\$500 Gold for Solution of Mystery

Radio Disest

Vol. XVI No. 7 Copyright 1926 by Radio Digest Publishing Co FEBRUARY 20, 1926

"The Voice of Porto Rico" Tells a Story; WJAG Birthday Party; Women's Programs; Uncle Sam Aids Rural Radio; Announce Foreign Test Winners; How to Stop Blooping

DEMANDS STATIONS LABEL ADVERTISING

WOULD AVOID FOISTING OF PUBLICITY ON PUBLIC

Rep. Emmanuel Celler Asks for Same Regulations of Ether as Those Governing Newspapers

WASHINGTON.—"This WASHINGTON.—"This is BLAA, broadcasting station of the Giant Peanut company, Newark, N. J. You will now have the pleasure of listening to the Walk-Up-One-Flight Clothing company's orchestra. Their first number will be, 'You Don't Wear Them Out If You Don't Charled care of our Pagio fens Sit Down.' Should any of our Radio fans desire to communicate with the Walk-Up-One-Flight Clothing company's orchestra they can do so by communicating

with Station BLAA.

"This is SPOOF station, Chicago, Ill.
You have just listened to Mr. B. Fuddled, of the Lone Star Ham company, in his interesting talk on "Tid-bits and Why Delicious Lone Star Ham Should Be on Exercite Table."

Every Table.

"Those of you who relish a good cigar will be delighted to hear that our next number will be a song, 'Rings of Smoke,' to be rendered by Mr. Jack A. Napes, general sales manager of the Amalgamated Cigar Stores company. We ask our Radio fans to remember the Amalgamated Cigar Stores company because it will have one of its employes perform for us every Monday night.

Congressman Indicts Advertising
"You have just heard Mr. Jack A.
Napes. SPOOF now signs off for the
night after announcing that at 3:45 tomorrow afternoon every housewife will welcome Mrs. Laura New of the Durable Pancake company, who will give helpful lessons on 'How to Make Flapdoodles Out of Sawdust.'"

The above is merely a reproduction of what Representative Emmanuel Celler of what Representative Emmanuel Celler of New York has caused recently to be pub-lished in the Congressional Record. Rep-resentative Celler's tirade is most inter-esting. He does not believe in advertis-ing broadcasts as they are done today, and he frankly says so.

Newspapers Must Label Ads
"It is illegal for newspapers or maga "It is illegal for newspapers or magazines to publish advertising without letting their readers know that the matter is paid for and is advertising. The reason for this was to avoid the foisting of disguised advertising matter 'as reading notices' or news. The law was adopted to avoid this public imposition and descention. ception.
"Broadcasting of paid-for or indirect

advertising without a statement that the matter has been paid for, is no less deceptive and an imposition. Those of you ceptive and an imposition. Those of you who are familiar with Radio activities or

who are familiar with Radio activities or are listeners often have recognized this scheme of deceptive advertising.

"The Radio bill introduced by Mr. White, the gentleman from Maine, and which is now being considered by the committee on the merchant marine and fisheries, in section 5 very rightfully provides as follows:

White Bill Protects Listeners

white Bill Protects Listeners
"'All matters broadcast by any Radio
station for which service, money or any
other valuable consideration is directly
or indirectly paid or promised to or
charged or accepted by, the station so
broadcasting shall be announced as 'advertising' at the time the same is so
broadcast: Provided, that when the advertisement or publicity sought consists vertisement or publicity sought consists solely of the announcement of the name, solely of the announcement of the hame, business, and address of the person, firm, company, or corporation paying for the feature broadcast, it shall be sufficient to announce that such feature broadcast is "paid for or furnished by" such person, firm, company or corporation."

Station Changes

caster, the new municipal station of Pensacola, WCOA. On a wave length of 222 meters, the first program from this studio went out over the ether for the first time Wednesday evening, February 3. The announcer is John E. Frenkel.

The thud of boxing gloves, the scraping of skates on the ice during hockey matches and other familiar sounds from Madison Square Garden preceded by the call WMSG, will be heard the first part of this week. A low wave length of 212.6 meters prevents any interference with New York stations already on the air.

The following stations were deleted last month: WGBK, Johnstown, Pa.; WDCH, Hanover, N. H.; KFGH, Stanford University, Calif.; KFOJ, Moberly, Mo.; WTAC, Johnstown, Pa.; WJBN, Sycamore, Ill.; WIBC, St. Petersburg, Fla.

