Bartholomew's church of New York. Miss Kerns is one of the most famous of church soloists. Fans who are glad the Red Headed Music Maker is back in this country will be pleased to know that Wendell Hall sings from KFAB, Lincoln, Neb., this same evening.

An ex-service man who fought and

was wounded in the battle of Argonne Forest is the new Tuesday feature of WBAL, Baltimore. He is John Wilbourn, popular as a ballad singer, and will give the dinner hour concert on this day. He has sung with the DeFeo opera company and the Washington Chamber Music society.

The zither is an old-fashioned musical instrument being revived by Radio. This queer instrument which sounds a little like the xylophone will come into its own Wednesday evening when the Cincinnati Zither players gather at WLW. Old fiddlers have been competing in Iowa, Kansas and other states in the Union. Now Arkansas schedules an old fiddlers' contest at KFMQ.

From eleven to three a gay party may be enjoyed by fans who cannot sleep Thursday night. Representatives of the theatrical press will meet in the grand ballroom of the Sherman House. Their witty speeches will be broadcast by WLS. Another late or early program may be enjoyed at WRR, Dallas. George Perfect and assisting musicians from the Melba theater will make the midnight hour a pleasant one.

Ye Old Tyme Village quartet whose singing of "Old King Cole," "Robin Adair," "Juanita," and many other favorites of long ago has made it famous, will entertain at CNRT, Friday. Patsy O'Shawghnessy Douglas, whistler, will be the soloist.

Events," Prof. F. W. Osborne; 9, concert, J. A. Banfield company.

KFAB, Lincoln, Nebr. (340.7), 5:30-6:30 p. m., dinner concert; 8:30-9:30, Schmoller and Mueller musicale.

KFMQ, Fayetteville, Ark. (299.8), 7:30 p. m., basketball game, U. of Ark.-Hendrix college.

KFNF, Shenandoah, Iowa (266), 7 p. m., concert, Widney sisters, Shenandoah; 11, old-time fiddling.

KFVE, University City, Mo. (240), 9:15 p. m., amusoment review, Romaine Fielding; Gene Witacker's orchestra.

ment review, Romaine Fielding; Gene Witacker's orchestra.

KMA, Shenandoah, lowa (252), 11:30-12:30 p. m.,
noonday rural program; domestic science talk, June B.
Case; garden and orchard talk, Earl E. May; music,
6-7, Pollyana stories, Mrs. Nickols; popular musical program; 9-11, pipe organ recital, Wm. Howie.
KPRC, Houston, Texas (296.9), 12 m., Jack Willrick's
orchestra; Virginia Willrick, plano accordionist; Orill
O'Reilly, vocal entertainer; 12:30 p. m., health talk,
Dr. A. H. Flickwir; 7:30, Bible class, Rev. Claude L.
Jones; 8, Edith Brown, organist; 8:30, Frank Tilton,
blind pianist; 11, Jamie's Grand theater entertainers.
KSD, St. Louis, Mo. (545.1), 7 p. m., program, Missouri theater; 8:30, St. Louis symphony orchestra concert.

cerr.

KTHS, Hot Springs National Park, Ark. (374.8), 9-9:20
p. m., comedy program, Al Reynolds; Mrs. Stone, accompanist; 9:20-9:25, bedside story, representative, Medical Intelligence bureau; 9:25-10:30, New Arlington botel orchestra.

p. m., comedy program, Al Reynolds; Mrs. Stone, accompanist; 9:20-9:25. bedside story, representative, Medical Intelligence bureau; 9:25-10:30, New Arlington hotel orchestra.

KWKH, Shreveport, La. (261), 9 p. m., Harmony five, KYW, Chicago, III, (535.4), 11:35 a. m., table talk, Mrs. Anna J. Peterson; 12:05-1 p. m., noonday concert, Commonwealth Edison company; 1-2, Congress hotel, Coon-Sanders Original Nighthawks; 4, frolic; 7:05, children's bedtime story, Uncle Bob; 6, dinner music, KDKA; 7:30-8:30, home-lovers' hour; 8:30-11, Congress classic; 11:30-1 a. m., Congress carnival; 1-2, Insomnia club, Coon-Sanders Original Nighthawks.

WAMD, Minneapolis, Minn. (243.8), 12 m., musical program; Marion Latta, contralto, Carl Schmid, tenor, Bayne Cummins, accompanist, Rose Leiberman, contralto; 7:05, talk; 7:10, popular musical program; Harmony twins, Fred Roble, Bob McIcher, Rose Leiberman, contralto, Adeline Wagner, soprano, Sidney Beskin, tenor; 11, skyrocket frolic, George Osborn's Hotel Radisson.

WBBM, Chicago, III. (226), 4-6 p. m., Harry and Sandy; Valentino Inn orchestra; Jack Penewell; 8-9:30, college program; 9:30-11, Sandy and Harry; Moulin Rouge orchestra; Sy Berg; Fred Jacobson; 11-2, Sunset male quartet; George Thurn; Two Jays, Lew Russell; Romo Vincent; Moulin Rouge orchestra.

WBCN, Chicago, III. (266), 10-10:30 a. m., shopping talk, Penny Wise; 3-5 p. m., tea time matinee; Clarence Jones, pianist and song writer; Cecile and Johanna Arends, violinist and pianist; Marie Wright, soprano; 10-11:15, jazz jamboree, Midway Dancing Gardens orchestra; Cameron and Fett, "The Harmony Wizards," harmony duo; Albert Blaha, concertinist; Johnny Special, the harmonica acrobat; Elizabeth Emmett Malone, soprano; Jack Parker, tenor; 11:15-12, King Static's court; Frank H. MacDonald, "King Static's court; Frank

tra.

WDAF, Kansas City, Mo. (365.6), 3:30-4:30 p. m.,
Star's string trio; 6-7, personal message, Roger W.
Babson; organ music, Pantages theater; music, the
Trianon ensemble; 11:45-1, the Plantation players,
Hotel Muchlebach; Billy Adair's Kansas City club orchestra; Eddie Kuhn's Kansas City Athletic club
orchestra.

Hotel Muchlebach; Billy Adair's Kansas City Athletic club orchestra; Eddie Kuhn's Kansas City Athletic club orchestra; Eddie Kuhn's Kansas City Athletic club orchestra.

WEBH Chicago, III. (370.2), 11:30-12 m., woman's hour; 9, Edgewater Beach Oriole orchestra, dance numbers; 10, James Murray, tenor; Marie Kelly, readings; 11, Edgewater Beach Oriole orchestra, dance numbers; 12, Marie Kelly, readings; songs; Wayne Myers, stories; Frank Greif, tenor; 1, Edgewater Beach Oriole orchestra, dance numbers; 2, Marie Kelly, readings; Frank Greif, tenor; Wayne Myers, stories, Kay Ronayne, songs.

WENR, Chicago, III. (266), 6-7 p. m., dimner concert, Rauland lyric trio; Marie Tulley, soprano; piano selections; 8-10, popular program; All-American Pioneers; Walter Peterson, Kentucky Wonderbean; John Papa, concertinist; vocal selections; Al Tweed, harmonica soloist; Art Bilquist, popular songster.

WGES, Oak Park, III. (250), 5-7 p. m., Marge Van, organist; Ruth Kalthoff, mezzo-soprano; John Stanford tenor; playlet, Miles Sullivan players; 8-9, Doc Berendson and his Tiffin theater orchestra; Paola Corado, baritone; Ellem Maurico, planist; Remington Welsh, organist; 11-1 a. m., the Coyne Serenaders orchestra; Remington Welsh, organist; Sandy MeTavish, Scotch comedian; Eddie Adams, the girl with the uke; Rose Sweeney and Loretta Clusman.

WGN, Chicago, III. (302.8), 11-11:30 a. m., household hints; 11:30-12, fashions; 12:40-2:30 p. m., Drako concert ensemble, Blackstone string quintet; 2:30-3, Lyon and Healy artist series; 3-3:25, public service period; 3:25-3:30, Port o' Missing Men; 3:30-4:15, tea time music, Marshall Field tea room orchestra; 4:15-5, syncopation matinee; 6:30-7, Drake concert ensemble; 9-10, popular program; 10-11, amateur night.

WHAD, Milwaukee, Wis. (275), 11 a. m., pianolog, Andy Hertel; story for children. Faye McBeath; Margaret Cunningham, pianist; Willard Kalcibc, tenor banjo soloist.

WHAS, Louisville, Ky. (399.8), 1-2 p. m., concert, Benson trio. Seelbach hotel; 3-3:30, organ recital, Mrs. Myerle

garet Commingnam, planist; Willard Rafeine, tenor banjo soloist.

WHAS, Louisville, Ky. (399.8), 1-2 p. m., concert, Benson trio, Seelbach hotel; 3-3:30, organ recital, Mrs. Myrtle Fulks Zahn, Jr., at the Alamo theater; soprano solos; Mrs. Philip Maxwell; 4-5, musical selections, Harry S. Currie director, assisted by Leroy Hobb; soprano solos, Minnie Simon, accompanied by Yetta Costa; reading, Martha Pope Robinson; readings; 7:30-9, concert, Barney Rapp's orchestra Brown hotel; soprano solos, Mrs. W. N. Lipscomb.

WHT, Chicage, Ill. (399.8), 6 p. m., classical program; dinner organ recital, Al Carney, Grayling's string trio, Eleanor Kaplan, violinist, W. A. Dyckman, basso; Jean Carlson, soprano, Hugh Aspinwall, tenor; 7:45-9:15 (238), musical features, Alamo orchestra; 9:30 (399.8), Chez Pierre orchestra; Fred Jacobsen, humorist; 9:50, Kitchen Klenzer entertainers; 10:10, Vic Fredericks, baritone; Clark and Bala, Hawatian

(399.8), Chez Pierre orchestra; Fred Jacobsen, humorist; 9:50, Kitchen Klenzer entertainers; 10:10, Vic Fredericks, baritone; Clark and Bala, Hawaiian team; 10:30, Gervin Little symphony; 11:30, Oscar Heather, tenor; 12, Pat Barnes, "Your Hour League", presidents, Pat Barnes and Al Carney.

WIBO, Chicago, Ill. (226), 10-11 a. m., shoppers' bureau; 2-4 p. m., popular shut-in program; 6-8, dinner concert, WIBO trio; Ruth Buhl Flick, reader; North Shore Line quartet.

WKAF, Milwaukee, Wis. (261), 8:30-10:30 p. m., May Scholler, A. W. McCaughna; Hy Cloeman's Arcadians dance program; 11:15-12:30.

WLS, Chicago, Ill. (344.6), 12-12:45 p. m., Junior R. F. D. roundup program; trapping talk, S. T. Keshen; "Farmers of Tomorrow," John C. Meis; 7-7:30, lullaby time, Ford and Glenn; 7:20-12 midnight, national barn dance and revue.

WLW, Cincinnati, Ohio (422.3), 7 p. m., organ concert, Johanna Grosse; 7:30, childrens' safety talk, Victor Strauss; 7:40, Seckatary Hawkins; 8, Uncle Charlie Warner and his Coon Dog orchestra; 9, dance music, Castle farm.

Castle farm.

WMAQ, Chicago, III. (447.5), 6 p. m., Chicago theater organ; 6:30, Hotel Lasalle orchestra; 8, Frederick Daw, Russell Pratt; 8:30, "The Heart of Africa," Mary Hastings Bradley; 9, Chicago theater revus.

WMBB, Chicago, III. (250), 7-8 p. m., Trianon duo, David Boyd, whistler; Balph Elliott, program, direction J. Bodewalt Lampe; 9-11, Trianon orchestra, Dell Lampe, Woodlawn orchestra, Armin F. Hand, Scotty Welsh and Madison sisters, Lionel Carter, Tracy and

Dunean, popular program.

WMC, Memphis, Tenn. (499.7), 7:15 p. m., bedtime story: 8:30, Valleytown Joy Boys.

WOAW, Omaha, Nebr. (526), 6 p. m., orchestra; 7,

ELEPHANT HUNTER TO TALK AT WMAQ



hotel dance orchestra.

KTAB, Oakland, Calif. (240), 9-9:30 a. m., prayer service, Rev. E. L. Spaulding.

Sunday, January 10

Headliners Today

Eastern Central Mountain
5 p. m. 4 p. m. 3 p. m.
WITC (475.9) Organ recital.
9 7

WTIC (475.9) Organ recital.

9
7
6
KTHS (374.8) Classic hour.
WTIC (475.9) Elena Gerhardt, German singer.
9:15
8:15
7:15
6:15
WEAF (491.5), WEEI (348.6), WGR (319), WCAE (461.3), WCAP (468.5), WJAR (305.9), WTAG (268), KSD (545.1), WCCO (416.4), WOC (483.6), WOO (508.2), WGN (302.8), WSAI (326), WWJ (352.7) Atwater Kent hour.
11:15
10:15
9:15
WHB (365.6) Organ concert.
11:30
10:30
9:30
8:30
KTHS (374.8) Organ classic.
12 m.
11
KFI (467) Examiner hour.
KNX (336.9) Russian string quartet.

Sunday, silent night for: CFAC, CKNC, CNRA, CNRC, CNRE, CNRM, CNRO, CNRR, CNRT, CNRV, CNRW, KFAB, KFAU, KFKX, KFMQ, KFOA, KFVE, KFWA, KMA, KOAC, KMTR, KOB, KSAC, KSO, KWSC, PWX, WAHG, WCAD, WCX, WDAF, WEAD, WEBJ, WEBW, WGES, WGHB, WGST, WHAD, WHAS, WHAZ, WIP, WJAZ, WJJD, WKAF, WKAR, WLIT, WMAQ, WMC, WNYC, WOI, WRC, WRVA, WSB, WTAM.

Eastern Time Stations CFCA, Toronto, Can. (356), 11 a. m., service, St. Michael's cathedral; 7 p. m., St. Paul's Anglican church. CHIC, Toronto, Can. (357), 5 p. m., organ recital, George H. Graham.

KDKA, Pittsburgh, Pa. (309.1), 11 a. m., church

Here is another reason why California successfully holds its own against Florida. Roberta Wood is a member of the Y. W. C. A. girls' class, which meets every Friday at KGO, Oakland. To the right is Nick Nichols, orchestra director, composer, violinist, baritone and WPG announcer.

Saturday, January 9

after-dinner hour; 9, Deluxe program; 10:30, Frank Hodek and his Nightingale orchestra; 11, Arthur Hays and his organ jubilee, Dr. Applesauce, announcing.

WOC, Davenport, 10wa (483.6), 5:45-6 p. m., chimes concert; 6:30-6:50, Sandman's bedtime stories, L. Emory Wass; 9-10, musical program, K. of C. minstrels, Kewanee, Illinois; 11-12, LeClaire hotel orchestra; Peter MacArthur, baritone.

WOI, Ames, Iowa (270), 12:45 p. m., "Problems, Questions and Answers Relating to Soils," Prof. W. H. Stevenson.

Questions and Answers Relating to Soils," Froi, W. H. Stevenson.

WOK, Chicago, III. (217.3), 1-2 a. m., Tierney's Town club orchestra; Husk O'Hare's Cocoanut Grove orchestra; Harriet Lee, contralto; Herman Sinaiko, violinist; George Allen, tenor; Bob Mokrejs, pianist; 6 p. m., 1:30 a. m., Gus C. Edwards and his orchestra; Husk O'Hare's Cocoanut Grove orchestra; Tierney's Town club orchestra; Capitol theater musical program; WOK mixed questeft Herman Sinaiko, violinist. Horiat o nare s Cocoanut Grove orchestra; Tierney's Town club orchestra; Capitol theater musical program; WOK mixed quartet; Herman Sinatko, violinist; Harriet Lee, contraito; George Allen, tenor; Bob Mokrejs, pianist; Bill Hay, bass.

WOQ, Kansas City, Mo. (278), S-9 p. m., musical program; 10-11, musical healing service.

WORD, Batavia, III. (275), 8 p. m., Webster hotel concert; 10, program, B. Csillog, director; Chicago Motor club speaker.

club speaker.

WGI, Chicago, III. (447.5), 11-12 m., home economics program; "Let's Choose a Picture," Marjory Curry; "Better Diction," Madame Peggy Righter; 3-4 p. m., kaffee klatsch program; 7-8, Ralph Williams and his Nainbo Gardens orchestra; Sheppand Levine, tenor; Helen Reed, accompanist; Kane McDuffee, whistler; Ralph Keim, pianist; Anne Keim, soprano; 10-3 a. m., Ralph Williams and his Rainbo Skylarks; Jerry Sullivan; Rose Vanderbosch, soprano; Hal Lansing, ukulele soloist; Everett George Opie, reader; Bert Daris; Clarence Theders, tenor; George Thurn, kazoo soloist; Joey Stool, tenor; Eddie Vogel, baritone; Thelma Pefferle, soprano.

WRR, Dallas, Tex. (246), 12-1 p. m., music; 5:15, bedtime story; 6-7, Jack Gardner's orchestra; 8-9, Mrs. Fay Rabb, violinist.

WSA1, Cincinnati, Ohio (326), 7:30 p. m., children's stories, Mrs. Ethel Knapp Behrman; 7:50, WSAI Radio chime concert, Robert Badgley; 8:15, the Bicycle Card sextet.

SB, Aflanta, Ga. (428.3), 8 p. m., Rogers red head club; 10:45, Hired Help skylark.

WSM, Nashvillo, Tenn. (282.8), 6:30 p. m., Francis Craig and his orchestra; 7, WSM bedtime story inter-lude; 8, Uncle Jimmy Thompson, champion barn dance Tennessee College Glee club; 10, Paul

fiddler: 9. Tennessee College Sharpe's orchestra. WSUI: lowa City, lowa (483.6), 7:30-9 p. m., musical program: Mi dred B. Puddock, mezzo-soprano; Verness Buch, planist,

Mountain Time Stations

KFWA, Ogden, Utah (261), 4-5 p. m., organ recital, Paramount theater; 5-6, Ogden Radio dealers program! 9-10:30, organ recital, Paramount theater; 10:30-12, dance music, Olie Reverse and his orchestra. KOA, Denver, Colo. (322.4), 12:15 p. m., Rialto theater musicale; 9, dance program, Harmony Peerless orchestra

Pacific Time Stations

Pacific Time Stations

KFI, Los Angeles, Calif. (467), 5:30-6 p. m., Examiner matinee; 6 p. m., nightly doings; 6:15, KFI's seeing California; 6:30, vest pocket program; 6:45, Radiotorial period; 7-8, program arranged by Maude Reeves Barnard; 8-9, Examiner hour; 9-10, Louise Klos trio, Yeabel Bowen, soprano; 10-11, Packard Radio club, Billy and Polly Hall; Carlson Sisters, Madelyn Hardy and other favorites; 11-3 a. m., KFI midnight frolic, Don Meany, master of ceremonies.

KFOA, Seattle, Wash. (454.3), 8:30-9:30 p. m., program; 9:30-11:30, Eddie Harkness and his orchestra. KGO, Oakland, Calif. (361.2), 4-5:30 p. m., concert orchestra, Hotel St. Francis; 8:10, Wagnerian program, San Francisco concert orchestra; California mixed chorus; Marion Vecki, baritone; Flora Howell Bruner, soprano; Edna Linkowski, pianist; Carl Anderson, tenor; George B. Allen, baritone; Ruth Waterman, contralto; 10-12, Girvin-Deuel California Collegians orthebrets. tralto; 10-12, Girvin-Deuel California Collegians or-

KGW. Portland, Ore. (491.5), 10:30 a. m., music; 12:30-1:30 p. m., Rose city tric; 6-7, dinner concert; 9-12, dance music, Indian Grill.

KHJ, Los Angeles, Calif. (405-2), 6-6:30 p. m., Leighter. (HJ, Les Angeles, Calif. (405-2), 6-6.30 p. m., Leagnton's Arcade cafeteria orchestra, Jack Cronshaw, leader; 6:30-7.30, history story, Prof. Hertzog; Jack Searle, Dollie Wright, Henrietta Poland, Nona Clapp in the kiddies' hour with Uncle John; 7:30, "Advice to Imperial Valley Growers." Fred C. McNabb; 8-10, de luxe program, arranged and presented by Walter Biddick; 10-11, Don Clark's Bilmore hotel dance orchestra.

KJR, Seattle, Wash. (384.4), 1-2:30 p. m., matinee program, organ recital. Columbia theater; tonight's dinner, Bernice Redington; 8:30-10, L. C. Warner company studio program; 10-12, Henry Halstead's Victor recogniting organication.

company studio program; 10-12, Henry Halstead's Victor recording orchestra.

KMTR, Hollywood, Calif. (238), 6-7 p. m., Starr Piano company studio; 8-10, the Turner orchestra in classical selections, direction Loren Powell.

KNX, Hollywood, Calif. (336.9), 5-5:30 p. m., Sumny Jra's stories; 5:30-6:15, Wurlitzer pipe organ studio; Town Tattler; 6:15, travel talk, W. F. Alder; 6:30-7, Atwater Kent concert orchestra; 7, stories of insect life, H. W. McSpadden; 7:15, church announcements; 7:30-8, program, Wurlitzer pipe organ studio; 8-10, KNX feature program; 10-11, Ray West's Coccanut Grove orchestra. Ambassador hotel; 11-2 a. m., Hollywood Nite with Filmland Frolickers.

KPO, San Francisco, Calif. (428.3), 1-2 p. m., Rudy Seiger's Fairmont hotel orchestra; 2:30, Modesto Boy's band; 3:30, Palace hotel concert orchestra; 6:35-7:30, Waldemar Lind and the States restaurant orchestra: S-12, Cabirla cafe orchestra.
KPSN, Pasadena, Calif. (3:5.6), 8-9 p. m., studio pro-

services; 4 p. m., organ recital, Dr. Charles Heinroth; 4:45, vesper service, Shadyside Presbyterian church, Rev. Hugh Thomson Kerr, pastor; 6:30, dinner concert; 7:45, services.

WBAL, Baltimore, Md. (246), 6:30-7:30 p. m., twilight program; WBAL concert program with vocal and instrumental soloists.

WBZ, Springfield, Mass. (333.1), 10:50 a. m., South Congregational church, Rev. James Gordon Gilkey, pastor; 7 p. m., Copley Plaza orchestra; 8, Ford Hall Forum, talk, "Hypocrisy of White Folks," Dr. W. E. B. DuBois.

B. DuBois.

WCAP, Washington, D. C. (468.5), 11 a. m., church service; 4, chapel service; 7:20-9:15, musical program, Capitol theater, New York; 9:15-10:15, Atwater Kent

Radio hour.

WCAU, Philadelphia. Pa. (278), 5 p. m., recital; 5:15, Radio church services; 5:25, "The Third and Fourth Days in Soul's Growth," Rev. Dr. John Stockwell; 6:45, Clarence Seamen's concert orchestra; 7:45, Cathay tog garden concert orchestra; 8:30, Bonwit Teller's light opera company; 9, Potash and Perl-

mutter.

WCX, Detroit, Mich. (516.9), 10:30 a. m., services, Central Methodist Episcopal church.

WEAF, New York, N. Y. (491.5), 2-3 p. m., Sunday Radio service, auspices of Greater New York Federation of Churches, kev. Herbert F. Laflamme, presiding; 3-4, Young Peoples conference, auspices of Greater New York Federation of Churches, direct from Marble Collegiate church; 4-5:30, men's conference, Bedford Branch Y. M. C. A., Brooklyn, Mr. H. Walter Riland, presiding, WEEI, WTAG, WCAE, WSAI; 7:20-9:15 Major Edward Bowes and "Capitol Family," also through WEEI, WCAP, WJAR, WTAG, WWJ, WCAE, KSD; 9:15-10:15, Atwater Kent Radio hour with Paul Althouse, tenor; Arthur Middleton, baritone, WEEI, WCAP, WJAR, WGR, WCAE, WSAI, WWJ, WOC, WCCO, WGN, WEAR, KSD, WTAG, WO.

WEAR, Cleveland, Ohio (389.4), 3:30 p. m., Goodyear WEAR, Gieveland, Onto (389.4), 3:30 p. m., Goodyear concert orchestra; 7, Park theater orchestra; Angelo Vitale director; 7:45, Firestde hour; 8:30, Vincent Perer, organist; 9:15, Atwater Kent hour, WEAF.
WEEI, Boston, Mass. (348.6), 10:49 a. m., Old South Church; 3 p. m., organ recital; 4, Dr. S. Parkes Cadman, WEAF; 7:20, Major Bowes and his Capitol Family; 9:15, Atwater Kent Radio hour.

WFI, Philadelphia, Pa., (394.5), 4:30 p. m., services, Central branch Y. M. C. A; Lewis Brothers quartette. WGCP, New York, N. Y. (252), 7-8 p. m., Molzen's orchestra: 8, Milton Yokeman, tenor; 8:15, Shara and Retskin; 8:30, studio program; 8:45, health talk 8:50, Bernard Share, violinist; Harry Retskin, pianist; 9-9:30, Strickland's orchestra.

WGR, Buffalo. N. Y. (319), 3 p. m., concert, Walther chorus; 7:45, Central Presbyterian church service 9:15, WEAF, Atwater Kent program.

WHAR, Atlantic City, N. J. (275), 10:45 a, m., morning service. Chelsea Baptist church; 2:15 p. m., sacred recital, Seaside hotel tric; 2:45, sermon; 7:50, Chelsea Baptist church; 9, "An Hour with the Glassics," Seaside hotel quartet; 11:15, Strand theater organ recital.

Pasadena ensemble, soloists; 9-10, Maryland lance orchestra.

Oakland, Calif. (240), 9-9:30 a. m., prayer, Rev. E. L. Spaulding.

WHN, New York, N. Y. (361.2), 12:30-1 p. m., Lexington organ recital; 2-3, Queens County Christian Endeavor program; 3-4:30, Calvary Baptist church services; 5-5:30, Roseland dance orchestra; 7:30-9:45, Calvary Baptist church services; 10:45-11:15, Janssen's orchestra; 12:12:30 a. m., Harry Richman and his entertainers.

orchestra; 12-12:30 a. m., Harry Richman and his entertainers.

WIP, Philadelphia, Pa. (508.2), 10:45 a. m., services. Holy Trinity church; 4 p. m., "A Young Man Looks at His World," religious talk, Tom Skeyhill.

WLIT, Philadelphia, Pa. (394.5), 2 p. m., Arcadia cafe concert orchestra; 6:30, organ recital, Benjamin Franklin hotel; 7, Benjamin Franklin hotel concert orchestra; 8:30, concert, auspices Jewish welfare.

WLWL, New York, N. Y. (288), 8-10 p. m., Paulist choristers; sermon, Rev. James M. Gillis.

WMAK, Lockport, N. Y. (266), 7:45-8 p. m., musicale; 8-8:30, Amy Titus Worthington, pianist; 8:30-9, musicale, Wolff's Furniture House, Inc; 9-10, musicale program, Sunrise Point Development company.

WMCA, New York, N. Y. (349.7), 11-12 a. m., Christian Science services; 6-7 p. m., Roemer's Homers; 7-7:30, Ernie Golden and his Hotel McAlpin orchestra; 7:30-8, Olcott Vail and his Hotel McAlpin string ensemble.

WOO, Philadelphia, Pa. (508.2), 2:30 p. m., musical exercises, Bethany Sunday school; 6, organ recital, Clarence K. Bawden; 7:45, services, Bethany temple, sermon, Rev. Gordon MacLennan; 9:15, Atvater Kent Radio hour, Paul Atlhouse, tenor, Arthur Middleton, bartone.

WPG, Atlantie City, N. J. (299.8), 3:15 p. m., organ

Radio hour, Paul Atthouse, tenor, Arthur Middleton, baritone.

WPG, Atlantic City, N. J. (299.8), 3:15 p. m., organ recital, Arthur Scott Brook; 4:15, community vocal and instrumental recital, St. James Episcopal church; 9, Hotel Ambassador concert orchestra; 10, organ recital.

WTAG, Worcester, Mass. (268), 4-5:30 p. m., men's conference in the Bedford Branch Y. M. C. A., Brooklyn, New York; address, Dr. S. Parkes Cadman; music by Gloria Trumpeters, George Betts, chime soloist; 7:20-9:15, musical program, Major Edward Bowes and the "Capitol Family"; 9:15-10:15, Atwater Kent Radio hour.

WTIC, Hartford, Conn. (475.9), 5 p. m., organ recital, Prof. Harry B. Jepson; 9, Roszi Varady, cellist Elena Gerhardt, vocalist.

WWJ, Detroit, Mich. (352.7), 11 a. m., St. Paul's Episcopal cathedral; 2 p. m., Detroit News orchestra; 7:20, Capitol theater gang.

Central Time Stations

Central Time Stations

CKY, (Winnipeg, Can. (384.4), 7 p. m., Crescent United church; 9, studio concert.

KFAB, Linceln, Nebr. (340.7), 4-5 p. m., vesper service, sermon and music.

KFNF, Shenandoah, lowa (266), 10:45 a. m., morning worship, First M. E. church; 2:30 p. m., Golden Rule song service; 3, religious services, Methodist Sunday school; 6:30, regular services, Golden Rule Circle; 7:30, Christian church services.

KMA, Shenandoah, lowa (252), 4-6 p. m., Vesper service, music and talk, G. H. Van Houten.

KPRC, Houston, Texas (296.9), 10:45 a. m., St. Paul Methodist church, Rev. K. P. Barton, pastor; 7:30 p. m., Christmas song service, First Methodist church, Mrs. John Wesley Graham, director of choir; 9:30, studio program.

Mrs. John Wesley Graham, director of choir; 9:30, studio program.

KSD, St. Louis, Mo. (545.1), 6:15 p. m., St. Louis

Post-Dispatch concert orchestra, Max Steindel, conductor; 8:15, Atwater Kent program, WEAF.

KTHS, Hot Springs National Park, Ark. (374.8), 1112:15 p. m., services, First Presbyterian church; 9-10, classic hour, New Arlington Grand ensemble; 1611:30, Arkansas Tfaveler limited frolic, Benny Ford and his musical train crew; 11:30-12:30, Lawson Reid, organist.

KWKH, Shreveport, La. (261), 9:30 a. m., Four Square Bible class; 5-6, program, George T. Bishop Inc.

NWAN, Sneveport, La. (261), 9:30 a. m., Four Square Bible class; 5-6, program, George T. Bishop Inc.

KYW, Chicago, III. (535.4), 11 a. m., Central church services, Rev. Frederick F. Shannon, pastor; 2:30 p. m., studio chapel services; 4:30, studio concert. Edwin Harper, director; 7, Chicago Sunday Evening club services, Clifford Barnes, president; music, Edgar Nelson, director; Charles W. Gordan, speaker 9:30, classical concert. Commonwealth Edison company. WAMD, Minneapolis, Minn. (243.8), 9:30 p. m., Gayle Wood; Harmony hurricane; request program.

WBBM, Chicago, III. (226), 12:30-2 p. m., William Zimmer, tenor; Kantor A. Kritz; Sandy Meck and Harry Sosnik; Edna Wheeler Ballard, harpist; Moulin Rouge operatic quartet; 4-6, Joe Allabaugh; Lavergne and Shayne, xylophonists; Pete Kules; Tip trio; Ziegler; Harold Anderson; 8-10, Sunset male quartet; WBBM string trio; Moulin Rouge orchestra; 12-2, Nutty club.

WBCN, Chicago, III. (266), 10:30 a. m.-12 noon, morn-

Nutty club.

Nutty club.

WBCN, Chicago, III. (266), 10:30 a. m.-12 noon, morning service, People's Liberal church; talk, Rev. Rufus A. White; 4-5 p. m., Dain & Son classical hour, Velma Cook, soprano; Oriental quartet; male harmony group; Robert Stronach, pipe organist; 7:45-9:15, evening services, Thoburn M. E. church, 40-piece Thoburn semi-symphony orchestra; 80-voice choir, special vocal soloist; speaker.

WCBD, Zion, III. (344.6), S. p. m., Mrs. Esther Cook-Rendall, soprano; marilmba duets, Beem, Newconier; William C. Dunn, euphonium soloist; Paul Stewart, cornetist; Mr. and Mrs. J. D. Thomas, vocal duets, Marion Lee, reader; Mrs. Marion Moulton-Priddy, pianist.

WCCO, Minneanolis, St. Paul Minn. (416.4), 10-70.

planist.

WCCO, Minneapolis-St. Paul, Minn. (416.4), 10:50 a. m.,
Westminster Presbyterian church; 4:10 p. m., House of
Hope Presbyterian church; 6:20, Second Church of
Christ Scientist; 8:15, Atwater Kent program, Paul,
Althouse, tenor; Arthur Middleton, baritone.

WDAF, Kansas City, Mo. (365.6), 4-4:15 p. m.,
WDAF's Sabbath vespers, First Presbyterian church,
Rev. James Congdon, pastor.

WDOD, Chattanooga, Tenn. (256), 7:30-9 p. 11., services,
WEBH, Chicago, III. (370.2), 10:40-12 m., church service, Seventh Church of Christ Scientist; 5-6, twilight
musicale, selected artists.

musicale, selected artists.

WEBW, Beloit, Wis. (268), 4:30 p. m., Regular College

vesper service.

WENR, Chicago, III. (266), 2-4 p. m., classical program; Rauland lyric trio; religious program; Eric Sagerquist, violinist; 9:30-11:30, All-American Pioneers; Hal Laige, saxophonist; Marie Tulley, soprano; Frank Westphal.

neers; Hal Laige, saxophonist; Marie Tulley, soprano; Frank Westphal.

WGES, Oak Park, III. (250). 7:40 p. m., the Woodlawn Park Presbyterian church choir; the Baldwin mixed quartet; Lydia Werner, soprano; Veronica Krebs, contraite; Peter Matthews, basso; John Stamford, tenor; Moody Bible institute program; Doe Erendson's orchestra.

WGN, Chicage, III. (302.8), 12 m., comics, Uncle Walt; 12:45 p. m., Chicago theater program; 2-3, Lyon and Healy organ recital; 8:15-9:15, Atwater Kent program, WEAF.

WHAD, Milwaukee, Wis. (275), 3:15 p. m., Turnverein symphony orchestra.

WHAS, Louisville, Ky. (399.8), 9:57 a. m., organ prelude; 10, church service, Broadway Baptist church;

lude; 10, church service, Broadway Baptist church; music by choir, H. U. Goodwin, organist; Mrs. O. W. Edinger, soprano; Angeline McCrocklin, contralto; Charles H. Barnes, Jr., tenor; William Cornwall, bari-

Charles H. Barnes, Jr., tenor; William Cornwall, bartone; 4:30-5:30, evensong choral service, Christ church, Rev. Richard L. McCready, dean, assisted by Rev. Frank W. Hardy, senior canon; Ernest Arthur Simon, organist and choirmaster; boys' choir.

WHB, Kansas City, Mo. (365.6), 9:40-10:45 a. m., Linwood Boulevard Christian church; 11:15-12 n., Independent Boulevard Christian church, Dr. R. H. Miller, pastor: 8-9:15 n. m. Westnert Methodist Eniscopel.

pendent Boulevard Christian church, Dr. R. H. Miller, pastor; 8-9:15 p. m., Westport Methodist Episcopal church; 11-11:15, Morrell Moore, organist.

WHO, Des Moines, Ia. (526), 11 a. m., church service; 7:30-8:30 p. m., Reese-Hughes orchestra.

WHT, Chicago, III. (399.8), 12 m., Sunday dinner sacred concert, vocal and organ; 12:45 (238), sunshine hour, program for shut-ins and the sick; 1:15, shepherd time for the kiddies; 1:30, Aerial girls program; 1:45, Radio rangers; 2, fellowship program; 2:30, missionary program; 2:45, orchestra concert and afternoon services, Chicago Gospel tabernacle; 5:30, Vesper concert; 6, Young Women's council; 6:30, concert, Tabernacle band and choir; sermon, Paul Rader; 9:30, reguest program; 10:30, Paul Rader and National Radio chapel staff.

UNCLE JIMMY THOMPSON AT WSM

Sunday, January 10

WIBO, Chicago, III. (226), 2-4 p. m., Chester Newman, baritone; Mildred Perlin, reader; WIBO string trio; 6-8, sacred songs, Walter Preston; Fred Nobel, cornetist; Earl Bigelow, planist; WIBO trio; 10-12, Hamilton club; Eugene Kammerer, bass; Walter Preston, tonor.

ition club; Eugene Kammerer, bass; Walter Preston, tenor.

WLS, Chicago, III. (344.6), 6 p. m., prelude; 6:30-755, WLS Little Brown church in the Vale; Ralph Emerson, organist; choir.

WLW, Cincinnati, Ohio (422.3), 9:30 a. m., school, editorial staff of Sunday school publications, Methodist book concern; II p. m., morning worship, Seventh Presbyterian church, Jesse Halsey, minister; 3, organ recital, J. Alfred Schehl; 7:30, services, Emmaus Evangelical Lutheran church, Rev. P. L. Dannenfeldt, pastor; 8:30, the H. & S. Pogthe company concert, Walter Esberger, director.

WMBB, Chicago, III. (250), 3-5 p. m., Trianon orchestra, Dell Lampe, Woodlawn theater orchestra, Armin F. Hand, Earle Smith, Tommy Hughes, Scotty Welsh and Madison Sisters, concert program; 7:40-9, services, Fifth Church of Christ Scientist; 9-11, Trianon orchestra, Dell Lampe, Woodlawn theater orchestra, Armin F. Hand, Billie Allen Hoff, Gertrude Wells, Walter Duffy, Si Berg, popular program.

WOAI, San Antonio, Texas (394.5), II a. m., services, First Presbyterian church, Rev. P. D. Hill, pastor; 7:45, services, Central Christian church, Rev. Hugh McLellan, pastor.

7:45, services, Central Christian church, Rèv. Hugh McLellan, pastor.

WOAW, Omaha, Nebr. (526), 9 a. m., chapel service, Rev. R. R. Brown; 1:30 p. m., matinee program; 6, Mrs. Carl R. Gray; 9, chapel service.

WOC, Davenport, lowa (483.6), 1-2 p. m., Palmer Little symphony; Paul J. Vipperman, tenor; 6:30-7, First Baptist church; 8:15-9:15, Atwater Kent, WEAF; 9:45-11:45, Palmer Little symphony.

WOK, Chicago, III. (217.3), 1-2 p. m., Bernie Cummins Town club orchestra; Husk O'Hare's Cocoanut Grove orchestra; Harriet Lee, contralto; Herman Sinaiko, violinist; George Allen, tenor; Bob Mokreis, planist; 6-1:30 a. m., Husk O'Hare's Cocoanut Grove orchestra; Bernie Cummins Town club orchestra; Capitol theater complete musical program; WOK mixed quartet; Herman Sinaiko, violinist; Harriet Lee, contralto; George Allen, tenor; Bob Mokrejs, pianist; Bill Hay, bass.

WOQ, Kansas City, Mo. (278), 11 a. m.-12 n., services; 7-7:45, services.

WOQ, Kansas City, Mo. (278), 11 a. m.-12 n., services; 7-7:45, services.

WOS, Jefferson City, Mo. (440.9), 9:30 p. m., religious services, remote control Christian church, Rev. Haushalter, pastor; 7:30, religious services, First Presbyterian church, Rev. A. B. Jackson, pastor.

WQJ, Chicago, III. (447.5), 3-4 p. m., Saida A. Ballantine artists; 8-10, Ralph Williams and his Rainbo Gardens orchestra; Fontella trio; Frederick Mueller, German tenor; Kathryn Diepenbrock, planist; Jeanette Van Lennep, soprano; Mary Van Lennep, accompanist; Jean Carlson, soprano.

WRR, Dallas, Texas (246), 12:45 p. m., church service; 7:30, service; 9-10, band concert.

WSAI, Cincinnati, Ohio (326), 2:45-4:30 p. m., address, Dr. S. Parkes Cadman, pastor, Central Congregational

WSAI, Cincinnati, Ohio (326), 2:45-4:39 p. m., address, Dr. S. Parkes Cadman, pastor, Central Congregational church, New York; music, Gloria Trumpeters, George Betts, chimer; 7:45, WSAI Radio chime concert, Robert Badgley; 8, sermonet, Press-Radio Bible Service, Inc.; 8:15-9:15, program, Atwater Kent Radio hour, WEAF; 9:15, Union Central Life Insurance company orchestra, Sigmund Culp, director.

WSM, Nashville, Tenn. (282.8), 10:30 a. m., First Preshvterian church.

byterian church.

WSUI, lowa City, la. (483.6), 4 p. m., vesper service,
University orchestra; choir; address, Judge Rosenberry; 9:15, familiar hymns, Lottie Volkner.

Mountain Time Stations

KFXF, Colorado Springs, Colo. (250), 7:30-9 p. m.,

First Methodist church services.

KOA, Denver, Colo. (322.4), 11 a. m., First Congregational church, Rev. Robert Hopkins; 3 p. m., First Congregational church, R. H. Mintener, organist;

7:30, services, First Congregational church.

Pacific Time Stations

Pacific Time Stations

KFI, Los Angeles, Calif. (467), 4-5 p. m., vesper service arranged by Frederick Hermann; 6:30, nightly doings; 7-8, Aeolian residence pipe organ, Dan Merarland, organist; 8-9, Louise Klos trio; Yasabel Bowen, soprano; 9-10, Examiner hour; 10-11, Packard Six dance orchestra.

KFON, Leng Beach, Calif. (232.4), 2:30-4 p. m., Long Beach municipal band; 4-4:30, amusement bulletin; 6-6:30, organ recital, Brayton's theater; 8-9, service, First Church of Christ, Scientist.

KFWB, Hollywood, Calif. (252), 7-9 p. m., late news and Warner Brothers' syncopators, Emma Kimmel, soprano; Albert Keglovich, violinist.

KGO, Oakland, Calif. (361.2), 11 a. m., sevice, First Presbyterian church; 3:30 p. m., KGO Little Symphony; Arthur S. Garbett, interpretative writer; Ruth Waterman, contralto; 7:30, First Presbyterian church, KGW, Portland, Ore. (491.5), 10:25-12 m., First Presbyterian church; 7:30-9, East Side Baptist church; 9-10, Chevrolet Little Symphony orchestra.

KHJ, Los Angeles, Calif. (405.2), 6:30-7 p. m., Leighton's Arcade cafeteria orchestra, Jack Cronshaw, leader; 7-7:30, First Methodist Episcopal church; 8-10, program, Martin Music company: Ruth Pitts, soprano; John Martin, pianist.

KTAB, Oakland, Calif. (240), 9:45-10:45 a. m., Bible lecture, Prof. E. G. Linsley; 11-12:30 p. m., service; 7:45-9:30, service; 9:30-11, concert.

Monday, January 11

Headliners Today

Eastern Central Mountain P
7:45 p. m. 6:45 p. m. 5:45 p. m. 4:4
WMCA (340.7) Knickerbocker family circle.
8 7 6 5 Pacific 4:45 p. m. 8 7 6 KFNF (266) Men's Harmonica contest. 8:30 7:30 6:30 KDKA (309.1) Ruud Light Opera hour. KFAB (340.7) Wendell Hall. 8:40 7:40 6:40 WBZ (333.1) Edward D'Anato, pianist. 9 8 7 9 8 7 7 8 6 6 KTHS (374.8) Twentieth Century Style classics. WDAF (365.6) Ivanhoe Band and Glee club. WGR (319) Mercer club program. 10:30 9:30 8:30 7:30 KOA (322.4) Special studio program.

Monday, silent night for: CHIC, CNRA, CNRC, CNRE, CNRM, CNRO, CNRR, CNRT, CNRV, CNRW, KFDM, KFEQ, KFMQ, KFMX, KFWA, KHJ, KLDS, KYW, PWX, WBBM, WCAD, WCBD, WEAO, WEBH, WEBJ, WEBW, WENR, WGBS, WGES, WGN, WHAS, WHT, WIP, WJAZ, WJJD, WLIB, WLS, WMAQ, WMBB, WOAI, WOC, WOK, WORD, WQJ, WRC,

Eastern Time Stations

CKNC, Toronto, Can. (356.9), 8-10 p. m., Chamber music hour; Toronto Conservatory instrumental trio, Frank Blanchard, violinist; Leo Smith, cellist; Alberto Guerrero, planist; Arthur Blight, baritone.

KDKA. Pittsburgh, Pa. (309.1), 7:15, 8 a. m., morning

services, O. Shannon; 5:45 p. m., children's period; 6:30, dinner concert; 8:15, U. of Pittsburgh address; book night, Roger L. Sergel; 8:30, Ruud light opera

wash higher, Rosel B. Science, Sao, Fatat light optical hour.

WBAL, Baltimore, Md. (246), 6:15-6:45 p. m., children's program, Hazel Knox in "Around the World with Other Little Boys and Girls"; 6:45-7:45, dinner program, WBAL orchestra, Robert P. Iula, conductor; 8-9, Edgar C. Dobson, baritone; Emory Ahlstrand, pianist; Ann Baugher Marks, contralto; 9-9:10, R. Howard Bland, president, United States Fidelity company; 9:10-10, Loretta Lee, soprano; Vivien Cordero-Friz, violinist; Clarence Hihn, tenor

WBBR, New York, N. Y. (272.6), 8 p. m., jubilee entertainers; 8:10, vocal selections; 8:20, health lecture, "The Curative Qualities of Radio," Dr. M. J. Work; 8:40, "The Harp of God"; 8:50, jubilee entertainers

WBZ, Springfield, Mass. (333.1), 6:30 p. m., KDKA broadcast; 7:30, Hotel Lenox ensemble; 8, Capitol theater orchestra; 8:30, Max Zides, ukulele soloist; 8:40, Edward D'Anato, planist; 9, Aleppo Drum Corps, Shriners' band; 9:30, Shrine children's hospital benefit, Cook's Butterfly ballroom.

WCAP, Washington, D. C. (468.5), 6:45-7:45 a. m., tower health exercises, WEAF; 7-11, program, WEAF, the A. and P. gypsies, grand opera, Cesare Sodero, director.

director.

WGAU, Philadelphia, Pa. (278), 8 p. m., Radio talk, Wilson N. Durham; 8:15, Carolyn Thomas, soprano, Ella Jaquette Gratz, pianist; 8:45, Barry O'Moore, tenor; 4:37, American Radio trio; 9:10, Nokol concert; 9:30 Will Morrisey and Midgie Miller; 10, Leslie Cy Linn, Chinese baritone; 10:30, Parodians dance orchestra.

WCX, Detroit, Mich. (516.9), 6 p. m., dinner concert,

WCX, Detroit, Mich. (516.9), 6 p. m., dinner concert, Book-Cadillac hotel; 8, studio program.

WEAF, New York, N. Y. (491.5), 6:45-7:20 a. m., Tower health exercises, also through WEEI, WCAP, 10:45-11:05, "Betty Crocker Gold Medal Flour Home Service Talk"; 11:05-11:15, music; 11:15-11:30, "Women in the News," Florence Smith Vincent; 6-7, dinner music, Hotel Waldorf-Astoria; 7-7:20, lecture, Columbia university; 7:30-8, "Lullaby Lady;" 8-8:30, "Pop" concert; 8:45-9, Tower health talk; 9-10, music, A. and P. Gypsies, WEEI, WCAP, WWJ, WJAR, WOO; 10-11, "Aida," grand opera, WEAF Grand Opera company, direction of Cesare Sodera, WOO, WCAE, WJAR, WCAP, WTAG; 11-12, Ben Bernie and his orchestra direct from Hotel Roosevelt.

WEAR, Cleveland, Ohio (389.4), 11 a. m., Betty



The modern jazz orchestra has nothing on Uncle Jimmy Thompson who can play 375 barn dances—and he dances each one of them as he plays. Uncle Jimmy is only 82 years old and his latest venture is to play for WSM, Nashville. He is shown, above, with his niece who will accompany him to WSM Saturday night. Evan Davies, left, is the funny man at WAHG, Richmond Hill, L. I. He may be called the long distance humorist of this station since his jokes were heard in Australia and Scotland the last time he entertained at WAHG.

Crocker home service; 11:30, farm talk; 7 p. m., Allen theater orchestra, Maurice Spitalny, director. WEI, Boston, Mass. (348.6), 7:45 a. m., morning watch from Estey organ studio; 2 p. m., Happy Hawkins and his orchestra; 6:45, Big Brother club; 7:30, the Waban trio; 8, E. B. Rideout, meteorologist; 8:15, musicale; 8:45, tower health talk, WEAF; 9, A. and P. Gypsies, WEAF; 10, musicale, WEAF; 10, musicale, WEAF; WFI, Philadelphia, Pa. (394.5), 10 a. m., menu talk; 10:30, solos; 1 p. m., tea room orchestra; 3, talk, "Efficiency in Dairy Cows," Dr. G. A. Dick; 6:30, Bellevue Stratford hotel concert orchestra; 7, Bellevue Stratford hotel dance orchestra. WGCP, New York, N. Y. (252), 12:30 p. m., race

Bellevue Stratford hotel concert orchestra; 7, Bellevue Stratford hotel dance orchestra.

WGCP, New York, N. Y. (252), 12:30 p. m., race results; 3, Eva Rothenberg, pianologist; 3:15, Leroy Montesanto, tenor; 3:30, Pendleton and Moore, songs; 4:05, Jack Davis; 4:15, Shirley Herman, songs; 4:30-5, Uncle Robert and his little pals; 5, Judith Roth, soprano; 8:30, Perry Badford, entertainers; 8:45, inspirational talk to boys; 8:55-9, songs, Phillip Wolf, Tracy Mola; 9:10, Loomis orchestra; 9:45, Bob Ward and three little Wards; 10, Strickland's orchestra; 10:30, Connie's orchestra.

WGR, Buffalo, N. Y. (319), 2:30 p. m., WGR's afternoon program; 6:30, Mountain View orchestra; 7:45, address by S. Grove McClellan of the Liberty Bank of Buffalo; 8:45, Edna Rhoda, popular soloist, wifth ukulele accompaniment; 9, Mercer club program; 10, jointly with WEAF; Ford Motor company program; 11, Vincent Lopez Hotel Statler dance orchestra, Harold Gieser, director.

director.

WHAR, Atlantic City, N. J. (275), 2 p. m., Seaside hotel trio; 7:30, talk; 8, Seaside hotel trio; 11:30, dance orchestra.

hotel trio; 7:30, talk; 8, Seaside hotel trio; 11:30, danee orchestra.

WHAZ, Troy, N. Y. (379.5), 9 p. m., Dick Shannon and William Stoddard, religious and secular songs; 9:30, "Some Parts of the Work of the U. S. Geological Survey", Prof. E. R. Cary; 10, thrift talk, J. Frank Beebe; 10:10, District blind orchestra, Thompson Courtney.

WHN, New York, N. Y. (361.2), 6-6:30 p. m., Littmann's dinner music; 6:30-6:45, Daddy Dingle and his Jingle machine; 6:45-7, Littmann's dinner music; 7-7:30, Marlboro State trio; 7:30-8, Joe Ward's Swanee entertainers; 8-8:05, talk, "Storage Batteries," H. B. Shontz; 8:05-8:30, Sans Gene orchestra; 9:10-10, standing by for DX; 10-10:30, Shanley's orchestra; 10:30-11, Jack Dinny's Frivolity orchestra; 11-11:30, Cotton club orchestra; 11:30-12, Silver Slipper orchestra; 12-12:30 a. m., Ted Lewis and his orchestra.

WIP, Philadelphia, Pa. (508.2), 6:45 a. m., setting-up exercises; 7, setting-up exercises; 1 p. m., Gimbel tea room orchestra; 3, recital; 4, market hints to housewives; 6:05, Benjamin Franklin concert orchestra; 7, Uncle Wip's bedtime stories; dancing lessons, Miller Conservatory of Dancing.

WJR, Pontiac, Mich. (516.9), 7 p. m., Jean Goldkette's Petite symphony orchestra; 7:45, Goodwill Oakland, harmonic balancer; 9, Paige Six, Jewett Six; 11:30, Jewett Jesters.

Jewett Jesters. WLIT, Philadelphia, Pa. (394.5), 12:02 p. m., daily almanac; Stanley theater organ recital; Arcadia cafe concert orchestra; 2. Arcadia cafe concert orchestra; 7:30, Dream Daddy's bedtime stories; 8, "Short Agro

Waves," Charles P. Shoffner; 10, Arcadia cafe dance orchestra; 10:30, vaudeville features, Fay's Knicker-bocker theater; 10:45, Benjamin Franklin hotel dance

orchestra.

WLWL, New York, N. Y. (288), 9:30-9:55 p. m., question box; 9:55-10:10, Marion Downes, contraito; 10:10-10:30, Study club; 10:30-11, entertainers.

WMCA, New York, N. Y. (340.7), 6-6:30 p. m., Olcott Vail and his Hotel McAlpin string ensemble; 6:30-7:30, Ernie Golden and his Hotel McAlpin orchestra; 7:45-8:45, Knickerbocker Family circle; 9-10, Christian Science program; 10:30-11:30, Barclay Radio program; 11:30-12, Jack Denny's orchestra.

MYYC, New York, N. Y. (526), 6:30 p. m., German lessons; 7:35, dance program; 8:30, concert program; 10:10. lecture.

10:10, lecture.

WOO, Philadelphia, Pa. (508.2), 11 a. m., organ recital; 12, Golden's Crystal tea room orchestra; 4:45, organ recital; 7:30, Hotel Ritz Carlton orchestra: 8, "Pop" concert; 9, A. and P. Gypsies; 10, grand opera, "Aida;" 11, Ritz-Carlton dance orchestra.

WOR, Newark, N. J. (405.2), 3:45, Charm magazine presentation of talk on fashions; 6:15, words often mispronuonced; 6:30, sports, Bill Wathey; 6:45, Jacques Jacobs Hotel Shelton ensemble; 7:30, Katinka orchestra; 8, current events; 8:30, Al Reid's hour, Branford theater; 10, Newark evening news; 11-12, New Hofbrau Haus orchestra.

New Hoforau Haus orchestra.

WPG, Atlantic City, N. J. (299.8), 4:30 p. m., Chalfonte-Haddon hall afternoon tea music; 6:45, organ recital, Arthur Scott Brook; 7, Hotel Morton trio dinner music; 8, children's hour; 8:30, program; 8:55, safety talk, W. Norvelle Sharpe, Jr.; 9, Hotel Ambassador concert orchestra; 10, vocal recital, Dorothy Turner, contralto; 10:15, concert, Galen hall trio; Phyllis Herbine, violinist; Adine Barozzi, cellist; Vera Chadsey, planist; 11:10, Silver Slipper supper club; Eddie McKnight's dance orchestra.

WRC, Washington, D. C. (468.5), 10 a. m., women's hour, WJZ; 12 n., organ recital, Homer L. Kitt; 1 p. m., Shoreham hotel orchestra; 4:30, musicale. WREO. Lansing, Mich. (285.5), 6-7 p. m., Speed-Wagon

serenaders; Gold Standard ensemble.

WRVA, Richmond, Va. (256), 8:05 p. m., negro school children singing southern melodies; 8:20, darky dialect stories, Mrs. Calvin Satterfield, Sr.; 8:30, negro school children in negro spirituals; 8:45, darky dialect stories, Mrs. Calvin Satterfield, Sr.; 8:55, chorus of negro school children; 9, travelog, Dr. Douglas Freeman; 9:10, John Marshall high school band, snappy program of band, solo, violin, piano and pep; 10:10, Robert Beadles, pianist, assisted by Mrs. J. W. Keith, soprano, Mrs. J. R. Beadles, mezzo-soprano, Mrs. John Boulware, contralto, Jack Adams, basso; S. J. Nystrom, violinist, in program of solos, duets, trios, Nystrom, violinist, in program of solos, duets, trios, violin and piano; 1:15, "Carry Me Back to Old Virgina".

wTAG, Worcester, Mass. (268), 10:30 a. m., musical selections; 10:45, talk, Sherer staff nurse, Marjorie Woodman; 12:05-2 p. m., noonday luncheon music, WTAG orchestra, Will Hardy, director; 7, science talk, Fred D. Aldrich, Worcester academy; 7:15, "The

Twinkle Twinkle Story Teller"; 7:45, official boy scout announcements, Joseph Wadleigh; 8:30, "Selective Breeding," W. C. Monahan; 9-10, P. M. Robin Hood hour of music, Arthur Crosbie, director; 10-11, Henry Ford from WEAF.

WTAM, Cleveland, Ohio (389.4), 12:15-1:15 p. m., Austin Wylie's Golden Pheasant orchestra; 6-7, Guy Lombardo and his Royal Canadians; 8-11, Willard symphony; 11-12, Austin Wylie's Golden Pheasant orchestra; 6-7, Guy Lombardo and his Royal Canadians.

8-11, Willard symphony; 11-12, Austin Wylie's Golden Pheasant orchestra; 12-1, Guy Lombardo and his Royal Canadians.

Canadians.
WTIC, Hartford, Conn. (475.9), 6:30 p. m., mother goose entertainer, Bessle Lillian Taft; 6:50, dinner music, Emil Heimberger's Hotel Bond trio; 7:45, talk, "The University Biologist," Prof. Greenleaf.
WWJ, Detroit, Mich. (352.7), 7:30-8 m., setting-up exercises; 9:30, tonight's dinner and special talk; 12:05, Jules Klein's Hotel Statler orchestra; 3, Detroit News orchestra; 6, dinner concert; 8, News orchestra and soloists; A. and P. Gypsies, WEAF.

Central Time Stations

CKY, Winnipeg, Can. (384.4), 8 p. m., University lecture; 9, concert, Knights of Pythias; 11, weekly revue, Metropolitan theater.

KFAB, Lincoln, Neb. (340.7), 5:30-6:30 p. m., dinnor concert; 8:30-10:30, Belshaw's orchestra; Ed Ellingson, Original songbird; Gloemy Gus, pianist; Cow Bell boys, violin and guitarists; Robinson and Campbell; Wendell Hall, Red-Headed music maker. KFKX, Hastings, Nebr. (288.3), 1 p. m., hog day; 5:30.

dinner concert; 9, concert, Apapahoe, Nebr.,

brass band.

KFMQ, Fayetteville, Ark. (299.8), 7:30 p. m., farmers' night program; farm filosofy, Cy Adams; "Research Problems at the Arkansas Experiment Station," Martin Nelson; "Spring Oats," J. W. Surgent; "Pruning," C. Woolsey; "Do You Live at Home?" T. Roy Reid; "The Milk Campaign as a Nutrition Project," Mrs. S. J. Trussell.

KFNF, Shenandoah, lowa (266), 7 p. m., men's harmonics contest.

monica contest.

KFVE, University City, Mo. (240), 9:15 p. m., amusement review, Romaine Fielding; Orchestra Romaine

KMA, Shenandoah, Iowa (252), 11:30-12:30 a. m., noonday rural program; talk, G. H. Van Houten; popular musical numbers; seed talk, Earl E. May; 6-7, Pollyana stories, Mrs. Nickojs; music; 9-11, Farnham trio; How-do-you-do Boys, Grady and Doc.

KPRC, Houston, Tex. (296.9), 12 n., Frank Tilton, blind wonder boy pianist; 5:30 p. m., Uncle Judd's kiddles' hour; 7:30, Records' Ramblers; 8:30, studio concert.

concert.

(SAC, Manhattan, Kan. (340.7), 9-9:25 a. m., music, inspirational talk, agricultural primer, calisthenics; 9:55-10:25, readings, backyard gossip, question box, planning today's meals; 12:35-10:05, readings, question box, timely talks, "Oat Diseases," D. R. Porter; 4:30-5, Third Year English literature, High School credit; 6:30-7:30, book review, events, Extension credit courses, sociology, Extension course, "Purchasing Power of Farm Products," W. E. Grimes; "Dis-

GRACE KERNS GUEST ARTIST MONDA'

Index to Popular Concerts

Saturday, January 9 Central Mountain 7:30 p. m. 6:30 p. m. 5:30 p. m. 4:30 p. m. WFAA. WBBM, WEAF, WENR, WGBS, WLS, WMAQ, WNYC. KFAB, KPRC, WBBM, WENR, WGN, WLS, WMBB, WREO. KFVE KFWB, KNX, KTHS, WBBM, WMBB, WOK, WQJ, WRC. KNX KOIL, KPO, KPRC, WBBM, WLS, WOAW, WOK, WQJ. t a. m. †2 m. | 1 10 KFWB, WDAF, WBBM, WEBH, WENR, WOK, WQJ, WSAI. 2 I a. m. 12 m. KNX, WBBM, WENR, WQJ. Sunday, January 10

Pacific Central Mountain 9 p. m. WBBM. WBBM, WMBB. умвв. 12 KNX, KTHS. KEWB, WBBM.

Monday, January 11 Central Mountain Eastern 7 p. m. 6 p. m. WBBM, WFAA, WOAW. 9 8 7 6 WCAU, WEAF, WGR, WKRC, WOK.
10 8 7 KFAB, WGR, WKRC, WMCA, WOAW. WOK, WSOE.
11 10 9 8 KFAB, KFVE, WOK.
12 m. 11 KLX, KNX, KOIL, WHO, WOK.
14 m. 12 m. 11 10 KFWB, KLX, WAHG, WDAF, WHT, WKRC, WOK.
2 a. m. 1 a. m. 12 m. WGBS.

Tuesday, January 12 Central Mountain Eastern 7 p. m. 6 p. m. WMCA, WOAW. WBBM, WEAR. WBBM, WEAR, WBZ, WSB. WBBM, WMBB, WOAW.

11 p. m. 10 p. m. 9 p. m. 8 p. m. KFVE, KFWB, KNX, WBBM, WHT, WMBB, WOK, WQJ. 12 m. 11 10 9 WKRC, WMC, WOK, WQJ.
1 a. m. 12 m. 11 10 10 WFAA, WKRC, WWG, WOK, WQJ.
1 a. m. 12 m. 11 10 WKFWB, KNX, WFAA, WHT, WOAW, WOK, WQJ.

Wednesday, January 13 Eastern Central Mountain Pacific 8 p. m. 7 p. m. 6 p. m. 5 p. m. KFNF, WAHG, WEBJ, WEEI, WMCA. WBBM, WEBJ, WGCP, WNYC. 10 KFAB, KPRC, WBBM, WGCP, WHO, WMBB. KFAB, KFVE, KGW, KPO, KWSC, KYW, WBBM, WHN, WMBB, WOK, WQJ. 12 m. 11 (0, 9 KFWA, KFWB, KNX, KYW, WOK, WQJ, WSAL 1 a. m. 12 m. 11 WOK, WYW, WBBM, WHT, WOK, WQJ. 2 KEWB, KNX, WBBM, WOK, WQJ.

Thursday, January 14 Central Mountain 8 p. m. 7 p. m. 6 p. m. 5 p. m. WCAE, WEAF, WJAR, WMC, WOC, WSAI. KMA, WBBM, WEEI, WHAD, WHN, WMBB, WMC, WNYC, WOAW, WSOE. 11 10 9 8 8 KHJ, KMA, KYW, WBBM, WMBB, WOK. WQJ. 12 m. 11 t0 9
KHJ, KTAB, KOIL, WBBM, WDAF, WEAA, WKRC, WOC, WOK, WQJ.
1 a. m. 12 m. 11
KFWB, KHJ, WHT, WOK, WQJ.
2 1 a. m. 12.m. 11

Central Mountain Pacific Eastern 9 8 7 6
WBBM, WGR, WLS.
10 9 8 7
KFAB, WBBM, WMC, WDAF, WHAD, WMBB,
WOAW, WOLE. ĸńx, wqj.

dance orchestra; 8-9, Screen Artists' string quartet. Drury Lennington, tenor; 9-10, program, Walter M. Murphy Motors Co., Virginia Flohri, soprano, and others; 10-11, Examiner, Ray West's Alexandria hotel dance orchestra.

KFOA, Seattle, Wash. (453.3), 6:45-8:15 p. m., Sherman, Clay and company program; 8:30-10, Times studio program.

KFON, Long Beach, Calif. (232.4), 4:30-5 p. m., amusement bulletin; 6-6:30, organ recital, Brayton's theater; 8-9, Press-Telegram hour, presenting Community Service program; 9-10, Ardys Anderson musical bours

munity Service program; 9-10, Ardys Anderson musical hour.

KFWB, Hollywood, Calif. (252), 5-6 p. m., children's hour, Big Brother of KFWB; 7-8, microphone brevities; 8-9, program, Globe Ice Cream and Weber Baking companies; Joe Martin's orchestra; Ray Bafley's trio; Sol Hoopit's Hawaiians; 9-10, program, Star Motor Car Co., Million Dollar Four orchestra, Ashley Sisters, vocal duets and others; 10-11, Warner Brothers frolic, Charlie Wellman directing. KFXF, Colorado Springs, Colo. (250), 8:36 p. m., musical selections; 8:45-9, educational talk; 9-10:30, dance program, Warner Stone's Columbians.

KGO Oakland Calif. (3612), 10:40, 2, m., classroom

KGO, Oakland, Calif. (361.2), 10:40 a. m., classroom instruction; 3-4 p. m., interpretations of the classics, Wilda Wilson Church; 6-6:55, dinner concert, Sherman, Wilda Wilson Church; 6-6:55, dinner concert, Sherman, Clay and company; 8, farm program; "Chats About New Books," Joseph Henry Jackson; "Better English," Wilda Wilson Church; "How to Choose the Right School and Teacher for Your Child," Dr. Albertine Richards Nash; "The University Afield," Leon J. Richardson; Arion trio. (KGW, Portland, Ore. (491.5), 7:15 a. m., physical culture exercises; 12:30-1:30 p. m., Rose city trio; 6-7, dinner concert; 8-9, concert; 9-10, concert, Hudson and Essex Dealers of Oregon.

KMTR, Hollywood, Calif. (238), 5-6 p. m., home hour, Mammy Simmons, Walter Benson, Helen Levy, Billy Henderson, Betty McKay; 7:15, Y. M. C. A. program; 8-10, The Turner orchestra, direction Loren Powell; Tom Mitchell, baritone; 10-11, Starr Piano company studio.

pany studio. KNX, Hollywood, Calif. (336.9), 5-5:30 p. m., Sunny Jim's story; 5:30-6:15, Wurlitzer pipe organ studio; Town Tattler; 6:15, travel talk, W. F. Alder; 6:30-7,



Atwater Kent concert orchestra; 7-7:30, Mutual Motors Atwater Kent concert orchestra; 7-7:30, Mutual Motors mirth contest; 7:30-8, program, Columbia Outfitting company; 8-9, program, L. W. Stockwell company; 9-10, program, Listenwalter & Gough, Rola string quartet; Zenith entertainers; 10-11, Goodrich Silvertown Cord dance orchestra; Lilyan May Challenger, contralto; 11-12, Ray West's Cocoanut Grove dance orchestra, Ambassador hotel.

KOAC, Corvallis, Ore. (280.2), 7:20 p. m., musical selections; 7:30, agricultural question box; 7:40, "Basis for Economical Hog Production in Oregon," H. A. Lindgren; 8, "Planting and Care of the Potato Crop," G. R. Hyslop; 8:15-8:30, "A Definite Plan Will Solve the Garden Planting Problem," A. G. Boquet.

Boquet.

Boquet.

KTAB, Oakland, Calif. (240), 9-9:30 a. m., prayer service, Rev. E. L. Spaulding; 4-5, women's club notes; 8-10, Western States Life Ins. company.

KWSC, Pullman, Wash. (348.6), 7:30-9 p. m., Rosalia Koch, planist; Horace Trimball, guitarist; Ruth Wilkins, vocalist; "What Is An Engineer?" M. K. Snyder; "Psychology of Efficiency, Number 5, Training in Efficient Thinking," Dr. F. F. Nalder; "Development of New Lines of Washington Horticulture," M. D. Armstrong: readings. Mae Farr. M. D. Armstrong; readings, Mae Farr.

Tuesday, January 12

Headliners Today

Eastern Central Mountain 6:45 p. m. 5:45 p. m. 4:45 p. m. WBAL (246) John Wilbourn, tenor. Pacific 3:45 p. m. WTIC (475.9) Travelers male quartet, symphony en-8:30 7:30 6:30 5:30 WJZ (454.3), WGY (379.5), WRC (468.5) Edison hour, KHJ (405.2) Piggly Wiggly girls' trio. KTHS (374.8) Hendrix College Glee club.
WEAF (491.5), WCCO (416.4), WGR (319), WOO (508.3) Old fashioned dance program.
10:20 920 820 729 Mountain Time Stations

KOA, Denver, Celo. (322.4), 12:15 p. m., Rigito theater musicale; 6:30, dinner concert. Brown Palace string orchestra; 7:80, sandman's hour; 8, conversational Spanish, Prof. Amanda Lopez Knecht; KOA orchestra; 9, bridge game; 9:30, Ina Bains, soprano; Franklin Hornaday, tenor.

Pacific Time Stations

KF1, Los Angeles, Calif. (467), 5:30-6 p. m., Examiner matinee; 6, Nightly doings; 6:15, KFI's Seeing California; 6:30, Vest pocket program; 6:45, Radiotorial period; 7-8, Owen Fallon's Californians

KKX, KFMQ, KFUO, KFWA, KOA, KOAC, KOB.

KKYS, CS16, WCCO (416.4), WGR (319), WOO (416.4), WGR (319), WOO



"Wet towels, please!" Above, from left to right, a of the Crescent orchestra; Edgar H. Twamley, studit to work up keen little stories and musical numbers i gram. If you do not believe "Three Heads are Better for "A Chronology of American Music," and "His Ma stumped by listeners' requests for poetry. Charles I him out by requesting your favorite. Cornelia

KUOM, KWSC, PWX, WAHG, WAMD WBBR, WCAD, WCAP, WGCP, WGST, WHAD WHAZ, WJAD, WIAZ, WKAF, WOI, WOS, WRVA, WSM, WSUI, WTAM.

Eastern Time Stations

Eastern Time Stations

KDKA, Pittsburgh, Pa. (309,1), 7:15-8 a. m., morning exercises, O. Shannon; 5:45 p. m., children's period, Daddy Winkum; 6:30, dinner concert; 8:15, "The Importance of Purpose and Plan," Wayland M. Parrish; 8:30, concert, KDKA Little symphony orchestra, Victor Saudek, director; Chauncey Parsons, tenor; 11:35, concert, Grand theater.

WBAL, Baltimore, Md. (246), 6:45-7:45 p. m., dinner program; WBAL string trio, Philip Jeffreys, planist, Arthur Morgan, violinist, and Frank Miller, cellist; soloist, John Wilbourn, tenor and WBAL ballad singer; 7:45-8:45, musical program, George Bolek, planist, James Wilkinson, baritone, and Robert Lee, violinist.

WBZ, Springfield, Mass. (333.1), 6:30 p. m., KDKA; 7:30, "Literature in Modern Books," Prof. Robert Emmons Rogers; 8, hockey game, Boston Bruins vs. Canadians.

Emmons Rogers; 8, hockey game, Boston Bruins vs. Canadians.

WCAP, Washington, D. C. (468.5), 6:45-7:45 a. m., Tower health exercises, WEAF,

WCAU, Phliadelphia, Pa. (278), 7:30 p. m., N. Snellenburg and company recital; 8, Building and Loan talk, Fernand Baruch; 8:10, The Three Brothers; 8:25, theater digest, Abe Lipshutz; 8:35, National players; 9, Arlene Smith, soprano, Sarah Snyder, planist; 9:30, Robert Frazer, blind Gospel singer, Elizabeth Holtz, pianist; 10, Harry Link, songs; 10:30, Cathay Tea Garden dance orchestra, Billy Hayes, director.

WCX, Detroit, Mich. (516.9), 6 p. m., dinner concert, Book-Cadillac hotel; 10, Red Apple club.

WEAF, New York, N. Y. (491.5), 11 a. m., Thomas

Book-Cadillac hotel; 10, Red Apple club.

WEAF, New York, N. Y. (491.5), 11 a. m., Thomas Hughes, pianist; 11:10, lecture, "A Non-Technical Talk on How to Listen to Music," Katherine Bowen; 11:25, Thomas Hughes, pianist; 11:35, motion pieture forecast, Adele Woodard; 11:55, musical program; 4 p. m., Clarence Williams trio; 4:30, women's program; 6, dinner music, Hotel Waldorf-Astoria; 7, Jevva Blix, contralto; 7:10, Columbia University French course, Dr. Thatcher Clark; 7:30, Coal Miners trio; 7:45, Rudolph Joshowitz, violinist; 8, Blue Ribbon male quartet; 8:30, Gold Dust Twins; 9, Eveready hour; 10, Henry Ford's "Old Fashioned Dance Program"; 11-12, Ross Gorman and his orchestra, Monte Carlo.

WEAR, Cleveland, Ohio (389.4), 11 a. m., home service talk; 7 p. m., State theater vaudeville and music; 8, Ross Gorman's Earl Carroll Vanities orchestra, WEAF; 8:30, Gold Dust Twins, WEAF; 9, Eveready entertainers, WEAF; 10, auction bridge, WEAF; 10:30, Vincent Lopez orchestra, WEAF; 11, Wormack's singing syncopators.

Vincent Lopez orchestra, WEAF; 11, Wormack's singing syncopators.

WEE!, Boston, Mass. (348.6), 7:45 a. m. morning watch from Estey organ studio; 2, Eugene's singing orchestra; 6:45, big brother club; 7:40, Harvard observatory talk, "New Stars and Variables"; 8, Blue Ribbon fiale quartet, WEAF; 8:30, Gold Dust Twins, WEAF; 9, Eveready hour, WEAF; 10, your hour, WEAF; 10:30, Vincent Lopez and his orchestra.

WFI, Philadelphia, Pa. (394.5), 10 a. m., menu talk; 10:30, solos; 1 p. m., tea room orchestra; 3, Philadel-phia Music club concert; 6:30, Bellevue-Stratford concert orchestra; 7, Bellevue-Stratford dance orchestra; 8, Blue Ribbon male quartet; 8:30, Goldy and Dusty; 9, Eveready hour; 10:30, Vincent Lopez dance orchestra; WGCP, New York, N. Y. (252), 12:15 p. m., racc re-

DAN Centra Saturday,
8, Wir,
8:30, Wfas
9, Webh,
Wnyc, Wrec
Wip; 9:30,
Wor, Wrec
Kfwa, Koa,
Wgn, Wir,
Un; Wor
Wtam; 11
10:30, Wr
Wls; 11,
Kfwb, Kpo,
Wgbu, Who,
Kfoa; 11:41
Kfwa, Kgo,
Wgbu, Wiic
Monday,
8, Wgcp; 9,
Wjar, Wor;
10, Kths,
Wgr, Woyc,
Wor; 10:30,
Whn; 11,
Wgbu, Wgc
Who; 11:45
Knx, Kpo,
Tuesday,

Tuesday,
9, Webh, V
9:30, Weau,
Wip; 9:35,
Kfve, We
Webh, Wgbi
Wmea, Wm;
Kths; 10:30
10:45, Wsl,
Kfoa; 11:45
Kgw, Khi
Wddaf; 1,
Wednesdan Wednesday

Wednesday Wgbu, Wgc, Wmbb, W 9:15, Wahg Who, Wor Wbap, Weaf

Wqj; 10
10:30, Wbs
Koil, Kpo,
Wgop, Wgr,
Wdaf; 12,
Kpo, Wjid,
Thursday,
S, Wjr; 9,
Wgbu, Whn,
10, Kths,
Wgbu, Whn,
Wdi; 10:30
Webh, Wgb
11:45, Wd
Khi, Knx,
Friday,
Wwi; 9,
Weel,
Wmbb; 9:16
Wcau, Whi
Epo, Kths,
Whn, Wgr,
Wcc; 10:30
11, Kfwb,
Wgr,
Webh, W

Monday, January 11

ases Common to Sorghums and Their Control," L. E.

cases Common to Sorghums and Their Control, L. E. Melchers.

Melchers.

Melchers.

Mos. Mabel Newell, soprano; 7:30, recital, Mrs. Bertie Reynolds, Mrs. Lola Herr, Mrs. Marion Winters and Mrs. George R. Davis of Mt. Sterling, Ill.; 9, WEAF chain "Good Will" program.

KSO. Clarinda, lowa (241.8), 12:30-1:15 p. m., farm talk; 7-7:30, music; 7:30-9, music.

KTHS, Hot Springs National Park, Ark. (374.8), 12:30-1 p. m., homefolks hour; 9-9:45, classics in 20th century style, New Arlington orchestra; 9:45-10, Lawson Reid, organist; 10-12, Rainbow Garden frolic, California serenaders from 555.

KWKH, Shreveport, La. (261), 8-9 p. m., musicale, Novella Mayo.

Novella Mayo. KYW, Chicago, III. (536), 6:30-7 a. m., morning exer-

cises, Paul A. Leonhardt; 7:30, morning family worship, Y. M. C. A.; 11:15, talk, John C. Cutting; 11:35, table talk, Mrs. Anna J. Peterson, Peoples Gas company; 12:05 p m., concert; 1, luncheon concert, Congress hotel; 6, dinner musical, KDKA; 7:05, bedtime story, Walter Wilson.

bedtime story, Walter Wilson.

WAMD, Minneapolis, Minn. (243.8), 12 p. m., musical program; Coilla Dare, contralto, Chuck Johnson, uke, Grace Norman, soprano, Bee Lowell, pianist and accompanist; 6:15, dinner concert, George Osborn's Hotel Radisson orchestra; 7:05, talk; 7:10, Edwin Lindstrom, baritone, Rose Schaettgen, violin, Mrs. L. V. Koos, accompanist, Edna Weese, soprano, Etta Landry, accompanist, Mrs. Margaret Leemhuis, pianist; 11, George Osborn's Hotel Radisson Skyrockets.

WBBM, Chicago, III. (226), A-6 p. m., Valentino Innorchestra, artists; 6-7, Harold Anderson, piano-accordionist; WBBM string trio, artists.

WCCO, Minneapolis-St. Paul, Minn. (416.4), 12 n.,
Donaldson's orchestra; 2 p. m., women's hour; 2:30,
afternoon concert; 4, readers' club, Mrs. Walter Stevens; 5:30, children's hour; 6:30, Goldon, Cooke ensemble; 7:45, "Sanitation in the Hog Lot"; 8,
University of Minnesota program, 9, classical program University of Minnesota program; 9, classical program.

University of Minnesota program; 9, classical program; WDAF, Kansas City, Mo. (365.6), 6-7 p. m., the Tell-Me-a-Story lady; dialect readings, C. M. Ragan; music, the Trianon ensemble; 8-9:30, program, Ivanhoe Band and Glee club; O. A. McDonald, vocal soluist; 11:45-1 a. m., Carl Nordberg's Plantation players, Hotel Muehlebach; selections, Ted Meyn on the Pantages theater oversh tages theater organ.

WDOD, Chattaneoga, Tenn, (256), 6:30-7 p. m., organ music, Tivoli theater; 7-8, Hotel Patten orchestra; 8:15, special features and program.

WGN, Chicago, III. (302.8), 7-7:30 a. m., setting-up exercises; 11-11.30, household hints; 11:30-12, fashion discussion; 12:40-2:30 p. m., luncheon concert, Drake hotel; 2:30-3, Lyon and Healy artists; 3:30-4:15, tea time music, Marshall Field tea room orchestra; organ recital; 5:30-5:57, Skeezix; 6:30-7, dinner concert, Drake hotel.

WGST. Atlanta. Ga. (270), 9-10 p. m., program, Bill

WGST, Atlanta, Ga. (270), 9-10 p. m., program, Bill Walton, pianist.

WHAD, Miwaukee, Wis. (275), 11 a. m., pianolog,
Andy Hertel; 4 p. m., Trixy Ann Troy, ukulele; 6:157, Bill Benning's Milwaukee Athletic club orchestra;
8-10, Marquette university studio program.

8-10, Marquette university studio program.

WHAS, Louisville, Ky. (399.8), 1-2 p. m., concert, Royal Peacock orchestra; 3-3.30, organ recital, Mrs. Mytls Fulks Zahn, Jr.: 4-5, musical selections. Harry S. Currie, director; fashion talk, Peggy True of the Courier-Journal; readings, choice editorials.

WHB, Kansas City, Mo. (365.6), 2-3 p. m., Sweeney Radio trio; 7-8, Milo Finley trio; Don Anchors, poet; Sweeney Radio orchestra.

WHO, Des Moines, Ia. (526), 7:30-9 p. m., Vernon Sheffield, pianist; Mary O'Grady, soprano; Frank Ferguson, Verne Deskin, violinists; Elsa Cornell, ac-

companist; Hazel Jay, contralto; 11-12, Bankers' Life

companist; Hazel Jay, contralto; 11-12, Bankers' Life Corn Sugar orchestra.

WHT, Chicago, III. (399.8), 10 a. m., Jean Sargent's program, woman's club; Borden health talk, Jelke Good Luck Girl; Helen Raub, pianist; John Clark, baritone; 10:45, Betty Crocker home service; 11, special studio features; 12 p. m., Al Carney's organ hour; 1, special studio program, Grayling's string trio; 6, classical program, Linner organ recital; Helen Raub, pianist; Grayling's string trio; Pat Barnes; Helen Axtel, soprano; John Clark, baritone; 7, Kitchen Klenzer Klassics.

prano; John Ciark, Daritone; 7, Kitchen Klenzer Klassics.

WIBO, Chicago, III. (226), 10-11 a. m., shoppers' bureau, Grace Viall Gray; 2-4, Ted Fiorito, pianist; Dan Russo, violinist; Victor Young, violinist.

WLS, Chicago, III. (344.6), 12-1 p. m., WLS trio; 6-7, Blue Ribbon artist's concert, "Hansel and Grete!,"

WLW, Cincinnati, Ohio (422.3), 7:30 a. m., exercises, William Stradtman, Y. M. C. A.; 8, morning devotions, auspices of Parkway Y M. C. A.; 12:05 p. m., religious service, Rev. George H. Kase; 4, Monday Musical club concert; 6:30, theatrical feature; 7, dinner hour concert, Hotel Gibson, Robert Visconti, director; 7:30, Y M. C. A. basket ball question box; 7:40, Hotel Gibson concert; 8, The Cincinnati Times-Star program, Robert Visconti, director; Cino male quartet.

WMAQ, Chicago, III. (447.5), 12:20 p. M. Junior Asse-

Quartet.

WMAQ, Chicago, III. (447.5), 12:20 p. m., Junior Association of Commerce; 1, Radio Farm school; 2, shut-in program; 4, mothers in council; 4:30, "Foioles of the Moment," Mrs. Graham Aldis; 4:40, Glenn Dillard Gunn School of Music; 5, children's game, Glenn Adams; 5:10, Topsy Turvy time; 6, Chicago theater organ recital; 6:30, Hotel LaSalle orchestra; 6:40, Hamily Altar league.

WMC, Memphis, Tenn. (499.7), 7:15 p. m., Peter Pan Tinker Bell; 7:30, farm talk; 8:30, program, Dr. George L. Powers.

George L. Powers. WOAI, San Antonio, Texas (394.5), 3 p. m., musical

WOAI, San Antonio, Texas (394.5), 3 p. m., musical program.

WOAW, Omaha, Neb. (526), 12:45 p. m., Randall's Royal Fontenelle orchestra; 6, classical; 6:15, popular song period; 6:49, Insurance talk, Daniel D. Mackin; 6:50, Randall's Royal Fontenelle orchestra; 9, deluxe program.

WOC. Davenport, lowa (483.6), 12:15-12:25 p. m., "Those Unborn Pigs—Give Them a Chance," Prof. John M. Evvard; 3-3:30, Aunt Jane; 5:45-6, chimes.

WOS, Jefferson City, Mo. (440.9), 8 p. m., musical program, students of Fine Arts school, Christian college.

WOL Chicago III. (447.5), 11-12 m., "The Care of

college.

WQJ, Chicago, III. (447.5), 11-12 m., "The Care of the Hair and Skin," Madame Huntingford; 3-4 p. m., "Radio Fans' Recipes," Helen Harrington Downing; book review, Rov. Fred J. Harrison.

WRR, Dallas, Texas (246), 12-1 p. m., Hartwell Jones, entertainer; William Davidson, singer; 5:15, bedtime story; 6-7, Adolphus hotel, Jack Gardner and his orchestra; 8-9, concert, Magnolia Petroleum company orchestra; 11-12, Virgil Whitworth, xylophonist.

WSAI, Cincinnati, Ohio (326), 10-12 p. m., Cincinnati community program, symphony orchestra and soloists.

community program, symphony orchestra and soloists.

WSM, Nashville, Tenn. (282.8), 6:30 p. m., Beasley
Smith and his orchestra; 7, WSM bedtime story interlude; 7:30, community program, First Presbyterian
church; 10, program, Vito M. Pellettieri and his wSUI, lowa City, la. (483.6), 12:30 p. m., Mrs. Dorothy Spencer, soprano; address, Dr. G. M. Ruch; 7:30-7:50, correspondence course lectures; 9, music

Y AT WSAI; WENDELL HALL AT KFAB



re Peter MacArthur, announcer; Bernice Schultz, director a director of WOC, Davenport, getting their heads together or the next Crescent orchestra's monthly continuity pro-Than One," these three prepared the Crescent programs sterpiece," given recently. WLW, Cincinnati, is not feade, left, has all the best poems stored in his head. Test Dungan, right, is the story lady of WGES, Oak Park.

hotel trio; 7:30, book review; 8, Seaside hotel trio; hotel trio; 7:30, book feview; 8, Seasige hotel trio; 11:15, organ recital.

WHN, New York, N. Y. (361.2), 12:30-1 p. m., Lexington organ recital; 2:15-3:15, Overture and vaudeville from Loew's State theater; 3:15-4:30, Lexington orchestra; 7-7:30, Vincent Lopez Iceland orchestra; 7:30-8, Will Oakland's Chateau Shanley; 11-11:30, Caravan orchestra; 11:30-12, Bob Murphy's orchestra; 12-12:30 a. m., Club Kentucky Revue and orchestra. CING I Time I Time

January 9:
Whyc. Wpg;
8135, Wgy;
Weei, Wmbb,
9110, Kfts,
Kths, Wgbs,
10, Kfve,
Weaf, Wkre,
Who,
105, Weec;
Md;
10145,
Kfps, Kfwa,
Webh, Wfaa,
Woc, 11:30,
Wdaf; 12,
Kgw, Knx,

Kgw, Knx,

l. January ff: Weei; Wgbu, 9:15; Wahe; Wgbu, Wgco, Wpg; 10:15, Kfoa, Wgco, Kgw, Koil, p, Wgr, Whn, b, Wdaf; 12,

January 12:

Vgbu, Wmbb;
Wgbs, Wgy,
Wnvc; 10,
50, Weaf,
6, Wgn, Whn,
5 Wpg; 10:15,
Kths, Whn;
11, Kgw,
Whn; 11:30,
Wdaf; 12,
Knx, Kpo,
31,

di.
January
Wex, Webh,
Who,
Wic;
Whap,

mea, Wile; 9:30, Wbap, 10, Kfve, Wgbu, Wgcp, 05, Wcco; b, Whn; 11, Webh, Wgbu, Whn; 11:45, Kfwa; Knx,

January 14: Webh, Wei, Whn, Wir, Wiag; 9:05, 9:30, Wgbs, 9:35, Wnyc; Wbbm, Weaf,

Wobm, Wear,
Wmca, Wpg,
Kths, Whn,
J. Whn, Woc;
If: 12, Kgo,
Kpo, Wijd.
January 15:
Wex, Webh,
gbu, Wgen,

Wex Wehh, gbu. Wgep, Wgep, Wgep, Kfve, Wgep, Wgi; 10:05, Wgep, Whn; Knx, Kpo, gbu. Wgep, Whi; Kfve, Who; Kfve, Who; Kfve, Kfve, Khi;

orchestra.

WIP, Philadelphia, Pa. (508.2), 6:45 a. m., setting-up exercises; 7, setting-up exercises; 10, menu talk, Mrs. Anna B. Scott: 1 p. m., organ recital; 3, recital; 6:05, Pagoda dance orchestra; 7, Uncle Wip's bedtime stories; 8, Elliott Lester, dramatic critic; 10:05, Emo's weekly movie broadcast; 10:30, Brunswick Recording dance orchestra.

WJR, Pontiae, Mich. (516.9), 7 p. m., Jean Goldkette's Petite symphony orchestra; 7:30, old-time dance music, Glover-Watson organization; 9, Jean Goldkette's serenaders.

music, Glover-Watson organization; 9, Jean Gold-kette's serenaders.

WLIT, Philadelphia, Pa. (394.5), 11 a. m., organ recital, Stanley theater; 12:02 p. m., daily almanac; Stanley theater organ recital; Arcadia Cafe concert orchestra; 2, Arcadia Cafe concert orchestra; 2, Arcadia Cafe concert orchestra; 2:30, household helps and hints, Richard S. Bond; 4:30, program, auspices Republican Women of Pennsylvania; 7:30, Dream Daddy's bedtime stories; 7:30, play review, Allyn C. Saurer Allyn C. Saurer. WLWL, New York, N. Y. (288), 11-12 a. m., shop-

with the state of the state of

WNYC, New York, N. Y. (526), 7:10 p. m., the Canadians; 7:35, the Canadians; 8, male quartet; 8:30, orchestra; 10, Harry Ash's orchestra; 10:35, Harry

Ash's orchestra. WOO, Philadelphia, Pa. (508.2), 11 a. m., organ recital; 12 n. Golden's Crystal tea room orchestra; 4:45 p. m., organ recital; 7:30, Hotel Adelphia French room or-

chestra.

WOR, Newark, N. J. (405.2), 6:15 p. m., "Words Often
Mispronounced"; 6:30, Man in the Moon stories for
children; 7, Hotel Shelton ensemble; 7:30, Newark
evening news.

Mispronounced"; 6:30, Man in the Moon stories for children; 7, Hotel Shelton ensemble; 7:30, Newark evening news.

WPG, Atlantic City, N. J. (299.8), 1:30 p. m., Hotel Ambassador luncheon music; 6:45, organ recital, Arthur Scott Brook; 7, Hotel Morton trio dinner music; 8, Ethel Rattay Fowler's fashion flashes; 8:15, Plaza hotel artists; Cecile Steiner, violinist; Margaret Irwin, pianist; Dora Davies Williams, soprano; Alice Warren Sachse, pianist; 9, Chalfonte-Haddon hall dual trio; 10, program; 11, Silver Slipper supper club; Eddie McKnight's dance orchestra.

WRC, Washington, D. C. (468.5), 10 a. m., women's hour, WJZ; 12 n., George F. Ross, organist; 1 p. m., Hotel Washington orchestra; 6, Hotel Hamilton orchestra; 6:50, "Show Shopping," Leonard Hall; 7, Lee House trio; 7:15, Radio School of International Relations; 7:30, U. S. Marine band; 8:30, New York Edison hour, WJZ; 9:30, to be announced; 10, "The Grand Tour," WJZ; 10:30, W. Spencer and his Hotel Mayflower orchestra, WJZ, WGY; 11:30, Gertrude Smallwood, organist; 12, Meyer Davis' Le Paradise band.