WILSON WETHERBEE IS VETERAN OF KYW

HICAGO.—Saturday, February 20, marks the completion of four years of Radio service of Wilson Wether-e, director of Westinghouse Station bee, director of Westinghouse KYW. Having come to the station when KYW was barely

four months old, he has witnessed its growth practically from its cradle days.

Born in Elkhart, Ind., in 1900, edu-cated in its schools and later taking studies pursuant to a literary career, Mr. Wetherbee soon after found himself on the staff of the Elkhart Daily Re-

The world was treating "Scoop" Wetherbee fairly well. The South Bend Tribune felt need of the services of an enter-

prising young man, so to South Bend he went. From the South Bend Tribune "Scoop" went to the South Bend Times, shortly after which he went back to school to study at the University of Chicago. However, campus rules did not agree entirely and the call of the press brought him to the editorial staff of the Chicago Daily News. He remained there just about a year when the wild idea of looking, sweep the floor.

Wilson Wetherbee

WAMPAS BEAUTY IS GIRL ON OUR COVER

AY WRAY—sounds almost like "Fairy," doesn't it?
That's the name of the exquisite maiden on the Radio Digest cover this week. And, of course, she just naturally lives in Hollywood, Calif., with the rest of the 1926 crop of WAMPAS beauties who made their grand debut at the frolic in the new Al Malikah shrine temple in Los Angeles on

February 4.

There were thirteen of these little "Wampsies" and from a picture in our last week's issue it seems Miss Fay is the only one who didn't have the heart to snip the wandering tendrils from

her crown of glory.

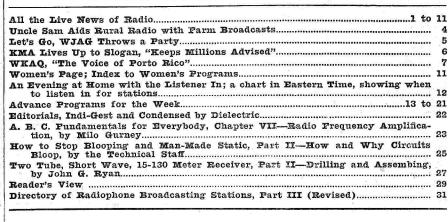
All the Wampas stars were presented to Radio listeners over KNX, during a special Radio reception.

'Radio" brought him to KYW to take the position of assistant director. On May 1922, "Scoop" was appointed director the station which position he still holds. Imagine Chicago's pioneer station four

years ago. A personnel of only three or four members; one studio; the technique of Radio fairly unknown and little thought of. If artists did not appear, they just pushed a convenient phonograph up to the "mike." Those were only a few of the griefs of Radio life four years ago. The director had to not only conduct the activities of the station, but he had to seek talent, answer kicks, do the announcing, look happy and when no one was

CONTENTS

Radio Digest, Illustrated, Volume XVI, Number 7, published Chicago, Illinois, February 20, 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.



Looking Ahead

Mystery, Murder, Undying Love—the special Radio mystery story by a worldfamous author, Robert J. Casey, begins with the next issue. \$500 awaits the winning solutions. Don't miss the important announcements and the beginning chapter of this thriller.

February Twentieth Is a Big Day in the Regions of the Arctic Circle. Old Sol peeps over the horizon for the first time after an absence of 135 days. The Canadian "Mounties" and other human beings celebrate. Superpower stations of the United States broadcast special programs. Story and pictures here next week.

Dizzy Izzy, Musing Over a Bowl of Loco Weed Soup and a dish of purple berries from the wild asparagus, decided that the one thing Station WOAW, Omaha, needed was a "Blah Club." Whereupon he called together certain members of the staff and a directorate was selected. You should hear Izzy tell about it in the next issue.

The Campaign Against Blooping, having fixed the blame, rubbed it in and shown how nearly all sets bloop, will next week tell of better operation of sets for more DX and less squealing. Come on, do more thinking about your own blooping and less tirading about the other fellow's!

Those Interested in Short Waves, and who are building the two tube 15-130 meter set, will find its construction carried into the wiring next week.

Operation of the King 5-Tube Tuned R.F. Set is now being studied by the technical staff and an article on it will appear next in the Operating and Trouble Shoot-

Newsstands Don't Always have one Lett

WHEN YOU WANT

YOU WANT IT!