WREO, Lansing, Mich. (285.5), 6-7 b. m., Speed-Wagon serenaders; Gold Standard ensemble; 8:15, Reo Motor Car company band; Reo Mot

WTAM, Cleveland, Ohio (389.4), 12:15-1:15 p. m., Guy Lombardo and his Royal Canadians; 6-7, Carl Rupp and his Hotel Hollenden orchestra.
WTIC, Hartford, Conn. (475.9), 11 a. m., professional candy making, Dorit K. Weigert; 11:15, fashion talk, Mrs. Marion Down; 11:25, violin solos, Beatrice Torgan; 11:30, WTIC's housewives forum, Mrs. J. M. Dean; 12:15, luncheon music; 8, program, the Travelers male quartet, symphonic ensemble; 9:30, organ recital, Esther A. Nelson.
WWJ, Detroit, Mich. (352.7), 9:30 a. m., tonight's dinner and special talk; 12:05 p. m., Jules Klein's Hotel Statler orchestra; 3, Detroit News orchestra; 6, dinner concert; 8, concert, WEAF.

Central Time Stations
KFAB, Lincoln, Nebr. (340.7), 5:30-6:30 p. m., din

Central Time Stations

KFAB, Lincoln, Nebr. (340.7), 5:30-6:30 p. m., dinner concert, Monte Munn; 8:05-10:30, University of Nebraska musicale.

KFKX, Hastings, Nebr. (288.3), 1 p. m., "Infectious Poultry Diseases," A. G. Philips; "The Hastings KFKX Radio Special"; 5:30, KDKA dinner concert. KFMQ., Fayetteville, Ark. (299.8), 8 p. m., Arkansas Old Fiddlers' contest; talk, Harry E. Schultz.

KFNF, Shenandoah, lowa (266), 7 p. m., Forest City entertainers, Mrs. Izeyl Swope Richardson, director.

KFVE, University City, Mo. (240), 9:15 p. m., amusement review, Romaine Fielding; entertainers.

KMA, Shenandoah, lowa (252), I1:30-12:30 a. m., noonday rural program; talk, Earl E. May; music; 6-7, May Flower trio, Lina Ferguson; 9-11, May's mandolin musicians; talk, G. H. Van Houten.

KPRC, Houston, Texas (296.9), 12 m., Majestic theater folks; 5:30 p. m., Uncle Judd's Kiddies' hour; 7:30, Billie Mack's orchestra; 8:30, Ruth Burr, pianist; 9, bridge game.

KSAC, Manhattan, Kan. (340.7), 9-9:25 a. m., music,

pianist; 9, bridge game.

KSAC, Manhattan, Kan. (340.7). 9-9:25 a. m., music, inspirational talks, agricultural primer, calisthenics; 9:55-10:25, readings, backyard gossip, question box, planning today's meals; 12:35-10:05, "Sweet Clover Poisoning in Cattle," Dr. J. W. Linn; "Selecting Calves for Baby Beeves," M. H. Coc; 4:30-5, program for women's clubs; 6:30-7:30, better speech, etiquette; Extension credit course, "Economics"; Extension course, "Substitute Value of Differen Grains



for Hogs," A. D. Weber; "The Dairy Industry of Kansas," J. B. Fitch.

KSD, St. Louis, Mo. (545.1), 6:55 p. m., WEAF chain "Good Will" program.

KSO, Clarinda, Iowa (241.8), 12:30-1:15 p. m., farm talk; 7-7:30, mixed program, J. D. Mosburger; 7:30-9, music.

KSO. Clarinda, lowa (241.8), 12:30-1:15 p. m., farm talk; 7-7:30, mixed program, J. D. Mosburger; 7:30-9, music.

KTHS, Hot Springs National Park, Ark. (374.8), 9-10 p. m., dance concert, Meyer Davis artists, Lon Chassy, leader; Clyde Foley; 10-11, "Conway Night," Hendrix college glee club.

KYW, Chicago, III. (536), 6:30-7 a. m., morning exercises, Paul A. Leonhardt; 7:30, morning devotional worship. Y. M. C. A.; 11:35, table talk, Mrs. Anna J. Petakon, Peoples Gas company; 12:05 p. m., concert; 1, luncheon concert, Congress hotel; 2:35-4, afternoon frolic; 6, dinner music, KDKA; 7:05, bedtime story, Walter Wilson; 7:33, Speeches, American Farm Bureau federation; 8, musical program; 9, an hour of music; 10, evening at home program; 10:40, Coon-Sanders Original Nighthawks; 1 a. m., Insomnia club, Coon-Sanders Original Nighthawks.

WAMD, Minneapolis, Minn. (243.8), 12 n., Garrick theater organ recital, Jack Malerick.

WBBM, Chicago, III. (226), 4-6 p. m., Valentino Innorchestra; artists; 8-9, Moulin Rouge orchestra; Phil Fleming, tenor; Jean St. Anne, French baritone; 9-10, Utilities Craftsmen glee club; 10-12, Ziegler Sisters; Moulin Rouge orchestra: Claire Matthews.

WBCN, Chicago, III. (266), 10-10:30 a. m., Penny Wise, the shopper's ready helper; 7-8, Ballantine Electric company classical hour; Robert Sansome, cellist; Gordon A. Nelson, tenor; Ann Kelley, sopprano; Pearl Fairchild, planist; 10-12, jazz jamboree, Midway orchestra; Borden Brothers, harmony duo; Ed Dempsey, tenor; Niese and Nehr, banjo bimbos; Drevel quartet, vocal group; Marle Wright, soprano; Finney Briggs, column conductor "Crazy Quilt" column; Marquette banjo four, string quartet; Frank H. McDonald, Radio talk; 12-2 a. m., pirate ship, wcgb, Zion, III. (344.6), 8 p. m., Clarinet quartet, mixed quartet; celestial bells; Mrs. Hill, soprano; J. L. Bishop, baritone; Olive Wright, pianist; Louise Burgess, reader.

WCGO, Minneapolis-St. Paul, Minn. (416.4), 12 n., Diek Lono's Davion trio: 2 p. m., League of Women

Burgess, reader.

WCCO, Minneapolis-St. Paul, Minn. (416.4), 12 n.,

WCCO, Minneapolis-St. Paul, Minn. (416.4), 12 n., Dick Long's Dayton trio; 2 p. m., League of Women Voters; 2:30, Dick Long's trio; 3:05, "The World of Books," H. A. Bellows; 4, readers' club, Eleanor Poehler; 5:30, children's hour; 6:15, Biley's St. Paul hotel concert crohestra; 7:30, WEAF Gold Dust Twins; Eveready hour; Henry Ford.
WDAF. Kansas City, Mc. (365.6), 3:30-4:30 p. m., Ster's string orchestra; 6-7, the Tell-Me-2-Story ladys address, Radio piano lesson, Miss Mandellen Little-field; music, the Trianon ensemble; 11:45, the Plantation players, Hotel Muchlebach; Eddie Kuhn's Kansas City Athletic club orchestra; Billy Adair's Kansas City club orchestra.

City club orchestra. WDOD, Chattanooga, Tenn. (256), 9-9:30 p. m., bridge WEBH, Chicago, III. (370.2), 11:30 a. m., women's half

Index to Farmers' Programs

Farmer Dinner Concerts Daily Except Sunday

CENTRAL TIME KFNF, 12:15-1:35 p. m. KSO, 12:30-1:30 p. m. WLS, 12 noon.

Saturday, January 9

Eastern Central Mountain Pacific
1:45 p. m. 12:45 p. m. 11:45 a. m. 10:45 a. m.

WOI (270) Soils, questions and answers.
8 7 6 5

KDKA (309.1) Farm program.

Sunday, January 10

Eastern Central Mountain Pacific 3:30 p. m. 2:30 p. m. 1:30 p. m. 12:30 p. m. WFAA (475.9) Sunday hour for farmers. Monday, January 11
Eastern Central Mountain Pacific
1:15 p. m. 12:15 p. m. 11:15 a. m. 10:15 a. m.
WEAO (293.9) Timely Economic Information for

7 8 5 p. m. 4 p. m.

KSAC (340.7) Purchasing Power of Farm Products, Diseases Common to Sorghums, and Their Control.

trol.
WGY (379.5) Agricultural program.
7:45 6:45 5:45
WSOE (246) Hog Raising.
8:30 7:30 6:30
KFMQ (299.8) Farmers' night. 5:30 KFMQ (299.8) Farmers' night.
WMC (499.7) Talk.
WOI (270) Poultry Course.
8:45 7:45 6:45 5:45
WCCO (416.4) Swine Raising, lesson VI—Sanitation in the Hog Lot.
9:05 8:05 7:05 6:05
KFAB (340.7) Agricultural talks.
9:30 7:30 6:30
KOAC (280.2) Question box.
9:40 8:40 7:40 6:40
KOAC (280.2) Economical Hog Production in Oregon.

KOAC (280.2) Planting and Care of the Potato

Crop.
10:15 9:15 8:15 7:15
KOAC (280.2) A Definite Plan Will Solve the Garden Planting Problem.

Tuesday, January 12

Eastern Central Mountain Pacific (1:30 a. m. 10:30 a. m. 9:30 a. m. 8:30 a. m. KFAB (340.7) Poultry talks. 1:15 12:15 p. m. 11:15 10:15 WOC (428.3) Various Poultry Diseases. 1:35 10:35 KSAC (340.7) Sweet Clover Poisoning in Cattle. Selecting Calves for Baby Beeves. 1:45 12:45 11:45 10:45 WMAQ (447.5) Radio farm school. WOI (270) Animal Husbandry, questions and answers.

2 1 12 n. 11

KFKX (288.3) Infectious Poultry Diseases.
7 6 5 p. m. 4 p. m.

KSAC (340.7) Substitute Value of Different Grains for Hogs. The Dairy Industry of Kansas.
7:15 6:15 5:15 4:15

WKAR (285.5) Agriculture, engineering, soils.
8 7 6 5

WOC (483.6) Answering Questions with Reference to Farm Animals. to Farm Animals.

7 6 5 4 p. m.

KSAC (340.7) Relation of Transportation to Agri-

College Servicing Your Own Car.
9:05 8:05 7:05 6:05

KFAB (340.7) Agricultural talks.
10:30 8:30 7:30

KWSC (348.6), The Economic Value of the Poultry Industry.

Thursday, January 14

Eastern Central Mountain Pacific
1:15 p. m. 12:15 p. m. 11:15 a. m. 10:15 a. m.
WOC (483.6) Legume Day—Some High Points in Successful Culture.
WOI (270) Better Farm Equipment week.
1:35 12:35 11:35 10:35

KSAC (340.7) Are You Maintaining Your Soil Fertility?

9, musical bits from Uptown theater; 10-11, Oriole orchestra dance selections; 12:30 a. m., Kay Ronayne,

weng, Chicago, III. (266), 6-7 p. m., dinner concert; Rauland lyric trio; Russell Hendrickson, cellist; vocal and instrumental solos; 8-10, popular program; Frank Westphal and his All-American Pioneers; Loretta Giles, soprano; Al Tweed and Walter Peterson, harmonica and guitar selections; Phillip Millville, baritone; American Hawaijan trio.

wone; American Hawaiian trio.

WGES, Oak Park, III. (250), 5-7 p. m., Lydia Werner, soprano; Miles Sullivan players, one-act playlet; Stenstrom sisters, vocal duo; Tiffin theater organ and orchestra; 8-9, Helen Frahm, soprano; Tiffin orchestra; 11-1 a. m., Serenaders orchestra; quartet; Bemington Welch, organist; Sandy McTavish, Scotch comedien; Erwin Schmidt and his own sons; Jack Goodwin, tenor.

WGN, Cheago, III. (302.8), 11-11:30 a. m., household hints; 11:30-12, fashion discussion; 12:40-2:30 p. m., lunchéon concert, Drake concert ensemble and Blackstone string quintet; 2:30-3, Lyon and Healy artists; 3-3:25, "A Waffle Supper," Ruth Hagers; 3:30-4:15, tea time music, Marshall Field tea room orchestra; 4:30-5, organ recital; 5:30-5:57, Skeezix; 6:30-7, dinner concert. Drake concert ensemble and Blackstone

Eastern Central Mountain 7:15 p. m. 6:15 p. m. 5:15 p. m. 4:15 p. m. 4:15 p. m. 4:15 p. m. 8:30 7:30 6:30 5:30 WOI (270) Dairyman's short course. WEAO (293.9) Soils. 9:30 8:30 7:30 KOA (322.4) Farm question box.

KOA (322.4) Farm question box.

Friday, January 15

Eastern Central Mountain Pacific
1:15 p. m. 12:15 p. m. 11:15 a. m. 10:15 a. m.

WOC (483.6) Special farm service day.
1:35 12:35 11:35 10:35

KSAC (340.7) Kansas Alfalfa Seed the Best in the World.
1:45 12:45 11:45 10:45

WOI (270) Agricultural Economics.
2 12 n. 11

KFKX (288.3) Special Farm Service Day.
WMAQ (447.5) Radio farm school.
8:45 7:45 6:45 p. m. 5:45 p. m.

WCCO (416.4) Bee Keeping, lesson V—Marketing of Honey.
10:30 8:30 7:30

KWSC (248.8) Proposing for 10% Change of Honey. 10:30 9:30 8:30 7:30 KWSC (348.6) Preparing for 1926 Crops.

Markets and Weather

Daily Except Sunday

Central Eastern Mountain Paeifis 9:30 a. m. 8:30 a. m WFAA (475.9) markets. WOAW (526) markets. 8:30 a. m. 7:30 a. m. 6:30 a. m. 9:45 8:45 7:4 KDKA (309.1) livestock, grain. 6:45 10 9 8 p. m. WLS (345) livestock, markets, fruit. WUS (343) Investock, markets, truit.

WOS (440.9) hogs.

10:30 8:30 7:30

KFKX (288.3) livestock, fruit, vegetables, hogs.

KTCL (305.9) weather, sheep, quotations.

WFAA (475.9) markets.

WOI (270) Weather. 10:45 9:45 8:43 WCCO (475.9) markets. WMC (499.7) weather, markets.

6:30

WFAA (475.9) markets.

1 p. m. 12 noon 11 a. m. 10 a. m.

WBAP (475.9) markets.

WHT (400) fruit, weather.

WOS (440.9) livestock, weather.

430 p. m. 12:30 p. m. 11:30 a. m. 10:30 a. m.

KTHS (374.8) markets, weather.

WFAA (475.9) markets.

WOAW (526) markets.

WOI (270) Weather, Itvestock.

4:35 p. m. 12:35 p. m. 11:35 a. m. 10:35 a. m.

KPO (428.3) butter, eggs, cheese, poultry.

1:45 p. m. 12:45 p. m. 11:45 a. m. 10:45 a. m.

KOA (322.4) weather, roads, livestock, poultry.

2 p. m. 12 mon 11 a. m.

WOC (484) weather, grain, livestock, dairy.

WOS (440.9) grain.

2:15 1:15 12:15 11:15

3:50 2:50 1:5 WWJ (352.7) wather, markets. 4 KFKX (288.3) livestock, wool. WCCO (416.4) markets. WCX (517) stock and grain. 1 1:30

4:30 3:30 2:30 WEAR (389.4) markets, WFAA (475.9) markets. 5:50 4:50 3:50 WDAF (365.6) markets, WHAS (399.8) markets. 2:50 KFAU (278) markets, weather.

KFAU (278) markets, weather.
6:30 5:30 4:30 3:30
KSAC (340.7) markets.
6:45 5:45 4:45 3:45
WIP (508.2) livestock, markets.
6:50 5:50 4:50 3:50
WHAD (275) markets.
7:30 6:30 5:30 4:30
KSAC (340.7) market review.
7:45 6:45 5:45 4:45
KFWA (261) market reports.
8 7 6
KFKX (288.3) markets.
KOA (322.4) sheep, markets, livestock, poultry.
9 8 7 6

9 8 7 6
WAAW -(384.4) Marketgrams and talks.
11 10 9.
WCCO (416.4) weather, grain.

string quintet; 8-9, Eveready program, WEAF; 9-10, Ford program, WEAF; 10-11, amateur hour.

WHAD, Milwaukee, Wis. (275), 11 a. m., pianolog, Andy Hertel; "Getting the First Thousand," Carl Skinrood; 4 p. m., musical numbers; 6:15-7, Bill Benning's Milwaukee Athletic club orchestra.

WHAS, Louisville, Ky. (399.8), 12-1 p. m., Trinity Methodist church, Rev. Dr. John Lowe Fort, pastor; Mrs. Madge Terry Lewis, director of music; 1-2, the Benson tric: 3-330, organ recital. Mrs. Mytle Eulks

Methodist Chilicit, Rev. Di. John Lowe Fort, pastor; Mrs. Madge Terry Lewis, director of music; 1-2, the Benson trio; 3-3:30, organ recital, Mrs. Myrtle Fulks Zahn, Jr.; 4-5, musical selections, Harry S. Currie, assisted by Leroy Hobb; readings, choice editorials; 7:30-9, concert, Eddie Rosson and orchestra, Eddie Rossen, manager, drums, director; thrift talk, Liberty Insurance bank.

WHB, Kansas Gity, Mc. (385.6), 2-3 p. m., musical program, Mona Motor Oil Cans; 7-7:30, Morrell Moore, organist; 2-9. Sweeney studio; 9-10, Mona Motor Oil Cans, Ned Tollinger, John Wolfe.

WHO, Des Moines, lowa (526), 7:30-8 p. m., Raleigh quintet; 8-3, Bankers' Life trio.

WHT, Chicago, III. (399.8), 10 a. m., Jean Sargent's program, woman's club: Borden health talk; Jelke Good Luck Girl; studio music; 11, special studio features, Magnus musical lecture; 12 noon, Al Carney's complimentary organ recital; 1 p. m., special

WBAL TO FEATURE BALLAD SINGER

Tuesday, January 12



This lovely lady is Mrs. Inez Main Momm who plays the piano from WTIC, Hart-ford, at rare intervals. Her latest ap-pearance was Friday, January 8.

studio program; 6, classical program; dinner organ recital; Grayling's string trio; Eleanor Gilmour, soprano; Oscar Heather, tenor; Loftus half hour of music; Alois Bragagnolo, basso; 7:45-9:15 (238), musical features; 9:30 (399.8), Jelke's entertainers; Kitchen Klenzer Klassics; Kenneth Clark's Hawaiian trio; Al Carney, organist; Husk O'Hare's orchestra; 10:10, U. S. L. half hour dance music.

WIBO, Chicago, III. (226), 10-11 a. m., shoppers' bureau; 2-4 p. m., shu-in program; 6-8, dinner concert, popular American ballads, Walter Preston; WIBO trio; Bernice Taylor, soprano; Ruth Buhl Flick, reader; 12 m.-2 a. m., jamboree.

WLS, Chicago, III. (344.6), 12-1 p. m., Ford and Glenn; 6:30, Ralph Emerson, organist; 7, Ford and Glenn; 7:15, Marshall Boys Glee club.

WLW, Cincinnati, Ohio (422.3), 7:30 a. m., exercises, Wiliam Stradtman, Y. M. C. A.; 3, morning devotions, auspices of Parkway Y. M. C. A.; 12:05 p. m., organ concert, Petronella Trimbur; 12:30, Hotel Gibson, Robert Visconti, director; 4, talk, Ralph Schmidt; 4:10, French lesson, Madame Ida Tcimpidis; 7, musical appreciation series, Cincinnati Conservatory of Music; 7:20, Crosley popular science series, "Hunting American Coal Balls," Dr. Hobart Hoskins; 7:30, piano memories, Mary Louise Woseczek; 7:50, talk on dogs, F. W. Avery; 8, Crosley Burnt Corkers; 8:45, musical handshakes, Bob Groenke and Jim Mischler; 9, Formica Insulation company program, William C. Stoess, director.

WMAQ, Chicago, III. (447.5), 12:45 p. m., Radio Farm school; 2, shut-in program; 4, Red Cross Home Nursing talk; 4:45, pupils, Rosenfeld school of music; 6, Chicago theater organ recital; 6:30, Hotel LaSalle orchestra; 8, Harry Hansen book talk; 8:20, musical program; 9, lecture, University of Chicago chimes.

WMBB, Chicago, III. (250), 7-8 p. m., Trianon duo, Genevieve Burnham, program and talk on finance; 9:11, Trianon orchestra, Dell Lampe Woodlawn theater orchestra. Armin F. Hand Scotty Welsh and Madison Sisters, Si Berg, popular program.

WMC, Memphis, Tenn. (499.7), 7:15 p. m.

Pete and Repete announcing.

WOC, Davenport, Iowa (483.6), 12:15-12:25 p. m.,

"Various Poultry Diseases," Prof. A. G. Philips;
3-3:30, Aunt Jane; 5:45-6, chimes; 6:30-6:50, sandman; 7-7:10, "Answering Questions with Reference to Farm Animals," R. E. Patrick; 7:30-8, Gold Dust Twins, WEAF; 8-9, Eveready hour, WEAF; 9-10:45, "Around the World with B. J.," Dr. B. J. Palmer; 10:45-11:45, Mrs. Arthur P. Griggs, contralto; Howard A. Carroll, tenor; John McGreevy, baritone; Louis Crowder, planist.

WOK, Chicago, Ill. (217.3), 5-7 p. m., Capitol theater organ; Clement Laskowski, tenor; Bob Mokrejs, pianist; George Allen, tenor; 10-1:30 a. m., Bernie Cummin's Town club orchestra; Husk O'Hare's Coccanut Grove orchestra; Capitol theater program; Bill Hay, bass; George Allen, tenor; Harriet Lee, contralto; Herman Sinaiko, violinist; Bob Mokrejs, pianist.

WOQ, Kansas City, Mo. (278), 8-9 p. m., devotional

WOQ, Kansas City, Mo. (278), 8-9 p. m., devotional

musical program.

WQJ, Chicago, III. (447.5), 11-12 m., "How to Wear a Hat," Mrs. Lillian Russell; "Hotel Salads," Mrs. E. B. Ransom; 3-4 p. m., "Household Helps Exchange," Helen Harrington Downing; "Insurance—An Individual Problem," Mrs. Jane Strohecker; "Holland," Mrs. Harry T. Sanger; 7-8, Ralph Williams and his Rainbo Gardens orchestra; Fontella trio; Everett G. Mitchell, baritone; 10-1, Jerry Sullivan; Rose Vanderbosch, soprano; Hal Lansing, ukulele soloist; Everett George Opie, reader; Bert Davis; Merrill Carder, baritone; Will Rossiter, Daddy of them all; Mary Wade, soprano; Ila Shannabrook, soprano; Romo Vincent, boy baritone; 1-2, Ginger hour.

WRR, Dallas, Texas (246), 12-1 p. m., Mrs. Berg

WRR, Dallas, Texas (246), 12-1 p. m., Mrs. Bera Meade Grimes, pianist; 5:15, bedtime story; 6-7, Jack Gardner's orchestra; 8-9, musical program, Mont-

Jack Gardner's orchestra; 8-9, musical program, Montgomery, the photographer.

WSA1, Cincinnati, Ohio (326), 5:30 p. m., twilight musicale, WSA1; 6:30, musical program, WSA1; 7, Mabley and Carew orchestra, Reuben Lawson, director; 8, Eveready hour, WEAF; 9-9:30, Radio auction bridge, WSA1; 9:30, musical program, Austin Brothers, Hawaiian guitars; 12 m., Hotel Sinton orchestra, Charles Dornberger, director.

WSUI, lowa City, lowa (483.6), 12:30 p. m., Clarence Andrews, cornetist; "Sectioning College Classes on the Basis of Ability," Mrs. George Nelson.

Mountain Time Stations

CNRR, Regina, Can. (476), 8 p. m., Kiddies' bedtime story, Aunt Jenny; Belvedere concert orchestra, A. Garvin, Jr., director; Mrs. H. Filton and J. Leathem, vocalists.

KFXF, Colorado Springs, Colo. (250), 8:30-10 p.m. Freeman Dust Absorber musical program.

KOA, Denver, Colo. (322.4), 12:15 p. m., Rialto theater musicale; 3:30, matinee for housewives; 4:15, fashion review; 6:30, Brown Palace string orchestra; 7:30, farm question box.

Pacific Time Stations

KFI, Los Angeles, Calif. (467), 5:30-6 p. m., Examiner matinee; 6, nightly doings; 6:15, KFI's Seeing California; 6:30, Vest pocket program; 6:45, Radiotorial period; 7-8, program arranged by Myra Belle Vickers; 8-9, Examiner program; 9-10, Packard Six dance orchestra; 10-11, Packard Ballad hour with Ashley Sisters, Bud Gore, Billy and Polly Hall, Charlie Cole.

KFOA, Seattle, Wash. (454.3), 6:45-8:15 p. m., Hopper-Kelly company; 8:30-9:30, Times studio program; 9:30-11:30, orchestra.

KFON, Long Beach, Calif. (232.4), 4:30-5 p. m., amusement bulletin; 6-6:30, organ recital, Brayton's theater; 8-9, Press-Telegram program, arranged by Wm. Conrad Mills; 9-11, Long Beach Aero club Hills.

Jinks.

KFWB, Hollywood, Calif. (252), 5-6 p. m., children's hour, Big Brother of KFWB; 7, health talk, Dr. W. I. Schuster; 7:15, microphone brevities; 8-9, Warner Brothers Little symphony; Frank Stever, baritone; Starr Russell, blues singer; 9-10, Joe Martin's Studio Six dance orchestra; 10-11, Warner Brothers frolic; Bill Beaudine, famous screen director, as Guest Annappeer.

nouncer.

KGO, Oakland, Calif. (361.2), 4-5:30 p. m., concert orchestra, Hotel St. Francis; 5:30, "As a Woman Thinketh," Louise Landis; 6-6:55, dinner concert, Sherman, Clay and company; 8-9, eveready hour, Gough trio, Walter L. Gough, violinist; Florence McCormick, cellist; Emily Ilsley McCormick, pianist;

Wednesday, January 13

Headliners Today Eastern Central Mountain Pacif 7:30 p. m. 6:30 p. m. 5:30 p. m. 4:30 p. m. WHO (526) Colored Ladies' quartet. 8:30 7:30 6:30 5:30 KDKA (309.1) Griffo octet. WEEI (348.6) Earl Nelson and his uke. WHAS (399.8) Royal Peacock orchestra. 9 8 7 6 KFMQ (299.8) Arkansas Old Fiddlers' contest. KOA (322.4) Sixty-voice boys' choir. KTHS (374.8) Solo night. WLW (422.3) Cincinnati zither players. 9:45 8:45 7:45 6:45 WBZ (333.1) Irish airs. 10:30 9:30 8:30 7:30 KHJ (405.2) Old Timers' program.

Index to Classical Concerts

Saturday, January 9 Eastern Central Mountain Eastern Central Mountain Pacific 6 p. m. 5 p. m. 4 p. m. 3 p. m.

WCX, WEAF, WMCA, WREO.

7 6 5 4

KGO, KYW, WEAR, WENR, WMAQ, WNYC, WOAW, WOK, WRC.

8 7 6 5

KDKA, KFNF, KOIL, KSD, KYW, WBBR, WGN, WMBB, WNYC, WOAW, WQJ.

9 8 7 6

KFOA, KPRC, KHJ, KYW, WHAS, WIP, WLW, WORD, WSAI, WSOE

10 9 8 7 WLW, WORD, WSAI, WSOE

10

8

KNX, KYW, WEAF, WMAQ, WMC, WOAW,
WOC, WORD.

11

10

9

8

KGO.
12 m

11

10

9 Sunday, January 10 Mountain 4 p. m. 6 p. m. 5 p. m. 4 p. m. 3 p. m.

WCAU.
7:20 6:20 5:20 4:20

WCAE, WCAU, WEAF, WEAR, WEEI, WJAR,
WTAG, WWJ.
8 7 6 8 WTAG, WWJ.

8 7 6 5

KYW, WBZ, WEAR, WGBS, WGCP, WKAQ, WLS, WORD.

9 8 7 6

KFDM, KPRC, KSD, WBZ, WCAU, WCBD, WCCO, WEAR, WGY, WHAR, WHT, WNYC, WJ.

9:15 8:15 7:15 6:15

WEEI, WJAR, WTAG.
10 8 7

KHJ, KNX, KTHS, KYW, WCCO, WFAA, WNYC, WQJ, WSOE.
11 10 9 8

KFVE, KHJ, KNX, KPO, KTHS, KYW, WHN, WKRC, WOC.
12 m 11 10 9

KHJ, KNX, WOC.
1a m. 12 m 11 10

KNX.

Monday, January 11

Monday, January 11 Mountain Central Eastern 6p. m. 5p. m. 4p. m. 3p. m. KGO, WCX, WEAF, WMCA, WREO, WWJ. MGO, WCA, WEAF, WMCA, WREO, WWJ.

7 6 5 4

KMA, WCCO, WEAF, WEAR, WHAD, WJR,
WOAW, WOK.
8 7 6 5

KFNF, KSD, WBBR, WBZ, WCAU, WCX,
WHAR, WHT, WJAR, WLW, WMBB, WTAG,
9 WTIC.

9

8

7

6

KFOA, KGO, KHJ, KPRC, WBBR, WCCO, WBZ, WCAE, WEEI, WHAD, WHO, WJAR, WLW, WORD, WS.

10

9

KMA, KPO, KPRC, KSD, KTHS, WCCO, WEAF, WHAD, WJAR, WOAW, WSUI, WTAG.

KGW, KHJ, KMA, KSD, KTHS, KWSC, WHN, WSAI. 12 m II KGW, WBAP, WSAI. Tuesday, January 12

Eastern Central Mountain Paelfie 6 p. m. 5 p. m. 4 p. m. 3 p. m. WBZ, WCX, WEAF, WMCA, WREO, WWJ. 7 6 KGO, KMA, WEAR, WEBJ, WGBS, WHAD, WJR, WMAQ, WOAW, WOK, WOB, WTIC, 8 7 WWJ.

8
7
KPNF, KSD, KYW, WBZ, WCAU,
WCX, WEAR, WEEI, WGR, WHAR, WHT,
WLS, WMBB, WQJ, WRC, WTIC. Eastern Central Mountain Pacific
9 p. m. 8 p. m. 7 p. m. 6 p. m.
KFDM, KFOA, KGO, KHJ, KLDS, KYW,
WCAE, WCBD, WCCO, WEAF, WEEI, WGR,
WHAS, WJAR, WLW, WMAQ, WOC, WORD,

Wednesday, January 13 Eastern Central Mountain Pacific 6 p. m. 5 p. m. 4 p. m. 3 p. m. WCX, WEAF, WMCA, WREO, WWJ. 7 KGO, WEAR, WHAD, WJR, WMAQ, WOK, WTIC. KGO, WEAR, WHAD, WJR, WMAQ, WOK, WTIC.

8 7 6 5
KFNF, KPRC, KSD, KYW, WBZ, WCX, WEAF, WEEI, WHT, WLW, WMBB, WMCA, WQJ, WTAG, WWJ.

9 8 7 6 6
KFOA, KGO, KYW, WBZ, WCX, WEAF, WEEI, WHT, WLW, WMBB, WMCA, WQJ, WDAF, WEEI, WGR, WHAD, WHAS, WJAR, WMAQ, WOR, WOS, WORD.

10 9 8 7
KFMX, KMA. KNX, KTHS, WCCO, WEAF, WEEI, WGB, WHAD, WJAR, WLS, WMAQ, WNYC, WOC, WSOE.

10 9 8
KGO, KGW, KMA, KPO, KTHS, WCAE, WLS, WLW, WOC, WSAI.

12 m 11 10 9
KGW, KPO, WHAD, WLW.

1 a. m. 12 m 11 10

Thursday, January 14 Eastern Central Mountain Pacific 6 p. m. 5 p. m. 4 p. m. 3 p. m. WBZ, WCX, WEAF, WIP, WMCA, WREO, 7 6 5 4 WWJ.

7
KGO, KSD, WEAF, WEAR, WGBS, WHAD,
WJR, WMAQ, WOAW, WOK, WWJ.

8
KYW, WBBR, WBZ, WCAU, WCCO, WCX,
WEAR, WEEI, WGR, WGY, WHAR, WHT,
WLS, WLW, WMBB, WOAW, WQJ, WTAG,
9

Friday, January 15

Eastern Central Mountain Pacific 6 p. m. 5 p. m. 4 p. m. 3 p. m.

KGO, WCX, WMCA, WREO, WWJ.

KGO, WEBJ, WGY, WHAD, WJR, WMAQ, WOAW, WOK, WOR, WTIC.

8 7 6

KYW, WAHG, WBZ, WCAU, WCX, WEBJ, WEEI, WHT, WLS, WQJ, WWJ.

9 8 7 6

KFDM. KFNF, KFOA, KGO, KHJ, KSD, KYW, WBAP, WBZ, WCAU, WDAF, WEEI, WHAD, WJAR, WWAQ, WMCA, WSAI.

10 9 8 7

KFAB, KFDM. KOA, WCCO, WHAD, WMAQ.

11 10 9 8

KFMX, KHJ, KNX, KPO.

12 m 11 10 9

KPO.

Jolly Four; 10, Lew Chapman's Inter-Fraternity dance orchestra; 10:30, White Strickland, the "poetician"; 10:45, Frank Cooke, songs; 11, Artie Bittong and his

orchestra; 10:30, White Strickland, the "poetician"; 10:45, Frank Cooke, songs; 11, Artie Bittong and his cheer-ups.

WCX. Detrsit, Mich. (516.9), 6 p. m., dinner concert, Book-Cadillac hotel; 8, studio program.

WEAF, New York, N. Y. (491.5), 6:45-7:20 a. m., Tower health exercises; 10:45-12:20 p. m., Betty Crocker Gold Medal Flour home service talk; musical program; lecture on home management, Columbia university; Chapel service, Columbia university; 4-5, artists; 6-7, dinner music, Hotel Waldorf-Astoria; 7-11, concert, U. S. Army band; Pooley concert; Ipana troubadours; Roxy and his gang; 11-12, Ben Bernie and his orchestra, Hotel Roosevelt.

WEAR, Cleveland, Ohio (389.4), 11 a. m., Betty Crocker home service; 11:30, farm talk; 7 p. m., Hotel Cleveland orchestra, direction Ivan Francisci.

WEEI, Boston, Mass. (348.6), 7:45 a. m., morning watch from Estey organ studio; 3 p. m., Johnnie Bowles and his orchestra; 5:40, Chet Frost and his original Bostonians; 6:45, Big Brother club; 7:30, Wilfred academy program; 8, musicale; 8:30, Earl Nelson and his uske; 9, Ipana Troubadours, WEAF; 10, Roxy and his gang, WEAF.

WFI, Philadelphia, Pa. (394.5), 10 a m., menu talk; 10:30, solos; 1 p. m., Rotary club luncheon, Dr. Julius Kline, speaker; 3, Loretta Kerk, pianist; 6:30, Bellevue-Stratford concert orchestra; 7, Bellevue-Stratford dance orchestra.

WGCP, New York, N. Y. (252), 12:30 p. m., race

vue-Stratford concert orchestra; 7, Bellevue-Stratford dance orchestra.

WGCP, New York, N. Y. (252), 12:30 p. m., race results; 3, Henry Rogers, pianist; 3:15, Bobby Grey, songs; 3:30, Lillian Rubin, soprano; 3:45, Morris Zimmerman, violinist; 3:55, Dr. J. L. Schwarz, dental talk; 4:30, Jeanne A'Dair, composer; 4:45, Charlotte Trystman pianist; 5:15, Bert Dixon, baritone; 6:30-7:30, Cheatham's band; 7:45-8, Kennedy Harmony group; 8, Hock and Jerome, songs; 8:15, Charol de Thomee, mianist

s, Hock and Jerome, songs; 8:15, Charol de Thomee, pianist.

WGR, Buffalo, N. Y. (319), 2:30 p. m., WGR's afternoon program; 6:30, Gospel Melodists; 8:15, address "Roadside Tree Planting," C. S. Bley, Hamburg, N. Y: 8:30, Davis saxophone octette; 9, jointly with WEAF, Ipana Troubadours; 10, popular program Wills Wallpaper store, Tonawanda; 10:30, popular program featuring Charles Duff, Niagara Falls, Ont; 11, Vincent Lopez Hotel Statler dance orchestra, Harold Gieser, director.

WHN, New York, N. Y. (361.2), 7-7:30 p. m., Ted Lewis and his orchestra; 7:30-8, Burr McIntosh "The Cheerful Philosopher;" 8-9, Calvary Baptist church services; 10:10:30, Roseland dance orchestra; 10:30-11, Jack Dinny's Frivolity orchestra; 11:1:30, Silver Slipper orchestra; 11:30-12, Sidney Claire, Lew Brown and Al Shayne, songs; 12-12:30 a. m., Cotton club orchestra; 12:30-1, Harry Richman and his entertainers.

orchestra; 12:30-1, Harry Kiehman and his emertainers.

WIP, Philadelphia, Pa. (508.2), 6:45 a. m., setting-up exercises; 7, setting-up exercises; 10:30, reducing exercises; 1 p. m., Gimbel tea room orchestra; 3, artists' recital; 6:05, Benjamin Franklin concert orchestra; 7, Uncle Wip's bedtime stories.

WJR, Pontiac, Mich. (516.9), 7 p. m., Jean Goldkette's Petite symphony orchestra; 7:45, Good Will Oakland, harmonic balancer; 9, Jean Goldkette's serenaders; 11:30, Jewett Jesters, Merry Old Chief.

WKAQ, San Juan, P. R. (340.7), 7-9 p. m., musical selections, Municipal band; Prof. Manolo Tizol, conductor

WKAQ, San Juan, P. R. (340.7), 7-9 p. m., musical selections, Municipal band; Prof. Manolo Tizol, conductor

WLIT, Philadelphia, Pa. (394.5), 12:02 p. m., daily almanac; Stanley theater organ recital; Arcadia Cafe concert orchestra; 2, Arcadia Cafe concert orchestra; 2, Arcadia Cafe concert orchestra; 2, Arcadia Cafe concert orchestra; 9, Jewish Welfare Drive concert; 10, Arcadia Cafe dance orchestra.

WMCA, New York, N. Y. (340.7), 6-6:30 p. m., Olcott Vail and his Hotel McAlpin string ensemble; 6:30-7:30, Ernic Golden and his Hotel McAlpin orchestra; 7:30-7:45, talk on footwear; 8-8:15, standard statistics; 8:15-9:15, Northminster church services; 11-11:30, Hofbrau Haus entertainers; 11:30-12, Jack Denny's orchestra.

WNYC, New York, N. Y. (526), 6:30 p. m., Spanish lessons; 7:35, Bernard's New York Six; 8:30, concert program; 10:10, lecture.

WOO, Philadelphia, Pa. (508.2), 11 a. m., organ recital; 12 n., Golden's Crystal tea room orchestra; 4:45 p. m., organ recital; 7:30, Hotel Sylvania orchestra; 8, U. S. Army band; 8:30, Davis Saxophone octet; 9, WOO American male quartet; 9:25, address, Rev. Forest Dager; 10, Fox theater studio program; 10:30, Hotel Sylvania dance orchestra.

WOR, Newark, N. J. (405.2), 6:15 p. m., "Words Often Mispronounced"; 6:30, Bill Wathey; 6:45-7:15, Jacques Jacobs' Hotel Shelton ensemble; 7:30-7:45, Zit's Casino orchestra; 8, topics of the day; 8:30, Ballin and Race, piano duo; 9:15, "Rustic Speecch and Folk Lore," Dr. Frank H. Viztelly; 10, Newark evening news; 10:45, Hotel Pennsylvania orchestra.

WRC, Washington, D. C. (468.5), 10 a. m., women's hour; 12 m., Gertrude Smallwood, organist; 1 p. m., Lee House tric; 4:15, Meyer Davis' Le Paradis band; 6, "Things Talked About," Mrs, Nina Reed; 8, WRC's Foolish entertainers.

WRC, Lansing, Mich. (285.5), 6-7 p. m., Speed-Wagon serenaders; Gold Standard ensemble.

WRC's Foolish entertainers.

WREO, Lansing, Mich. (285.5), 6-7 p. m., Speed-Wagon screnaders; Gold Standard ensemble.

WTAG, Worcester, Mass. (268), 10:30 a. m., musical selections; 10:45, talk to housewives, Mrs. Lydia Flanders; 12:05-2 noonday luncheon music; 7, talk, Robert K. Shaw; 7:15, "The Twinkle Twinkle Story Teller;" 7:30, talk, Harold Whitehead; 7:45, Spanish lesson, Mrs. John De la Farra; 10-11, Roxy and his gang.

WTIC, Hartford, Conn. (475.9), 6:30 p. m., children's hour; 6:50, dinner music; 10, dance music, Hotel



Now that WFBL, Syracuse, and WGY, Schenectady, are connected by a special wire, these two cities are able to exchange artists. Geraldine Arnold, a concert pianist of Syracuse, is one of the recent additions, through this arrangement, to WGY's programs.

Metropolitan male singers; 9-9:30, Annabelle Jones Rose, contralto; Carrie Jones, accompanist; Dean Scott Donaldson, violinist; 9:30, Auction Bridge fea-ture; 10-11, Hotel St. Francis, Girvin-Deuel's Cali-fornia Collegians.

KGW, Portland, Ore. (491.5), 12:30-1:30 p. m., Rosa City trio; 6-7, dinner concert; 7:45-8, talk courtesy, Union Savings and Loan association; 8-10, educational program; bridge; world cartoon on styles; McEquartet; 10-12, Indian Grill; Art Kremer, pianist.

program; bridge; world cartoon on styles; McElroy quartet; 10-12, Indian Grill; Art Kremer, planist.

KHJ, Los Angeles, Calif. (405.2), 6-6:30 p. m., Leighton's Arcade cafeteria orchestra, Jack Cronshaw, leader; 6:30-7:30, history story, Prof. Hertzog; weekly visit of the Radio Fairies, with Queen Titania, Sandman and Uncle John; Charles Leslie Hill, readings; Lenore Killian, contralto; 7:30, talk on dogs, H. M. Robertson; 8-9:30, program, Greater Eagle Rock club; 9:30-10, Piggly Wiggly Girls' string trio; 10-11, Don Clark's Biltmore hotel dance orchestra.

KMTR, Hollywood, Calif. (238), 5-6 p. m., Citizenship hour with Mammy Simmons, Boy Scouts and Camp Fire Girls; 6-7, Starr Piano company studio; 7:30, "Diamond Mines of Central Africa," E. P. Barclay; 8-10, The Turner orchestra. Loren Powell, director.

KNX, Hollywood, Calif. (336.9), 5-5:30 p. m., Sunny Jim's story; 5:30-6:15, Wurlitzer pipe organ studio; Town Tattler; 6:15, travel talk, W. F. Alder; 6:30-7, Atwater Kent concert orchestra; 7-7:45, feature program; 7:45, health talk, Dr. Robt. T. Williams; 8-9, program, Zanke's Re-Bottoming Shoe company; 9-10, program, Cavalier Shoe stores; 10-12, movie night at the Ambassador, Ray West's Cocoanut Grove dance orchestra.

KTAB, Oakland, Calif. (240), 9-9:30 a. m., prayer

orchestra.

KTAB, Oakland, Calif. (240), 9-9:30 a. m., prayer service, Rev. G. W. Phillips; 8-10 p. m., Mutual stores.

Wednesday, silent night for: CHIC, CKNC, CNRA, CNRC, CNRE, CNRM, CNRR, CNRT, CNRV, KFAU, KFDM, KFEQ, KFMQ, KFXF, KGO, KLDS, KOB, KTAB, WBAL, WBBR, WCAD, WCBD, WEBW, WFAA, WGBS, WGCP, WGST, WHAR, WHAZ, WIP, WJAZ, WMC, WOAI, WOAW, WOI, WFG, WRC, WRCO,

Eastern Time Stations

Eastern Time Stations

CNRO, Ottawa, Can. (435), 7 p. m., children's halfhour, Aunt Bessie; 8, Chateau Laurier concert orchestra; 8:45, instrumental trio; Mrs. Stafford Salmon, contralto; Emile Richard, pianist; George White, tenor; Henri Davidson, violinist; Arthur Richard cellist; Chateau Laurier dance orchestra.

KDKA, Pittsburgh, Pa. (309.1), 7:15-8 a. m., morning exercises, O. Shannon, 5:45 p. m., KDKA Mailbox, Postman Dan; 6:30, dinner concert; 8:15, "Maintaining a Safe Milk Supply," Charles G. Ning; 8:30, concert, Griffo octet; harp soloist.

PWX, Havana, Cuba (400), 8:30 p. m., General Staff band, Captain Jose Molina Torres, leader.

WBZ, Springfield, Mass. (333.1), 6:30 p. m., KDKA Little symphony; 7:30, Radio nature league, Thornton W. Burgess; 8, Hotel Kimball dance orchestra; 8:30, motion picture talk, George M. A. Fecke; 9, S. A. I. sorority, New England Conservatory of Music; 9:30, Martha Carrington, pianist; 9:45, Irish songs, Francis O'Donnell; 10:05, Leo Reisman's Hotel Brunswick orchestra.

WCAP, Washington, D. C. (468.5), 6:45-7:45 a. m., Tower health exercises, WEAF; 7-11 p. m., program; Radio auction bridge game; Ipana troubadours, WEAF; musical program by Roxy and his gang.

WCAU, Philadelphia, Pa. (278), 6:45 p. m., Parodians dance orchestra; 8, health talk; 8:10, Papa Bailey and his bunch; 9, Rigo's Royal Gypsy band; 9:30, Jones'

ARKANSAS FIDDLERS THROUGH KFMQ

Wednesday, January 13

WWJ, Detroit, Mich. (352.7), 7:30-8 a. m., setting-up exercises; 9:30, tonight's dinner and special talk; 12:05 p. m., Jules Klein's Hotel Statler orchestra; 3, Detroit News orchestra; 6, dinner concert; 8, Detroit News orchestra and soloists; 9, dance program; 10, Roxy and his gang, WEAF.

Central Time Stations

CKY, Winnipeg, Canada (384.4), 7:30 p. m., CNRW

program.

CNRW, Winnipeg, Man. (384.4), 7:30 p. m., Aunt Aimee's bedtime story; 7:50, farmers' service talk; 8, musical program, Ft. Garry hotel orchestra, Irvine Plumm, director; 8:40, old time songs, Gate City quartet; Kathleen Daly, soprano; Emile Mignacca, violinist; 10, supper-dance program, Irvine Plumm and his Fort Garry hotel orchestra; Al Kilgour, soldies.

soloist,
KFAB, Lincoln, Nehr. (340.7), 5:30-6:30 p. m., dinner concert; 8:30-10:30, Belshaw's orchestra; Meraldine Schmidt, blues singer; Slick Merriam, planist and vocalist; Waikiki trio, Hawaiian entertainers; Ralph Hall, banjo and vocal soloist; Olive Fletcher and Ruby Teater, pianist; Wendell Hall, Red Headed music maker.

and Ruby Teater, planist; wenden Han, hed Headed music maker.

KFKX, Hastings, Nebr. (288.3), 1 p. m., "The Making of the Dairy Cow," C. H. Eckles; 5:30, KDKA dinner concert; 9, KFKX Lincoln studio.

KFNF, Shenandoah, lowa (266), 7 p. m., concert, Henry Field Seed company.

KFVE, University City, Mo. (240), 9:15 p. m., amusement review; Paul and Jack Snyder; Orchestra Romaine.

Romaine.

KMA, Shenandoah, lowa (252), 11:30-12:30, noonday rural program; garden talk, Earl E. May; music; 5:30, talk, G. H. Van Houten: 6-7, domestic science talk; Le Ona Teget; 9-11, program, Blockton public schools.

schools.

KPRC. Houston, Texas (296.9), 12 m., Lions' club luncheon program; 5:30 p. m., Uncle Judd's kiddles' hour; 7:30, Fatty Martin's End O'Main dance orchestra; Mark Westcott, vocal entertainer; 8:30, Rice Institute student band, Lee Chatham, director; 12 m., Lee's Owls; Rice Owls vocal trio.

KSAC. Manhattan, Kan. (340.7), 9-9:25 a. m., music, inspirational talks, agricultural primer, calisthenics; 9:55-10:25, readings, backyard gossip, question box, planning today's meals; 12:35-10:05 p. m., readings, question box; "Alfalfa Improves Hatchability of Eggs," J. H. McAdams; "Perennials for the Garden," A. J. Schoth; 4:30-5, basketball lecture; 6:30-7:30, sports, inventions; Extension credit course, "Agricultural Journalism"; Extension credit course, "Relation of Transportation to Agriculture," F. F. Frazier. KSD, St. Louis, Mo. (545-1), 7 p. m., fur hour program, Hotel Statler orchestra; 8, WEAF chain "Good Will" program, WEAF.

KSO. Clarinda, lowa (241.8), 12:30-1:15 p. m., farm talk; 7-7:30, Sellards orchestra; 7:30, music.

talk; 7-7:30, Sellards orchestra; 7:30, music.

KTHS, Hot Springs National Park, Ark. (374.8), 12:301 p. m., homefolks hour; 9-9:45, Lon Chassy, violinist; John G. Heyn, pianist; Edward Richter, cellist;
Toni Cochard, cornetist; Charles Garden saxophonist;
Lawson Reid, organist; 9:45-10:30, Southerners' dance

corchestra.

KYW. Chicago, III. (536), 6:30-7 a. m., morning exercises, Paul A. Leonhardt; 7:30, morning family worship, Y. M. C. A.; 11:35, table talk, Mrs. Anna J. Peterson, Peoples Gas company; 12:05 p. m., concert; 1, luncheon concert, Congress hotel; 6, dimer music, KDKA; 7:05, bedtime story, Walter Wilson; 7:30, music program, KYW; 8, musical program, Congress hotel; 10, midnight revue, KYW, Paul Ash and his orchestra, McVickers theater; 10:10-11:10. Sanders original Nighthawks; 12, Henri A. Keates, organlogue, McVickers theater; 1, Insomnia club, Congress hotel.

WAMD, Minneapolis, Minn. (243.8), 12 n. classical pro-

Congress hotel.

WAMD, Minneapolis, Minn. (243.8), 12 n., classical program: Stella Lenci, soprano, Donald Mensing, violin, Charles Sandberg, baritone, Grace Hawley, accompanist, Violet Tangren, contralto, Gladys Bell, accompanist; 7:01 p. m., Garrick theater symphony orchestra, Fred Heiseke, director; 7:05, talk; 7:10, Beata Hanson, violin, Mrs. Hanson, accompanist, William Erickson, tenor, Amy Hedbur, accompanist; Joy Nichols, soprano; 11, George Osborn's Hotel Radisson Skyrockets.

soprano; 11, George Osborn's Hotel Radisson Skyrockets.

WBBM, Chicago, III. (266), 4-6 p. m., Valentino inn orchestra; artists; 8-10, string trio; Moulin Rouge orchestra; 12-2, artists; Two Jays.

WBCN, Chicago, III. (266), 10-10:30 a. m., Penny Wise, the shopper's ready helper, shopping talk; 7-8, classical hour; Emily Stone, violinist; Ada Mae, tenor; Ethel Eaves Price, soprano; Alice McMalhon, contralto; Margaret McArthur, pianist; John Williams, baritone; 10-1 a. m., Elmer Jordan & Co., Owl matinee.

WCCO, Minneapolis-St. Paul, Minn. (416.4), 2 p. m., woman's hour; 2:30, afternoon concert; 4, readers club, Eleanor Poehler; 7, midweek church service; 8, Ipana Troubadours, WEA; 9, traffic safety talk, Nettie M. Strate; 10:05, Dick Long's Nankin cafe orchestra; 11:30, Eddie Dunstedter, organist.

WDAF, Kansas City, Mo. (365.6), 6-7 p. m., The Tell-Me-a-Story lady; address, Health Conservation association; address, Ralph E. Herrick; music, The Trianon ensemble, Hotel Muehlebach; 8-9, program, Mt. Washington, Mo; 9-10, classical program, Star's Hotel Muehlebach; Eddie Kuhn's orchestra, Kansas City Athletic club.

City Athletic club.



Boys tuning in for the 5:30 p. m. pacific time program Thursdays, at KGO, Oak-land, will be interested in this picture of George Ludlow, who is called "Friend to Boys."

WDOD, Chattanooga, Tenn. (256), 6:30-7 p. m., organ music, Tivoli theater; 7-8, Hotel Patten orchestra; 8:15, special features and program.

WEBH, Chicago, III. (370.2), 11:30 a. in., women's half hour; 3-4 p. m., special features; 7. Edgewater Beach Oriole orchestra, dinner concert; 8, Frank Greif, tenor; 9, Edgewater Beach Oriole orchestra, dance selections; Florence Behrend, soprano; 10, Frank Bordner, baritone; 11, Oriole orchestra, dance selections; Irene Beasley, "The Girl from Dixie"; 12:30, Howard Neumiller, planist; Florence Behrend, soprano; impromptu revue, Oriole orchestra.

WENR, Chicago, III. (266), 6-7 p. m., dinner concert, Rauland-lyric tric; vocal selections; Russell Hendrickson, cellist; 8-10, All-American Pioneers; L. Peterson, basso; Claire Gorska Geise; banjo solos; Archie Rawls, tenor; Art Bilquist, popular songs; Helen Hart; soprano; 12-2 a. m., midnight frolic, All-American Pioneers; twin piano duets; vocalists, pianologues.

WGES, Oak Park, III. (250), 5-7 p. m., Betty Bebb and Helen Cameron, vocal duc; McDevitt sisters, planists; Tiffin theater organ and orchestra; 8-9, Ethel Glese, soprano; Ruth Kalthoff, contralto; Peter Mathews, basso; John Stamford, tenor; Tiffin theater organ and orchestra; 11-1 a. m., Phillips twins, vocal duc and ukulele soloists; Tiffin theater organ and orchestra; Serenaders; Morris Hoffman, tenor.

WGN, Chicago, III. (302.8), 11-11:30, household hints; 11:30-12, discussion of fashions; 12-12:40, public service period; 12:40-2:30, luncheon concert, Drake concert ensemble and Blackstone string quintet; 2:30-3, Lyon and Healy artist series; 3-3:25, public service period; 5:30-5:37, Skeezix time; 6:30-7, dinner concert, Drake concert ensemble and Blackstone string quintet; 8-9, Roxy, WEAF; 9-10, popular program; 10-11, dance program.

program.

WHAD, Milwaukee, Wis. (275), 11 a. m., pianologue, Andy Hertel; the Housewife; 4 p. m., "With the Humorists," John R. Woife; Mrs. Marie Weiss, pianist; Linda Hering, saxophone; 6:15-7, Arthur Richter organist; 10:30-11:30, popular dance hits, Dexter's Wisconsin and Elger's Creole roof orchestras; 11:30-12:30 a. m., Edmund Fitch, organist.

WHAS, Louisville, Ky. (399.8), 1-2 p. m., concert, Barney Rapp's orchestra; 3-3:30, organ recital, Mrs. Myrtle Fulks Zahn, Jr., at the Alamo theater; 4-5, musical selections, Harry S. Currie, director, assisted by Leroy Hobb; readings, choice editorials; 7:30-8:30,

school; 1, Chicago Association of Commerce luncheon; 2, shut-in program; 4, recipes, Mrs. E. O. Hiller; 4:30, pupils, Cosmopolitan School of Music; 6, Chicago theater organ recital; 6:30, Georgene Faulkner; 8, lecture, Northwestern university; 8:30, musicale; 9, WMAQ players; 9:55, University of Chicago chimes. WMBB, Chicago, Ill. (250), 7-8 p. m., Trianon due; M. Matthews, contralto; program and talk on finance; 9-11, Trianon orchestra, Dell Lampe, Woodlawn theater orchestra, Armin F. Hand, Cecil and Esther Ward, Billie Allen Hoff, Scotty Welsh and Madison Sisters, popular program.

popular program.

WOAI, San Antonio, Texas (394.5), 3 p. m., musical program; 8:30-9:30, Army night, musical program, Ft. Sam Houston. WOAW, Omaha, Nebr. (526), 12:45 p. m., Phyllis Griswold organist

WOAW, Omana, Nepr. (326), 12:45 p. m., Phyllis Griswold, organist.

WOC, Davenport, Iowa (483.6), 12:15-12:25 p. m., "The Making of the Dairy Cow," Prof. C. H. Eckles; 3-3:30, Aunt Jane; 4-4:45, Fay Paarman, planist; A. E. Edwards, baritone; Bernard Munroe, violinist; 6:30-6:50, bedtime stories; 6:50-7, "Modern Method of Salting and Smoking Meat at the Same Time," Yewell Rice; 9-10, Erwin Swindell, organist; May Chembers sources.

of Salting and Smoking Meat at the Same Time," Yewell Rice; 9-10, Erwin Swindell, organist; May Chambers, soprano.

Wok, Chicago, III. (217.3), 5-7 p. m., Capitol theater organ; Ed Kemp, tenor; Bob Mokrejs, pianist; Bryce Talbot, baritone; 10-1:30 a. m., Bernie Cummins, Town club orchestra; Capitol theater program; Ned Miller, tenor; Harrief Lee, contralto; Herman Sinalko, violinist; George Allen, tenor; Bob Mokrejs, pianist, WOS, Jefferson City, Mo. (440.9), S. p. m., address: "What is the School Trying to Do?", Charles A. Lee, superintendent public schools; varies musical program, Lincoln university band; readings, Homer A. Harris, WOJ, Chicago, III. (447.5), 11-12 m., fish dinner, Frank Wendt; "The Middle Aged Woman," Dr. Lena K. Saddler; 3-4 p. m., "Cake for Dessert," Helen Harrington Downing; "Meat Substitutes," Jean K. Rich; 7-8, Ralph Williams and his Rainbo Gardens orchestra; program, Herman J. Techentine, baritone; 10-1 a. m., Ralph Williams and his Rainbo Skylarks; Melodians; Clarence Theders, tenor; J. Edwin Peterson, bass; George Thurn, kazoo soloist; Harry Kendall, guitarist; Thelma Pefferle, soprano; Joey Stool, tenor; Eddie Vogel, baritone; 1-2, Ginger hour.

WSAI, Cincinnati, Ohio (326), 7 p. m., chime concert, Robert Badgley; 7:15, art talk, Cincinnati Art club; 7:30, Davis saxophone octet, WEAF; 10, talk, Dean Herman Schneider, College of Engineering and Commerce; 10:15, program. The Congress playing card string quartet.

Lucile Phelan Bush, soprano, is shown here in one of the costumes she appeared in during a grand opera production at WBZ, Springfield. These opera programs are becoming very popular at this station.

are becoming very popular at this station.

program, Sante Fe Railway company. Old Timer's program with Uncle Remus, Gladys Blackwell Pickering, soprano and others; 10:30-11:30. Don Clark's Biltmore hotel dance orchestra.

KMTR, Hollywood, Calif. (238), 5-6 p. m., home hour with Mammy Simons and pupils Geraldine Kasal; 8-10, The Turner orchestra, Loren Powell, directing; Rondeau male quartet; 10-11, Starr Piano company studio.

KNX, Hollywood, Calif. (336.9), 5:30-6:15 p. m., Wurlitzer pipe organ studio; Town Tattler; 6:15, travel talk, W. F. Alder; 6:30-7, Atwater Kent. concent orchestra; 7-8, Ambassador hotel concert orchestra, Josef Rosenfeld, director; 8-9, program, Security Trust and Savings bank; 9-10, program, Security Trust and Savings bank; 9-10, program, Security Trust and Savings bank; 9-10, program, W. W. Rainey organization; 10-11, dance music.

KOAC, Corvallis, Ore. (280.2), 7:20 p. m., musical selections; 7:30, "Curtains and Draperies", Margaret Morehouse; 7:45-8, "How Do You Wash and Iron?" Mrs. Ethel Morgan.

KTAB, Oakland, Calif. (240), 9-9:30 a. m., prayer service, Rev. G. W. Phillips.

KWSC, Pullman, Wash. (348.6), 7:30-9 p. m.; Alary Elizabeth Turner, pianist; Yera Bohlke, vocalist; Gladys Anderson, violinist; "The Economic Value of the Poultry Industry", L. W. Cassel; "Investments No. 1", Joseph Demmery; "Beekeepers', Winter Work Important", B. A. Slocum; book reviews, Alice Lindsey Webb.

Thursday, January 14

Atwater Kent Program, January 10, over WEAF and Chain* Artists will be Paul Althouse, tenor, and Arthur Middleton, baritone.

Artists will be Paul Althouse, tenor, and Arthur Middleton, partione.	
I	
Aria from "Forza Del Destino"Verd	i
Althouse and Middleton	
TT	
"The Horn"	
Arthur Middleton	
III Galaridas Marrias	_
a. "Thou Art Risen"Coleridge Taylor	
b. "Hawaiian Love Song"	Ĺ
c. "Great Awakening"Xramer	
Paul Althouse	
IV	
"Largo Al Factotum" from "Barber of Seville"	i
Arthur Middleton	
V	
"O Paridiso!" from "L' Africaine"	ľ
Paul Althouse	
Tonnon or	1
a. "The King Went Forth"	
b. "Tally Ho"	2 1
c. Dainy Deever	1
Arthur Middleton	
VII	
"Cielo e Mar" from "La Gioconda"	1
_ I Wal III Duotoo	
VIII	
"Pearl Fishers"Bize	t
Althouse and Middleton	
*The WEAF chain for the Atwater Kent hour (9:15 p. m., eastern, 8:15 p. m.	
THE WEAF CHAIR FOR THE ACCOUNT OF THE PARTY	•

central time) includes WEAF (491.5), WGR (319), WCAE (461.3), WCAP (468.5), WJAR (305.9), WTAG (268), WGN (302.8), KSD (545), WCCO (416.4), WOC (483.6), WOO (508.2), WSAI (326), WEEI (348.6).

Burns. WHO. Des Moines, lowa (526), 6:30-7:30 p. m., Reese-Hughes orchestra: 7:30-9, Kate Miller, whistler; Maude Hughes, accompanist; Colored Ladies' quartet; artists, Capitol theater; Harry Lewis, popular soloist; Howard Chase, accompanist; 9-11, dance program,

Cotillion ballroom.

WHT, Chicago, III. (399.8), 10 a. m., Jean Sargent's program, woman's club. Borden health talk. Jelke Good Luck Girl studio music; 10:45 Betty Crocker home service; 11, special studio features; 12 p. m., Al Carney's complimentary organ hour; 1-2, special studio program, Grayling string trio; 6-7:30, chassical program, dinner organ recital, Pauline Sachs, Phyllis Burton, violinist; Pauline Peebles, pianist: Jean Carlson, soprano; Hugh Aspluwall, tenor; Grayling's string trio; 7:45-9:15 (238), musical features; 9:30 (399.8), Borden request organ recital, Hickey and Johnson, harmony; Carl Strudel, bartione; Leota Laabe, soprano; Irene Beasley, the Girl from Dixie; Northland trio; Vic Fredericks, bartione; Charles R. Hall, tenor; Badger Four male quartet; Ray Lawson, tenor; 12, Pat Barnes and Al Carney.

WIBO, Chicago, III. (226), 10-11, shoppers' bureau, Grace Viall Gray; 2-4 p. m., popular shut-in program; 6-8, dinner concert, Walter Preston; WIBO trio; Florence Osterman, contralto; Christopher Hendra, tenor; 10-12, popular program, Erwin Cornelius, Hicky and Johnson, Marie Wright, Lenore Friedman, Peaul Holzman, Prof. Black.

WLS, Chicago, III. (344.6), 12:30-1 p. m., Ford and Glenn; 6:30, Ralph Emerson, organist; 7, Ford and Glenn; 6:30, Ralph Emerson, organist; 7, Ford and Glenn; 7:15, WLS trio; 7:45, Rhodeheaver program; 8:15, WLS theater; 8:45, Borean church choir; 9:30, Ford and Glenn; 10, mid-week feature; 11, WLS circus.

WLW, Cincinnati, Ohie (422.3), 7:30 a. m., exercises, Cotillion ballroom. WHT, Chicago, III. (399.8), 10 a. m., Jean Sargent's

Ford and Glenn; 10, mid-week feature; 11, WLS circus.

WLW, Cincinnati, Ohio (422.3), 7:30 a. m., exercises, William Stradtman, Y. M. C. A.; 8, morning devotions, auspices of Parkway Y. M. C. A.; 12:05 b. m., Irene Downing, pianist; 3:30, Crosley Cooking school, Mrs. Ralph H. Auch; 4, shut-in program, William Duning; 7, dinner hour concert, Hotel Gibson, Robert Visconti, director; 7:30, talk; representative of the Ohio Farm Bureau federation; 7:40, Hotel Gibson concert; 8, Tenth Infantry band, Ft. Thomas, Ky., E. G. Fischer, director; 9, Cincinnati Zither players; 10, sixth in a series of pep concerts, Alpha Tau Omega fraternity; 10:30, The Trirdyn instrumental trio; 10:45, reading, Charles Meade; 10:55, The Crosley male quartet; 11:15, Crosley musical news, Johanna Grosse, organist; 11:40, pianologues, Carl Bamberger; 12, midnight request program, Johanna Grosse, organist.

WMAQ. Chicago, III. (447.5), 12:45 p. m., Radio farm

concert, Royal Peacock orchestra; Richard Kent, director, Myron Schulz, Lyst Reynolds, managers.

WHB, Kansas City, Mo. (365.6), 2-3 p. m., ladies' hour program, Morrell Moore, organist, 7-8, Milos Finely trio; "Starting around the World," Dr. James W. Fifield; Mona Motor Oil Caus; "My Golden Dreams," Don Anchors, poet; Automotive lesson, John Rurns.

Burns.

WSM, Nashville, Tenn. (282.8), 6:30 p. m., Francis Craig and his orchestra; 7, WSM bedtime story; 8, program, Joe Combs and artists; 10, studio program. WSU, lowa City, lowa (483.6), 9-9:30 a. m., high school assembly program; 12:30 p. m., Mrs. Edna L. Hostetler, soprano; "The Great Albatross Rookeries of Laysan", Prof. C. C. Nutting; 8, Mrs. Alexander Ellett... soprano

Mountain Time Stations

(OA, Denver, Cole. (322.4), 12:15 p. m., Rialto theater musicale; 6:27, National Farm Radio council talk; 6:30, Brown Palace string orchestra; 7:30, Book of Knowledge; 8, Co-operative club, boys' choir, E. H. Baxter Rinquest, director; Mrs. Nina Churcher Thomson, soprano; Mrs. Morris J. Krohm, contraite; William Wegener, tenor; Aeolian trio; Charles M. White. Scotch songs; First Baptist church quartet; talk, Herbert G. Brown.

Pacific Time Stations

KFI. Los Angeles, Calif. (467), 5:30-6 p. m., Examiner matinee; 6, nightly doings; 6:15, KFI's Socing California; 6:30, vest pocket program; 6:45, Radiotorial period; 7-7:20. Nick Harris detective story; 7:20-8, Emma Kimmel, soprano; Frank Barry, tenor; 8-9, program, Ventura Refining company, Ventura string quartet; 9-10, Examiner program; 10-11, Patrick-Marsh dance orehestra, Betty Patrick, soloist. KFOA, Seattle, Wash. (453.3), 6:45-8:13 p. m., Sherman Clay and company, studio program; 8:30-10, Tines studio program.
KFON, Long Beach, Calif. (232.4), 4:30-5 p. m., amusement bulletin; 6-6:30, organ recital, Brayton's theater; 8-9, Press-Telegram program arranged by L. D. Frey.
KFWB, Hellywood, Calif. (252), 5-6 p. m., children's

theater; 8-9, Press-Telegram program arranged by L. D. Frey.

KFWB, Hellywood, Calif. (252), 5-6 p. m., children's hour, Big Brother of KFWB; 7-7:30, Mutual Motors mirth contest; 7:30-8, microphone brevittes; 8-9, program, Check-Neal Coffee company, Maxwell House Coffee string quartet, Harry Jackson, leader; Lee Kent and her terapach, Charles Beauchamp, tenor; 9-10. Studio program of popular nature; 16-11, Warner Brothers frolic, direction Charlie Wellman, KGO, Oakland, Calif. (361.2), 3-4 p. m., Zilpha Allen, pianist; speaker, Williams institute; Frona Simon Sousa, soprano; California serenaders; 4-5:30, concert orchestra, Hotel St. Francis; 6-6:55, dinner concert, Sherman, Clay and company studio.

KGW, Portland, Ore. (491.5), 7:15 a. m., physical culture exercises; 10:30, shopping guide; 12:30-1:30 p. m., Bose city trio; 6-7, dinner concert; 8-9, Western Auto Supply company; 10-11, Sherman, Clay and company.

KHJ, Los Angeles, Calif. (495.2), 6-6:30 p. m., Leighton's Arcade cafeteria orchestra, Jack Cronshaw, leader; 6:30-7:30, history story, Prof. Hertzog; Dick Winslow, juvenile reporter; Mickey McBan, Billie Winslow, juvenile reporter; Mickey McBan, Billie Moore, Vivian Marple, Camillia Johnson, Uncle John; 8, Dr. Mars Baumgardt, scientific lecturer; 8:30-10:30.

I	Headline	ers Today	7
Eästern		Mountain	Pacific
8 p. m.	7 p. m.	6 p. m.	5 p. m.
WBAL (246)	Peabody Co	inservatory of	Music.
9	8	7	6
WBZ (333.1)) Patriotic p	rogram.	
10	9	8	7
		request numbe	
KGO (361.2)	· Aahmes Te	mple Shrine b	and.
KYW (535.4) Evening at	home.	
11	10	9	8
KHJ (405.2)	Castellamar	e program.	
WJAZ (322.4	l) Classical	program.	
12 m.	11	10:	9
KFI (467)	Chickering I	Iall program.	
WLS (344.6)) Press ball.	- 22	100
la.m.	12 m,	11	10
WRR (246)	Melba theat	er.	
1			

Thursday, silent night for: CHIC, CKNC, CNRA, CNRE, CNRO, CNRR, CNRT, CNRV, CNRW, KFAB, KFAU, KFDM, KFEQ, KFMX, KFOA, KFUO, KFVE, KFWA, KGW, KLX, KOA, KOAC, KOB, KWSC, PWX, WAFD, WAHG, WCAP, WCEE, WDOD, WEAO, WEBJ, WEBW, WHAD, WHAZ, WJJD, WLIT, WOAI, WOR, WSM, WSUI, WTAM.

Eastern Time Stations

CNRM, Montreal, Canada (411), 8:30 p. m., University of Montreal night; vocal quartet; recitation, C. Sutton; Carabin chorus; J. P. Raymond, cellist; H. Gibeault havitone; musical quartet; address, Dr. J.

Gibeault, baritone; musical quartet; address, Dr. J.

KDKA, Pittsburgh, Pa. (309.1), 7:15, 8 a. m., exercises, O. Shannon; 5:45 p. m., Uncle Ed; 6:30, dinner concert, KDKA Little symphony orchestra, Victor Saudek, conductor; 8:15, farm program, Stockman Farmer studio; 8:30, With Famous composers, Eduard Hagerup Grieg, Richard Kountz and the KDKA Little symphony orchestra, Victor Saudek, director; 9, Fred Lotz, planist; Little symphony orchestra; 11, Pittsburgh Post midnight revue.

chestra, Victor Saudek, director; 9, Fred Lotz, planist; Little symphony orchestra; 11, Pittsburgh Post midnight revue.

WBAL, Balitmore, Md. (246), 6:15-6:45 p. m., "Picd Piper of Hametin" and ether stories illustrated with songs, Hazel Knox; 6:45-7:45, dinner program, WBAL orchestra, Robert P. Iula, conductor; 8-10, musical program, Peabody conservatory of music.

WBBR, New York, N. Y. (272.6), 8 p. m., Watchtower instrumental trie; 8:10, Stanley Gohlingherst, baritone; 8:20, International Sunday school leason, S. M. Van Sipma; 8:40, Stanley Gohlingherst, baritone; 8:50, Watchtower instrumental trio.

WBZ, Springfield, Mass. (333,1), 6:30 p. m., KDKA Little symphony; 7:30, Hotel Lenox ensemble; 8, Edwin J. McEnelly and his orchestra; 8:30, Anthony B. Valentine, banio-guitarist; George Nicholson, bapiomandolinist; 8:45, Helen D. Porter, soprano; 9, patriotic program, Noves-Buick company; 10:35, Edwin J. McEnelly and his singing orchestra.

WCAP, Washingten D. C. (468.5), 6:45-7:45 a. m., Tower health exercises.

WCAU, Philadelphia, Pa. (278), 6:30 p. m., Billy Hayes and his Cathay Tea Garden dance orchestra; 7:30, recital, N. Snellenburg and company; 8, Mitchell Gondians; 8:15, Elizabeth Lapatina, coloratura coprano; Michael Fonticoli, tenor; 9:30, Musical Chefs; 9:45, lessons in horseback riding, Professor Declittle; 10, Sesons in horseback planting professor Declittle; 10, Sesons in horseback riding, Professor Declittle; 10, Sesons in horseback riding, Professor Declittle; 10, Sesons in horseback riding, Professor Declittle; 10, Sesons in horseback riding professor Declittle; 10, Sesons in ho

11:30, Club Cadix revue.

WGX, Detroit, Mich. (516.9), 6 p. m., dinner concert.

Book-Cadillac hotel; 8, studio concert.

WEAF, New York, N. Y. (491.5), 6:45-7:20 a. m.,

Tower health exercises, WEE1, WCAP; 11-11:10,

musical program; 11:10-11:25, talk; 11:25-11:30, music;

11:30-12 n., lecture, "Cookery," Columbia university; 6-7 p. m., dinner music, Hotel Waldorf-Astoria;

7-7:30, mid-week hymn sing, ausnices of Greater New

York Federation of Churches; 7:30-8, Smith brothers;

Thursday, January 14

Central Time Stations

AN EVENING AT HOME WITH THE LISTENER IN IN CENTRAL TIME

8-8:30, The Larkinites, WGR, WOC, WFI, WWJ,				IIA	CENT	KAL I	IIVIE.				K
WCAE, WCCO, WSAI, WTAG, KSD; 8:30-9, Hire's Voyageurs, WEEI, WTAG, WCAE; 9-10, Clicquot Club Eskimos, WEEI, WJAR, WTAG, WFI, WCAE, WSAI,	===										K
WEAR, WGR, WWJ, WOC, WCCO, KSD: 10-11, Sil-	Call AT9	-	Met. 435	Silent	Sunday 5:00- 6:00	Menday Silent	Tuesday	Wednesday		Friday	
vertown Cord orchestra, direction of Joseph Knecht, WEEL, WSAI, WGR, WWJ, WCCO, WOC, WFI, WCAE WARR WATC WAG, KSD-11-12 Win		Calgary, Alta	434.5	11:00- 1:00	Silent	Silent	Silent Silent	Silent Silent	7:00-8:55 9:00-10:00	Silent	К
WCAE, WJAR, WADC, WTAG, KSD; 11-12 m., Vincent Lopez and his orchestra direct from Casa Lopez. WEAR, Cleveland, Ohio (389.4), 11 a. m., home service	CKAC	Edmonton, Can 5 Montreal, Que 4		10:00-12:00 6:30-10:00	8:30-9:30 Silent	Silent	6:30-10:00		10:00-12:00 7:30-10:00	3:00-12:00	K
talk; 11:30, farm talk; 7 p. m., Hotel Statler concert	CKNC		356.9 384.4	7:00-11:00 8:00-11:00	Silent 7:00-10:00	7:00-11:00 8:00-12:00		Silent 7:30-11:00	Silent 8:30-11:00	Silent	"
orchestra, direction, Maurice Spitalny; 8, Larkinite Four, WEAF; 8:30, studio program; 9, Cliequot club, WEAF: 10, Vincent Program; 9, Cliequot club,	CNRO	Ottawa. Ont	134.5	7:30-12:30	Silent 9:24-10:54	Silent Silent	Silent 9:24-10:54	7:30-12:30	Silent.	Silent Silent	
WEAF; 10, Vincent Percy, organist; assisting artists. WEEI, Boston, Mass. (348.6), 7:45 a. m., morning watch	KDKA	THE STATE OF THE S	480	Silent 5:30- 8:55	3:00- 7:45	5:30- 8:55	5:30-11:35	T 	Silent 5:30-11:00	9:24-10:54	
from Estey organ studio; 3, Lou Klayman and his or- chestra; 6, Dok Eisenbourg and his Sinfonians; 6:45,	KFAB	Lincoln, Nebr	309.1 340.7	5:30-9:30	4:00- 5:00	5:30-10:30	5:30-10:30	5:30-10:30	Silent	5:30-8:55 5:30-10:30	
Big Brother club; 7:40, Harvard observatory talk, "Relativity"; 8, Larkinites, WEAF; 8:30, pop concert,	KFD M KFI	Document Chasis	315.6 467	Silent 8:00- 5:00	8:00- 9:00 6:00- 1:00	Silent 8:00-1:00	8:00-10:30 8:00- 1:00	8:00-1:00		8:00-10:30 8:00-1:00	
Goodrich Zinners. WEAF; 10.	KFKX KFMQ	Hastings, Nebr 2	88.3	5:30- 6:30 Silent	Silent Silent	9:00-11:00 7:30- 8:30			7:00-8:00 8:00-9:00	9:00-11:00	
WFI, Philadelphia, Pa. (394.5), 10 a. m., menu talk; 19:30, solos; 1 p. m., tea room orchestra; 3, Emer-	KFMX	Northfield, Minn.	337	Silent	7:00- 8:00 6:30- 8:30	Silent	9:30-10:00	9:00-10:00	Silent	10:00-11:00	
son club; 6:30, Bellevue-Stratford hotel concert orchestra; 7, Bellevue-Stratford hotel dance orchestra; 8,	KFNF KFOA	Shenandoah, Ia4	266 54.3	7:00- 9:00 10:30- 1:30	Silent	8:45-12:00	8:45-12:00	8:45-12:00	Silent	7:00- 9:00 8:45- 1:30	
The Larkinites; 8:30, Hire's Voyageurs; 9, Clicquot Club Eskimos; 10, Silvertown Cord orchestra.	KFVE	St. Louis, Mo 5	545.1	Silent 9:15-10:15	8:15- 9:15 Silent	9:15-10:15	Silent 9:15-10:15	9:15-10:15 9:15-10:15	Silent Silent	Silent	1
WGCP, New York, N. Y. (252), 12:30 p. m., race results; 3, Elvina Rosa Geiger, concert pianist; 3:15,	KFWB		240 252	9:45- 2:00	11:00- 1:00	9:00-2:00 8:00-12:00	9:00- 2:00	9:00~ 2:00		9:15-10:15 9:00- 2:00	1 "
Miriam Davis and Frank Gallasi; 3:30, Harold Glear, Whistler; 3:45, Doris Freeman, songs; 4:05, Sammy	KGO	Oakland, Calif 3 Portland, Ore 4	61.2 191.5	10:00- 2:00 8:00- 2:00	5:30-11:30 9:25-12:00	8:00-11:00	8:09- 1:00 8:00- 2:00	8:00-1:00	8:00-10:00	8:00-10:09 11:00-12:30	1.
Fair and Artie Dunn; 4:15, Gertrude Greenblatt, violinist; 4:30, Sylvia Schatz, elecutionist; 4:45, Bert	KHJ	Les Angeles, Calif. 4		8:00- 1:00 Silent	8:30-12:00 4:00- 5:00	Silent 9:00-10:00	8:30- 1:00 Silent	9:00-10:00	8:00- 3:00 Silent	8:00-1:00 9:00-10:00	l w
Bert Dixon, baritone: 9-9:30. Strickland's orchestra	KJR KLDS	Seattle, Wash	84.4	10:30-13:00 8:00- 9:00	9:15-11:00 6:30-10:00	9:00- 1:00 Silent	10:30-12:00 8:00- 9:00		10:30- 2:00 8:00- 9:00	10:30- 1:00	
9:30, Picotti and Val, songs; 9:45, Judith Roth, soprano; 10, program; 10:30-11, Strickland's orchestra;	KLX		40.9 08.2	Silent	Silent	10:00-12:30	Silent	10:00- 1:30	Silent	Silent 11:45-12:30	
11-11:30, Connie's orchestra. WGR, Buffalo, N. Y. (319), 2:30 p. m., WGR's after-	KNX KOA	110113 WOOD, Outiling	36.9 22.4	8:15- 4:00 10:00-12:00	4:00-12:30 4:00-9:45	8:15- 2:00 7:30-10:00	8:15- 2:00 7:30- 9:30	8:15- 1:00 7:30-12:00	8:15- 1:00 7:30- 8:30	8:15- 2:00 7:30-10:00	
orchestra, Harold Gieser, director; 8, jointly with	KOB	State College, N.M. 3	48.6	Silent	Silent 7:00-12:00	8:30- 9:30 6:30- 2:00	Silent 6:15-12:00	Silent	Silent	Silent	1
Eskimos, and the Silvertown Cord orchestra, Joseph	KOIL KPO	San Francisco, Cal. 4	278 28.3	6:15- 3:00 8:35- 2:00	7:00-12:00	8:40- 1:00	8:15- 1:00	8:15- 1:00	8:15- 1:00	6:15-12:00 8:30- 1:00	1
Knecht, director. WHAR, Atlantic City, N. J. (275), 2 p. m., Seaside	KPRC KSD	Houston, Texas 2	96.9 45.1	7:30-12:00 7:00-10:00	7:30-10:30 6:15- 9:15	7:00-12:00	6:55-10:00	7:30-12:00 7:00- 9:00	6:55-10:00	Silent 7:00-10:00	W
hotel trio; 7:30, lecture period; 8, Seaside hotel trio; 9, vocal and instrumental concert; 11:30, dance orchestra.	K8L KTAB	Salt Lake City, Ut. 2	99.8 240	9:00-12:00 Silent		9:00-12:00 10:00-12:00			11.00 0.00	10:00-12:00	1
WHN, New York, N. Y. (361.2), 12:30-1 p. m., Lexington organ recital; 3:15-4:30, Lexington orchestra; 7-	KTBI KTCL	Los Angeles, Calif. 2		Silent Silent	9:15-11:30 8:10-11:10		10:00-11:00	Silent Silent	10:00-11:00 Silent	NATURE OF THE PROPERTY OF THE	1
7:30, Vincent Lopez Iceland orchestra; 7:30-8, Ciro's orchestra; 8-8:30, Will Oakland's Chatheau Shanley;	KTHS	Seattle, Wash 3 Hot Springs, Ark 3		9:00-11:00	9:00-11:30	9:00-11:00		9:00-11:00	9:00-11:00	9:00- 2:00 9:00-11:00	
8:30-9, Sans Gene orchestra; 9:30-10:30, standing by for DX; 10:30-11, Club Kentucky orchestra; 11-11:30,	KTW KWKH		455 261	Silent 9:00-12:00	9:00-11:30 Silent	Silent 10:00- 3:00	Silent 9:00-12:00	Silent Silent	Silent 8:00- 9:00	Silent	w,
Joe Ward's Swanee orchestra; 11:30-12, Bob Murphy's orchestra; 12-12:30 a. m., Ted Lewis and his orchestra.	KWSC KYW	Puliman, Wash 3	48.6	Silent 7:00-10:00	Silent 4:00- 8:00	9:30-11:00 Silent	Silent 7:00-12:30	9:30-11:00 7:00- 1:30	Silent 7:00-12:30	Silent 9:30-11:00	
wip, Philadelphia, Pa. (508.2), 6:45 a. m., setting-up exercises; 7, setting-up exercises; 10, menu talk. Mrs.	NAA	Radio, Va4	35.4	Silent	Silent Silent	6:45- 7:00 Silent	6:45- 7:00		6:45- 7:00	7:00- 1:30 6:45- 7:00	
Anna B. Scott; I p. m., Gimbel tea room orchestra; 3, recital; 6:05, Piccadilly Cafe dance orchestra; 7.	WAHG	Richmond, N. Y 3.	400 15.6	7:30-10:00 11:00- 1:00	Silent	6:30- 1:00	Silent Silent	6:30-11:00	Silent Silent	Silent 7:00-10:00	W
Uncle Wip's bedtime stories; 8, talk; 8:15, recital; 10:05. Pagoda Cafe dance orchestra.	WBAP	Fort Worth, Tex 4	246 75.9	Silent 7:30-8:30	5:00-12:00	5:45- 9:00 6:00-12:00	6:30-7:30 6:00-10:45	6:00-12:00	5:45- 6:45 6:00-10:45	4:30-5:00 6:00-10:45	1 7
WJR, Pontiac, Mich. (516.9), 7 p. m., Jean Goldkette's Petite symphony orchestra: 7:30. Ide and Megianity:	WBAR	Sisiht, Wis	406	Silent	8:00-2:00	9:00-10:00	Silent 8:00-12:00	8:00- 9:00 8:00- 2:00	7:30- 8:30	Silent	Ì
 Jean Goldkette's serenaders; 11, Jean Goldkette's Victor Recording orchestra. 	WBBR	Staten Island, N. V. 2	226 72.6	8:00- 1:00 7:00- 9:00	8:00- 9:15		Silent	Silent	8:00-12:00 7:00- 8:00	8:00-10:00 Silent	;
WLIT, Philadelphia, Pa. (394.5), 12:02 p. m., daily almanae; Arcadia Cafe concert orchestra; Stanley the	WBCN	Chicago, III	266	9:00- 1:00 5:30- 9:00	7:00- 8:00	5:00- 9:15	5:00- 9:1 5	8:00-12:00 5:00- 9:15	5.00- 9:15	9:00- 1:00 5:00- 9:15	j
ater organ recital; 2, Arcadia Cafe concert orchestra; 7:30, Dream Daddy's bedtime stories.	WCAE		61.3	7:30-8:30 Silent	5:30- 7:20 3:00- 9:15	7:30-11:00 5:00-10:00	7:00-10:00 Silent	6:00-10:00	8:00-10:00 Silent	7:00-8:30 6:00-11:00	
WLWL, New York, N. Y. (288), 9-9:30 p. m., duets, H. P. Chatfield and Emma Burkhardt; 9:50-10:15, to be announced; 10:15-10:35, "Psychoanalysis," Rev. C.	WCAU	Philadelphia, Pa	278	Silent		7:00-10:30 Silent	6:30-10:30 8:00-10:30	5:45-11:00 Silent	5:30-10:00 8:00-10:30	6:30-10:30	\$
Bruehl; 10:35-11, Marina Maresi, soprano. WMCA, New York, N. Y. (340.7), 6-6:30 p. m., Olcott	WCCO	Zion, III	16.4	Silent 6:15-11:05	4:10- 8:15	6:30-10:00	6:15- 9:30	7:00-12:30	7:00-11:05	Silent 6:15-11:05	w.
Vail and his Hotel McAlpin string ensemble; 6:30-7, Frank Gebbia's orchestra; 7-7:20, Jack Cohen, pianist;		Detroit, Mich 5 Kansas City, Mo 30	16.9	5:00- 5:00 6:00- 1:00	Silent 4:00- 4:45	5:00- 8:00 6:00- 1:00	5:00- 1:00 6:00- 1:00	6:00- 1:00	5:00- 8:00 6:00- 1:00	5:00-10:00 6:00- 1:00	j
7:20-7:23, Pace institute program; 7:23-7:30, Jack Cohen: 7:30-8, Lanson's orchestra: 8-8:30, Hale and	WDWF	Providence, R. I 44 New York, N. Y 49	40.9	Silent 5:00-11:00	Silent 1:00- 9:15	Silent 5:00-11:00	7:30- 8:30 5:00-11:00	Silent 5:00-11:00	Silent 5:00-11:00	Silent 5:00-11:00	8
Hearty, the Health Boys; 10-10:10, "How to Drive Automobiles," Harry Rainess; 10:30-11, Jack Smith,	WEAD	Columbus, Ohlo 29	3.9	Silent 6:00-12:00	Silent 6:00- 9:15	Silent 7:00-11:00	Silent 6:00-9:00	7:00- 8:00 6:00- 7:00	7:00- 8:00 6:00-10:00	Silent	w
whispering baritone; 11-12, Ernie Golden and his Hotel McAlpin orchestra; 12-1 a. m., Broadway night.	WEBH	Cleveland, Ohio 38 Chicago, Ill	78.2	7:00- 2:00	5:009:00 Silent	Silent	7:00- 1:00 7:00- 9:00	7:00- 1:00 7:00- 9:00	7:00- 1:00 Silent	6:00-10:00 7:00- 1:00	8
WNYC, New York, N. Y. (526), 7:10 p. m., dance program; 7:35, dance program; 8:30, concert program;	WEEL	New Yerk, N. Y 27 Boston, Mass 34	18.6	Silent		Silent 7:30- 9:00	7:00-10:00	7:00-10:00	7:00-10:00	7:00- 8:00	
10:10, Sydney N. Ussher, lecture. WOO, Philadelphia, Pa. (508.2), 11 a. m., organ reduction of the control of	WENR	Chicago, III 2	66 75.9	6:00- 2:00 6:30-11:00	2:00-11:30	Silent 6:30- 9:30	6:00-10:00 6:30-12:00	6:00- 2:00 Silent	6:00-10:00 6:30-12:00	6:00-2:00	į
cital; 12 n., Golden's Crystal tea room orchestra; 4:45, organ recital; 7:30, Hotel Adelphia French room orchestra.	WEBH	New York, N. Y 27	72.6	10:30- 1:00	4:00- 7:00 1 6:30- 7:30	.0:30- 1 :00 1	0:30-11:00 7:00-11:00	10:30- 1:00 Silent	10.00 1.00	6:30- 9:39 10:30- 1:00	1
WOR, Newark, N. J. (405.2), 6:15 p. m., "Words Often Mispronounced"; 6:30, sports, Bill Wathey; 6:45,	WGB8	New Yerk, N. Y 31	94.5 15.6	7:00-8:30 5:00-10:30	7:00-8:00		5:00-10:30	5:00- 7:30	5:00-7:45	Silent Silent	1
Jacques Jacobs' Hotel Shelton ensemble; 7:30, Newark evening news.	WGCP		78 52	5:30-12:00 Silent	7:00-10:15	5:30-12:00 7:00-10:00	5:30-12:00 Silent	5:30-12:00 7:00-10:15	Bilent	5:30-12:00 7:00-10:00	W!
WPG, Atlantic City, N. J. (299.8), 1:30 p. m., Hotel	WGES	Oak Park, III 2	250 166	8:00-1:00 5:00-12:00	5:00- 7:00 Silent	5:00-7:00 5:00-12:00	5:00-1:00 5:00-12:00	5:00-1:00 5:00-12:00	5:00-1:00 5:00-12:00	5:00-1:00 5:00-12:00	wi
Morton luncheon music; 4:30, Chalfonte-Haddon hall afternoon tea music; 6:30, Billy Rocap, sporting events; 6:45, organ recital, Arthur Scott Brook; 7, Hotel	WGHP		70	Silent 6:30-11:00		6:00- 8:00 6:30- 7:00	6:00- 8:00 6:30-11:00	6:00- 8:00 6:30-11:00	8:00-10:00	8:00-10:00 6:30-11:00	1 4
Ambassador dinner music; 8, world wonder excursions, Alfred James P. McClure; 8:15, concert; 10, program;	WGR	Buffalo, N. Y 3	319	Silent 8:00-11:00	6:45- 9:15	7:30-12:00 5:30- 7:30	7:00-10:00 6:00-10:00	7:00-12:00 Silent	7:00-10:00	7:45-12:00	w
10:30, Karl Bonawitz, piano recital; 11, Silver Slipper supper club; Eddie McKnight's dance orchestra.	WHA	Schenectady, N. Y. 37 Madison, Wis 53		Silent		7:30- 9:00	Silent	7:30- 9:00	Silent	6:15- 9:30 7:30- 9:00	7
WRC, Washington, D. C. (468.5), 10 a.m., women's hour; 12 m., organ recital; 1 p. m., Hotel Mayflower orchestra; 6, Hotel Hamilton orchestra; 7, Shore-	WHAR	Atlantic City, N. J. 2	275 275	Silent 6:30-9:30		6:15-10:00 6:30- 9:00	6:15- 7:00 6:50-12:15	6:15-12:30 Silent		6:15-10:00 6:30-12:15	Ï
hame hotel orchestra, W.IZ; 8, concert, U. S. Army band, W.IZ, WGY, WCAD; 9, Royal Salon orchestra,	WHAS	Louisviile, Ky 39	99.8 7 9. 5	7:30- 9:00 Silent	4:00- 5:00			7:30-9:00 Silent	T.20 0.00	7:30-9:00	wi
WJZ, WGY, WCAD; 10:30-11:30, Meyer Davis' Swange orchestra.	WHB	Kansas City, Mo 36		Silent 6:30- 9:00	8:00- 1:00 4:00- 4:30	7:00- 8:00	Silent	7:00- 8:00	8:00-10:30	Silent 7:00- 8:00	E
WREO, Lansing, Mich. (285.5), 6-7 p. m., Speed-Wagon serenaders; Gold Standard ensemble; 8:15, Reo Broad-	WHO	Des Moines, la 5	526	Silent	7:30- 8:30	7:30-12:00	7:30-12:00	6:30-11:30	7:30-12:00	6:30-11:30 7:30-12:00	b
casting orchestra; Reo string quartet; Leland C. Cooke, clarinetist; Accelerator male quartet.	WIBO		26	6:00- 8:00	12:00-10:30 6:00-12:00	Silent	6:00- 2:00	6:00-12:00	6:00- 2:00	7:00- 1:00 6:00- 2:00	W}
wrva, Richmond, Va. (256), 8:10 p. m., program of music, Mrs. E. J. Wright, soprano soloist, male	WJAR	Previdence, R. I 30	18.2 15.9	5:05-11:05 Silent			5:05-10:30 6:30- 9:00			5:05- 7:00 7:00-11:00	WH
quartet violinist and pianist; 9:15, program, auspices of University of Richmond; Westhampton college	WJAS	Pittsburgh, Pa 27 Chicage, III 52	75.3	6:00-11:00 Silent	Silent Silent					6:00-11:00	p f
chorus; Richmond college quartet; speaker; university band; 11, Carry Me Back to Old Virginny. WTAG, Worcester, Mass. (268), 10:30 a. m., musical	MIID	Meescheart, III 37		6:00-12:00 6:00-11:30	7:45-11:00	Silent	6:00- 1:00	6:00-11:00	0.00 1 00	Silent 6:00- 1:00	b
sciections: 10:45; talk, Mariorie Woodman: 12:05-24	WJY		5.2	Silent	7:15-8:15	Silent	6:00- 9:00 7:30-10:15	Silent	7:30-9:00	6:00-8:00 7:45- 8:45	V V
p. m., noonday luncheon music, WTAG orchestra; 4:30, entertainment; 5:15, "The Twinkle Twinkle Story Teiler"; 7:45, nature talk, Esther Cunningham Averill;	WKAQ	San Juan, P. R 34	0.7	6:00-10:30 Silent	Silent	7:15- 8:15 Silent	Silent	6:00- 8:00	Silent	7:15- 9:45 Silent	j
8-8:30, the Larkinites, WEAF; 9-10, Clicquot Club Eskimos; 10-11, the Silvertown Cord orchestra.	WKRC	Cincinnati, O 42:	2.3 1	1:30- 1:00 0:00-11:00	6:45-11:00	6:15- 8:00 6:00-12:00 1	0:00-12:00	8:00-10:45	8:00-10:00	6:15- 8:00 Silent	1:
WTAM, Cleveland, Ohio (389.4), 12:15-1:15 p. m., Austin Wylie's Golden Pheasant orchestra: 6-7. Guy	WLIT	Chicago, III		7:00-12:00 6:30- 7:30	7:00-8:00	Silent	7:00- 1:00			7:00-1:00 6:30-10:00	WÎ b
Lombardo and his Royal Canadians; 8-10, City of Cleveland program; 10-11, Hollenden hour; 11-1 a. m.,	WLS C	Chicago, III	4.6 2.3	7:45- 1:00	6:30- 7:55	Silent	7:00- 8:00	7:00-11:30		7:00-11:30 Silent	6 0
	WLWL	New York, N. Y 28	8.3	Silent	6:00- 7:00	7:00- 9:00	Silent	Silent	7:00-9:00	Silent	W.
WWJ, Detroit, Mich. (352.7), 9:30 a. m., tonight's din-	WMAQ	Chicago, III 44	7.5	6:30- 9:00 8:00-10:00	Silent	7:00- 9:00 Silent	8:00-10:15	6:30- 9:00 8:00- 9:45	7 -00-11 -00	8:00-9:00 8:00-10:15	E 8
Statier orchestra; 3, Detroit News orchestra; 6, din-	WMBF	Chicago, III	4.4	6:00-11:00		2.00-11.00	0.00-11.00	0:00-11:00	7:00-11:00 6:00-11:00	7:00-11:00	WL B
Central Time Stations	WMCA !	New York, N. Y. 34	9.7	7:30~ 9:30 8:00-12:00	Silent 6:00- 9:00 8		7:30-12:00	Silent	7:30- 9:30	7:30-12:00 7:00-10:45	si P
CKY, Winnipeg, Can. (384.4), 10 p. m., dance program, Cliff Menzies and his Collegians.	WNAC	39ston, Mass 28 New York, N. Y 5	0.2				7:00- 9:00 3:10- 9:30	7:00- 9:00	7:00- 9:00 7	7:00- 9:00 6:30- 9:30	WĹ
ing—Some High Points in Successful Culture." John	WOAL	San Antonio, Texas 39.	4.5	Silent	7:45-8:45	Silent	3:30-10:30	8:30- 9:30	Silent 8	8:30- 9:30	a)
KFMQ, Fayetteville, Ark. (299.8), 8 p. m., "Civic	WOAW		26	6:00-13:00	9:00-10:00	3:00-11:00	3:00- 1:00	Silent	6:00-10:00	9:00-10:00 6:00-10:00	Ϋ 7.
I A Diology of the Dynaman of the toronte D	WOC I	Davenport, Ia 48	40 5.6		8:30-10:30 6:30-11:45	Silent Silent	Silent 3:30-11:15	Silent 6:30-10:00	Silent 6:30-12:00	Silent 6:30- 9:45	d: 7
The latest	WOK	fomewood, III 21: Philadelphia, Pa 50:			6:30- 8:30 5:00- 6:00		0:00- 1:00 1	0:00- 1:00 1	0:00- 1:00 10	0:00- 1:00	10 in
Cracker.	woo it	Cansas City, Mo. 27 Lewark, N. J 40	78		7:00- 7:45	Silent	3:00-9:00	Silent	7:00-9:00	6:30-11:00 Silent	Ci Ci
KFNF, Shenandoah, Iowa (266), 7 p. m., concert, Hop-kins, Mo., J. Max Davis director.	WORD	Batavia, III	75	8:30-10:30	6:45- 8:00	Silent	3:30-10:00		8:30-10:00 8	8:30-10:30	W M
KMA, Shenandoah, Iowa (252), 11:30-12:30 p. m., noon-day rural program; May's flower lady. Lina Ferguson:	WPG A	tlantic City, N. J 29	9.8	6:00-11:00		3:00-11:00	7:00-11:00		7:00-11:00 €	8:00-10:00 6:00-11:00	We ki
music; talk; Earl E. May; 4-5, talk, G. H. Van Houten; 6-7, program for Garden club of Parsons; 9-11, Del-	WRC Y	Shicago, III44; Vashington, D. C., 46;	8.5	7:00- 3:00 5:00-12:00	7:00-10:00 Silent	Silent Silent	5:50-12:00	7:00- 2:00 : 5:00- 6:00 (7:00- 2:00 7 5:00-10:00	7:00- 2:00 Silent	Ci G
KPNG, Houston, Jexas (296.6), 12 m. book talk Tulia le	WREO L	ansing, Mich 28. arrytown, N. Y 27	5.5	5:00-11:00	6:00- 7:00 8	6:00- 6:00	5:00- 8:15	5:00- 6:00	5:00-11: 30	Silent	Gr gr W M
Blanchard's dance orchestra; 8:30, studio concert.	WSAI C	incinnati, 0 325	5.0	7:80- 9:15	7:45-10:15	:00-12:00	3:30-10:30	0:00-12:00	7:00-10:00	Silent	47 m 9-
9:55-10:25, readings, backyard gossin question box	wsm N	tianta, Ga	2.8	7:15-11:00	7:30- 9:15 8 7:30- 8:30 7	1:00-11:00	Silent	0:45-12:00 8 7:00-11:00	Silent	8:00-12:00 811ent	te: Tr
talks, question box: "Are You Maintaining Your Said	wsu: I	lew Orleans, La 31 ewa City, Ia 483	.6	8:30-10:30 Silent	Silent 8 9:15- 9:45 7	30-11:30 30-8:30	Silent	8:30-10:30 8 7:45- 8:45	Silent		TO W M
Fertility", E. B. Wells; "Opening the Accounts for 1926", L. N. Chapman; 4:30-5, Botany; 6:30-7:30	WTAG Y WTAM C	Vorcester, Mass 26 leveland, O	8).4	Silent 5:00-11:00	6:00- 8:15 7 Silent 5	:00- 8:00 7 5:00-11:00 5	:00- 6:00	7:00- 8:00 7 5:00-11:00 8	5:00- 6:00 5	7:00- 8:00 5:00- 6:00	sto pr
music; Extension credit course, "Educational Psychology"; Extension course, "Getting Rid of Household	WTIC H	lartford, Conn 475 etroit, Mich 352	.9	Silent	7:15- 8:15 5 5:20- 9:15 5	:30- 8:00 8	:30- 9:00	5:30-10:00 5	5:30 - 7:45 5	5-20-11-20	WO / qu 6:
	•~			•	, 0					v.us (υ:
		\			,	•					٠.