BE SURE OF YOUR WEEKLY COPY BY SUBSCRIBING NOW

SEND IN THE BLANK TODAY

Publisher Radio Digest, 510 N. Dearborn St., Chicago, Illinois.	ă.	
Please find enclosed check M. O (Six, Fereign) for One Year's Radio Digest, Illustrated.	. for Five Subscrip	Dollars tion to
Name		***********
Address	**************	**********
City s	tate	42440046644

NEWS BRIEFS FROM THE BROADCASTERS

PARTY NIGHT ONCE EACH MONTH FOR WRVA FANS

Famous Violinist at KGO—Learn Charleston at WMBB—Canadian Broadcasters Meet at Toronto

The first Thursday of each month will be party night at WRVA, Richmond. For be party night at WRVA, Richmond. For three hours this southern broadcaster will give a program of dance music, so that fans can plan parties ahead of time for this night. The music will be furnished by the Richmond Hotel Winter Garden orchestra, under the direction of Billy Boyle, and will begin at 9:30 p. m., East-ern time.

One of the greatest violinists, Mishel Piastro, concertmaster of the San Francisco Symphony orchestra, will give a recital over KGO, Oakland, Tuesday night, February 23. Altogether he will play ten numbers. His accompanist will be Lev Shorr, brilliant Russian pianist.

Instructions in the "Charleston" by Prof. Thomas Sheehy are going out over the ether every Wednesday evening from WMBB, Chicago.

The first meeting of the Canadian Association of Broadcasters was held last month in Toronto. Jacques N. Cartier, director of CKAC, La Presse, Montreal, was elected president of the organization.

A new series of classical concerts will erive of classical contects with the given weekly at KYW called the Federal Master artists program. These programs will be broadcast from the Commonwealth-Edison studio every Friday night at 9 p. m. Central time. Margery Maxwell, soprano member of the Chicago Civic Opera company, was one of the Civic Opera company, was one of the artists participating in the first musicale.

Children's stories, told with an orchestral accompaniment, have been introduced to the Radio audience of the Capital by Daniel Chwalow, conductor of the Hotel Hamilton orchestra, through Station WRC, of Washington. The stories are told by Madge Tucker and are given suitable musical background by orchestral arrangement of folk songs.

O. H. Becker, the senior announcer at WGR, Buffalo, has resigned and Kenneth Fickett, who has become well known during the last two years to WGR fans, is now senior announcer. George C. Hardy is now associated with Mr. Fickett as assistant announcer.

Bulwer Lytton's powerful drama, "Richelieu," will be broadcast by the KGO players Thursday night, February 25. Wilda Wilson Church will direct sixteen players in the technique of the audio drama defore the microphones.

Thousands of old-time songs have been received from all parts of the country by the Crosley Burnt Corkers, an organiza-tion of minstrels which broadcasts Tues-day evenings through the WLW station. program.

A junior Radio club is the latest feature at WBAL, Baltimore. Hazel Knox, who has charge of the children's pro-grams broadcast every Monday and hursday, will direct the activities.

Rev. John Edwin Price of the First the First Universalist church will give a series of the index of the modern drama every Thursday afternoon at 2 p. m. Central time, through WLW, Cincinnati.

Captain Daddy Long Legs will be in command Friday of the WGP Ship o' Dreams with a wealth of instructive songs and stories for the kiddies. The songs and stories for the kiddles. The children of the American Revolution will be passengers to help celebrate Washington's Birthday. At 8 p. m. Eastern time, the Hon. William H. Smathers of Atlantic City will give a patriotic address.

A departure from the usual dinner con-A departure from the usual dinner concert program introduced by Daniel Chwalow, conductor of the Hotel Hamilton orchestra, is the presentation of movements of the world's greatest symphonies during the dinner hour. The playing recently of Haydn's "Surprise Symphony" as a part of a dinner program brought a greater number of applause cards and letters than any dinner concert program ever broadcast from the concert program ever broadcast from the

Parents and teachers will be interested in the lecture, "Poetry in Relation to Childhood," to be given Friday by Mrs. Austin S. Basten, publicity chairman of the Connecticut Congress of Parents and Teachers. This talk is one of a series of educational lectures.

\$500 FOR FANS SOLVING MYSTERY

I WON'T BLOOP CLUB **MAKING BIG STRIDES**

CAMPAIGN TO CLEAR ETHER IS PROVING POPULAR

Listeners, Stations, Clubs and News papers Joining Radio Digest to Lessen Radio Interference

"I Won't Bloop" will be the motto of a nation of Radio listeners in short order if the popularity of the I Won't Bloop club continues to grow in the next six weeks as it has in the past three. Broadcasting stations, newspapers, and Radio clubs are taking up the cudgel to exterminate the

taking up the cudgel to exterminate the Viper Bloop.