Pests", Lucille O. Rust; "When You a Marketing Go", Pearl Ruby.

KSD, St. Louis, Mc. (545.1), 4 p. m., women's hour, Wednesday club; 6:55, WEAF chain "Good Will"

program.

KSO, Clarinda, Iowa (241.8), 12:30-1:15 p. m., farm talk; 7-7:30, band concert; 7:30-9, music.

KTHS, Hot Springs National Park, Ark. (374.8), 12:30-1 p. m., homefolks hour; 9-9:30, chorus, First-Presbyterian church, Frances Hardin, director; 9:30-10:15, dance concert, New Arlington hotel orchestra; 10:15-10:30, Mrs. Byrd Rigsby, vocalist; 10:30-10:45, dance selections selections. KWKH, Shreveport, La. (261), 8-9 p. m., Edythe Crow-

dance concert, New Arthington hotel orchestra; 10:15-10:30, Mrs. Byrd Rigsby, vocalist; 10:30-10:45, dance selections.

KWKH, Shreveport, La. (261), 8-8 p. m., Edythe Crowder.

KWKH, Shreveport, La. (261), 8-3 p. m., Edythe Crowder.

KYW, Chicago, III. (536), 6:30-7 a. m., morning cxercises, Paul A. Leonhardt; 7:30, morning family worship, Y. M. C. A; 11:35, table talk, Mrs. Anna J. Peterson, Peoples Gas company; 1, noon-day concert; 1-2, luncheon concert, Congress hotel; 4, frolic, Hearst square; 6, dinner music, KDKA; 7:05 bed time story Walter Wilson; 7:33 specches, American Farm Bureau federation; 8-8:20, reading Rev. C. J. Perin, Loyola university; 8:20-3, musical program, Congress hotel; 9, music hour; 10, evening at home, KYW; 10:40-11:10, Coon-Sanders Original Nighthawks; 1, Insomnia club, Coon-Sanders Original Nighthawks; 1, Inso

WEAF; 9-10, Silvertown program, WEAF; 10-11, dance program.

WGST, Atlanta, Ga. (270), 7-8 p. m., Mary Miller Trownsell, violinist; "Concerning the Night School", R. S. Howell.

WHAD, Milwaukee, Wis. (275), 11 a. m., pianologue, Andy Mertel; 4 p. m., Mrs. Ferne Medley Hansen, vocalist; I. E. Clayton, baritone; 6:15-7, Bill Benning's Milwaukee Athletic club orchestra.

WHAS, Louisville, Ky. (399.8), 1-2 p. m., concert, Benson trio, Seelbach hotel; 3-3:30, organ recital, Mrs. Myrtle Fulks Zahn, Jr., Alamo theater; 4-5, musical selections, Harry S. Currie, assisted by Leroy Hobb; readings, choice editorials; 7:30-9, mixed vocal and instrumental concert, auspices of Mrs. John E. Harmon, Jr., Sunday school lesson.

WHB, Kansas City, Mo. (365.6), 2-3 p. m., Sweeney Radio trio; 7-7.45, dinner hour organ music, Morrell Moore; Don Anchors, poet; avaition talk, Harry Wimer; 8-9:30, Kansas City Western Dental college band.

band.

WHO, Des Moines, Iowa (526), 7:30-8 p. m., Raleigh quintet; 8-9, Bankers Life trio; 11-12, Bankers Life Little symphonic orchestra.

WHT, Chicago, Ill. (399.8), 10 a. m., Jean Sargent's program, woman's club, Jelke Good Luck Girl, studio features; 11, specialists from studio; 12 p. m., Al Carney's complimentary organ hour; 1-2, special studio program; 6-7:30, classical program, dinner organ recital; Franklin Hathaway, baritone; Ada May Hathaway, violinist; Edwin Kemp, tenor; Genevieve Barry Burnham, soprano; 7:45-9:15, musical features; 9:30, Jelke entertainers; Al Carney, organist; Husk O'Hare's

way, violinist; Edwin Kennp, tenor; Genevieve Barry Burnham, soprano; 7:45-9:15, musical features; 9:30, Jelke entertainers; Al Carney, organist; Husk O'Hare's orchestra; Howard Sershon, tenor; Rita McFawn, popular songs; 10:10, U. S. L. half hour of dance music; 12. Pat Barnes and Al Carney.

WIBO, Chicago, III. (226), 10-11 a. m., shoppers bureau, Grace Viall Gray; 2-4 p. m., shut-in program; 6-8, dinner concert, Walter Preston; WIBO trio; Chester Newman, baritone; Helen Snyder, soprano; Harriet Hebert, contralto; 12-2, midnight jamboree.

WJAZ, Chicago, III. (322.4), 10 p. m., chimes; Hans Henlot, pianist; Bdyth M. Carver, soprano; Lucille Sweetser, pianist; Alice Regina Johnson, pianist; Swedish-American Ladies' quartet.

WLS. Chicago, III. (344.6), 12-1 p. m., WLS trio; 6:30

Swedish-American Ladies' quartet.

WLS, Chicago, III. (344.6), 12-1 p. m., WLS trio; 6:30. Ralph Emerson, organist; 7, Ford and Glem's Woodshed theater; 7:20, Ralph Gould trio; 11-3, Theater Press Representatives' ball.

WLW, Cincinnati, Ohio (422.3), 7:30 a. m., exercises, William Stradtman, Y. M. C. A; 8, morning devotions, auspices of Parkway Y. M. C. A; 12:05 p. m., organ concert, Mildred Prigge; 12:30, health talk, Dr. Carl Wilzback; 4, piano recital, Adelaide Apfel and pupils; 7, dinner hour concert, Hotel Gibson, Robert Visconti, director; 7:30, the eyes have it, Dr. C. H. Kaufman; 7:40, Hotel Gibson concert; 10, Doherty Melody boys; 10:40, Irene Downing and Tommy Reynolds; 11, dance music, Castle farm; 11:30, whistling and imitations. Charles Starr; 12:15, Bow-wows with Kay-Nyne and Chief Barker; dance selections, Castle farm.

WMAQ, Chicago, III. (447.5), 12:45 p. m., Radio Farm

Chief Barker; dance selections, Castle farm.

WMAQ, Chicago, III. (447.5), 12:45 p. m., Radio Farm school; 2, slut-in program; 4, Illinois Federation of women's clubs; 4:45, program, pupils, Mrs. R. R. Hawkins; 5:15, Topsy Turvy time; 6, Chicago theater organ recital; 6:30, Hotel LaSalle orchestra; 8, music; 8:30. Chicago Association of Commerce, talk, Dr. Paul J. Goode; 9, lecture, U. of Chicago, 9:20, musical program; 9:55, University of Chicago chimes.

WMBB, Chicago, III. (259), 7-3 p. m., Trianon due, Frank Carney, tenor; program and talk on finance; 9-II, Trianon orchestra, Dell Lamps, Woodlawn theater orchestra, Armin F. Hand, Cecil and Esther Ward, Tracy and Duncan, Scotty Welsh and Madison Sisters, Tommy Hughes, popular program.

WMC, Memphis, Tenn. (499.7), 7:15 p. m., bedtime stories; 8:30, I. J. Cooper Rubber company's weekly program, Cooper's Hawaiians.

WOAW, Omaha, Nebr. (526), 12:45 p. m., Jaffy's string quintet; 6, classical; 6:15, Hawaiian trio, soloists: 6:50, Randall's Royal Fontenelle orchestra; 9, deluxe

Property and the second

YE OLDE TYME QUARTET AT CNRT

STATIONS IN ORDER OF WAVE LENGTHS USED

Meters Call | Me

280.2 WNAC 322.4 KOA 379.5 WGY 428.3 KPO 282.8 WOAN 322.4 WJAZ 379.5 WHAZ 434.5 CNRO 282.8 WSM 325.9 WSAI 384.4 CKY 434.5 NAA

337 KFMX 389.4 WEAR 340.7 KFAB 389.4 WTAM 340.7 WKAQ 394.5 WFI 344.6

344.6 WCBD 394.5 WOAI 344.6 WLS 399.8 WHAS 348.6 KOB 399.8 WHT

WEEI 405.2 WWJ 405.2 CKNC 405.2

WHAR 305.9 WJAR 361.2

WORD 309.1 KDKA 361.2 WJAS 315.6 KFDM 365.6

| 299.8 KFMQ 344.6 WLS 399.8 | 299.8 KSL 348.6 KOB 399.8 | 299.8 WPG 348.6 KWSC 400 | 302.8 WGN 348.6 WEEI 405.2

WGN 348.6 WLIB 352.7 KTCL 356.9

WOAU 315.6 WAHG 365.6 WHB WCAU 315.6 WGBS 370.2 WEBH WGBU 319 WGR 370.2 WJJD WOQ 319 WSMB 374.8 KTHS WNAC 322.4 KOA 379.5 WGY

KGO

WHN WDAF

WSAI 384.4 CKY 434.5 NAA WBZ 384.4 KJR 434.5 CFCN KNX 384.4 WMBF 435 AT9 KFMX 389.4 WEAR 440.9 KLDS

 $\mathbf{P}\mathbf{W}\mathbf{X}$

KHJ WJY

Thursday, January 14

program; 10:30, Herb Feierman and his Omadala orchestra; 12, G. R.'s Radio night watchmen.

WOC. Davenport, Iowa (483.6), 12:15-12:25 p. m., "Legume Day," Prof. John Pieper; 3-3:30, Aunt Jane; 5:45-6, chimes; 6:30-6:50, sandman; 7-7:30, Larkinites, WEAF; 7:30-8, Harry Yeazelle Mercer, tenor; Erwin Swindell, pianist; 8-9, Clicquot Club Eskimos, WEAF; 9-10, Goodrich Zippers, WEAF; 11-12, LeClaire hotel orchestra; Peter MacArthur, baritone.

WOK, Chicago, III. (217.3), 5-7 p. m., Capitol theater organ; George Allen, tenor; Harriet Doty, contralto; Bob Mokreis, planist, 10-1:30, Bernie Cummins Town club orchestra; Husk O'Hare's Cocoanut Grove orchestra; Capitol theater program; Ned Miller, tenor; Harriet Lee, contralto; Herman Shnalko, violinist; George Allen, tenor; Bob Mokreis, planist.

tra; Capitol theater program; Ned Miller, tenor; Harriet Lee, contralto; Herman Sinaiko, violinist; George Allen, tenor; Bob Mokreis, planist.

WOQ, Kansas City, Mo. (278), 7-8 p. m., Unity educational program; 8-9, concert

WQJ, Chicago, III. (447.5), 11-12 m., economics, Erna J. Bertrams; 3-4 p. m., "The Business Woman Entertains," Helen Harrington Downing; "The Fire Place—The Center on Interest on the Home," Eleanor Amidon; 7-8, dinner concert, Ralph Williams and his Rainbo Gardens orchestra; Clement Laskowski, tenor; Margaret Cade, soprano; Lavina Price, planist; 10-1, Ralph Williams and his Rainbo Skylarks; Jerry Sullivan; Rose Vanderbosch, soprano; Hal Lansing, demon ukulele soloist; Bert Davis, Clown of the Air; Ralph Keim, planist; Anne Keim, soprano; Lew Butler, giant of Radio; Parish and Ward; Ray Lawson, tenor; 1-2, Ginger hour.

WBR, Dallas, Texas (246), 12-1 p. m., old-time melodies, Roy Newman, pianist; Bible talk, Dr. R. S. Hyer; 5:15, bedtime story; 6-7, Jack Gardner's orchestra; 8-9, musical program; 12-1 a. m.; George Perfect, organist, artists, Melba theater.

WSAI, Cincinnait, Ohio (326), 7 p. m., program, WSAI; 7:30, "Pop" concert, WEAI; "Cliquot club program"; 9 Silvertown Cord orchestra, Joseph Knecht, director, WSUI, lowa City, lowa (483.6), 12:30 p. m., organ numbers, Mrs. Preston C. Coast; popular physics address.

Mountain Time Stations

Mountain Time Stations

Mountain Time Stations

CNRC, Calgary, Canada (435.8), 7 p. m., kiddies' bedtime story, Aunt Mary; 9, old time request numbers, Canadians National Railways orchestra, Gladys Webb Foster; Mrs. A. E. McKay, soprano; Madame Beatrice Chapman, accompanist.

KFXF, Colorado Springs; Colo. (250), 9-10:30 p. m., Rosemary Gardens dance program.

KOA, Denver, Colo. (322.4), 12:15 p. m., Rialto theater musicale; 3:15, exercises; 3:30, matinee for housewives; 4, culinary hints; 4:15, fashion review; 6:30, Brown Palace string orchestra.

KFI, Los Angeles, Calif. (467), 5:30-6 p. m., Examiner matince; 6, nightly doings; 6:15, KFI's Seeing California; 6:30, vest pocket program; 6:45, Radiotorial period; 7-8, program, students of University of Southern California; 8-9, Mabelle Hein and her Blue Bird band; 9-10, Chickering hall program; 10-11, Examiner hour.

KFON, Long Beach, Calif. (232.4), 4:30-5 p. m., amusement bulletin; 6-6:30, organ recital, Brayton's theater, Arthur Bayliss, organist; 7:30-9, Long Beach Municipal band.

KFWB, Hollywood, Calif. (252), 7:30 p. m., micro-

ipal band.

KFWB, Hellywood, Calif. (252), 7:30 p. m., microphone brevities; 8-8:30, program presented by Dr. T. E'loyd with Bill Hatch and Ray Kellegg, the jazz twins; 8:30-9, Warner Bros. syncopators; 9-10, program, Don P. Smith, Inc., Diana-Moon dance orchestra; Sol Hoopii's Hawaiians, Ashley Sisters in vocal duets; 10-11, Warner Brothers frolic, direction Charlie Wellman.

duets; 10-11, warner Bromers Holic, Grischen Wellman.

KGO, Oakland, Calif. (361.2), 10:40 a. m., classroom instruction; 4-5:30 p. m., Hotel St. Francis concert crchestra; 5:30-6:30, George W. Ludlow, "Friend to Boys;" 8, Aahmes Temple Shrine band; Charles Atkins, tenor; Walter H. Hancock, accompanist; Arthur T. Baker, flutist; Mary Groom Richards, contralto; Walter Hawkinson, violinist; Lynn R. Pryor, cornetist; Alfred E. Wollitz, cornetist.

KGW, Portland, Ore. (491.5), 12:30-1:30 p. m., Rose city trio; 6-7, dinner concert; 7:45-8, Catholic Truth society.

city trio; 6-7, dinner concert; 7:45-8, Catholic Truth society.

KHJ, Los Angeles, Calif. (405.2), 6-6:30 p. m., Leighton's Arcade cafeteria orchestra, Jack Cronshaw, leader; 6:30-7:30, history story, Prof. Hertzog; Jane Hughes, Joyce Coad, Dickie Brandon with Uncle John; 8-10, Castellammare program, Frank Meline company, arranged by Walter Biddick; 10-11, Don Clark's Biltmore hotel dance orchestra.

KMTR, Hellywood, Calif. (238), 5-6 p. m., home hour with Mammy Simmons and pupils of Carter Weaver; 6-7, Starr Piano company studic; 8-10, The Turner orchestra, Loren Powell, director.

KNX, Hollywood, Calif. (336.9), 5:30-6:15 p. m., Wurlitzer pipe organ studic; Town Tattler; 6:15, travel talk, W. F. Alder; 6:30-7, Atwater Kent concert orchestra; 7-8, program; H. L. Crockett, Hudson-Essex dealer; 8-9, program; Willys-Overland dealers; 9-10, program, M. Weinstein, diamond merchant; 10-11, Ray West's Cocoanut Grove dance orchestra, Ambassador hotel.

KTAB. Oakland. Calif. (240), 3-9-30, a.m. prayer serve.

Ambassador hotel.

KTAB, Oakland, Calif. (246), 9-9:30 a. m., prayer service, Rev. G. W. Phillips; 8-10 p. m., studio program.

Friday, January 15

Headliners Today

Eastern Central Mountain Pacific 8 p. m. 7 p. m. 6 p. m. 5 p. m.

KSD (545.1) Bartell and Cantillon, banjoists.

8:30 7:30 6:30 5:30

WTIC (475.9) Fourth community night program. 9 8 7 6 CNRT (356.9) A Nyghte of Olde Tyme Musick. CNRT (356.9) A Nyghte of Olde Tyme Musick.
KDKA (369.1) Teaberry time.
WDAF (365.6) Wentworth Military academy.
WSM (282.8) Ward Belmont college girls.
9:30 7:30 6:30
WBZ (333.1) Novelty program, Tipple Petc.
10 9 8 7
WLIT (394.5) Morning Glory club concert,
12 m.
KNX (336.9) Order of Optimistic Donuts.
WMC (499.7) Organ program.

Friday, silent night for: CFAC, CHIC, CKNC, CKY, CNRC, CNRM, CNRO, CNRR, CNRW, KFEQ, KFMQ, KFUO, KFWA, KFXF, KGO, KLDS, KOB, KPRC, KUOM, PWX, WAFD, WBBR, WCAD, WCBD, WEAO, WEBW, WGBS, WGST, WHAZ, WIP, WIAZ, WKRC, WLW, WOS, WRC, WREO, WRVA, WSAI, WSUI, WSMB, WTAM.

Eastern Time Stations

Lastern 11me otations

CNRT, Toronto, Canada (356.9), 6:30 p. m., dinner concert, Luigi Romanelli and his King Edward hotel concert orchestra; 9, studio program; "A Nyghte of Olde Tyme Musick"; Daisy LaRush McAdam, 50-prano; Betty Thompson Mackenzle, contralto; A. C. Chapman, tenor and director; W. H. Norris, bass; Mrs. A. C. Chapman, accompanist; Patsy O'Shawgnessy Douglas, whistler; Fred Alexander, concertinist; Instrumental specialties; 11, dance program, Luigi Romanelli and his King Edward hotel dance orchestra.

Pittsburgh address, "The Family Budget," Charles Reitell; 9, Teaberry time. WBAL, Baltimere, Md. (246), 9-10 p. m., musical pro-gram; Alexander Sklarevski Alfredo Oswald, planist;

Bart Wirtz, cellist.

WBZ, Springfield, Mass. (333.1), 6:30 p. m., KDKA little symphony orchestra; 7:30, "Appreciation of Music," Prof. John A. O'Shea; 8, Hotel Kimball dance orchestra; 8:30, concert, Hotel Vendome, Samuel Schniger, director; 9:30, novelty program, Frank A. Peters; 9:05 information concerning civil service examinations.

WCAP, Washington, D. C. (468.5), 6:45-7:45, Tower health exercises; 6:12, musical program, WCAP; pusical program, WCAP;

CAP, Washington, D. C. (468.5), 6:45-7:45, Tower health exercises; 6:12, musical program, WCAP; musical program, WEAF; dance music, Wardman Park bottel crebetter.

musical program, WEAF; dance music, Wardman Park hotel orchestra.

WCAU, Philadelphia, Pa. (278), 7:30, Clarence Seamen's concert orchestra; 8:15, Chiropractic talk; 8:30, Singing Ground Hound; 8:45, Carolyn Thomas the 437-American Radio trio; 8:15, Estelle Leonhardt, Radio song girl; 9:30, Billy and his saxophone; 9:45, Ed Klefer, Radio humorist; 10, Willie Horowitz, songs and 'jokes; 10:30, Jack Myers Musical Architects.

WCX, Detroit, Mich. (516.9), 6 p. m., dinner concert, Book-Cadillac hotel; 9, studio program; 10, dance music, Graystone ballroom.

WEAF, New York, N. Y. (491.5), 6:45-7:20 a. m., Tower health exercises; 10:45-12 m., Betty Crocker Gold Medal Flour home service talk; musical program; 4-5 p. m., program; 6-7, dinner music, Hotel Waldorf-Astoria; 7-12, "Sir Hohgoblin Talk"; "Happiness Candy Boy"; Ford Motor company program; Eagle Neutrodyne trio; Spear and company, home entertainers; Hohner Harmony Four; dance orchestra.

WEAR, Cleveland, Ohio (389.4), 9:30 a. m., Goodyear concert orchestra, Ivan Francisci, director; 3:30 p. m., Goodyear concert entertainers; 7, Warmack's Singing syncopators; 8, F. W. Robert's children's Christmas party; 9, R. T. L. program; 10, Wormack's Singing syncopators.

WEEL, Boston, Mass. (348.6), 7:45 a. m., morning

syncopators. WEEI. Boston, Mass. (348.6), 7:45 a. m., morning watch from Estey organ studio; 3, talk, H. J. Broughton; 5:40, Joe Herlihy's collegians; 6:45, Big Brother club; 7:36, Whiting's grade A five; 8, Sager's half hour of hospitality; 8:30, Neapolitan girls quintet; 9, musicale; 9:30, Carter's incas; 10, Scotty Holmes orchestra.

Philadelphia, Pa. (394.5), 10 a. m., menu talk 10:30, solos; 1 p. m., tea room orchestra; 3, recital, Loretta Kerk, pianist; 6:30, Bellevue Stratford hotel concert orchestra; 7, Bellevue Stratford hotel dance orchestra.

WGCP, New York, N. Y. (252), 3 p. m., planist; 3:15, Eddie Meredith, songs; 3:30, Hugo Angelo, tenor; Samuel Weber, blind planist; 4:05, May Beelin, soprano; 4:15, Clarence Profit, planist;

WIBO 275.3 WJAS

252 WGCP 285.5 WKAR 333.1 265.6 WMAK 285.5 WREO 336.9 266 KFNF 288.3 KFKX 337 1 266 WBCN 288.3 WLWL 340.7 266 WGHB 293.9 KTBI 340.7 V 268 WTAG 293.9 WEAO 340.7 V 270 WGHP 296.9 KPBC 344.6 T

WOK

KFVE 278 KTAB 278 WOAX 278

WBBM

WBAL

 $\mathbf{W}\mathbf{M}\mathbf{B}\mathbf{B}$

KFWB

270 WGHP 272.6 WBBR

KWKH WEBJ

WRW 302.8 WHAD 305.9

246

hour; 12 m., Otto F. Beck, organist; 1 p. m., Meyer Davis' New Willard hotel orchestra; 3:30, U. S. Marine band; 5, Hotel Lafayette trio,
WREO, Lansing, Mich. (285.5), 6-7 p. m., Speed-Wagon serenaders; Gold Standard ensemble.
WTAG, Worcester, Mass. (268), 10:30 a. m., musical selections; 10:45, food hints, Miss Mildred C. Thomas; 12:05-2 p. m., luncheon music WTAG; 3-5, tea dansant music WTAG; 7:30-7:45, stories, Blanche Elizabeth Wade; 7:46, mechanics of speech, Meta B. Wade; 8, travel talk; 8:45, concert program.
WTAM, Cleveland, Ohio (389.4), 12:15-1:15 p. m., Guy Lombardo and his Royal Canadians; 6-7, Carl Rupp and his Hotel Hollenden orchestra.
WTIC, Hartford, Conn. (475.9), 10 a. m., talk, "How to Know When You Are Ill," Dr. Knowlton; 11:15, talk; 11:25, piano solos, Laura C. Gaudet; 11:30, housewives forum, Mrs. J. M. Dean; 12:05, huncheon music, Travelers club; 6:30, Skinnay and his gang; 6:50, dinner music, Hotel Bond trio; 8:30-12, community night program.
WWJ, Detroit, Mich. (352.7), 7:30-8 a. m., setting-up exercises; 9:30, tonight's dinner and special talk; 12:05 p. m., Jules Klein's Hotel Statler orchestra; 3, Detroit News orchestra; 6, dinner concert; 8, News orchestra and soloists; 9, dance program.

Central Time Stations

Central Time Stations

KFKX, Hastings, Nebr. (288.3), 1 p. m., special farm service day; 5:30, KDKA dinner concert; 9, Hotel Clarke studio, Y. W. C. A.
KFMQ, Fayetteville, Ark. (299.8), 7:30 p. m., basketball, University of Arkansas-Southern Methodist university.
KFNF, Shenandoah, lowa (266), 7 p. m., half-hour discussion Sunday school lesson; 7:30, pipe organ concert.

concert.

KFVE, University City, Mo. (240), 9:15 p. m., amusement review, Romaine Fielding; Mae Miller, soprano; Mrs. Gertrude Watson, accompanist.

KMA, Shenandoah, Iowa (252), 11:30-12:30, noonday rural program; talk, G. H. Van Houten, music; 6-7, How-do-you-do boys, Grady and Doc; Auntie Blossom and the slumber boat; 9-11, entertainers from Maryville, Mo.

KPRC, Houston, Texas (296.9), 12 m., Frank Tilton blind wonder boy planist.

blind wonder boy planist,

KSAC, Manhattan, Kans. (340.7), 9-9:25 a. m., music,
talks, agricultural primer; 9:55-10:25 readings,
backyard gossip, question box; planning today's meals;
12:35-1:05 p. m., readings, question box; "Native Fur
Animals," Roy Moore; "Kansas Alfalfa Seed the best
in the World", H. R. Sumner; 4:30-5, lessons in
color and design; 6:30-7:30, travelog; Extension
credit course, "Vocational Education"; Extension

406 WBAR 410.7 CKAC 416.4 WCCO

422.3 WLW 422.3 WKRC

440.9 WDWF 440.9 WDS 447.5 WMAQ 447.5 WQJ 454.3 KFOA 454.3 WJZ 455. KTW

WJY 467 KFI 545.1 WOR 468.5 WCAP 545.1

416.4

428.3

468.5

483.6 483.6

508.2

516.9

516.9

526

526

475.9 WTIC 475.9 WFAA

491.5 KGW 491.5 WEAF 499.7 WMC 508.2 KLX 508.2 WIP

WRC

WOC

woo

CJCA

WJR

WHO

WOAW

KYW WHA

12:30, Jack Penewell and Fred Palmiter, special

12:30, Jack Penewell and Fred Palmiter, special numbers.

WENR, Chicago, III. (266), 6-7 p. m., dinner concert, Rauland-lyric trio; double plane duets; soprano solos; 8-10, popular program, All-American Pioneers; Jack Todd, harmony four; Mabel Olsen, Merritt Stewart, xylophone selections; George Moran and Bill Alt, Hawailan guitar selections; 12-2 a. m., midnight frolic, All-American pioneers; Frank Westphal, saxophone and banjo selections; vocal numbers.

WEES, Oak Park, III. (250), 5-7 p. m., Lydia Werner, soprano; John Brown, planist; Katherine Gray, contralto; Edwin Kemp, tenor; Tiffin theater organ and orchestra; 8-9, Thomas Pappas, accordian; Tiffin theater organ and orchestra; John Stamford, tenor; McDevitt sisters; vocal duo; 11-1 a. m., Remington Welch, organist; Parish and Ward, Sandy McTavish, Scotth comedian; Bebb and Cameron, duetilists; Thomas Pappas, accordionist.

WGN, Chicago, III. (302.8), I1-11:30 a. m., household hints; 11:30-12 n., discussion of fashions; 12-12:40 p. m., public service period; 12:40-2:30, luncheon concert, Drake concert ensemble and Blackstone string quintet; 2:30-3. Lyon and Healy artist series; 3-3:25, public service period; 3:25-3:30, Port O'Missing Men; 3:30-4:15, tea time music, Marshall Field tea room orchestra; 4:30-5, organ recital, Edward Renedict; 8-9, Drake concert ensemble and Buckstone string quintet; 8-9, Drake concert ensemble and Buckstone string guinter; 8-9, All and program, WEAB; 10-11, dance program, WEAB; 10-11, dance program, WEAB; 10-11, d

"Songs My Mother Used to Sing;" 10:40, Ford and Glenn.

WLW, Cincinnati, Ohio (422.3), 7:30 a. m., exercises, William Stradtman, Y. M. C. A; 8, morning devotions, auspices of Parkway Y. M. C. A; 12:05 p. m., organ recital, Erwin E. Schenk; 12:30 concert, Hotel Gibson; Robert Visconti, director.

WMAQ, Chicago, III. (447.5), 12:25 p. m., Y. M. C. A. forum; 1, Radio farm school; 2, shut-in program; 4, talk on pre-school child; 4:15, "News of the Shops," Mildred Graham; 4:30, "Foibles of the Moment," Mrs. Graham Aldis; 4:45, Child Life stories; 6, organ; 6:30, wide-awake club; 8, musical lecture, Mr. and Mrs. M. E. Oberndorfer; 8:30, Whitney trio; 9, lecture, U. of C; 9:20, to be announced; 9:55, chimes. WMBB, Chicago, III. (250), 7-8 p. m., Trianon duo, Frank Bordner, baritone, program, J. Bodewalt Lampe, director; 9-11, Trianon orchestra, Dell Lampe, Woodlawn theater orchestra, Grace Wells, Walter Duffy, Scotty Welsh and Madison sisters, Babbe and Barr, popular program.

Scotty Weish and madison sisters, basses and barry popular program.

WMC, Memphis, Tenn. (499.7), 7:15 p. m., bedtime stories; 8:30, Atwater Kent Radio hour; 11 organ recital, Scottish Rite cathedral.

WOA!, San Antonio, Texas (394.5), 3 p. m., musical program, Kamma's Hawaiians; 8:30, musical program, Memper butel trip.

WOAW, Omaha, Nebr. (526), 12:45 p. m., Sunshine Sunday dinner menu, recipe service; 1, Randall's Royal Fontennelle orchestra; 6, music review, Hester Bronson Copper; 6:50, Jaffy's string quintet; 9, classical program; 10:30, Frank Hodek and his Nightingale orchestra.

wochestra.
WOC, Davenport, Iewa (483.6), 12:15-12:25 p. m., special farm service day; 3-3:30, Aunt Jane; 4-5, Crescent orchestra; 5:45-6, chimes; 6:30-6:50, sandman; 8-9, Rock Island Post, American Legion; 9-10, old-fashloned dance program, Ford Motor Car company; 10-11, travel talk, Dr. B. J. Palmer.

WOK, Chicago, III. (217.3), 5-7 p. m., Capitol theater organ; Jean Carlson, soprano; Bob Mokreis, pianist; George Allen, tenor; 10-1:30, Bernie Cummins Town club orchestra; Husk O'Hare's Cocoanut Grove orchestra; Capitol theater program; Arnold B. Stephenson, musical saw soloist; Harriet Lee, contralto; Herman Sinaiko, violinist; George Allen, tenor; Bob Mokreis, pianist. Mokrejs, pianist. WOS, Jefferson City, Mo. (440.9), 8 p. m., program,

Missouri Ozark chamber of commerce, Missouri asso-ciation; varied musical program and address, Governor Sam A. Baker on "Missouri", George A. Pickens, "The Missouri Ozark Chamber of Commerce"; A. A. Buford, "Facts About the Big Springs Country of the Missouri Ozarks".

the Missouri Ozarks'.

WQI, Chicago, III. (447.5), 11-12 m., Ted Wilmes; 3-4 p. m., 'First Radio Lesson,' Helen Harrington Downing; pictures, George U. Gairing; 7-8, Rainbo Gardens orchestra; Henrietta Nolan, violinist; Otis Pike Jester, soprano; Mary Thrash House, pianist; W. H. Bundy; 10-1, Ralph Williams and his Rainbo Skylarks; Katherine McDevitt; Dr. H. Lucille Long, woman harmonic player; Eleanor Terry, Marie Pollette; Melodians; Dean Terrill, baritone; Merrill Carder, baritone; Mary Wade, soprano; 1-2, Ginger hour.

WRR, Dallas, Texas (246), 12-1 p. m., Ethel Smith, planist; W. W. MacBeth, harmonica soloist; Sheldon Leachman, tenor; 5:15, bedtime story; 6-7, dinner hour, Jack Gardner's orchestra; 8-9, Elena Munster, soprano; Lucy Renard, planist; Mrs. Ira J. Kennedy, contralto; 11-12, George Perfect, organist; artists, Phil Pierce studio.

WSM, Nashville, Tenn. (282.8), 6:36 p. m., Beasley Smith and his orchestra; 7, WSM bedtime story interlude; 8, Ward-Belmont college girls; 10, program, Boston serenaders.

WSUI, lowa City, lowa (483.6), 12:30 p. m., musical program, Wm. G. Edmondson, tenor.

Mountain Time Stations

CNRE, Edmonton, Canada (516.9), 7:30-8 p. m., children's half hour with the farmer; 8:30-10:30, studio concert, University of Alberta; 10:30-11:30, dance selections, John Bowman and his orchestra.

MAN Denver, Colo. (322.4), 12:15 p. m., Rialto theater musicale; 3:15, exercise; 3:30, matinee for house-wives; 4 culinary hints; 4:15, fashion; 6:30, Brown Palace string orchestra; 7:30, Sunday school lesson; 8, musical program, Fort Collins, Colo., 157 Infantry band; Fort Collins Masonic quartet, ladies' quintet.

(Continued on page 30)

4:30, Leslie McLeod, tenor; 4:45, Charol de Thomee, pianist; 5, Jack Neal, songs; 7-7:30, Jonssen's orchestra; 7:45 program; 8, health talk; 8:05, Richard

chestra; 7:45 program; 8, health talk; 8:05, Richard Cheatham's band.

WGR, Buffalo, N. Y. (319), 2:30 p. m., WGR's afternoon program; 6:30, Clef trio; 7:45, children's stories by Blanche Elizabeth Wade for the G. R. Kinney company; 8:25, address, "Government Insurance for Ex-Service Men" by Jos. H. Crain; 8:30, American Legion band, N. Y; 9:30, Hewitt humorists; 10, jointly with WEAF, Ford Motor company program; 11, Vincent Lopez Hotel Statler dance orchestra, Harold Gleser, director.

WHAR, Atlantic City, N. J. (275), 2 p. m., Seaside hotel trio; 8, Seaside hotel trio; 11:15, Strand theater organ recital.

WHN, New York, N. Y. (361.2), 6-7 p. m., Littmann's

organ recital.

WHN, New York, N. Y. (361.2), 6-7 p. m., Littmann's dinner music; 7-7:30, Harry Richman and his. entertainers; 7:30-8, Sidney Claire, Lew Brown and Al Shayne, songs; 8-8:30, standing by; 8:30-9, Jack Dinny's Frivolity orchestra; 10-10:30, Monico club orchestra; 10:30-11, Roseland dance orchestra; 11:11:30, Caravan orchestra; 11:30-12 m., Broadway Samovar orchestra; 12-12:30 a. m., Silver Slipper revue and orchestra.

orenestra.
WIP, Philadelphia, Pa. (508.2), 6:45 a. m., setting-up exercises; 7, setting-up exercises; 1 p. m., Gimbel tea room orchestra; 3, artist recital; 6:05, Benjamin Franklin concert orchestra; 7, Uncle Wip's bedtime

stories.

WIR, Pontiac, Mich. (516.9), 7 p. m., Jean Goldkette's Petite symphony orchestra; 7:30, Arctic-Condon trio; 8, Summerfield and Hecht.

WLIT, Philadelphia, Pa. (394.5), 12:02 p. m., daily almanac; Stanley theater organ recital; Arcadia cafe concert orchestra; 2, Arcadia cafe concert orchestra; 2:30, playlet, students National School of Elecution and Oratory; 7:30, Dream Daddy's bedtime stories; Sunbeam party; 10, Morning Glory club concert; Arcadia cafe dance orchestra; Collins-Phillips vaudeville concert.

WLWL, New York, N. Y. (288), 11 a. m.-12 n., shop

ping talk.

WMCA, New York, N. Y. (340.7), 6-6:30 p. m., Olcott
Vail and his Hotel McAlphin string ensemble; 6:307:30, Ernie Golden and his Hotel McAlphin orchestra; 7:30-8, Sachs program; 8:15-8:50, Postal Pen;
8:50-9, Broadway association; 9-10, Hardman hour;
11-11:30, Club Caprice; 11:30-12, Jack Denny's orchestra.

11-11:30, Club Caprice; 11:30-12, Jack Denny's orchestra.

WNYC, New Yerk, N. Y. (526), 6:30, French lessons;
8:30, dance program; 9, song recital; 9:30, Kessler
ensemble; 10:10 lecture, Carter Troop.

WOO, Philadelphia, Pa. (508.2), 11 2. m., organ recital;
12, Golden's Crystal tea room orchestra; 4:45, organ
recital; 7:30, "Sir Hobgoblin," Blance Wade; 7:45,
Ritz Carlton concert orchestra; 8:15, J. W. C. I. band,
Arthur Rosander, director; 8:45, address, "Fussy and
Fretty Children," Dr. Nathaniel Winkelman; 8, organ
recital, Mary E. Vogt; Della M. Keiser, contralto;
9:25, Fox theater orchestra; 10, Henry Ford's oldfashioned dance through WEAF; 11, Ritz Carlton
dance orchestra.

dance orchestra.

WOR, Newark, N. J. (405.2), 6:15 p. m., words often mispronounced; 6:30, Bill Wathey in sports; 6:45, Man in the Moon stories for children; 7:30, Newark evening

messy Douglas, whistler; Fred Alexander, concertinist; Instrumental specialties; I1. dance program, Luigi Romanelli and his King Edward hotel dance orchestra.

KDKA, Pittsburgh, Pa. (309.1), 7:15, 8 a. m., morning exercises, O. Shannon; 10, domestic science and arts for the housewife; 5:45 p. m., Auntie Jim's letter from across the sea; 6:30, dinner concert; 8:15, U. of WRC, Washington, D. C. (468.5), 10 a. m., women's

461.3 WCAE 535.4 467. KFI 545.1 468.5 WCAE

course, "Choosing o Good Investment," J. Kammeyer;
"The Physics of Photography," J. O. Hamilton.
KSD. St. Louis, Mo. (545.1), 7 p. m., fur hour program, Bartlett and Cantillon, banjoists; 7:30, commerce hour program, Mrs. Thelma Hayman Carroll, contralto; 9. WEAF chain "Good Will" program.
KSO, Clarinda, Iowa (241.8), 12:30-1:15 p. m., farm talk; 7-7:30, eight piece orchestra.
KTHS, Hot Springs National Park, Ark. (374.8), 12:30-1 p. m., homefolks hour; 9-9:45, gems, familiar classics, New Arlington hotel ensemble; 9:45-10, Lawson Reid, organist; 10-10:30, Eastman hotel orchestra; 10:30-11 Mrs. Natalie Arnoux, violinist.
KWKH, Shreveport, La. (261), 8-9 p. m., Frank C. Littlefield's Hotel Youree orchestra; 9:30-1 a. m., dance music.

Littlefield's Hotel Youree orchestra; 9:30-1 a. m., dance music.

KYW, Chicago, III. (536), 6:30-7 a. m., morning exercises, Paul A. Leonhard; 7:30, morning family worship, Y. M. C. A; 11:15, talk, John C. Cutting; 11:35, table talk, Mrs. Anna J. Peterson, Peoples Gas company; 1, neonday concert, luncheon concert, Congress hotel; 6, dinner music, KDKA; 7:05, bedtime story, Walter Wilson; 9, music bour; 10-12:30, midnight revue, Hearst square; 10, Paul Ash McVickers theater; 10:40-11:10. Coon-Sanders original Nighthawks; 12, Henri A. Keates, organlogue; 1 a. m., Insomnia elub, Coon-Sanders Original Nighthawks; 12, Henri A. Keates, organlogue; 1 a. m., insomnia elub, Coon-Sanders Original Nighthawks.

WAMD. Minneapolis, Minn. (243.8), 12 m., classical program; Ella Sundstrom Pendleton, soprano, Oscar Belham, planist, D. A. Lindholm, baritone, Mildred Clyborne, contralto, Gladys Clyborne Iverson, accompanist; 7:95 talk; 7:10, Minneapolis public school hour; 11, George Osborn's Hotel Radisson skyrockets.

WBCM, Chicago, III. (226), 4-6 p. m., Valentino inn orchestra; artists; S-10, Tip trio; Moulin Rouge orchestra; artists.

WBCN, Chicago, III. (266), 10-10:30 a. m., Penny Wise,

chestra; artists, alto, the tito, hadden house of the star; artists; artists.

WBCN, Chicago, III. (266), 10-10:30 a. m., Penny Wise, "The Shopper's Ready Helper," shopping talk; 5-5:15 p. m., police bulletins; 7-8, Fireside hour, WBCN hobby club; George R. Cleveland, "Big Boy" Yagle, pianist; Will Rossiter, "The Daddy of the Song Publishers," tenor and songwriter; Harold Johnson, boy xylophonist; 10-12 m., request program; Midway dancing gardens orchestra; Eddie Matts and Billy Donovan, tenor and planist; West End Harmony boys, instrumental due; Ed. Dempsey, "The Silken-Voiced Tenor," Alice McMahon, contralto; "Big Boy" Yagle, planologist.

ologist.

WCCO, Minneapolis-St. Paul, Minn. (416.4), 12 m., Dick Long's Dayton trio; 2 p. m., woman's hour; 2:30, Dick Long's Nankin cafe orchestra; 4, reader's club, Mrs. Walter Stevens; 5:30, Court of Gold Medal; 6:15, dinner concert, Emmet Long's Golden Pheasant orchestra; 7:45, "Marketing of Honey;" 8, health talk, Minnesota State Medical association, Olmstead County Medical society; 8:15, musical program; 9, Ford program, WEAF, old time fiddlers; 10:05, Emmet Long's Golden Pheasant orchestra. Golden Pheasant orchestra

WDAF, Kansas City, Mo. (365.6), 6-7 p. m., The Tell-Me-a-Story lady; address, the Trianon ensemble; 8-9:30, Wentworth Military academy program; 11:45-1, The Plantation players, Hotel Muehlebach; Eddie Kuhn's orchestra; Kansas City Athletic club.

WDOD, Chattanooga, Tenn. (256), 6:30-7 p. m., organ music, Tivoli theater; 7-8, Hotel Patten orchestra; 8:15, special features and program; 11, popular requests.

WEBH, Chicago, III. (370.2), 11:30-12 m., women's hour; 3-4 p. m., musical bits from Uptown theater; 7, Edgewater Beach Oriole orchestra, dinner concert; 8, Pauline Sachs, soprane; Eleanor Kaplan, violinist; 9-10, light opera company; 11, Edgewater Beach Oriole orchestra, dance selections; Irene Beasley;

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

Published by the RADIO DIGEST PUBLISHING CO.,
(Incorporated)
510 North Dearborn Street
Chicago, Illinois
Telephones: Superior 7323, 7324, 7325, 7326, 7327

E. C. RAYNER, Publisher

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

Member of the Audit Bureau of Circulations 241

PUBLISHED WEEKLY

SUBSCRIPTION RATES

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

Vol. XVI

Saturday, January 9, 1926

No. I

The Pacific Coast vs. European Tests

BY NOW, of course, the objections of the Pacific Radio Trade association to International Week silence periods, may have been answered, but at the time of going to press, this association was reported to have recommended that Pacific coast stations continue to broadcast from 8 to 9 p. m., pacific time, all nights set aside for the tests.

The Pacific Radio dealer organization was inspired by the selfish thought that if the Los Angeles, San Francisco and other coast stations remained silent, the Radio listeners located on the slope would hear nothing, not have a ghost of a show at hearing Europe, and as a result, would condemn their receivers.

Evidence does not sustain this thought. San Francisco and Los Angeles listeners, using in some cases as small as two tube receivers, heard European stations last year during the International Week tests. Portland, Oregon, listeners were equally successful. In addition, the coast fans heard Japanese, Chinese, Hawaiian, New Zealand and Australian broadcasters. This year many of the foreign broadcasters have increased their transmitting power beyond that used in

Give the coast fans a chance to listen in, and we'll prove to the Pacific Radio Trade association that the Rocky Mountains do not bar European reception.

What is more, if but as few as three coast stations, after reading this editorial, still go ahead and broadcast to the world when the rest of the U. S., Canadian and Mexican stations remain quiet for the tests, the whole plan will be ruined. Eastern, central, western, southern and coast listeners will hear the Pacific coast broadcasters, and the Pacific coast broadcasters for the most part. It is doubtful if many listeners would be able to get through the west coast barrage.

At any rate, many a listener, tuning in what they thought would be a European station, will find only the Pacific coast and nothing more. This, perhaps, will be learned after the listener has sat patiently through a half hour of music. A wonderful advertisement for the coast stations!

Imagine how peevish you would become upon learning that YOUR European station was located on the Pacific slope. You'd probably arrange to spend your next vacation in California. You'd probably arrange to eat more California oranges, grape fruits and raisins.
You probably would NOT!

It Costs to Broadcast

ROADCASTERS with the idea foremost in their B minds of serving the public to the best of their ability, have undertaken a man-size job. The good will and publicity obtained as a result of the broadcasting is worth it, perhaps, but the work and money necessary to accomplish the purpose as near perfect as possible, is tremendous.

Believe it or not? Here are a few figures taken from a report on the year of 1925, at WEAF, A. T. and T. station in New York city. WEAF may be considered as typical of other large stations.

The station was on the air approximately 245 hours each month, or an average slightly in excess of eight

During ONE month 454 features consisting of either individuals or groups appeared before the WEAF microphone. Of this 454, almost 300 were classed as "regulars," that is, program features heard each week at a definite time, and over 150 were "occasional" program features.

The monthly average number of individual artists entertaining from WEAF was 1,015, or about 34 each

day.

Doesn't that sound as if the larger broadcasters had plenty to do? We, the dial twisters, have a difficult time attempting to visualize the immense investment and heavy operating expenses necessary at the microphone end of the entertainment coming through our loud speakers, but perhaps these figures will reveal what is back of the polished panel.

Good broadcasters spend lots of money entertaining and serving the public, and it is our duty to support

them with our good will.

RADIO INDI-GEST

You Mean "Hearing"

When the old set howls and the air gets blue As you twist the dials for an hour or two, And the cats all fight and the panthers yell As you twist and turn and cuss like—well— Then all of a sudden she gives a "plop" And Havana, Cuba, comes in like a top, Without a whistle and not a squeak, And it's the best reception you've had in a week—AIN'T IT A GRAND AND GLORIOUS FEELING? Old King Tutt

Where Is My Lariat?

Dear Indi: Last night I let Lopin Larry ride the ther range with me and when I rounded up a good Chicago station, he leaned back in a puncher's reverie and said, "Las sumer when I tuk a lode a steers to Chicago I met a gurl who wanted a man frum the grate opun spacus that ansurd my discribshun, but I sed being spliced wid a city gurl wud be to expensiv fur a comon hand and she sed fur her argyment that out side uf bord and rume thats all ther is. An you no Night Hurd I beleeved her cause her close hardly showed any wear.

THE NIGHT HERD

She was only a cowboy's daughter but I'm sure she knew her ropes.

Milwaukee Again—Beer Up!

My dear Mr. Indisgust: The herein contained material is guaranteed to be manufactured in compliance with the Federal Child Labor Law.

Distilled

BY THE THIRD TROMBONE PLAYER

Wot a show was the Wisconsin Radio Exhibit! Readers of this colyum will pardon me for the late report but l was waiting for the Radio Cricket, "Dielectric," who writes them snappy critickcisms in the next colyum. I told the guy months ahead to be here to take in the show and I was down in the Milwaukee Road freight yards every night but he didn't show up.

Gus Schmalzhagen was there. You know Gus was the guy that used to run a filling station on Reed street. He got pinched for giving away a shot of high test with each 5 gals. low test gas. Now he's selling Super Six Radios. A lady bought one and when she got it home she found it was a Silent Six.

They had a broadcasting studio right on the stage.

Izzy Einstein appeared in a swell program.

When I was mingling with the crowds being careful not to reveal my indentity because some of the boys might have high potential missives of displeasure in their pockets, a crazy man ran thru the crowds hollering, "A horse, a horse, my Radio for a horse!" A dick stopped him and said, "Why the horse?" The guy says, "I want to gallop to Zion City at a speed not exceeding 15 miles an hour and prove to Voliva out of my geography that the world is round!" The dick layed him out and as he dragged him away a bystander remarked, "That lad would come back on foot!"

One exhibitor was selling Radio dictionaries. I sent one to "Dielectric." He sent it back. Says there was too many misspelt words in it and besides he hunted all thru the A's looking for athema and it wasn't in and he knows darn well there is such a word as he used it himself in one of his critickeisms.

There was at least a dozen guys selling devices for increasing the range of a receiver. One guy claimed 50%, another 35% and one 15%. I bought them all and stuck them on my Globe Do-or-Die set. On tuning in I could get nothing but local, I went back and kicked to the guys and they said I increased the range so much that I was getting around the world with it and was getting stations from the place I started from.

"Oh, How I Miss You Tonight, Tra La"

Graham McNamee should cease to roam— Cut out his tours and stay at home. He's the best announcer on the air, And gee, but we're lonesome when he's not there. 'A. K.

NEWS GRIEFS FROM THE BROADCASTERS By Eddie's Son

New York.—Listeners to Station WLWL were given a real treat the other night when the K. K. K. concert orchestra rendered a delightful program.

Miami Beach, Fla.—All Flordia has gone wild over the latest song broadcast from WMBF. The song is entitled, "Let's Wander Away to Cal-i-for-nigh-a" and was composed by a prominent Florida real estate man. Stations WGBU, WGHB and WJAX are also featuring the number nightly.

Zion City, Ill.-J. H. DePew made his last announcement for WCBD, here, tonight. He leaves tomorrow for Kansas City to assume his new duties as "Merry Old Chief" at WDAF. Jerry Sullivan of WQJ will succeed Mr. DePew at WCBD.

Add Talents of Dairy Maid

"Louise Maier is the 'Alamito girl' heard from WOAW every Wednesday at 1:10 p.m. She conducts this important health service very efficiently. Miss Maier has had considerable dairy experience. -From WOAW Radio Bulletin, Omaha, Nebr.

?????? Give the calf more rope!

Giving Him the "Air"



Condensed BY DIELECTRIC

One of the stations put on a special dance number, as announced, for the accommodation of a friend of the announcer who was giving a party. No doubt these dance programs are being used by many who previously depended upon a phonograph to supply the music. When you are in search of programs of popular dance music turn to WEBH, Chicago, while the Oriole orchestra is performing and see if they please you. Maybe I'm wrong.

Do you listen to ukes, and if you do, did you happen to tune in to WADC, Akron, Ohio, one evening recently as the Royal Hawaiian trio was doing its bit to entertain you? Never having had the experience of visiting the Hawaiian Islands, I cannot compare the work of this trio with native players, but surely the dreamy effect of plunking, gliding airs found skilled artists performing in the studio that evening. There is little variety to the melodies produced in that southern clime, yet they fascinate.

A solicitous correspondent to this paper suggested I be presented with a two tube super-het. Well, it so happens the set I use needs no improving. What IS needed is the annihilation of about three hundred puny, interfering stations, and the separation of the remainder, so a resident of a congested area is not faced with four or five stations trying to occupy the same position on the dials at one time. Did you step into Mexico while the department of education was broadcasting a talk in Spanish from CZE, Mexico City? Neither did I understand the address, but the Puccini number which followed anyone could appreciate. It was well rendered.

Station KTHS, Hot Springs, Ark., is to be congratulated for putting on the air an orchestra program which came through perfectly and left no wish that other numbers had been substituted for any one of As we sat back to recall the beauty of the final selection our reverie was broken with the stirring announcement of a bank robbery at Washington, Ark., and Dielectric turned from art to philosophy-why

If the broadcasting stations want to put something in the place of soprano solos to enrich their programs, let them secure a good instrumental trio or quartet. The very highest form of music is that known as chamber music and Station WSAI, Cincinnati, should be commended for the splendid concert arranged in their studio by a stringed quartet of more than average ability. The lady who announced each number was familiar with the music and aided to a more complete understanding by sharing her knowledge with the listeners in, which is indeed a desirable practice.

Jefferson City, Mo., is a city familiar to most Radio listeners however far away their homes, because WOS has broadcast to them for many months and the circumstances surrounding a certain inmate of the penal institution there was nation-wide news. In determining to review a program from this station I was actuated as much by pleasant memories of previous hearings as by duty to cover as many broadcasters as possible. So in listening to an orchestra playing there I was favorably inclined at the outset-and remained so while cold-bloodedly appraising their work. It is the wish to help studio directors that criticism is made, or to aid listeners choose programs, and not to vent spleen under a nom de plume.

My Experiments With Underground Antennas

Work of Station 3XR, Hyattsville, Md.

By Dr. J. Harris Rogers

system claim that static is entirely eliminated, I frankly acknowledge that such has not been my experience. Atmospheric disturbances are reduced, and sometimes to a very remarkable degree, depending largely upon the locality and the nature of the soil and the depth of the buried wires. The best results are obtained in moist earth, or when laid in

Dr. Rogers at the lead-in end of one of his static-free aerials. Note the hollow tile, through the center of which the under-ground aerial runs.

fresh water, or when buried to the depth of "water earth." Signal strength increases in proportion to the depth to which these are placed below the surface of the earth, and static correspondingly

Owing to the directive features, they should be laid in the direction of the sending station; and, consequently, to receive maximum signals from all points of the compass, three or four are necessary. For broadcast reception, 75 to 100 feet of perfectly insulated wire (ignition cable), buried, gives good reception; but better results are obtained with metallic covering-for example, small gas pipes, and still better when the insulated wire is run through the center of 5-inch terra cotta pipes (see photo).

Signals are stronger on elevated antennas, and more amplification is needed on the buried ones, but owing to the reduction of static, the latter is more efficient, especially in localities swept by electrical disturbances.

Very remarkable results are reported from various sections of the country, for both sending and receiving, some claiming that static is entirely eliminated.

Several lengthy papers prepared by Commander A. Hoyt Taylor and Lieutenant A. Crossley have appeared in the Proceedings of the Institute of Radio Engineers, and I herewith quote a few extracts.

"(a) The history of the Navy's connection with ground wire work, based on the Rogers system, has been briefly outlined.

"(b) It has been shown that it is possible to receive very efficiently signals from stations at any wave length, long or short, using submerged or subterranean wires, provided that one or two stages of amplification be used.

"(c) The directivity of the wires has been carefully examined and it has been proven that signals coming at right angles to a given wire pair are excluded, while signals coming parallel to the wire pair are received with maximum intensity.

"(d) The feasibility of utilizing this system with its highly directive and highly selective properties for distant control work has been demonstrated.

"(f) The importance of adequate insulation has been indicated.

"(g) The relative advantage of ground wire reception on short waves lies in the ability of the receiving operators to continue to copy messages through violent storms without danger to themselves and with little or no interruption of traffic. The very great advantage in the suppression of summer strays is noted on all waves but particularly on short ones. The manner of the suppression of strays seems to be not only a reduction in inten-

explained contradiction.

"(h) Reception in fresh water or wet soil is enormously superior to that of bare wires above or on the surface or in dry soil. As the wire is lowered into water or into wet ground, the signals increase, whereas the strays are reduced. How deep the wires may be buried with advantage is not yet known. . .

"Summary.—After an historical review of the work of the United States Navy with underground and underwater receiving systems, the author gives data demonstrating the possibility of effective reception on such systems, particularly when using amplifiers.

"These systems are found to be directional toward waves traveling parallel to the length of the wire pair. This directional selectivity, which is marked, is applied in control stations for duplex

"For such underground systems, an optimum wire length for best reception is wave length (for short waves) and inde-shutting out nearby interferences.

THILE many who have installed the | for short waves, stands as a hitherto un- | pendent of the direction of approach of the signal. The existence of this optimum length gives further utilizable selectivity. This length is independent of the nature of the surrounding medium and varies inversely as the capacity per unit length of the wire. The wire in question must be well insulated.

"Reception through violent storms, and suppression of summer strays (particularly at short wave lengths) are found.

"It is found that lowering such wire systems from above ground into wet soil or into water greatly increases the signal strength and diminishes strays.

"Transmission at short wave lengths, over considerable distances, using such systems has been found possible with low power sustained wave transmitters. .

"In previous papers, one of the writers has indicated some of the advantages of subterranean receiving system for remote control purposes. Those advantages may be briefly enumerated again here.

"First.—Ground wires have high degree found to be roughly proportional to the of directivity which can be utilized for

"Second.-For short waves they have an optimum wire length which may be utilized to obtain a far higher degree of selectivity than is possible with an ordinary antenna.

"Third .- Static is entirely eliminated, permitting successful operation without danger to the operators through heavy

"Fourth.—All strays are greatly reduced if it is possible to obtain moist ground for the installation.

"Fifth.-The ground wires lend themselves readily, under proper conditions of installation, to the use of balanced or stray eliminating system. . .

"The question is brought up concerning the efficiency of the system on short wave lengths when using high amplification. To this we may say that reception on short wave lengths by means of the underground system has never been affected by local static. This statement is based upon tests covering a period of two years, wherein the underground system for short wave lengths has been used through all atmospheric conditions, and at no time have

(Continued on page 24)



How I Earn \$10000 a Week as a Radio Expert

A year ago I was mighty blue and discouraged. It seemed to me that I would never be more than a low-paid bank clerk. Of course I had a small increase in salary every now and then, but I knew that pretty soon I would reach my limit and there would be no further advancement for me. What future had I to look forward to? Where would I be in five years? I became restless and disin five years? I became restless and discouraged and began to look around for some other opportunity.

It was then that I discovered that the demand is for trained men, that the opportunities are all for men who can do some one thing better than anything oo some one thing better than anything else. There were wonderful opportunities for men who were experts or specialists—but I was....... a clerk. How I regretted then that I hadn't prepared myself for some definite career!

1 Wanted to Marry

The thing that made me more restless at that time than anything else was the fact that Marian and I were—that is, we wanted to be married. But we both knew that we couldn't possibly get along on my small salary. If only there was something I could do that would bring me a larger salary! me a larger salary!

It was just about the time that everyone became so interested in radio. whole town became radio-mad, and of course what was happening in our town was happening all over the country—all over the world. I managed to save up enough to buy a receiving set and I was never quite so happy as when I was trying to tune in on stations.

The thing fascinated me. Playing with air waves! Bringing melodies and messages out of the sky! I was never so interested in anything before.

sity all around, but a remarkable reduction in the frequency of the strays. Although the ground wire system appears in many respects to be aperiodic, the fact that an optimum length of wire exists demand for men who understand it.

It's a new field and there's plenty of room for wide-awake men.

"But—but I'm not trained!" The thought excited me. To be a radio expert! To find my future in this fascinating new field! "I don't know anything about it, Marian," I said. "I wish I did, though."

"Well, why don't you find out about it," she retorted. "You can't learn it," she retorted. "You can't learn about radio just by listening in to the concerts. Why don't you take a course?"

concerts. Why don't you take a course?"

But we found out that most courses were expensive or that they would interfere with my other work. We were about discouraged when I discovered that through the National Radio Institute it is possible to become a radio expert by studying right at home in spare time. I told Marian about it and she was elated. "Send off for information, at once—today!" she exclaimed.

Advances Quickly to \$100 a Week

I did, and the following day received an important booklet, "Rich Rewards in Radio" telling all about radio op-portunities and how to become an ex-pert in any particular phase of the work. Here was my opportunity at last!

I began to study in all my spare time. It was the most interesting and absorbing study I had ever made. The secret ing study I had ever made. The secret of the radio revealed to me! Day by day, I became more skilled and deft until I was able to take apart receiving sets and put them together again as though I were playing with a toy. It was fun! In a month I was able to take a position as lineman at a bigger salary than I was getting at the bank. This was wonderful experience for me, and I kept right on with my studies. It wasn't long before I qualified for a position as radio engineer at a salary of \$100.00 a week! That is what I am earning now, though I expect to make more soon. It seems to me almost too good to be true, after all those years as

a low-paid clerk in a bank. And Marian, who will soon be my bride, keeps saying, "I told you so!"

As a radio expert I can tell you that there is a tremendous demand for men who can build, sell and install radio sets, who can design, test, repair. Men are needed as engineers and executives, all over the world. The opportunities are limitless, and if you like radio there is no reason why you cannot qualify for one of reason why you cannot qualify for one of these positions by studying in your spare time at home as I did.

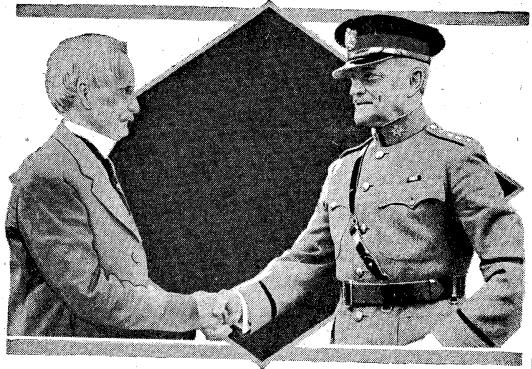
The National Radio Institute offers an The National Radio Institute oliers an absolutely complete course which prepares you for the Government First Class Commercial License and for the bigger-paying jobs in Radio. The Director, E. R. Haas, will be glad to send you all details of their marvelous new method of practical instruction including information conor their marvelous new method of pracu-cal instruction, including information con-cerning the Free Employment Service which secures positions for National Radio Institute graduates. Everyone in-terested should have this information. It's free, and this coupon will bring it to you. I advise you to send it off today. Radio is a new and interesting field, and it offers you more money than you probably ever dreamed possible!

Important

Those who mail the coupon at once will also receive details of Special Short Time Reduced Rate. Do it now.

Washin I am out wheth Please se	igton, D. interested ner or not nd me, with	Institute, C. in radio and I am suited nout the sligh called "Bitch neerning you	d would for a thick to blick the standard th	like to radio c gation, s in Ra	fir area yo dio
	***************************************	***************************************			
₽ Cit2			. State		5 ******

"BLACK JACK" VISITS DR. ROGERS



General Pershing congratulating Dr. Rogers, upon visiting his laboratory.

UNDERGROUND AERIALS

(Continued from page 23) the operators been required to leave the instruments on account of the dangerous effect of local lightning storms.

The foregoing statements have been verified at Norfolk, Great Lakes, and New Orleans, where many cases were recorded when the regular antenna had to be grounded to prevent damage to the set, and that during this time the underground system was used exclusively to handle all traffic. Stray elimination by the underground system on long wave lengths is not so pronounced as it is on short wave lengths, but by the use of the underground system in conjunction with the balanced system, this trouble is overcome.

The underground system has excellent directional qualities. Using two wires in the direction of the transmitting station, the maximum signal is obtained; while using two wires which lie in a direction which is at right angles to the transmitting station, the minimum signal is obtained, and in many cases the signal is not heard. It is possible that the operator strength is as great during the day as on watch can, at any time ascertain the night; (3) That there is no "skip distance" approximate direction from which the signals are coming by means of using various combinations of wires. A good stand-by tune, by which the operator can hear all stations, is obtained by the use of two wires at right angles to each other, namely an east-and-south or east-and-north combination, and so on.

Transmission

After I demonstrated to the navy that signals from Europe were easily received and that transmission was practical for short distances with wires buried or laid in water. Lieutenant Crossley stated:

"(i) Preliminary experiments on transmission with subterranean wires have shown that transmission with low powers and continuous short waves is possible

communicating distance obtained was be tween Great Lakes and Chicago, a distance of 36 miles (58km.), with 0.8 of an ampere in the underground wires. possibilities are indicated by these transmission experiments. With specially insulated wires and amplifying receiving sets, much greater distances can undoubtedly be obtained."

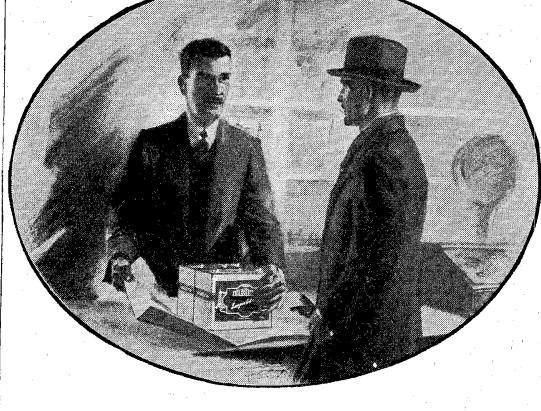
The most remarkable development in transmission was achieved during the latter part of the war, when the navy equipped submarines with specific devices according to my patent. submarines were enabled to communicate with each other, whether affoat or submerged.

Just about a year ago I renewed my transmission tests, using three 50-watt tubes, and was enabled to transmit to practically all stations from Canada to South Florida, and from the Atlantic to the Pacific. The greatest distance reached was Toulon, France, station of J. M. Sarazes, F8SM. These tests demonstrated: (1) That fading is eliminated; (2) That while not conclusive, it appears that signal (4) That communication is steady and reliable; (5) That owing to the directive character; greater distances can reliably be attained with minimum energy.

A hydrometer permits the operator to know the condition of charge that exists within the battery. A full charge will float the graduated tube high, and when the battery is discharged it will sink.

Bare copper wire of No. 18 gauge makes a good connector between instruments, and is sometimes preferable to the harder bus bar.

A loose contact or partly worn out "B" batteries frequently create disturbances over considerable distances. The greatest that sound exactly like static.



"These Eveready Batteries are the correct size for your set. With average use they will last you a year or longer"

"YOU have been one of the many who use 'B' batteries that are too small in capacity for their receivers. That is not economical. It makes you buy 'B' batteries twice as often as necessary. Fit the right size Evereadys to your set and add a 'C' battery,* if you haven't one, and you'll get the maximum of service at the minimum of cost."

The life of your Eveready "B" Battery depends on its capacity in relation to your set and how much you listen in. We know, through investigation, that the average year-round use of a set is two hours a day. Taking that average we have proved over and over that on sets of one to three tubes the No. 772 Eveready "B" Battery used with a "C" battery will last a year or longer. On sets of four and five tubes, the larger heavy duty Eveready batteries used with a "C" battery will last eight months or more.

*Note: In addition to the increased life which an Eveready "C" Battery gives to your "B" batteries, it will add a quality of reception unobtainable without it.

The secret of "B" battery satisfaction and economy is

- -With sets of from 1 to 3 tubes, use Eveready No. 772.
- -With sets of 4 or more tubes, use either of the heavy duty batteries, No. 770 or the even longer-lived Eveready Layerbuilt, No. 486.

We have prepared for your individual use a new booklet, "Choosing and Using the Right Radio Batteries," which we will be glad to send you upon request. This booklet also tells about the proper battery equipment for use with the new power tubes.

Manufactured and guaranteed by NATIONAL CARBON CO., INC. New York San Francisco

Canadian National Carbon Co., Limited Toronto, Ontario

EVEREADY HOUR EVERY TUESDAY AT 9 P. M.

Eastern Standard Time For real radio enjoyment tune in the "Eveready Group." Broadcast through stations—

WEAF-New York WFI-Philadelphia WSAI-Cincinnati WJAR-Providence WGR-Buffalo
WEEI-Boston WJAR-Providence wgr-Buffalo wwj-Detroit woc-Davenport wtag-Worcester wcae-Pittsburgh ksd-St. Louis wcco-Minneapolis, St. Paul





Our Guarantee Every article exactly as represented. Every article is tested before shipping. Complete satisfaction or money cheerfully refunded.

Don't Buy Anything in Radio Until You Get Our

Big Money Saving Catalog RANDOLPH RADIO CORPORATION

The Largest Exclusive Radio Mail Order Houseint he World 159 N. Union Ave., Dept. 229, Chicago, Ill. Our Catalog

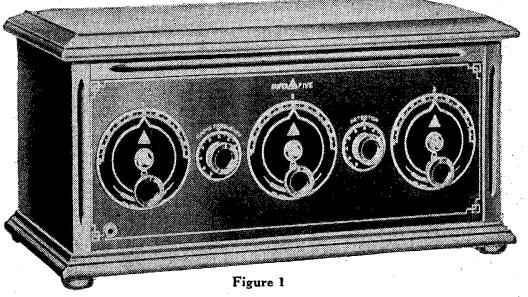
includes complete list of broadcasting stations and general information and facts about our free service division. Our radio engineers will help you solve all your radio problems. Send your name and address on a card or in a letter. We will send catalog FREE.

OPERATING AND TROUBLE SHOOTING

OPERATING and Trouble Shooting, is a Radio Digest feature, the purpose of which is to give practical information on the operation, care and cure of simple troubles in every kind of receiver. Standard Radio receivers of wide distribution and use are studied from the standpoint of instructions for installing and connecting, tuning and operating, and remedying little difficulties. The suggestions below, if executed faithfully, will make winter broadcast listening yield all there is to yield to the reader and give your set a fair chance to show its worth.

For the Owner of an Apex Super Five Receiver

OUPER FIVE is a tuned radio frequency outfit that can well be classed with the "better" group of sets of this type, The designer was plainly both conscientious in his combining of symmetry and efficiency, and knew his business. Frankly, we liked this receiver exceptionally well. No attempt has been made to combine controls and tuning is done with three dials operating independently. The smaller dials are a sensitivity or regeneration control, and a rheostat for the two radio frequency tubes and the detector. This is not a particularly complicated arrangement and the user quickly learns the knack



ground connection to furthest end of straightaway wire. Since the average ground lead is about 10 feet, and the average lead-in is about 25 feet, it is recommended that the straightaway between insulators be 40 feet. This aerial installation should be well insulated, as high above surrounding buildings and trees as possible, and at right angles to street car lines, lighting and power lines, etc. The connection to ground should preferably be made to a water pipe with ground clamp. The surface of the pipe should be scraped clear of corrosion all around, for a length of about 2 inches and the clamp applied at this point. The wire from the ground binding post of the set is then secured to the clamp. Two binding posts are found at the rear left corner inside marked ANT. and

A special means, exclusive to the Apex, is provided for making connections to the batteries. Within the set, just to the right of the ANT. and GND. binding posts is a peculiar looking little block with five springs secured around it. Through The antenna and ground system to be a large hole in the back of the cabinet used with Super Five can be anywhere you push a bakelite plug connected to a

between 35 and 75 feet over all from actual five wire cable and this plug fits down over the block to make all connections to the set simultaneously. This set was operated on both dry and wet B batteries, This set was several B eliminators and two different A power units. There is nothing peculiar about its circuits that prevents it being used successfully with any of these devices.

If B batteries are used it will be found good policy to use two units of 45 volts Among the storage battery units, Prest-O-Lite, World and Hawley are suggested while of all the dry B types, the Eveready number 772 units will be most economical. To the negative terminal of one of the B batteries, connect the yellow covered wire in the cable. The plus terminal of this same B is to be connected by a short wire to the minus of the other B and also to the blue wire in the cable. The plus post of the second B gets the salmon colored covered lead.

The power supply to light the filaments of the tubes may be either a six volt storage battery or one of the A power units on the market. In either case there will be a plus and a minus terminal for the to the influence of the antenna and ground, two remaining wires in the cable. The (Continued on page 26)

plus post of the battery will be identified by POS., a + sign or a daub of red paint. To this terminal connect the bright red wire of the cable. The second post of the storage battery is, of course, the negative and this gets the green covered wire. The terminals of an A power unit would be connected the same way. If storage batteries are used for both A and B supply, they can be charged without removing cable connections, provided plug is pulled from its pillar in the receiver, which can be done through the hole in the back.

This set may be operated without a C battery as the two C battery binding posts are connected together at the factory. With B battery voltages of 90 or less, the C battery is not absolutely essential, although its use will improve the tone quality, noticeably. It will also decrease your B battery drain, which is equally important. The Eveready C unit is suggested with the "minus" and "plus 41/2" posts connected to these corresponding posts within the set. Be sure to remove the wire connecting the C+ and C- binding posts before connecting the C battery. The use of this set without C battery is discouraged by the manufacturers.

The speaker binding posts are located on the base panel, inside, over toward the left and attention is called to the fact that one is plus and the other negative. The speaker terminals at the end of the twin conductor speaker cord are identical in appearance except that one has a red or green tracer thread woven into the insulation. This terminal must go to the + speaker binding post in the set.

Five tubes of the A type are to be used in Super Five. These can now be inserted in the sockets and, for first trial, no particular attention need be paid as to which goes in any particular socket. The filament switch is to be turned to the "On" position and the small dial marked "Detector" turned to the right. All tubes should light up and, with the "Detector" dial at about 80 we are ready to tune this set.

This set is provided with three vernier tuning dials and their settings will be rather close for any given station. Due



Surprise Your Friends

With The Improved Tone Quality of Your Set

T IS NOT ENOUGH that a good radio receiver is selective or is able to bring in distant stations. Quality of reproduction is now considered as important as selectivity and sensitivity.

Fortunately, the tone quality of your radio set can be quickly improved and perfected without disturbing the existing wiring of the set. All that is necessary is to replace your present audio-transformer amplifier with a Bradley-Amplifier. This compact unit employs no transformers and amplifies all tone frequencies with laithfulness and clarity, and without distortion.

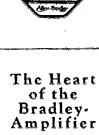
It is a mark of distinction to have a radio receiver of fine tone quality and you will surprise your friends with the remarkable improvement in your set that follows the use of a Bradley-Amplifier. It is as easy to install as a B-Battery and usually can be installed within the receiver cabinet.

Be sure to try one, tonight.

Ask Your Nearest Radio Dealer for a

Resistance-Coupled PERFECT AUDIO AMPLIFIER

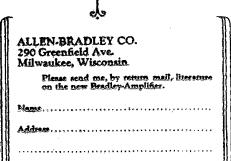
the state of the s





TUCKED away within the polof the Bradley-Amspicuous,solid molded resistance units known as Bradley-

The Bradleyunit is the heart of the Bradley-Amplifier because it alone can amplify the incoming tone frequencies without distortion. It replaces the ordinary bulky audiofrequency trans-former and elimi-nates the most frequent cause of distortion in a radio receiver. The Bradleyunit cannot de teriorate or change





"26 Years Making Good Instruments"

The second s

THE APEX SUPER FIVE

(Continued from page 25) which varies with each installation, dial number 1 will be somewhat different throughout the scale, from the others, but dials 2 and 3 will be practically identical in their settings. There will be slight exceptions to this when adjusted for very maximum sensitivity and range but never more than 1 or 2 degrees difference.

The radio frequency control located be tween dials 1 and 2, is the vitally important adjustment on this set, as its proper adjustment, in conjunction with the tuning dials, will increase both the volume and selectivity. Super Five is so designed and constructed that it can be made to oscillate at all wave lengths below 500 meters on the average aerial, as any set of the tuned radio frequency type is most sensitive and selective when operated just below the oscillating point for any wave length. The radio frequency control can be left in such a position that set can be made to squeal at any point on the dial but this is to be avoided due to the disturbance caused in neighboring sets.

After a little practice in tuning, you will learn the approximately correct position of the radio frequency control for different positions of the dials and it should be kept at a point just below that at which thumps are heard when the three dials are brought to correct settings and resonance. The lower the wave lengths being tuned the farther back must the radio frequency control be set. On different antennas. the radio frequency control takes different settings in its relation to dial settings and, if the antenna has extremely high tacts.

resistance, the control may not bring re- KGW 'HOOT OWLS' HOOT ceiver up to regeneration on the higher wave lengths. The setting of this control will also change slightly for different B voltages on the pink lead of the cable. If regeneration or squeal cannot be obtained at higher tuning dial settings, increase the voltage between the pink or salmon colored lead and the minus B. Any B voltage up to 135 volts may be used and the higher the voltage the greater the volume and, occasionally, the greater the range. On voltages over 90, a C battery of 6 volts should be used.

When receiver is operating, and tuned exactly to an out-of-town station, vary the blue lead on your B battery as some A tubes require a rather critical B voltage for best results as a detector. Good reception was obtained with voltages down to 16 on this lead but trying several tubes in this socket showed the average best voltage was close to 45. Burn your radio frequency and detector tubes as low as possible, as controlled by the small dial between tuning dials 2 and 3, without loss of signal strength, and try slight readjustments with a distant station tuned in. Once you have determined the lowest (most economical) setting of this control, with full volume, you can leave it there.

(The Thorola Islodyne, a receiver of wide distribution and usage, will be explained next issue in another "Operating and Trouble Shooting" article.—Editor's Note.)

Soldered joints in a receiver are better they insure better and more lasting con-

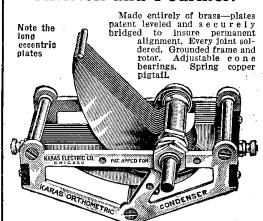
decided to hold meetings each Monday and Friday night from 11 o'clock to midnight. This custom was later revised to make the meetings come each Friday night from 10:30 to 12, midnight. This revised schedule has been strictly observed since its inauguration.

Now for the frolics, themselves!

Each Friday night, promptly at 10:30 and without warning, the KGW microphone is switched on the air and a squeaky, tinny, and extremely wierd conglomeration of noises pour out into the air. The wise, initiated listeners will immediately recognize this as originating from the Owlorgan, a form of calliope adopted by the degree team as their official musical instrument. Speaking of music, though, no Hoot Owl meeting is complete without seven or 'steen kinds, in varied and amusing forms. There's always a good, live, peppy jazz band around with a little scintilliating syncopation; solos by some good vocalist like "Enigma," the mysterious Hoot Owl Mystery Maid, or Helen Nordstrom Booher, snappy blues singer, or Kathleen Duffy, merry little Irish soprano; the Whiffledophus or, in everyday English, a marimba spanked by Julius Walter, KGW staff pianist; snappy Pantages head liners; or maybe blues songs by Grand Songsmith Alan (Punch) Green, who sings his own original numbers and tickles out an accompaniment on a ukulele that just than loops over binding posts because delights in making music for Hoot Owl listeners. Then there's the educational (Continued on page 29)

Line Tuning Orthometric Condensers

Specified for the Prize Winning "Straight-8" Super, described in this issue by Christen and Fournier.



How They SIMPLIFY the Tuning of Any Radio Set



Ordinary Condenser Arrangement of Wavelengths Ordinary straight capacity condensers crowd 70 of the 100 wavelengths ne 100 wavelengths points of the dial.



Straight Wavelength Condenser Arrangement With straight-line-wavelength condensers 57 of the 100 wavelengths are crowded into the first 30 points on



of Wavelengths on Dial Karas Orthometric Condensers insure absolutely equal dial separation of all wavelengths, 200 to 600 meters.

If your dealer hasn't secured a stock of Karas Condensers Order on this Coupon!

Most good dealers everywhere, sell Karas Orthometric Condensers. If your dealer happens to be one who hasn't secured them, we will supply you direct on our 30-day Money-Back Guarantee. Just fill in and mail this coupon at once. Send no money. Pay your postman on delivery.

	IZES AND		
23 plate,	.0005 mfd		\$7.00
17 plate,	.00037 mfd	***************************************	6.75

5 plate,	.0000972 mf	d	6.50

Karas Electric Co.. 4044 N. Rockwell St., Chicago

.....Karas Orthometric Cor-

Dealer's Name If you send **cash with order, we'll send package postpald**

Peceivers Operate Sets Construct Parts Improve Reception Understand Radio Assemble Circuits THE greatest assemblage of facts and hints, from actual everyday practice, ever

FREE With Une Year's Subscription to Kadio Digest

gotten together. Edited by the technical staff of Radio Digest it supplies the demand for a book covering every phase of Radio from a simple explanation of Radio reception to a technical explanation of the different parts of a set which leads to the best reception possible. The sections on selecting and making sets develops the different types of sets and circuits with diagrams to explain same. "How to Operate" gives detailed information on the operation of all the well-known sets. The section of general

information contains a complete Radio map and schedule and a section of workshop kinks which save time and money. Now is the time to take advantage of the exceptional offer as listed in the coupon for your convenience.