The idea of the club, as stated previously, is simply to obtain members, the sole requirement for membership being the taking of a pledge to refrain from blooping one's set, or so equip or renew it so as to prevent its blooping. That the idea is a righteous one, is evident from the furor the club is creating.

idea is a righteous one, is evident from the furor the club is creating.

Thousands upon thousands of pledges already have been made. An accurate count is impossible as yet. The membership roll is, however, several times ten thousand. These members each possess a membership card. Ask your friend to show his card. Get his pledge if he hasn't one.

hasn't one

Opinion Favors Club Idea
That the press and broadcasters have joined hands with Radio Digest in its campaign to eliminate or at least reduce the bothersome blooping evil, speaks well for the timeliness of the great movement.

The broadcasting station chapter roll of the I Won't Bloop club, now includes: the I Won't Bloop club, now includes:
CKNC, Canadian National Carbon Co.,
Toronto, Ont.; WDAF, Kansas City Star,
Kansas City, Mo.; KSL, Radío Service
Corp. of Utah, Salt Lake City, Utah; WHO,
Bankers Life Co., Des Moines, Ia.; WHA,
University of Wisconsin, Madison, Wis.;
WLW, Crosley Radio Corp., Cincinnati,
Ohio; WJAZ, Zenith Radio Corp., Chicago;
WOC, Palmer School of Chiropractic,
Davenport, Ia.; KTHS, New Arlington
hotel, Hot Springs National Park, Ark.;
WBAP, Fort Worth Star-Telegram, Fort
Worth, Texas; WMBB, Trianon Ballroom,
Chicago; WJJD, Loyal Order of Moose, Worth, Texas; WMBB, Trianon Ballroom, Chicago; WJJD, Loyal Order of Moose, Mooseheart, Ill.; KQV, Doubleday-Hill Elec. Co., Pittsburgh, Pa.; WAMD, Hotel Radisson, Minneapolis, Minn.; WRK, Doron Bros. Elec. Co., Hamilton, Ohio; WSKC, World's Star Knitting Co., Bay City, Mich.; KFYR, Hoskins-Meyer, Bismarck, N. D.; WJAG, Norfolk Dally News, Norfolk, Nebr.; KFWC, L. E. Wall, San Bernardino, Calif.; KFKZ, F. M. Henry, Kirksville, Mo.; WBBY, Washington Light Infantry, Charleston, S. C.; WFDF, F. D. Fallain, Flint, Mich.

Fallain, Flint, Mich.

Cities Organize Local Clubs

Broadcasting stations who are aiding the campaign, or who wish to become chapters of the I Won't Bloop club, are requested to communicate with Radio Digest. The club wishes to enlist every station in the country in its warfare

against blooping receivers.
Word has been received from E. M. Rait telling of the formation of a local chapter

Sport Broadcasts

Hockey Game

WBZ, Boston, Mass. (333.1m-900kc), Boston Bruins-St. Patricks, 8 p. m. Eastern

Basketball Games

Saturday, February 20 WSUI, Iowa City, Iowa (483.6m-620kc), Northwestern-Iowa, 7:30 p. m. Central

WEAO, Columbus, Ohio (293.9m-1020kc),
Michigan-Ohio State, 8 p. m. Eastern time,
WIP, Philadelphia, Pa. (508.2m-590kc),
University of Pennsylvania-Cornell, 8:30 p. m. Eastern time.

p. m. Eastern time.

Monday, February 22

KUOM, Missoula, Mont. (244m-1230kc),
University of Washington-University of
Montana, (no time given).

Tuesday, February 23 KLDS. Independence. Mo. (441m-680kc)

KLDS, Independence, Mo. (441m-680kc),
William Jewell college-Westminister college, 7:30 p. m. Central time.

Thursday, February 24

KWSC, Pullman, Wash. (348.6m-860kc),
Oregon Agricultural college-Washington
State college, 7:30 p. m. Pacific time.

Friday, February 26

KFMQ, Fayetteville, Ark. (299.8m1000kc), University of Arkansas-Texas
Christian university, 7:30 p. m. Central
time.

WOI, Ames, Iowa (270m-1110kc) Missouri-Ames, 7:30 p. m. Central time.

LADY STAR OF CHANTICLEER COURT



Jean Grissom is a member of the Chanticleer Players of Kansas City whose series of comedies and specialties from WDAF, the Kansas City Star, is a rather new feature for the station's listeners. The players have grown from a group of persons interested in theatricals largely for their personal diversion. They now present and broadcast regular monthly programs in a rustic frame building they call "theater," and is really a transformed garage. Their material usually consists of one-act comedies, satires and dramas with musical numbers occasionally interspersed.

neering in a movement against bloopers.