This Handy Radio Reference Book Is Yours Today Use the Coupon—Mail Today

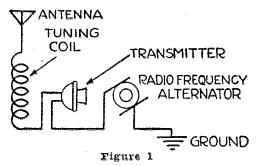
Radio Digest incl Book called "Rad	ve dollars for one year's subscription uding FREE the New 124 Page I o Receivers—How to Operate and	Radi
to Make."		1
ADDRESS		
CITY	STATE	

ABC Radio Fundamentals for Everybody

Chapter I—Audio and Wire Telephony

By Milo Gurney

pleasure to have compiled a great many articles of a technical or semi-technical nature, which made an appeal only to those interested in the construction of Radio receivers, or the principles involved in their design, he has for a considerable period been requested by literally thousands to answer questions concerning such articles, from the Radio fans of this and other countries. majority of these have very definitely indicated that altogether too many of such constructors were securing but mediocre results from such receivers as they constructed, because of one of two apparent facts, viz, they were either denied an



opportunity to study the theory and application of Radiophone telephony, in order that the associated apparatus comprising such receivers might be arranged and correlated in a manner to insure satisfactory results, or, not unlike the Arkansas traveler, who could not discover any logical reason for mending his leaking roof so long as it did not rain, they, too, cared little or nothing about giving any thought or study toward learning just why the wheels went 'round. Just so long as the receiver repeated sound, all was well, and the moment it failed to function, they could "let George fix it" through appealing to the technical editors of Radio magazines.

Obviously, this attitude was fundamentally wrong, and yet I am most grateful to the vast majority who made appeals for help to me, as it furnished, through their letters of inquiry, an opportunity to secure a most comprehensive study of that which the public desires in Radio receptors. They were of incalculable value toward more simplified design, together with a most interesting expose of the pitfalls which should be avoided when writing construction articles in order that measure, just what it is all about. the builders may be assured of greater

which govern its mode of transmission voice and music were transmitted a dis-

HILE it has been the writer's truly marvelous as a means for the trans-of the circuit shown in figure 1, this over a distance of 11,700 miles, or pracference of intelligence that it is justly decided assistance toward greater achieveentitled to command a much clearer ments in the then comparatively new art understanding of the simple formulas or science of wireless transmission, both

> TEARLY three years ago, just another new "Whiz Bang" circuit pest darkened our editorial door, and before we could offer him the usual courtesy of being thrown out, he had sold us the idea that like Rome, his circuit had not been built in a day. We signed for three "how to make" articles - we published twenty-three. Eight thousand fans built it, and over twelve thousand fans inquired about it. Then he finally confessed.

> All of which is but a preface toward re-introducing to you Milo Gurney-the Mystery Man-King Miloplex, familiarly known as King, which he admits is correct outside of his home. Mr. Gurney begins with this issue a series of fourteen articles upon "Radio Simplified," each interesting, instructive and replete with simple explanations which all may understand. You'll have to read this series. He's just as good as ever.



Milo Gurney

it will be the author's purpose in this series of articles to simplify the complex technicalities of Radio as the engineer approaches it, through explaining by the use of analogies which are within the experience of all laymen-each a counterpart of the public's every-day life, each detail surrounding the methods employed, and the appartus required, both for the transmitting station as well as the receiver; to attempt to lift the veil of uncanny mystery which appears so broad and overshadowing in its effect as to frighten the tyro into the belief that only from years of study and experience can

Less than 18 years ago, following the invention of the Alexanderson after-

one hope to comprehend, in even a small

and reception. With this thought in mind, tance of 12 miles, and shortly thereafter to the then phenomenal distance of close to 200 miles, while today the transmission of both voice and music has been verified

tically half way around the earth. This distance was so great that a considerable discussion has arisen within the engineering fraternity as to whether the reception from the broadcasting station was received from the East or West, because of the likelihood of error in the measurement of distances to the point of recep-This accomplishment is cited not only to indicate the vast strides toward perfection which have taken place, but to impress upon the reader's mind the importance of learning something relative to the whys and wherefors surrounding this agency which is commanding such univer-

Audio telephony, or the process whereby one person may carry on a conversation with another through the medium of the air, is in a large measure very closely related to the methods used not only in our everyday telephone conversations, but also in the transmission and reception of Radiophone telephony, each resembling the other with respect to the passage of energy from the transmitter, or speaker, to the receiver, or listener, which has at its inception been molded, or in the terminology of Radio been modulated, into the form of wave which the listener may identify and understand. This modulation is not visible, but a compounding which is readily recognized by the ear. In no sense could the ear distinguish the modulation of writing, which would, however, be the only means of recognition by the

Figure 2 (page 28) shows the manner in which sound waves pass or travel from the speaker to the listener, the voice of the speaker causing the surrounding air to vibrate, and thereby starting the waves of compression and rarefaction which travel unchanged to the listener's ear,

(Continued on page 28)



Positively given Free with each purchase of a WORLD "A" Storage Battery. You must send this ad with your order. World Storage "B" Batteries give you economy and performance unheard of before. They

deliver unfailing power that is clear, pure and quiet. Tested and Approved by Leading Authorities. Radiocast Station

> W.S B C Set your Radio Dials at 210 meters for the 1000-watt World Storage Battery Sta-tion, WSBC, Chicago. On the air nightly, between 6:30 P.M. and 8:30 P.M. and 10:00 P.M. and 1:00 A.M., with intensely interesting programs for your approval and enjoyment.

2-Yr. Guarantee Bond in Writing

with each Radio "A" and Auto Battery, WORLD Battery owners "tell their friends." That's our best proof of performance and is chiefly responsible for the tremendous growth of the Company. Compare these prices then send your order in TODAY.

Solid Rubber Case Radio Batteries

Solid Rubber Case Auto Batteries 6-Volt, 100-Amperes . \$11.25 | 6-Volt, 11-Plate . \$11.25 | 6-Volt, 120-Amperes . 13.25 | 6-Volt, 13-Plate . 13.25 | 6-Volt, 140-Amperes . 14.00 | 12-Volt, 7-Plate . 16.00

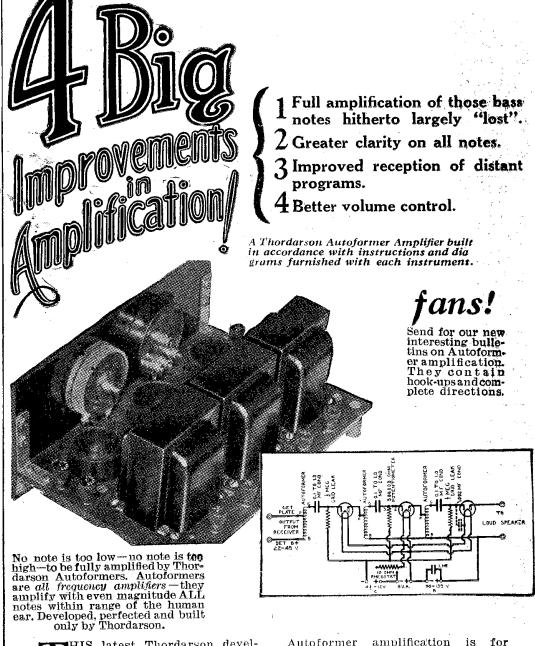
SEND NO MONEY!

Just state battery wanted and we will ship day order is received, by Express, C. O. D., subject to your examination, on arrival. FREE "B" Battery is included.

EXTRA OFFER—Five per cent discount for cash in full with order. Buy NOW and get a guaranteed battery at fifty per cent saving to you.

WORLD BATTERY COMPANY 1219 S. Wabash Ave., Dept. 48 Chicago

World Batteries for Radio



HIS latest Thordarson development—the Autoformer—utilizes for the benefit of your radio set, the same principle used in the line amplifiers adopted by the recent high powered broadmore recent high-powered broad-casting stations. The excellent tone quality of these stations—due to perfect amplification—offers proof of Autoformer effectiveness.

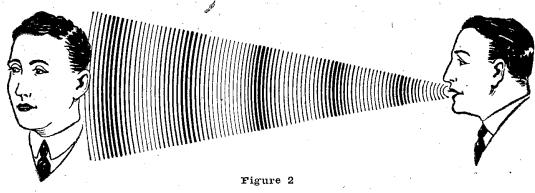
Autoformer amplification is for those who seek the finest reproduction of programs to be had. May be used with any set in place of regular audio transformer hook-up. Full directions, with diagrams, supplied with each instrument. Autoformers are \$5 each.

Sold by the Leading Dealers

THORDARSON ELECTRIC MANUFACTURING CO. WORLDS OLDEST AND LARGEST EXCLUSIVE TRANSFORMER MAKES

Chicago, U.S.A.

HOW SOUND WAVES COMPRESS AIR



(Continued from page 27)

where they in turn create rapidly vary ing vibrations upon the listener's ear drums in synchronism with the modulated sound wave received, which are shown as continually expanding spheres. The amplitude, or width of the band, is portrayed by the shaded portions in the drawing.

In wire telephony a like condition obtains, with the exception that the sound vibrations are carried through the wires electrically. In, or during, this procedure a continuous direct current of electricity is continually passing through the transmitter and receiver of the telephones being used, thus replacing the air medium as used in audio telephony or voice conversation. During this continual travel of direct current, so long as it is not modulated, both the transmitter of the telephone and the receiver will remain silent. When, however, a voice or other sound is made which strikes against the diaphragm of the transmitter, it in turn causes the diaphragm to vibrate and in doing so the resultant varied to-and-fro motion compresses also at varying degrees a mass of tiny carbon granules held within a container directly back of the transmitter diaphragm and through which the above-mentioned direct current of electricity is also traveling. This alternate varying compression of the granules increases or decreases the resistance of this mass, which in turn retards the free flow of the direct current and establishes a fluctuating or pulsating current which follows the connected wires of the two telephones unchanged, creating a varying pull and release upon the diaphragm of the receiver, which is an exact reproduction of the vibrations which were originally started at the transmitter, thus causing the listener to hear a repetition of the speaker's voice. The pulsating current thus created being and constituting the molding or modulation of the original sound, it is obvious that we have not changed the basic principles as used for person-to-person conversation, but have taken advantage of the wire and its associated electrical current as the medium for the transference of sound. It should be clearly understood that in wire telephony it is an electric current rather than the sound itself which flows through the wires, and it is this current, modulated to our requirements, actuating purely mechanical devices, which are capable of reproducing the wave form of the sound in the manner shown through figures 1

While wire telephony has become so common that it is now not even given passing notice, but is accepted as a medium which has always been existent, I would be unfair did I not mention that to this day vast armies of scientists are continually employed for the sole purpose continually employed for the sole purpose of continually bettering the results of communication by telephone, and it would not be surprising, because of this



How to Make More Money

Sell radio, spare time-evenings. A demonstration means sure sale. Whip any competition—longest distance possible—lowest prices—big commissions. No selling or radio experience necessary. 12 sales lessons and 10 radio service lessons FREE. Local ads, attractive booklets and letterheads with your own name. Exclusive territory to proven men. Start right now to build a permanent business of your own.

\$100 Weekly in Spare Time

Many representatives making from \$50 to \$100 weekly, working evenings—you can do the same. Our 84 page Ozarka plan will prove it—FREE copy for those who ask for Book No. 100. Better write today—territory going fast—only plan of its kind—a proven success for four years. Don't fail to give name of

OZARKA, Inc. 122 Austin Avenue C, Chicago, Illinois

ABC'S OF RADIO SETS intensive study, to read an announcement, within a very short time, to the effect that overseas telephony is now available to those desiring to take advantage of it.

(In next week's article Mr. Gurney will take up the inter-relation of Radio to the fundamentals of voice communication, explaining in his interesting manner the mystery which surrounds this latest of scientific wonders .- Editor's note.)

RADIO RULES GEORGIA

(Continued from page 4)

simple matter. We had the local Russian garrisons bottled up; the passes are few and, passing over the topmost heights of the wild Caucasus, are easy to defend, provided one can prevent the Russians using the railway line.

"It so happened that the party to whom we had, in September, 1924, confided the all important task of blowing up these bridges, failed in its attempt and was surprised and dispersed by a Red de-There was another of our forces within striking distance, but we who led the movement were not able to warn it in time. They got our order to march on the bridges just too late; when they got there they found the Russians had rushed armored trains and troop convoys to the place and held it in such strength that with the means at our disposal an attack was hopeless.

Bridge Lost the War

"That lost us the war. Otherwise, we could have stood our ground till our brethren from Adzerbadjan, who were being secretly armed and equipped by the Turks, could have joined up with us.'

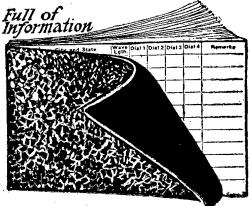
The lesson has not been lost, and when next the fiery cross is sent round the Caucasus valleys to summon the Georgians to arms, Radio will not be wanting. In the meantime Radio is already there,

keeping the spirits of the people tense, helping to prepare for the next rising, a powerful, invisible enemy of Russian rule, present everywhere, seen nowhere.

The Georgian Provisional government, with the president, M. Jordiana, at its head, took refuge in Paris, where it still exists and, thanks to Radio, keeps in constant touch with its people.

Unlike many others, the Georgian government, in its hurried and enforced exit

More Radio



Send No Money

64 pages valuable information necessary to enjoy you radio. 10 Radio booklets bound as one. Beautiful cover Gold lettering. Loose leaves for inserting revised pages We print new pages as changes occur in wave lengths, owners, addresses, calls, etc., and as new facts and discoreries are secured. We ship latest edition. A few features of this "up-to-the-minute" Badio Book are log holding 476 stations, Dictionary Radio Terms, Tuning Suggestions, Trouble Finders, Trouble Preventers, Repair Hints, Station List numerical by wave lengths—both in meters and kilocycles, List alphabetical by states and citles, List of Owners and Addresses, Answers to Questions, etc. So convenient. Get clearer programs, Increase your selectivity. Eliminate your troubles. Enjoy your radio MORE. Worth many times small cost.

Write NOW for radio pleasure book. We print new pages as changes occur in wave lengths, own

Large Colored FREE With First RADIO MAP FREE Order Send no money. Pay postman \$1 after revisable Radio Book and FREE map arrive. Postpaid if pay with order. Money refunded if not delighted. Order today—NOW. Radio Printers, Dept. 9411, Marengo, Ill.

with it abundant sinews of war. These shiploads of wealth were duly saved; cash, manganese, gold and silver ware, the treasure of the Georgian churches. The cash supplied the means for the September rising. The manganese was sold here in Constantinople, and with part of the proceeds, in the beginning of 1925, a powerful Radio transmission set wäs bought, with a large number of receiving

These were packed in forty cases and smuggled across the frontier on donkeys' and mules' backs with the connivance of the Turkish officials. The station works 'somewhere" in the lonely hills, in a place known to but a few of the leaders, and carefully watched over by faithful picked tribesmen so that no Russian ever gets near it.

Leaders Own Receivers

Receiving sets are owned by the principal leaders in their mountain fastnesses, and two of them are in the city of Batoum, carefully concealed. In some ways one of these is the most important, for it supplies a daily news service to Georgia's only free newspaper. This sheet, depending entirely on this clandestine Radio for its news, is published daily in secret, and, despite all attempts of the "Cheka," the Russian secret political police, to check it, is distributed throughout the country, and can be bought by those in the know, under the very nose of the Russian policemen in the streets of Batoum.

Thus does Radio keep alive the flame of independence and patriotism through-

The headquarters of the Georgian move mènt are, as stated, in Paris, where by a curious anomaly, since France has recognized the Soviet government, the members of the Georgian Provisional government are still on the regular diplomatic list. But it would obviously be a breach of diplomatic etiquette on the part of France to allow one of her sending stations to be used for the purposes of the Georgian leaders, so the actual transmission is done via Constantinople.

Up till now the transmission station used has been that of Osmanie, just outside of Constantinople. This station is shortly to be renovated and will be greatly increased in efficiency. The new station will have two alternators of 25 kilowatts each.

The transmission station in Georgia, the purpose of which is to keep the members of the Georgian government in Paris

\$4 Postpaid

ORDER TODAY

Bollar Bill Will Do

WO BIG BANKS

Testify To Our

Amazing Re-sults, Better

Reception Guaranteed or We Refund Your Dollar No Radio Complete

Without It!

Now you can select stations at will, cut out interference and un-

desired stations—tune in loud and clear. Wonderful

results with any tube or crystal set. Over 150,000

sold. Partially absords

Select Stations

At Will Try this Radio Wonder at our risk. Nothing to add—attach in 2 minutes to aerial. No tools—no extra tube or battery — Doesn't disturb present log. Order today—money backliyou say sa.

FREE Complete Steinite Literature.

Steinite Famous 1500 Mi. One-Tube Set \$6; Crystal Set \$6; Crystals 50c-3 for \$1; 5-Tube Set -\$29.75.

STEINITE LABORATORIES

303 Radio Building Atchison, Kans.

from its native land, was able to take informed of everything that goes on in the country, is of 30 kilowatts

Paris Hears from Georgia Constantinople relays the messages received, which are eventually picked up in Paris. A special code is used, so that the messages are not easily decipherable.

The Russians have long suspected the existence of this secret Radio organization and have made the most strenuous efforts to locate it, but so far in vain. They have tried to counteract its effect by broadcasting Red propaganda from their Tiflis station, but this has been singularly ineffective, for the good reason that almost the only people in Georgia who have receiving sets are the leaders of the independence movement who are, of course, quite impervious to the Tiflis propaganda.

The code messages received by the Georgian central station are, if they are meant for publication to the people, relayed "in clear" to the secret receiving stations.

To Keep Your Cabinet New

Modern Radio cabinets are made with the same care and finish as fine furniture, and just as much pains should be used in cleaning and polishing them, if their original beauty is to be preserved. It is only necessary to follow a few simple rules in order to keep cabinets in the best of condition, according to experts of the Crosley cabinet factory.

Before polishing a cabinet, the dust should first be wiped off with a piece of cheesecloth. A mixture of equal parts of benzine and parafin oil should then be applied, with a clean piece of cheesecloth. Finally, all traces of the oil should be thoroughly polished away. Regular rubbing with oil in this way will not only preserve the finish of the cabinet, but actually improve it in the course of time.

Scratches accidentally made through the finish, in such a way as to expose the natural color of the wood, may be covered up by the use of a little mahogany or walnut stain (according to the finish of the cabinet). After the scratched or rubbed part has been stained, a thin coat of shellac should be applied to it. This should be allowed to dry thoroughly, and another thin coat of shellac applied. After the second coat has thoroughly dried, the whole cabinet should be carefully polished, as outlined above.



agrand minute annual minute annual partition of the state of the state

Powel Crosley, Junior has always done the unexpected.

His Announcement of December 26th was no exception to that rule.



Straight-8: Outside Aerial Tuned R.F. Super

Part IV—Adjusting and Operating

By A. Christen and Jacques Fournier

ANY readers who have built superheterodynes before are apt to go into the operation of Straight-8 with too much confidence for best results. As was stated at the beginning of the series, this receiver is peculiar in many ways and there are several important points to adjust before the maximum can be gotten out of it. First of all, however, we will get this outfit hooked up with its accessories and then the symptoms observed will direct the corrective measures.

Considering the set from the front, the antenna lead-in connects to the first binding post at the left, while the connection from ground goes to the second post. The positive terminal of a 6-volt storage battery is then connected to the third binding post, its negative terminal to the Now insert all tubes in their sockets, eight "A" tubes being used. Turn all rheostats over toward the right and note whether all tubes light up and whether rheostats give proper control of brilliancy. The rheostat at the left end should vary the brightness of tube 2, that in the center should vary tubes 3, 4, and 5, while that at the right should control

Connecting Batteries

Then connect the negative post of a B battery unit to the fifth binding post and its plus 45 to the sixth. Its plus should also be connected to the negative of another B unit and the plus 45 of this second B goes to the seventh post. An Eveready 41/2-volt C battery is then placed to the right of socket 7 and the first Meloformer, with its minus post toward the rear. The flexible lead from the F terminal of the Meloformer goes to minus while the plus 4½ clip goes to the flexible lead connected to the front left post of socket 7. The flexible wire mentioned at the end of operation 15 goes to the minus terminal of a C battery of either 4½, 7½ or 9 volts while the plus end of this C goes to the flexible wire of operation 16. There is room for these last named C units under the sub base just to right of bracket.

A loud speaker can now be plugged into either jack in lower left corner and tuning tried. The rheostat at left is turned practically all the way to right, as is that at the center. The rheostat at the right is turned to point about straight upward. The potentiometer at right is turned to point straight upward also. On the original model the dials are found to be in resonance about 10 figures apart. When that at the left reads 30, the other reads 40 at maximum tuning of a station. Yours will vary from this slightly but not much.

Corrective Measures

At this point there may be any one of four things wrong. The left potentiometer may be advanced too far to the right, the right potentiometer may be too far over, the left and center rheostats may not be far enough over, or the feedback within the set may be reversed. Try different settings of the rheostats and even the position where tube is full on. The right potentiometer, if turned too far to right, will develop a loud roar in the speaker as, in that position, it permits the three intermediate tubes to go into oscillation. A setting just to left of the roar or loud hiss point is that of maximum sensitivity.

You can readily determine whether the теедраск arouna tube rect by dampening the forefinger and touching the grid post of socket 2. There should be a "pluck" in the speaker as your finger touches and, more important,

with the left rheostat turned clear to right, this cannot be heard it will be necessary to reverse the connections of coil L5. These connections were covered by operation 19 so refer to that and connect the leads from socket 2 and the Victoreen coil just the opposite, as regards inner and outer end, to description. It all depends on how you wound and mounted this coil.

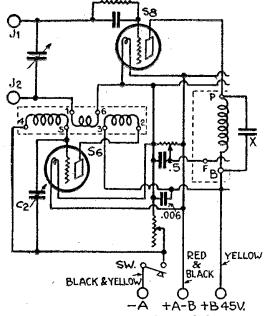
With tube 2 oscillating well, we can now proceed to the next point. Due to the fact that 2 is oscillating and tube 1 | further or remove turns from the 10-turn

unit which gives 67 volts between that point and minus on the first B unit.

The chief point about this set is its selectivity and, as you now have it, there should be sharpness of tuning sufficient to suit anyone. Either of the first two oscillation control measures mentioned above, namely separating the coils or removing turns, will help, but, for selectivity, the better corrective measure is to either separate the coils on the sub base

another when the finger is removed. If, | 221/2-volt clip on the second B battery eter and to left variable condenser rotor. You will get harmonics on very nearby stations; that is unavoidable when within 10 or 12 miles of them. However, if you are out in the great open spaces instead of the Rogers Park or Edgewater districts of Chicago, these will not be found. Don't be afraid to experiment with this outfit, it has in its circuit and principle the last word known at this time in the way of both range and selectivity on a super. Due, though, to variations in tubes, your winding and mounting of the coils, your location and antenna intallation, we can-not give you every exact detail for perfection. We have endeavored, in this chapter, to cover the remedies for the only two possible sources of "grief" we could find or think of but you may be able to improve your own assembly a great deal by some simple little change that did not happen to be necessary on ours.

IMPORTANT GRAND PRIX SUPER CORRECTION



MMEDIATELY upon completion of the articles relative to Grand Prix eight tube super-heterodyne we began receiving reports that it was O. K. in every respect except selectivity. At first we thought it might be that a few had built without sufficient care or had substituted parts, as the original was exceptionally sharp. The set as built by Mr. McDonald has been checked time and again against the diagrams and articles and the fault has finally come to

If you will refer to figure 7, in the November 7 issue, you will note that the plate of the first tube connects to the first P terminal of the Multiformer unit and the first B connects to plus 45. No other connections are shown to those terminals. There should have been a fixed condenser of .0005 mfd. capacity connected across P and B to sharply tune this first coil. It is in McDonald's

set, but up between the base of the Multiformer and the under side of the sub base or shelf, didn't show in the photographs and is easily overlooked in actual study of the set itself.

The technical editor and Mr. McDonald offer their sincere apologies for the worry and difficulties this may have caused you. We are all human, though, and will err at times. Part of figure 7 is shown here with the missing capacity connected in as condenser X.

at first that it is difficult to keep 1 from oscillating or being too regenerative. When the left potentiometer is clear around at left, it should stop this, with increase of regeneration and sensitivity as it is turned to right. Should this potentiometer not afford sufficient control, three remedies are possible. As mounted beneath the baseboard, the 25-turn primary is ¼ inch from the double coil. By altering your mounting arrangement, and bending the bracket slightly, you can move this coil further away from the double coil. Of course you are limited as to how far you can separate them but when experimenting with this point we found a distance of 11/8 inches could

A further corrective measure is to cut down the number of turns on the single 25-turn coil to about 20, by removing turns from the inside. This will also have the effect of making the tuning sharper. If this method does not appeal to you, or you find the tuning plenty sharp already, disconnect the + terminal of the first Victoreen unit (that under socket 2) from the B+90 wire to which it is now soldered, and put in another binding post at rear edge of sub base for this + terminal of the Victoreen. From the B battery run a wire to this post giving 67 volts; that is, connect the wire to the

un-acid everlasting rechargeabl "B" STORAGE BATTERY **\$9**5 Includes Chemical (M. 1975)

317 Washington Ave., Danbury, Conn.

is a sensitive R.F. amplifier, you may find | antenna coil. Try cutting these out, from the center, two at a time but do not go any further than taking off 4 turns.

Various values of C battery may well be tried in the tuned R.F. stage which is tube 1. This is the C battery connected to the center terminal of left potentiom-



You can do it—casy. 3 lessons free with each new instrument give you a quick start. Practicing is fun because you learn so fast. And it will make you popular, in demand, the center of attraction everywhere you go. Always a hit. Even if you have failed with some other instrument, you can learn the simplified Buescher Saxophone. Don't descriptions of the saxophone of the saxophon lay. Get into the big fun. Any instrument sent for 6 days' free trial. Easy terms if you decide to buy. Write now for beautiful, free literature. Address:

Buescher Band Instrument Co. (1-21/2) 1222 Buescher Block Elkhart, Indiana

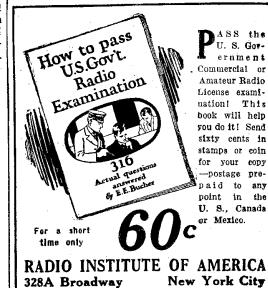
KGW 'HOOT OWLS' HOOT

(Continued from page 26)

department which, headed by Professor Sedative P. Seidletz of Grand Scream, presents some humorous little skit each week. Besides, there's patter and jokes and whatnots to intersperse musical offerings, thus making up a highly versatile and diversified program.

Webster's unabridged doesn't offer any definition of the word, but an interview with the chief of Hoot Owls, Charles E. Berg, the Grand Screech, brought out the fact that a Hungari is nothing more or less than a celebration of each birthday of the Hoot Owl order. Friday, January 8, was observed as the end of their third year of existence, and in view of the fact that they're still alive and kicking BIG, there were plenty doin's at the big banquet and model Hoot Owl frolic held at the Multnomah hotel.

Places for about several hundred and forty 'leven guests were provided for in the main ballroom, but every plate was applied for before the slower ones even awoke to the fact that there was to be a Hungari. Those that couldn't get to go, though, tuned their sets to KGW and heard the whole business—from the drinking of Owl soup to the patter and comical sayings by the Grand Scream, Frank Sardam.



Gets Everything But Noise!

Read this convincing letter from a man who has "listened and marveled":

76 Dantest, Montreal, Can., Nov. 27, 1925. Gentlemen:

I am using a Freed Eismann NR 5 Neutrodyne, and there is no comparison in the present reception of the set with the Kane Antennae as with the old 75 feet single wire. It has eliminated all power induction and cuts out static, oscillating sets, and stations are coming in 100% closer and clearer than before. I am getting low wave stations which I could not get before on account of power-house motor transformers running daily. People are inquiring every day about this outfit and many of them are going on the roof to copy it.

Yours very truly, JOS. RICHARD."

Most outside aerials are not over-particular about the variety of noises they send down to your set with the station waves. But now you do not have to put up with these disagreeable noises. The KANE ANTENNAE entirely eliminates all power noises, such as leaky transformers, generators, motor hums, Delco Plants, etc. Dr. Gehrig of Oakland, Cal., says it has improved his reception fully 60%. Power noises cause more trouble than all other forms of radio interference. Get rid of them NOW by ordering a KANE ANTENNAE.

Get Facts Now About the Kane Antennae!

wonderful Antennae for a dollar bill '(a check will do). If, after looking over the drawing, you decide you

Dept. 823-T, 3343 W. Monroe St.

We will send you working drawing would rather have a factory-built instructions for erecting this Antennae, than build one yourself, would rather have a factory-built Antennae, than build one yourself, we will take back the drawing and allow you full purchase price on an order for an Antennae.

connection

of price accompanies order. THE KANE ANTENNAE CO.

Chicago, Ill.



45 volts, \$5.25; 90 volts, \$10.00; 112½ volts, \$12.50; 135 volts, \$14.75; 157½ volts, \$16.80. Truly the biggest buy today. Easily charged on any current including 32-volt systems. Any special detector plate voltage had. Tested and approved by leading authorities such as Popular Radio laboratories. Over 3 years sold on a non-red tape 30-day trial offer with complete refund if not thoroughly satisfied. Further guaranteed 2 years. Knockdown kits at great savings. Complete "Hawley" "B" battery charger, \$2.75. Sample cell, 35c. Order direct—send no money—simply pay the expressman cost on delivery. Or write for my free literature, testimonials and guarantee. Same Day shipments. B. Hawley Smith, \$17 Washington Ave.. Danbury, Conn.

Questions and Answers

Oscillation Control for Walters Set

HMB, Toronto. Can.

We have had the pleasure of building the five tube receiver described by Mr. Walters in your issues of April 25, May 2 and May 9, and it is the best we have tackled yet out of a great many. We have sold two of them and customers would not trade for any other. We have an order for two, for the Toronto fire department, but before building them want to know if there is some way of preventing this set from going into oscillation so readily, so control will be not quite so delicate.

A .- You will note from study of the circuit that the two R.F. plate returns come together, after passing through their individual primaries, and before going to the plus 90 binding post. Between the point where they join, and the point where they connect with the audio returns and the plus 90 binding post, insert a C-R-L variable resistance of 200,000 ohms. This is made by Central Radio Laboratories of Milwaukee, Wis. With the R.F. tubes turned up bright you can bring the set up to maximum regeneration at any wave

Grand Prix Audio Transformers

RTL, Buffalo, N. Y.

In the list of parts required for Grand Prix you call for two Precise transformers but do not state their ratio. I purchased two No. 480 audio transformers, the ratio of each being 5 to 1. Kindly advise if this set needs two 5 to 1 transformers or if one should be 21/2 to 1. Also where should each be mounted in the set.

A.—The Precise No. 480 audio transformers were to be a 5 to 1, to be placed at right end under shelf and a 21/2 to 1, to be placed between sockets 6 and 7. Credit us with an over-sight as we were so careful to get the circuit and wiring and placing of holes correct that it didn't occur that the placing of transformers might not

Fireside Data

HRN, Washington, D. C.

Please inform me at once of the values of the bypass and fixed condensers as shown by number in your Fireside receiver.

A.-We must advise that you plainly have not read the series on this set as the placing of all condensers was given. However, as given in the diagram, they are as follows: C-5 is .001 mfd., C-6 is 0.5 mfd., C-7 is 0.5 mfd., C-8 is 0.5 mfd., C-9 is 0.5 mfd. and C-10 is 1.0 mfd.

Traveler Panel Layout

GAR, Sandusky, Ohio.

In the doughnut coil set described by John G. Ryan there are two Cutler-Hammer rheostats, one of 15 ohms, the other 30 ohms. Can find no statement as to their position, that is, which goes at left and which at right.

In trying to put on the Dialog dials, I find the center dial interferes with the What is the matter? dials sent by Walnart are slightly over 4 inches in diameter. Are these the ones specified?

CLASSIFIED **ADVERTISEMENTS**

BOOKS

KELLER'S RADIO CALL BOOK. Official; authentic, completely revised every 2 months. All Broadcasting Stations of U. S. and Canada; wave lengths, etc.; log pages; valuable articles. Subscription \$1.00 year (6 issues). Single copies 25c (coin). KELLER PUBLISHING CO., (Dept. 6), ST. PAUL, MINN.

An Introduction to Radio in two volumes. Complete instructions for the beginner, simple circuits, explanation of radio terms. Original price \$1. Slightly soiled 50 cents, while twenty-five sets last. Book Department, Radio Digest, 510 No. Dearborn St., Chicago, Ill.

RADIO

Before buying your Radio. Write for our Radio catalogue. Malone Radio Company. 8 West Ontario Street, Chicago.

newest crystal success. No tubes. No batteries. No grief. Always ready. Works 600 miles. Fully guaranteed. We pay Long Distance Radio \$2.95. Lambert's 600 miles. Fully guaranteed. We pay postage. Order direct from this ad. Leon Lambert, Wichita, Kansas.

SALESMEN WANTED

what the public wants—long distance radio receiving sets. Two sales weekly pays \$100 profit. No big investment, no canvassing. Sharpe of Colorado made \$955 in one month. Representatives wanted at once. This plan is sweeping the country—write today before your county is gone. OZARKA, INC., 126-G, Austin Ave.,

DIRECTIONS FOR REQUESTING INFORMATION

The Questions and Answers department offers service to Radio Digest subscribers without charge and, to those not subscribers, the same service with a charge of 50c for each letter requiring up to three answers or diagrams. We feel that this policy is necessary for the protection and best interests of our regular readers, as the volume of correspondence to this department has increased to such an extent that it is almost impossible to give our subscribers' letters adequate attention nor a complete answer. To those who have long been newsstand readers this may, at first, seem an injustice but a little thought on the matter will show that this is the only possible solution of what has been, to the technical department, a very perplexing and difficult problem. We ask that the following suggestions be read carefully before writing:

1-Search carefully the back issues which you have, as the point in question has probably been covered several times before.

2—The book, "Radio Receivers," given free with each yearly subscription (when received by Radio Digest direct with full remittance of \$5), contains the answers to the majority of the questions asked. If you have this book, go through it thoroughly and it is probable that you will find the solution of your problem.

3-Letters for this department should be kept separate from all correspondence to other departments and on other subjects.

4—Questions should be written on one side of paper only and each sheet should bear the sender's name and address. All letters should be accompanied by a self-addressed stamped envelope of standard business size.

5—Unsigned (or anonymous) letters cannot be answered, either in

A.—We are at a loss to understand how

the dials on the variable condensers in

this receiver could in any manner interfere

with the operation of the rheostat knobs.

We have checked figure 3, the panel layout

drawing, against the set itself and can

ADVANCE PROGRAMS

(Continued from page 21)

Pacific Time Stations KFI, Los Angeles, Calif. (467), 5:30-6 p. m., Examiner matinee; 6, nightly doings; 6:15, KFI's

Get Better Programs

ford Resistance-Coupled Kit.

Price Postpaid \$6.50
C. E. MOUNTFORD

463 Greenwich St., N. Y. City

Has power to draw and hold moisture indefinitely. Highly sensitive to radiolectric energy. To introduce we now offer for a limited time our Regular \$5.00 size for only \$2.00 postpaid. Pin bills or check to this ad and mail today before offer is withdrawn.

SATISFACTION Guaranteed or Money Back FREE Complete description of Ground Hog, and new price lists on all radio supplies, sent free. Send name today.

YALE SPECIALTY SUPPLY CO., 1805 Grand Ave., Kansas City, Mo

Radio Results

Improved 100%

Marvelous new scientific radio ground

gives such amazingly improved recep-tion you doubt your own ears. Stops all leakage. Doubles power and distance. Demonstrates full capacity of your set. Results you never dreamed possible.

Yale Ground Hog

"The Perfect Ground"

FREE LOG with 1st Order

Entertainers expect and appreciate applause cards, YOUR appreciation makes them perform better. Applaud your favorites.

find nothing wrong.

Thank You ===

MOUNTING

600 g g 0 m Oct 1 mot grate CR - g

Radio Digest or by letter, nor can those without address.

6-No comparative statements on advertised apparatus will be given except as to efficiency in some particular circuit.

7—Drawing diagrams on a separate sheet of paper will save time and enable us to give all questions more attention.

8-Write each question as a separate paragraph.

9—Keep a copy of your letter and diagrams, to which we can refer without re-drawing.

10—The names and addresses of the writers of letters published will not be released except with the writer's permission.

11-We want to be of assistance to you in your difficulties, but are sometimes limited because of the length and time required for the proper consideration of the questions asked. Therefore, please make your letters brief.

Seeing California; 6:30, vest pocket program; 6:45, Radiotorial period; 7-8, Examiner hour; 8-9, Aeolian residence pipe organ, Dan McFarland, organist; 9-9:30, Eleanor Holden, soprano; Bud Gore and uke; 9:30-10, Mutual Motors mirth contest; 10-11, program arranged by Maude Fenlon Bollman.

KFOA, Seattle, Wash. (454.3), 12:30-1:30 p. m., program; 4-5:15, Wm. F. Höffman's orchestra; today's

\$1.50 for Your Old Radio Tubes

regardless make or condition, toward purchase of each new standard \$2.50 tube. Positively guaranteed. We do not sell re-built or bootleg tubes. Agents

Super-Service Laboratories, Dept. 34 Room 58, 39 West Adams, Chicago, Ill.

Big Money in Radio

YOUR OWN Name and Address Printed Free on Applause Cards Demand for high pay radio men is so great that a big Kansas City wholesale concern is now fitting men free to get into the radio business for themselves and make \$60 to \$200 a week without any capital invested. Select territory open. Send today for free catalog and amazing offer. Write direct to Mr. H. J. Saizow, Standard Radio Co., 1440 Walnut St., Kansas City, Mo.

"IMP"

Rheostat

Smallest made,

Space for requests. Stations gladly put on request numbers. Quality cards and printing. All the rage. 100—\$1.45; 200—\$1.95; 300—\$2.45. Money refunded if not delighted. Send No Money just pay postman when you get eards and FREE Log. Order NOW. Radio Printers, Dept. 9911, Marengo, III. LUNGER IYPE VARIABLE **GRID LEAK** Perfect graduation obtains all fractions of a megohm from ¼ to 20, inclusive. Increases selectivity and sensitivity. Unaffected by heat or cold. Maintains accuracy of range and consistency of resistance. At your dealers or post paid upon receipt of price. We also manufacture the Mountford Resistance-Coupled Kit. (Half Size)

Only 200

yet most efficient. Smooth running. One hole mount-ing. Potentiometer same size. At your dealer. \$1.00—All resistances, 3 to 50 ohms.

Parter Radio Co. 300 S. Racine Ave. Chicago

If you are the type of dealer who hustles after husiness, who isn't content to wait for trade to come in but who take, sets out to demenstrate, can talk and sell quality merchandise, and knows Radio values, we have a big proposition for you. Are you that dealer?

This Means More Money for You Our location at Kansas City, the great center of distribution of the United States, enables us to give quicker service and unusual satisfaction. We manufacture a complete line of high grade receivers and sell to dealers only. We are distributors for more than 225 Nationally advertised lines.

FREE write today for amazing of fers, new 112-page catalog and regular monthly catalogs of latest merchandise—all free.

AMERICAN RADIO MFG. CO., 1416-18 MeGee St., Dept V, Kansas City, Mo.

recipe; 6-6:45, Hoffman concert orchestra; 6:45-8:15, program; 8:30-10, Times studio program.

KFON, Long Beach, Calif. (232.4), 4:30-5 p. m., amusement bulletin; 6-6:30, organ recital, Brayton's theater; 6:30-7, Captain's imm orchestra from Seal Beach; 8-9, Press-Telegram program; 10-12, Long Beach Elks No. 888 midnight frolic.

KFWB, Hellywood, Calif. (252), 7-7:10 p. m., announcements; 7:10, safety first talk, Officer E. C. Brown; 7:20, Jack Boaz, fishing scout; 7:30, Exerciogue, Dr. Herbert S. Marshutz, 7:40, microphone brevities; 8-9, program, John Wright, the right tailor; Raquel Nieto, coloratura soprano; Chio de Verditrio; California Blue Boys; 9-10, Jack Smith's dance orchestra; 10-11, Warner Brothers frolic, direction Charlie Wellman.

KGO, Oakland, Calif. (361.2), 3-4 p. m., short program,

Charlie Wellman KGO. Oakland, Calif. (361.2), 3-4 p. m., short program, Pacific Coast Music review; Mrs. George Kruger, pianist; Irene Ashworth, Lillian Acheson; Sara Linden, violinist; book review; 6-6:55, dinner concert, Sher-man, Clay & company.

violinist; book review; 6-6.55, dinner concert, Sherman, Clay & company.

KGW, Portland, Ore. (481.5), 10:30 a. m., shopping guide; 12:30-1:30 p. m., Rose city trio; 6-7, dinner concert; 8-9, concert; 0-10:30, concert, Sherman, Clay and company duo; 10:30-12, Hoot Owls.

KHJ, Los Angeles, Calif. (405.2), 6-6:30 p. m., Leighton's Arcade cafeteria orchestra; Jack Cronshaw, leader; 6:30-7:30, history story, Prof. Hertzog; Radio kiddles hour with Richard Headrick and Vyola Von, screen inventies; 7:30, "Romance of Santa Fe trail;" Gladys De Witt; 8-10, program, Western Auto Supply company; 10-11, (Don Clark's Biltmore hotel dance or chestra.

company; 10-11, Don Clark's Biltmore hotel dance orchestra.

KMTR, Hollywood, Calif. (238), 5-6 p. m., home hour with Mammy Simmons with pupils of Paul Gerson studio; 7, "Color Photography," Chas. W. Beam; 7:30, "Wonders of Nature," Prof. Alfred Cookman; 8-10, The Turner orchestra, direction Loren Powell; 10-11, Starr Piano company studio.

KNX, Hollywood, Calif. (336.9), 5:30-6:15 p. m., Wurlitzer pipe organ studio; Town Tattler; 6:15, travel talk, W. F. Adler; 6:30-7, Atwater Kent concert orchestra; 7-7:30, popular program; 7:30-8, program, Eastern Outtitting company; 8-9, West Coast theaters; 9-10, Order of Optimisic Donuts; 10-11, program, John A. Vaughn corporation; 11-12, Ray West's Cocoanut Grove dance orchestra Ambassador hotel.

KOAC, Corvalis, Ore. (280.2), 7:20 p. m., musical selections; 7:30. "Significance of the Community Movement in Oregon", Dr. Hector Macpherson; 7:45, "Don'ts for the Auto Driver", Prof. W. J. Gilmore; 7:55, "Practical Books on Building and Remodeling a House", Bertha E. Herse: 8:05-9, musical program, KTAB, Oakland, Calif. (240), 9-9:30 a. m., prayer service, Rev. E. L. Spaulding; 8-10, program, Breuner's.

KWSC, Pullman, Wash. (348.6), 7:30-9 p. m., Cougar.

Breuner's.

KWSC, Pullman, Wash. (348.6), 7:30-9 p. m., Cougar Co-Ed crchestra; Ruth Faulkner, pianist; Gladys Wiren, violinist; Fay Norris, banjoist; Dorothy Sturgis, saxophonist; drums, Edna Daw; special piano numbers, 'F. C. Butterfield: "Physics of Everyday Life, No. 2", Dr. R. O. Hutchinson; "General Accounting, No. 2", H. J. Rehn; "Preparing for 1926 Crops", Leonard Hegnauer.





FREE STAMPS

168 beautiful copper etched American Canadian, and European stamps, (8 colors), each with call letters of a station. FREE with latest Ideal 48scatton, FRALE With latest 10cal 48-page Radio Stamp Album and Log. Also contains complete list of stations both alphabetically and by call letters. As you hear new stations, just put proper stamps in album. A fascinating hobby Album and states become bum and stamps become permanent record of stations you hear. You and your childen will enjoy it. Complete album, 8"x11", heavy cover. \$1.00 plus postage.

Send No Money

Pay postman after album and FREE stamps arrive. We repay postage if you prefer to pay with order. MONEY REFUNDED if not DE-LIGHTED. Send order today—NOW IDEAL CO., Dept. 4411, 366 Wrigley Bldg., Chicago

ARE YOU THE MAN

to be first in your town to sell and demonstrate POWEROLA, the famous 5 tube NO-BATTERY ELECTRIC LIGHT SOCKET RADIO RECEIVER (not an attachment), universal for D.C. or A.C. (100-115 v., 40-60 cycle), now sold and demonstrated by THE NEW YORK EDISON CO., public utility companies and radio, electric and music dealers everywhere. Absolutely dependable, fully guaranteed, powerful, practical, perfect in performance.

Are You the Man Who Sees Opportun-

Are You the Man Who Sees Opportun-ities Ahead for Real Money Making? Write for literature, terms and prices at once.

You, Too, Can Make Powerola Send \$1.00 for wiring designs showing parts used and how to make any set or circuit (one to eight tubes) operate satisfactorily from A.C. or D.C.

POWEROLA RADIO CORP. Dept. R.D., 1845 Broadway New York HTTER TO THE PERSON OF THE PER



Radiophone Broadcasting Stations

RADIO DIGEST—Illustrated

Corrected Every Week-Part III

FIND MISTAKES AND YOU'LL GET DOLLAR

NE DOLLAR will be paid to the Radio fan reader of Radio Digest submitting the most errors in any one station's listing in the Directory of Radiophone Stations, which appears in six parts, serially continuously on the next to last page. Letters must reach Radio Digest's office not later than one week from date of issue corrected. Readers are not limited to correcting one station, but such corrections must be verified by the stations themselves, and NOT by comparison to other so-called accurate Radio directories or lists. Verifications must accompany corrections. Turn in corrections for as many stations as you can find-if you can find errors! Use separate sheet of paper for each station submitted and place name and address on each sheet. In case of tie, duplicate awards will be made.