The various local chapters are, for the

most part, discussing ways and means of preventing blooping. Excellent articles are available. At this time the technical staff of Radio Digest is publishing a series THE PLEDGE TODAY.

of the I Won't Bloop club at Rochester, Minn. One hundred members were enrolled at the first meeting. Other localities are likewise organizing.

The Broadcast Listeners association of Chicago, has promised full cooperation. This organization has already been pionary in a reversal against bloomer than other receivers. So far as

Remember—in all this campaign—that so-called "regenerative" sets are not more to blame than other receivers. So far as can be determined, ALL sets regenerated.

I WON'T

BLOOP

CLUB

PLEDGE

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

I pledge myself to operate my Radio set to reduce radiation or blooping. If I am unable to make my present set operate properly, I further pledge myself to replace it with a receiver that will create less interference.

Make of my set:	Signature
Number of	Address
tubes is:	City and State

SPECIAL RADIO SERIAL NEEDS RIGHT ENDING

R. J. Casey Writes Story

First Chapter Next Issue-Important Announcement-Contest to Develop Radio Play

Solve the mystery, if you can, and win part of the \$500.00 in gold, Radio Digest

part of the \$500.00 in gold, Radio Digest will pay for the best solution!

Beginning next issue, there will appear the first installment of a great, thrilling, inspiring story of love and mystery, written by Robert J. Casey, the world-famous author. He has prepared a story especially for Radio. It is so written that it will go down in history as a pioneering effort of the first order.

Readers of the story will come in for their share by unraveling the tangled plot and pointing out how the story must end. The guilty party or parties should be indicted. All clews should be as correctly followed as possible.

The correctness of the solutions submitted will form the basis for the decision of the judges. Writing ability will not be the main consideration.

Story Begins Next Issue

Story Begins Next Issue

The first chapter of this supreme work by Robert J. Casey will appear in the February 27 issue of Radio Digest. Other important announcements are also to be made next week.

The full details of the competition, the rules, names of judges, the closing date by which the solutions must be received—all will be told in the next issue of this publication.

Watch for it. Thousands of people are

expected to participate in this first All-Radio mystery story competition, and may

the best man, or woman, win. Read the first chapter. Don't miss it!

On page eight, this week, the preliminary announcement appears. Emphasis cannot be placed too heavily upon further announcements to be made next issue.

Seventeen Prizes in All

Seventeen prizes await their winners. The first will be \$250 in gold. Second will with \$100 in gold. Fifteen bags of gold containing ten dollars each, will be presented to the persons submitting the next

sented to the persons submitting the next fifteen best solutions to the mystery.

Robert J. Casey, novelist and short story writer of repute, has contracted to write the manuscript. He was directed to prepare a mystery story, replete with thrilling suspense, which was Radio in character. He was told that one of the principal objects of the story was to have it so arranged that it could be dramatized for Radio presentation. The story must have the necessary requisites of a Radario or drama of the air. or drama of the air.

Contests Will Develop Radio Play

To foster the development of stories which can be broadcast in Radario form, Radio Digest has launched this new enterprise. It is believed that among the con-testants who submit their solutions to the mystery will be found people who have the talents to qualify for further writing of stories designed especially for broadcast presentation.

Mr. Casey's story will show these people how it is done. He not only knows the ordinary school of the novel and stage drama, but is experienced in the limita-tions of Radio and knows what the broadcast drama needs as a means of expres-

Just as the legitimate stage and motion pictures use thousands of stories each year, the majority of which are especially prepared either for the stage or the screen, broadcasting stations are now looking for available manuscripts for Radario presentations. The number of writers supplying this market is small. The field for Radarios, too, is still small but is potentially great.

It is the hope of this publication to enlarge both the field for, and the number of writers of Radarios.

New Studio for Boston

BOSTON -- Houghton & Dutton, one of the largest department stores in New England, have announced that they are to open a broadcasting studio the latter part of February in their store, co-operating with WEEI, the Edison station here.

Uncle Sam Aids Rural Radio

"Fifty Farm Flashes" to Be Subject of Weekly Broadcast Under Auspices of Department of Agriculture

By S. R. WINTERS

ARMER JONES upon observing that his flock of chickens has symptoms of roup addresses a letter to the United States Department of Agriculture in search of a treatment! Farmer Brown inquires of Uncle Sam as to what months should cows freshen in order to insure a maximum production of milk! Farmer Smith upon detecting that his soil is sour, wants to know if a portable lime crusher is practical!