United States (Cont'd)

NOTE.—The third part of the schedule list appears below. The fourth part which consists of the remainder of the list will appear next week.

pelow. The fourth part which consists of the remainder of the list will appear next week.

WEBR, Buffalo, N. Y. 244 meters. 100 watts. H. H. Howell. Slogan, "We Extend Buffalo's Regards." Daily ex Sun, 7:45-8:30 pm, bedtime stories. Mon, Wed, Fri, 8:30-11:30 pm. Sun, 12 m, 3 pm. Eastern. WEBT, Dayton, Ohio. 256 meters. 5 watts. The Daytom Co-op. Industrial High School. Announcer, Irvin Snyder. Slogan, "Worthy Effort Brings Triumph." WEBW, Beloit, Wis. 268 meters. 500 watts. Beloit College. Announcer, Glenn Armstrong. Tues, 8-9 pm; Sun, 4:30 pm. Central.

WEBZ, Savannah, Ga. 263 meters. 500 watts. Savannah Radio Corp. Mon, Wed, Fri, 8:30 pm. Eastern. WEEI, Boston, Mass. 348.6 meters. 500 watts. Edison Elec. Illuminating Co. Announcer, C. R. Emery. Slogan: "The Friendly Voice." Daily ex Sun, 6:45 am, exercises; 7:45, watch. Mon, 4 pm, 5:30, 6:30-10:30, 10:30. Tues, 3 pm, 4, 6:30-10, 10. Wed, 4 pm, 6:30-10, 10. Tuers, 4 pm, 6:30-10, 10. Fri, 4 pm, 6:30-10, 10. Sun, 7:20 pm, 9:20. Eastern. WEHS, Evanston, Ill. 202.7 meters. 20 watts. Robert E. Hughes.

E. Hughes.

WEMC, Berrien Springs, Mich. 285.5 meters. 1500 watts.

Emanuel Missionary College. Slogan, "The Radio

Highthouse."

WENR, Chicago, Ill. 266 meters. 1,000 watts. All-Amerloan Radio Corp. Announcer, Frank Westphall. Daily ex Sun, Mon, 6-7 pm, 8-10. Wed, Fri, Sat, 12-2 am. Sun, 2-4 pm, 9:30-11:30. Central.

WEW, St. Louis, Mc. 248 meters. 100 watts. St. Louis University, Dally ex Sun, 9 am, 10, 2, 5 pm, reports. Tues, Thurs, 7 pm, lectures, music. Sun, 7,15 pm. Central.

Louis University, Daily ea Sun, 5 am, 25, 25, 5 mr.
reports. Tues, Thurs, 7 pm, lectures, music. Sun,
7:15 pm. Central.

WFAA, Dallas, Tex. 475.9 meters. 500 watts. Dallas News and Dallas Journal. Slogan, "Working for
All Alike." Daily, 6:30-7:30 am, exercises; 8:30, 8:30,
10:30, 11:30, reports; 12:30, 1:30, 2:30, 3:30, 4:30, reports, news; 5:30, children's hour; 8:30-9:30, concert,
weather (silent Wed.). Mon, Tues, Thurs, Fri, Sat,
6:30-7:30 pm, vesper recital, sports. Tues, Thurs, Sat,
11-12 pm, music. Sun, 6:30-7:30 pm, Bible class;
7:30, church service; 9:30-11, music. Central.

WFAM, St. Cloud, Minn. 273 meters. 10 watts. St
Cloud Daily Times. Slogan: "Granite City of the
World." Announcer, Otto A. Rupp. Daily ex Sun,
4:35 pm, markets. Central.

WFAV, Lincoln, Nebr. 275 meters. 50 watts. Unit. of
Nebraska. Central.

WFSC; Knoxville, Tenn. 250 meters. 50 watts. First
Baptist church. Announcer, St. John Reynolds. Sun,
10:35 am; 7:30 pm, services; 4 pm, sacred music.
Central.

Central. WFBD, Philadelphia, Pa. 234 meters. 5 watts. Geth-

WFBD, Philadelphia, Pa. 234 meters. 5 watts. Gethsemane Baptist church.
WFBE, Seymour, Ind. 226 meters. 10 watts. Van de
Walle Music and Radio company. Announcer, John
Van de Walle.
WFBG, Altoona, Pa. 278 meters. 100 watts. The Wm.
F. Gable Co. Announcer, Roy F. Thompson. Slogan,
"The Original Gateway to the West." Daily ex Sat,
Sun, 11:45 am, music: 3:30 pm; 6:30, 8:30. Sun,
10:30 am; 4 pm, 6, 7:30, 9:15, 11:15, Eastern.
WFBH, New York, N. Y. 272.6 meters. 500 watts. Concourse Radio Corp., Announcer, Alvin E. Hauser.
Slogan, "Voice of Central Park," Daily, 11:30 pm.
Mon, Tues, Fri, 2-7 pm. Wed. Thurs, Sat, 2-8 pm.
Mon, Sat, 11:30 pm. Sun, 5-8 pm. Eastern.
WFBI, Camden, N. J. 236 meters. 500 watts. Galvin
Radio Supply Co.

Radio Supply Co.
WFBJ, Collegeville, Minn. 236 meters. 50 watts. St.
John's university.
'In the Heart of the Landscape Paradise.' Sun, 7-

John's university. Announcer, Hilary Doerfier, Slogan, "In the Heart of the Landscape Paradise." Sun, 7-7:30 pm. Central.

WFBL, Syracuse, N. Y. 252 meters. 100 watts. Onondaga Hotel company. Announcer, Ernest E. Chappell. Mon. Wed, Fri, 3-4 pm. Fri, 9-9:45 pm. Sat, 10-1 am. Sun, 5-6 pm; 6:15-7:15, 7:30. Eastern.

WFBM, Indianapolis, Ind. 268 meters. 250 watts. Merchants Heat and Light company. Announcer, John E. Tribby. Slogan, "The Convention City of America."

WFBR, Baltimore, Md. 254 meters. 100 watts. Fifth Infantry, Maryland National Guard. Slogan, "Home of the Star Spangled Banner." Announcer, S. R. Kennard. Daily matinee programs. Tues, Thurs, Sat, evening programs. Sun, afternoon program. Eastern. WFBZ, Galesburg, Ill. 254 meters. 20 watts. Knox college.

WFBZ, Galesburg, Ill. 254 meters. 20 watts. Know college.
WFDF, Flint, Mich. 234 meters. 100 watts. Frank D. Fallain. Slogan, "The Vehicle City." Mon, Wed, Fri, 8 pm. Eastern.
WFI, Philadelphia, Pa. 394.5 meters. 500 watts. Strawbridge & Clothier. Announcer, John Vandersloot. Daily ex Sun, 10:15 am, reports; 10:30, music; 10:40, home service; 1-1:50 pm, orchestra; 1:50, reports; 3-4:30, concert; 6:30-7, orchestra. Tues, Thurs, Sat, 8, concert. Sun, 10:30 am, 7:30 pm, church services alternating; 9:15, alternate Sundays. Eastern.
WFKB, Chicago, Ill. 217.3 meters. 500 watts. Francis K. Bridgman. Announcer, Hotace Kehm. Daily ex Sun, Mon, 7-10 pm. Central.
WFRL, Brooklyn, N. Y. 205.4 meters. 100 watts. Flatbush Radio Laboratories.
WGAL, Lancaster, Pa. 248 meters. 10 watts. Lancaster

Flatbush Radio Laboratories.

WGAL, Lancaster, Pa. 248 meters. 10 watts. Lancaster Elec. Supply & Construction Co. Announcer, J. R. Gaintner. Slogan: "World's Gardens at Lancaster." Mon, Wed, Fri, 5:45-6:15 pm, dinner concert. Wed, 11:15-1 am, organ. Eastern.

WGBB, Freeport, N. Y. 244 meters. 100 watts. Harry H. Carman. Mon, Wed, Fri, 8-10:30 pm. Sun, 10:40 am, church. Eastern.

WGBC, Memphis, Tenn. 278 meters, 10 watts. First Baptist church. Announcer, M. L. Martin. Sun, 9:55 am, 7:30 pm, Central.

WGBF, Evansville, Ind. 236 meters. 500 watts. The Finke Furniture Co. Announcer, Harold Finke.

WGBI, Scranton, Pa. 240 meters. 10 watts. Frank S. Megargee.

Megargee.

WGBK, Johnstown, Par 248 meters. 5 watts. Lawrence
W. Campbell. Daily ex Sun, 5-6:30 pm. Sat, 8:4511:45 pm. dance music, Sun, 3-5 pm. Eastern.

12-1 pm, 6:30-7:30; 11-2 am, Wed, Sat, 12-1 pm, 6:30-7:30; 10-1 am, Sun. 9:30-11 pm, Eastern.

WGBX, Orono, Me. 252 meters. 500 watts. University of Maine.

WGCP, New York, N. Y. 252 meters. 500 watts. Grand Central Palace. Announcer, Alfred Hall. Slogan, "Four Leaf Clover Station." Mon, Thurs, Sat, 8:30-12 midnight. Tues, Wed, Fri,7-8:30 pm, Eastern. Daily ex Sun, 3-6 pm; 7-9:30.

WGES, Oak Park, Ill. 250 meters. 500 watts. Coyne Elec. School. Announcer, John Stamford. Daily ex Sun, Mon, 5-7 pm; 8-9 pm; 11-1 am. Sun, 5-7:40 pm. 11-12. Central.

WGHB, Clearwater, Fla. 266 meters. 500 watts. The George H. Bowles Developments. Mon, Wed, 8:30-10:30 pm. Sat, 9:30-11:30 pm. Eastern.

WGHP, Detroit, Mich. 270 meters. 1,500 watts. George Harrison Phelps, Inc. Announcer, C. D. Tomy, Mon, Tues, Wed, 8 pm. Thurs, 10 pm. Fri, 10 pm. Eastern.

WGMU, Richmond, Hill, N. Y. 236 meters. 100 watts. A. H. Grebe & Co., Inc. (Portable).

WGN, Chicago, Ill. 302.8 meters. 1000 watts. Chicago Tribune. Announcer, Quin A. Ryan. Daily ex Sun, 11:57 am, time; 12:40-2:30 pm, music, 2:30-3 music; 3-3:30; 5:30-5:50. Skeezix time; 5:50-5:57, stocks; 5:57, time; 6-6:30, organ; 6:30-7:30, dinner music; 8:30-9:30, 10:30-11:30. Tues, Thurs, 12:30 pm, farm talk. Sun, 12-1 pm, 1-2, 2-5, 9-10. Central.

WGR, Buffalo, N. Y. 319 meters. 750 watts. Federal Radio Corp. Announcer, Otto Becker. Slogan, "Key City of Industry." Daily ex Sun, 12 m, reports; 12:45, concert. 2:30; 6:30 pm, music; 7:30, news. Mon, Wed, Fri, 9-11 pm; Tues, Thurs, 8-11 pm, from New York. Sun, 3 pm, vesper; 7:45, church; 9:15. concert. Eastern.

WGST, Atlanta, Ga. 270 meters. 500 watts. School of Technology. Announcer, J. H. Persons. Slogan, "The Southern Technical School with a National Reputation." Mon, 9 pm, Thurs, 7 pm.

National Reputation." Mon, 9 pm, Thurs, 7 pm. Central.

WGY, Schenectady, N. Y. 379.5 meters. 5,000 watts. General Electric Company. Announcer, Kolin Hager. Daily ex Sun, 11:55 am, time; 12:30 pm, stocks, markets; 12:45, weather. Daily ex Sun, 12:40 pm, fruit, vegetable reports; 6, stocks; 6:10, markets; 6:15, sports, news. Mon, Tues, Thurs, Fri, 2 pm, woman's hour. Tues, Thurs, 2:30 pm, organ. Mon, Tues, Thurs, 6:30-7 pm, dinner program. Thurs, 11:30 pm, organ. Fri, 7 pm; Wed, 6:30, stories. Fri, 6:30 pm, Sunday school lesson; 10:30, late program. Mon, 7:15 pm, agricultural talk. Wed, Fri, 7 pm, orchestra Sat, 9:30 pm, dance program. Sun, 10:30-12 am, service; 5 pm, organ; 7, Carillon program; 7:30-8:45 pm, service; 8:45 pm, orchestra from WJZ. Eastern. WHA. Madison. Wis. 535.4 meters. 500 watts. Mar-

pm, service; 8:45 pm, orchestra from WJZ. Eastern. WHA. Madison, Wis. 535.4 meters. 750 watts. Univ. of Wis.

WHAD, Milwaukoe, Wis. 275 meters. 500 watts. Marquette University. Milwaukoe Journal. Announcer, Ed. Ranft. Daily, 11 am, weather, news; 4-5 pm, news, markets, current topics, music; 6-7, organ, orchestra; financial reports. Mon. 8-10 pm. Tues. 9-9:30 pm, Wed, 10:30-12:30, Fri, 8:30-10 pm. Central. WHAG, Cincinnati. O. 233 meters. 100 watts. Univ. of Cincinnati. Dept. of Elec. Emg. Announcer, W. C. Osterbrock. No definite schedule.

WHAM, Rochester, N. Y. 278 meters. 100 watts. Univ. of Rochester. Rochester Times-Union, Democrat and chronicle. Daily ex Sun, 3:30-4 pm, 5-5:45, 7-7:40. Sun, 3:15, Radio Chapel. Eastern.

WHAP, New York, N. Y. 240 meters. 500 watts. William H. Taylor Finance Corp. Announcer H. Alvin Simmons. Slogan, "The Station for Public Service." Daily ex Sun, 6-11 pm. Sun, 2-3:30 pm. Eastern.

WHAR, Atlantic, City, N. J. 275 meters. 500 watts. Saaside Hotel, Announcer, E. Dennison. Daily ex Sun, 2 pm, 7:30, 8, Tues, Fri, Sun, 11:15 pm, organ. Sun, 10:45 an; 2:15 pm, 2:45, 7:50, 9. Eastern.

WHAS, Louisville, Ky. 399.8 meters. 500 watts. Courier-Journal and Louisville Times Co. Announcer, D. H. Ives. Daily ex Sun, 4-5, 7:30-9. Sun, 9:57-10:45 am, 4-5 pm, church service. Mon night, silent. Central. WHAT, Minneapolis, Minn. 263 meters. 500 watts. Twin City Business Men's Broadcasting station. Announcer, Dr. George Young. Mon, 6-8 pm, 9:11. Tues, 7-9 pm. Wed, 6-10 pm. Fri, 7-11 pm. Central. WHAV, Wilmington, Del. 266 meters. 100 watts. Wilmington Elec. Spec. Co. Slogan, "The First Broadcasting Station of the First City of the First State." Temporarily discontinued.

WHAZ, Troy, N. Y. 379.5 meters. 1000 watts. Rensselaer Polytechnic Inst. Announcer, Rutherford Hayner.

casting Station of the First City of the First State."
Temporarily discontinued.

WHAZ. Troy, N. Y. 379.5 meters. 1000 watts. Rensselaer Polytechnic Inst. Announcer, Rutherford Hayner. Slogan, "Transcontinental and International Broadasting Station Located at the Oldest College of Science and Engineering in America." Club, R. P. I. students. Mon, 9-12 midnight, concert, educational talks, orchestras, features. Second Monday of Month, 12-1:30 am. International test program. Eastern.

WHB, Kansas City, Mo. 365.6 meters. 500 watts. Sweeney Auto & Electric School. Announcer, John T. Schilling. Slogan, "Heart of America." Daily ex Sun, 8:25 am, 9:25, 9:30, 9:35, 10:25, 10:30, 10:35, Daily ex Sat. Sun, 11:20, 11:30, 11:35, 11:56, 12:15 pm, 12:20, 1:25, 1:40, 2, 3, stocks, weather, news; 2-3 pm, ladies' hour. Tues, Thurs, 7-7:30 pm, 8-10. Mon, Wed, Fri, 7-8 pm. Sat, 12:15 am, 12:20, 12:25, 1:25, Sun, 9:45-11 am. Central.

WHBA, Oil City, Pa. 250 meters. 10 watts. Shaffer Music House.

WHBC, Canton, Ohio. 254 meters. 10 watts. Rev. E. P. Graham. Mon, 8-8:30 pm. Eastern.

WHBD, Bellefontaine, Ohio. 222 meters. 20 watts. Charles W. Howard (Portable).

WHBF, Rock Island, III. 222 meters. 100 watts. Beardsley Specialty company. Announcer, C. L. Beardsley. Mon, Wed, 7-9 pm, Sat, 2-4 pm, 7-9. Central.

WHBG, Harrisburg, Pa. 231 meters. 20 watts. John S. Skane. Tues, Thurs, 9-12 midnight. Sun, 9:15-11 pm. Eastern.

WHBH, Culver, Ind. 222.1 meters. 100 watts. Culver Military Academy. Announcer, Charles C. Mather. Mon, 8:30 pm. Sat, 7:30 pm. Central.

WHBK, Ellsworth, Maine. 231 meters. 50 watts. Lauer Auto company.

Mon, 8:30 pm, 8:31, 1.02 meters. 50 watts. Lauer WHBJ, Ft. Wayne, Ind. 234 meters. 50 watts. Lauer Auto company.

WHBK, Ellsworth, Maine. 231 meters. 10 watts. Franklin St. Garage, Inc.

WHBL, Logansport, Ind. 215.7 meters. 50 watts. James H. Slusser. (Portable).

WHBM, Chicago, Ill. 233 meters. 20 watts. C. L. Carrell. (Portable).

WHBN, St. Petersburg, Fla. 238 meters. 10 watts. First Avenue Methodist church.

WHBP, Johnstown, Pa. 256 meters. 100 watts. Johnstown Automobile Co. Announcer, J. C. Tully. Slogan, "The Voice of the Friendly City." Wed, 9 pm. Sat, 10 pm. Eastern.

WHBQ, Memphis, Tenn. 233 meters. 50 watts. Men's Fellowship class. St. John's M. E. church. Announcer, Dr. George L. Powers. Slogan, "We Have Best Quartet." Wed, 8-9 pm, music. Sun, 9:45-10:45 am, 11, 7:45 pm, services. Central.

WHBR, Cincinnati, Ohio. 215.7 meters. 300 watts.

WHBR, Cincinnati, Ohio. 215.7 meters. 300 watts. United Engineering Laboratories. Announcer, Radio

Rouse.

WHBU, Anderson, Ind. 218.8 meters. 10 watts. Bing's Clothing-Riviera Theater. Announcer, O. B. Robey. Slogan, "The Home of Chief Anderson." Daily ex Sun, 9-9:30 am, 12-12:30 pm. Wed, Fri, Sun, 7-9 pm. Central.

WHBW, Philadelphia, Pa. 242 meters. 100 watts. D. R. Kienzle. Wed evening.

WGBM, Providence, R. I. 234 meters. 100 watts. Theo. dore N. Saaty.

WGBQ, Menomonie, Wis. 234 meters. 100 watts. Stout Institute.

WGBQ, Menomonie, Wis. 234 meters. 100 watts. Stout Institute.

WGBR, Marshfeld, Wis. 229 meters. 10 watts. George S. Ives. 8, 100 watts. George WHDI, Mannespolis, Minn. 278 meters. 500 watts. Wis. 100 watts. George WHDI, Mannespolis, Minn. 278 meters. 500 watts. White C. Announcer, J. F. Hickneeks. Son. 100 watts. George WHDI, Mannespolis, Minn. 278 meters. 500 watts. Hickson bel Brothers. Announcer, Floyd Neale. Daily ex Sun, 10-2,30 m. Sat, 7:30. Tues, 8:30-12. Thurs, 8:30-1 am. Sat, 7:30-12. Sun, 3:30-4:30 pm. thight program; 6:30-7 orchestra. Bastern.

WGBU, Fulford By-the-Sea, Fla. 278 meters. 500 watts. Gomerce. Announcer, Robert H. Nolan. Mon. Tues, Thirs, Fri. 13-1 pm. 6:30-7:30; 11-2 am. Wed, Sat, 12-1 pm. 10:30 am. church service; 9-30.8, Bible lecture. Eastern.

WGBU, Fulford By-the-Sea, Fla. 278 meters. 500 watts. University of Christian Commerce. Announcer, Robert H. Nolan. Mon. Tues, Thirs, Fri. 13-10 pm. Eastern.

WGBU, Orono, Me. 252 meters. 500 watts. University of Christian Commerce. Announcer, Mirch Hell. Slogan, "The Voice of the Great With Watts. Bankers, 100 pm. Rialio theater orchestra. Fri. 9-10 pm. 10:30 am. church service; 9-30-30, Bible lecture. Eastern.

WGBU, Orono, Me. 252 meters. 500 watts. Coyne Sun, 10-1 pm. Eastern.

WGBU, Orono, Me. 252 meters. 500 watts. Coyne Sun, 10-1 pm. Eastern.

WGBU, WYork, N. Y. 352 meters. 500 watts. Coyne Sun, 10-1 pm. Eastern.

WGBU, Sun, 10-1 pm. Eastern.

WGBU, Fri. 10-1 pm. Eastern.

WGBU, Fri. 10-1 pm. Eastern.

WGBU, Sun, 10-1 pm. Eastern.

WGBU, Fri. 10-1 pm. Eastern.

WGBU, Sun, 10-1 pm. Eastern.

WGBU, Fri. 10-1 pm. E

9-10, 10-1130. Sun, 11 am, 1 pm, 7:30-8:30. Central.

WHT, Chicago, Ill. 238-400 meters. 2500 watts. Wrigley Bldg. Announcer, Patrick Henry Barnes. Daily ex Sun, Mon, (399.8), 10-2 pm, 6-7:30, 9:30-1, (238), 7:45-9:15 pm. Mon, (399.8), 11-2 pm, 7-1 am, Sun, 12-11:30 pm, Paul Rader. Central.

WIAD, Philadelphia, Pa. 250 meters. 100 watts. Howard R. Miller. Slogan, "The Voice from the Birthplace of Liberty." Tues, Fri, 9 pm. Eastern.

WIAS, Burlington, Ia. 254 meters. 100 watts. Home Elec. Co. Announcer, Harry H. Waugh. Slogan, "Burlington, on the Mississippi." Tues, 8-9 pm, concert. Thurs, 7-8 pm, concert. Sat, 10:30-11, organ. Sun, 10:30 am, church services. Central.

WIBA, Madison, Wis. 236 meters, 100 watts. The Capital Times. Announcer, Trevor Griffiths. Slogan, "Four Lakes City." Mon, Wed, Fri, 8:45-10 pm. Sat, 12-1 am. Central.

WIBC, St. Petersburg, Fla. 222 meters. 100 watts. L. M. Tate Post No. 39, Veterans of Foreign Wars. Mon, Wed, 8-10:30 pm. Sat, 8-9 pm, 10:30-12. Eastern.

WIBG, Elkins Park, Pa. 222 meters. 50 watts. St. Paul's Protestant Episcopal church. Announcer, Charles T. Asbury. One Monday a month Ogontz Forum speaks. Sun, 10:45 am, 3:45 pm. Eastern.

WIBH, New Bedford, Mass. 210 meters. 30 watts. Elite Radio Stores. Announcer, J. T. Moriarty. Slogan, "The Voice of New Bedford." Daily ex Sun, 12-1:30 pm. Eastern.

pm. Eastern.

WIBI, Flushing, N. Y. 218.8 meters. 50 watts. Frederick B. Zittell, Jr.

WIBI, Chicago, Ill. 215.7 meters. 50 watts. C. L.

Carrell. (Portable.)

WIBM, Chicago, Ill. 215.7 meters. 10 watts. Billy

Maine. (Portable.)

WIBO, Chicago, Ill. 226 meters. 1,000 watts. Nelson

Brothers. Announcer, Walter Preston. Daily ex Sun,
2-4 pm. Daily ex Sun, Mon, 6-8 pm. Tues, Thurs,
12-3 am. Wed, 10-12 midnight. Fri, 10-2 am. Sun,
10:15 am, service; 2-4 pm, concert; 6-8, 10-12. Central

tral.
Wibr., Weirton, W. Va. 246 moters. 50 watts. TriState Radio Co. Announcer, W. D. Johnston. Slogan,
"The Town Where Everybody Works." Fri, 8:30-11
pm. Sat, 11-1 am. Sun, 2-3 pm. Eastern.
Wibs, Elizabeth, N. J. 202.6 meters. 10 watts. New
Jersey National Guard.
Wibu, Poynette, Wis. 222 meters. 20 watts. The
Electric Farm.
WibV. Henderson, N. C. 263 meters. 500 watts. Jewell
Radio Co.

Radio Co. WIBW, Logansport, Ind. 220 meters. 100 watts. Dr.

L. L. Dill. WIBX. Utica, N. Y. 205.4 meters. 150 watts. Grid-Leak, Inc. WIBZ, Montgomery, Ala. 231 meters. 10 watts. Powell

Leak, Inc.
WIBZ, Montgomery, Ala. 231 meters. 10 watts. Powell
Elec. Co.
WIL, St. Louis, Mo. 273 meters. 250 watts. St. Louis
Star and Benson Radio Co. Announcer, Billy Knight.
Slogan, "Watch It Lead." Tues, 4-5 pm, Thurs, 4-5
pm; 8-12. Sat, 4-5 pm; 10-12. Central.
WIP, Philadelphia, Pa. 508.2 meters. 500 watts. Gimbel
Bros. Annequeer, E. A. Davies. Slogan, "Watch
Its Progress." Daily ex Sun, 7-7:30 am, 1-2 pm, 34:30, 6-6:45, music; 7-7:30, pm. Tues, Thurs, Sat,
8-12 pm, concert. Sun, 10:45-12 m, 4:15-5:30 pm,
7:45-9, 10-12. Eastern.
WIAD, Waco. Texas. 352.7 meters. 500 watts. Barton's Dyanshine Station. Mon, Fri, 8:30-10 pm.
Central.
WIAG, Norfolk, Nebr. 270 meters. 200 watts. Norfolk
Daily News. Announcer, Karl Stefan. Slogan, "The
World's Greatest Country Daily, and Home of Printer's
Devil." Daily ex Sun, 12:15 pm; Sun, 3:30-6 pm,
music. Central.
WIAK, Greentown, Ind. 254 meters. 50 watts. Clifford

music. Central.

WIAK, Greentown, Ind. 254 meters. 50 watts. Clifford L. White, Slogan, "The Radio Parson." Tues, Thurs. Sat, 12-1 pm. Sat, 5 pm. Central.

WIAM, Cedar Rapids, Ia. 268 meters. 100 watts. D. M. Perham. Tues, Thurs. Sat, 7-10 pm. Sun, 4 pm, vesper service. Central.

WIAR, Providence, R. I. 305.9 meters. 500 watts. The Outlet Co. Announcer, J. A. Reilly. Slogan, "The Southern Gateway of New England." Daily ex Sun, 1:05-2:15-pm, weather, reports, music. Mon, Wed, Fri, 10 am, household hints. Mon, 7:30-11 pm. Tues, 7:30-10 pm. Wed, 7:30-10:30 pm, Thurs. 8-11 pm. Tri. 3-10 pm, 11-12. Sun, 7:20-10:15 pm. Eastern.

WIAS, Pittsburgh, Pa. 275 meters. 500 watts. Pittsburgh Radio Supply House. Pickering's Studio. Announcer, Bryan McDonald. Slogan, "Worl's Jolliest Aerial Station." Daily ex Sun, 7-8 pm, dinner concert; 3-11. Sun, 2 pm. Eastern.

WIAX, Jacksonville, Fla. 336.9 meters. 1000 watts. City of Jacksonville, Fla. 336.9 meters. 1000 watts. Capith

cert; 8-11. Sun, 2 pm. Lasten.
WJAX, Jacksonville, Fla. 336.9 meters. 1000 watts. City of Jacksonville, Fla. 336.9 meters. 1.500 watts. Zenith Radio Corp. Announcer, E. F. McDonald, Jr. Thurs, 10-12 midnight. Central.
WJBA, Joliet, Ill. 206.8 meters. 50 watts. D. H. Lentz, Jr. Tues, 8-11 pm. Central.
WJBB, St. Petersburg, Fla. 254 meters. 10 watts. L. W. McClung.
WJBC, La Salle, Ill. 234 meters. 100 watts. Hummer Furniturè Co. Announcer, Harry Halpin. Dally ex Sun, 12:30-1 pm. Mon, 8-11 pm. Central.
WJBG, Charlotte, N. C. 224 meters. 10 watts. Interstate Radio, Inc.
WJBI, Red Bank, N. J. 218.8 meters. 250 watts. Robert S. Johnson.
WJBK, Ypsilanti, Mich. 233 meters. 10 watts. Ernest F. Goodwin.
WJBK, Pocatur, Ill. 270 meters. 500 watts. Win. Gushard Dry Goods Co. Announcer, H. B. Rickards. Mon, Wed, Sat., 9:30-11 pm. Central.
WJBN: Sycamore, Ill. 256 meters. 10 watts. St. John's

Mon, wed, Sat. 9:30-11 pm. Central.

WIBN: Sycamore, IH. 256 meters. 10 watts. St. John's Ev. Lutheran Church. Slogan, "The Church Tower Station." Announcer Rev. E. W. Frenk. Mon. 8-10 pm. Sun, 7-7:45 am; 1-1:45 pm. Central.

WIBP, Buffalo, N. Y. 218.8 meters. 50 watts. Seneca Vocational School.

WIBQ, Lewisburg, Pa. 211.1 meters. 100 watts. Bucknell university.

WJBQ, Lewisburg, Pa. 211.1 meters. 100 watts. Bucknell university.

WJD, Granville, O. 217.3 meters. 10 watts. Denison Univ. Announcer, Richard H. Howe. Fri, Sat, 5-6 pm, music, educational lectures. Athletics. Eastern WJJD, Mooseheart, Ill. 370.2 meters. 500 watts. Loyal Order of Moose Station. Announcer, Jack Nelson. Slogan, "The Call of the Moose." Daily ex Sun, Mon, 4-5 pm, children's program; 6-7 pm, 10-11, 12-1. Sun, 7:45-8:40 am, services; 9:45-11 am, services; 3-4. Central.

WJR, Pontiac, Mich. 516.9 meters. 5.000 watts. Jewett Radio and Phonograph Co. Slogan, "Where Joy Reigns." Announcer, Leo Fitzpatrick. Daily ex Sun, 7-8 pm, 9-10. Thurs, Sat, 10-11 pm. Mon, Wed, Sat, 11:30-1 am. Eastern.

WJY, New York City, 405.2 meters. 5000 watts. R. C. A. Announcer, J. Lewis Reid. Tues, Thurs, Fri, 7:30-11:30 pm, concert. Sun, 8:15-10:30 pm. Eastern.

MIGO. State College. Announcer, Jim Gamble. Midol. Wed, Fri, 7:15-9 pm. Tues, Thurs, 7:15-8 pm. Sat, 12:30-2 am. Eastern.

WKAV, Laconia, N. H. 224 meters. 50 watts. Laconia Radio Club. Fri evening concerts. Sun, 10:30 am; 6:30 pm. Eastern.

WKBB, Joliet, Ill. 214.2 meters. 100 watts. Sanders Brothers. Wed, 6:30-8:30 pm. Thurs, Sun, 8:30-12 midnight. Central.

WKBE, Webster, Mass. 231 meters. 100 watts. K. & B. Electric Co. Mon, 8-12 midnight. Eastern.

WKBG, Chicago, Ill. 215.7 meters. 100 watts. C. L. Carrell. (Portable).

WKBK, New York, N. Y. 209.7 meters. 500 watts. Shirley Katz.

WKRC, Cincinnati, Ohio. 422.3 and 325.9 meters, alternate months, 1,000 watts. Kodel Radio Corp. Announcer, Eugene S. Mittendorf. Mon, 6:15-7 pm, 8-10, 12-1. Tues, Thurs. Sat, 10-12 midnight. Wed, 6:15-7 pm; 8-10 pm. 12-1 am. Sun, 6:45-7:30 pm; 10-12, 12-1. Central.

WKY, Oklahoma City, Okla. 275 meters. 100 watts.

10-12, 12-1. Central.

WKY, Oklahoma City, Okla. 275 meters. 100 watts.
E. C. Hull, H. S. Richards. Daily ex Sun, 3-4 pm,
markets, weather, news. Daily ex Sun, 6:30-8:30 pm.
Sun, 9:30-12:30 pm; 7:45-9:45. Central.

WLAL, Tulsa, Okla. 250 meters. 100 watts. First
Christian church. Announcer, R. W. Burkhart. Slogan, "The Voice of the Church." Sat, 7:30 pm, Bible
class. Wed, 9:30 pm. Sun, 7:30 pm, church. Central.

WLAP, Louisville, Ky. 275 meters. 20 watts. W. V.
Jordon. Tues, Fri, 9:20-10 pm. Central.

WLB, Minneapolis, Minn. 278 meters. 500 watts.

MIRI. Stevens Paint Wis. 278 meters. 500 watts.

Minn., Dept of Elec. Eng.

WLB1. Stevens Point, Wis. 278 meters. 500 watts.
Wisconsin Dept. of Markets. Slogan, "Wisconsin.
Land of Beautiful Lakes." Daily ex Sun, 8:45 air.
9:45, 10:45, 11:45, 12:30 pm, 1:45, markets. Tres.
Thurs, 8 pm. Central.

WLIB. Chicago, III. 308.2 meters. 2,500 watts.
Liberty Magazine. Announcer, Bill Hay. Daily ex
Sun, Mon, 7-8 pm, 9-10, 11-12. Sun, 5-6 pm, 6-6:30.
8-9. Central.

Sun, Aton, 7-8 pm, 9-10, 11-12. Sun, 5-6 pm, 6-6:30. 8-9. Central.

WLIT, Philadelphia. Pa. 394.5 meters. 500 watts. Lit Bros. Announcer, Harry E, Ehrhart. Club, "Morning Glory," Daily ex Sun, 12:02 pm, music; 2, music. Mon, 4:30 pm, 7:30, 8, 10. Tues, 11 am. Wed. Thurs, 4:39 pm. Wed, 7:30 pm, 8, 10, 11. Fri., 7:30 pm. 8:45, 10. Eastern.

WLS, Chieago, Ill. 344.6 meters. 5000 watts. Sears, Roebuck & Co. Slogan, "World's Largest Store." Daily ex Sun, 9 am, 11, 12, 1-2, 6-7. Tues, 6:15-pm, 6:39-7:55 pm. Wed, 6:15-2 am. Thurs, 6:15-7:55, Fri. 6:15-11. Sat. 12-12:45 pm, Junior R. F. D. program; 7-12. Sun, 6:30-7:55 pm. Central.

WLTS, Chieago, Ill. 258 meters. 100 watts. Lane Technical High school. Fri, 1-2 pm. Central.

WLW, Cincinnati, O. 422.3 meters. 5000 watts. The Crosley Radio Corp. Announcer, William Stoess. Daily ex Sun, 10:45 am, 11:55, time: 1:30 pm. Daily ex Sun, Fri, 7, dinner hour; 6:55, markets, Daily ex Sun, 7:45 am, morning devotions: 8, excreives: 12:15, program; 3, 4, reports. Mon, Tues, 8-10 pm. S:30. Central.

Wed, Thurs, 10-12 mid. Sun, 9:30 am, 11, 7:30 pm, 8:30. Central.

WLWL, New York, N. Y. 288.3 meters, 1500 watts. The Paulist League. Announcer, James E. Cronin. Slogan, "For God and Country." Mon, Thurs, 9 pm. Son, 8 pm. Eastern.

WMAG, Cazenovia, N. Y. 275 meters, 100 watts. C. B. Meredith. No definite schedule.

WMAF, South Dartmouth, Mass. 440.9 meters, 1,000 watts. Round Hills Radio Corp.

WMAK, Leckport, N. Y. 266 meters, 500 watts. Norton Laboratories. Announcer, DeWitt C. Gerritson. Daily ex Sun, 7:15 pm, News Mon, Sat, 8-9 pm, 9-10. Wed, 7:30-10 pm. Fri, 9-10 pm. Sun, 10:30 am. 7:30 pm. Eastern.

WMAL, Washington, D. C. 212.6 meters. 15 watts. M. A. Leese Optical Co. WMAN, Columbus, Ohio. 278 meters. 50 watts. First Baptist church. Announcer, Dr. D. F. Rittenhouse. Sun, 10:30-12 m, 7:30-9 pm, church services. Eastern.

WMAQ, Chicago, Ill. 447.5 meters, 1000 watts. The Chicago Daily News. Announcer, Roberty Whitney. Daily ex Sun, Mon, 12-3 pm, 4-7. Daily ex Sun, Mon, 8-10 pm. Central.

WMAY, St. Louis, Mo. 248 meters, 100 watts. Kingshighway Presbyterian church. Slogan, "May Every By-Way Hear Kingshighway." Sun, 11 am, 8 pm. Central.

Central.

WMAZ, Macon, Ga. 261 meters. 500 watts. Mercer university. Announcer, Carey O. Pickard. Mon, Thurs, Fri, 10-11 pm. Fri, 9-10 pm. Tues Fri, 8-9 pm. Wed, 11-12. Eastern.

WMBB, Chicago, III. 250 meters. 500 watts. American Bond & Mortgage Co. Trianon. Announcer, Clyde Hager. Slogan, "World's Most Beautiful Battroom. Daily ex Sun, Mon, 7-8 pm; 9-11. Sun, 3-5 pm,

7:45-11. Central. WMBC, Detroit, Mich. 256 meters. 100 watts. Michwmbb, Decroit, Mich. 250 meters. 100 watts. Michigan Broadcasting Co. WMBF, Miami Beach, Fla. 384.4 meters. 500 watts. Fleetwood hotel. Daily, 7-8 pm, dinner concert; 8-8:15. news; police reports; 8:15-8:30, dance; 10-12. Eastern.

Eastern.

WMC, Memphis, Tenn. 499.7 meters. 500 watts. The Commercial Appeal. Announcer, Francis S. Chamberlin. Slogan, "Station WMC, Memphis." "Down in Dixie." Club, "Midnight Frolic." Daily ex Sun, 9:45 am, 11:30, 2:30 pm, weather, markets, music. Daily ex Sun, Wed, 8:30 pm, program; Tues, Fri, 11 pm, Midnight frolic. Sun, 11 am, church service. Central.

WMCA, New York, N. X. 340.7 meters. 500 watts. Hotel McAlphin. Announcer, Snedden Weir. Slogan "Where the White Way Begins." Daily, 6-12 midnight. Tues, 11-12 midnight. Sun, 11-12:15 pm; 6-11.

WNAB. Boston, Mass. 250 meters. 100 watts. The

night. Tues, 11-12 midnight. Sun, 11-12:15 pm; 6-11.

WNAB, Boston, Mass. 250 meters. 100 watts. The Shepard Stores. Announcer, John J. Fanning.

WNAC, Boston, Mass. 280.2 meters. 500 watts. The Shepard Stores. Announcer, John J. Fanning. Daily ex Sun, 10:30-11:30 am, 12:15-2 pm, 4-5, 6-7:35, 8-10. Sun, 11 am, 1:30-3 pm, 3-4, 6:45-8:30. Eastern.

WNAD, Norman, Okla. 254 meters. 250 watts. Univ. of Okla. Announcer, C. E. Bathe. Slogans, "Oklahoma,"

"Voice of Sooner Land." Daily 9:15 pm, weather, news. Wed. 8:30-9:30 pm, music. Central.

WNAL, Omaha, Nebr. 258 meters. 50 watts. Central.

H. S. Announcer, Ronald J. Rockwell. Slogan, "Pioneer Broadcast of Omaha." Fri, Sat, 7:30-9 pm. Central.

"Pioneer Broadcast of Omaha." Fri, Sat, 7:30-9 pm. Central.

WNAT, Philadelphia, Pa. 250 meters. 100 watts. Lennig Bros. Co. Announcer, Jess Brinton Young. Slogan, "We Never Are Tired." Wed, 6:50 pm. Eastern.

WNAX, Yankton, S. D. 244 meters. 100 watts. Dakots Radio Apparatus Co. Dally ex Sun, 11:30-11:45 am. markets, weather; 5-6 pm, music. Central.

WNBH, New Bedford, Mass. 248 meters. 250 watts. New Bedford hotel.

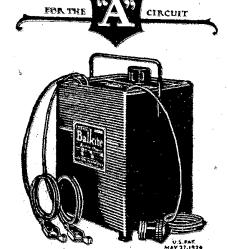
WJN, Newark, N. J. 252 meters. 150 watts. Radio Shop of Newark, Inc. Announcer, W. A. Bingenhelmer. Slogan, "The Voice of Newark." Tues, Wed, Fri. Sat, Sun, 6-6:30 pm, 8:30-12, dance music. Eastern.

WNOX, Knoxville, Tenn. 268 meters. 500 watts. Peoples Telephone & Telegraph Co.

(Note—The fourth part of the directory will appear

(Note-The fourth part of the directory will appear

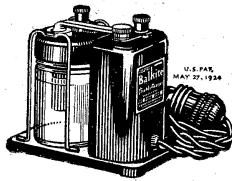
Simplify and improve radio reception with Balkite Radio Power Units



Balkite Battery Charger

This popular battery charger is entirely noiseless and can be used while the radio set is in operation. If your battery should be low you merely turn on the charger and operate the set. Charging rate 2.5 amperes. Operates from 110-120 AC 60 cycle current. Special model for 50 cycles. Also for 25-40 cycles with 1.5 ampere charging rate.

Price \$19.50 West of Rockies, \$20 In Canada, \$27.50



Balkite Trickle Charger

May be connected to any 6 volt radio "A" battery of 30 ampere hour capacity or more and left permanently on charge. Used in this manner it converts your "A" battery into a permanent "A" power unit that operates from the light socket and automatically furnishes full current to the "A" circuit at all times.

With any smaller battery (4 volt or small 6 volt) this charger may be used as an intermittent charger of the usual type. Can also be used as a trickle charger if a resistance is added to cut down the charging rate.

When used as a trickle charger, as an added convenience, some owners add a switch which cuts out the charger during operation. Switches of this type also turn on Balkite "B" when the set is turned on, thus providing an entirely automatic current supply for both sizes its

current supply for both circuits. Size 5½ in. long, 2¾ in. wide, 5 in. high. May be put in the usual dry cell compartment. Charging rate .4 to .5 amperes. Current consumption 1/10¢ per hour. Operates from 110-120 AC 60 cycle current. Special model for 50 cycles.

Price \$10 West of Rackies, \$10.50 In Canada, \$15 Balkite Radio Power Units simplify and improve radio reception. They reduce the amount of attention you must give your set. With their use your current supply is always exactly what is required for each circuit.

The popular Balkite Battery Charger is entirely noiseless. It can be used while the set is in operation.

The Balkite Trickle Charger converts your "A" battery into a permanent "A" power unit that supplies full "A" current at all times from the light socket.

Balkite "B" eliminates "B" batteries entirely and supplies plate current from the light socket. Balkite "B" for sets of 6 tubes or less. Balkite "B" II for sets of 6 tubes or more.

An ideal installation is a Trickle Charger and "A" battery, and Balkite "B." This enables you to operate your set entirely from the light socket.

Noiseless—No bulbs—Permanent

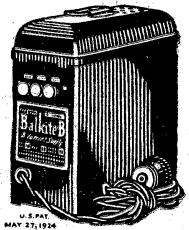
All Balkite Radio Power Units are based on the same principle. All are entirely noiseless in operation. They have no moving parts, no bulbs, and nothing to adjust, break or get out of order. They cannot deteriorate through use or disuse—each is a permanent piece of equipment with nothing to wear out or replace. They require no other attention than the infrequent addition of water. They do not interfere with your set or your neighbor's. Their current consumption is remarkably low. They require no changes or additions to your set. At your dealer's.

Manufactured by

FANSTEEL PRODUCTS COMPANY, Inc., North Chicago, Illinois







Balkite "B"

Eliminates "B" batteries. Supplies plate current from the light socket. Operates with either storage battery or drycell tubes. Keeps "B" circuit always operating at maximum efficiency, for with its use the plate current supply is never low. Requires no changes or additions to your set. No bulbs—nothing to replace. Requires no attention other than adding water twice a year.

A new model, designed to serve any set requiring not more than 20 milliamperes at 90 volts—practically all sets of 5 tubes or less, and most 6 tube sets. Size 8½ in. long, 8 in. high, 3½ in. wide. Occupies about same space as 45 volt dry "B" battery. Operates from 110-120 AC 60 cycle current. Special model for 50 cycles.

Price \$35 In Canada, \$49.50



Balkite "B" II

The most outstanding development in radio last season. Same as the new Balkite "B" but will fit any set including those of 8 tubes or more. Current capacity 40 milliamperes at 90 volts. Size 9 in. high, 6½ in. wide, 7½ in. deep. Operates from 110-120 AC 60 cycle current. Special model for 50 cycles.

Price \$55 In Canada, \$75

The Gould Unipower, manufactured by the Gould Storage Battery Company, is equipped with a special Balkite Radio Power Unit

BALKITE BATTERY CHARGER · BALKITE TRICKLE CHARGER · BALKITE "B" · BALKITE "B" II

ALL BALKITE RADIO POWER UNITS ARE TESTED AND LISTED AS STANDARD BY THE UNDERWRITERS LABORATORIES