These inquiries, when received by the United States Department of Agriculture, are answered by letter mail in which a farmer's bulletin discussing the particular farm problem is enclosed. Now, farmers will not have to depend upon a tardy R. F. D. service for such general and insistent information where timeliness is an important factor. Instead, Radio, traveling with the speed of light or at a rate of 186,300 miles per second, will act as a hurry-up messenger between farmers and Uncle Sam's national farming bureau.

Sam Pickard, newly appointed Chief of Radio Service of the United States Department of Agriculture, has labelled this novel and informative service with the alliterative and pleasing designation, "Fifty Farm Flashes." As implied by this descriptive phrase, brevity and speed of delivery will characterize this service and if a sufficient number of broadcasting stations are enlisted in diffusing this timely and useful knowledge it will be blanketed over the agricultural areas of the nation. Each "Farm Flash" will be limited to fifty words and the broadcasting of the complete weekly service should not exceed twenty minutes.

THE Department of Agriculture in Washington, receives approximately 4,000 letters daily, a major portion of which concerns farm problems or direct questions seeking solutions to the difficult things confronting the farmers. From this "question box" will be selected each week about twenty-five of the more general and pressing subjects or problems as a basis for the "Farm Flashes"—or, to employ the term of Mr. Pickard, Uncle Sam's mail will serve as a sort of barometer in the preparation of this national Radio service. The other twenty-five topics included in the "Fifty Farm Flashes" will be of a local nature—that is, solutions to problems peculiar to a particular farming community, which is served by a certain broadcasting station. Thus, Uncle Sam's farm Radio service will not be a rubber-stamp or mimeographed affair but an exclusive feature to the respective broadcasting stations cooperating in this significant and far-reaching step in annihilating distance between the rural areas and the fountain sources of scientific agricultural information.

Tentative plans of Mr. Pickard call for a division of agricultural America roughly into zones with respect to the major crops grown in the different farming regions. These classifications will include such dominant crops as cotton, corn and meat, hay and pasture, and such types of farming as dry land, range,

PICKARD
Will Operate
Through Washington Bureau
to Answer Important Inquires
from Farmers
over the Representative Stations in Scattered
Districts. Will
Cooperate with
State Colleges.

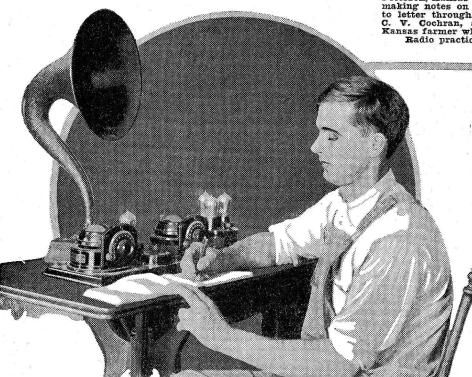
Sam Pickard (top) with one day's letters from farmers to U. S. Department of Agriculture. Tom Peterson, Kansas farmer, making notes on answer to letter through Radio. C. V. Cochran, another Kansas farmer who finds Radio practical.

and irrigation. Thus, for instance, a farmer making inquiry about methods of producing corn would receive a reply in the form of a "Farm Flash"—say, through a Chicago broadcasting station—that would be applicable throughout the Corn Belt. Similarly, a cotton grower of Texas, seeking information as to an effective method for combatting the boll weevil would elicit a reply—broadcast through a Texas station—of value to the cotton producers of the South and Southwest. Or, to continue this trend of thought, wheat growers in Kansas could, through the magic of the invisible Radio waves, learn of the most effective method for arresting the fecundity of grass-hoppers.

THIS Radio service to farmers will be a radical departure from the present practice of preparing lectures and having them read into the microphone," declared Mr. Pickard, in an exclusive interview given this writer, in which he stressed the twofold factor of brevity and popular appeal in the presentation of "Fifty Farm Flashes." Moreover, the Chief of Uncle Sam's Farm Radio Service desires to avoid the erroneous impression that the United States Department of Agriculture will dominate this instantaneous and sweeping means of disseminating information relating to better farm practices. To the contrary, the agricultural colleges and other agencies cooperating will be

the contrary, the agricultural colleges and other agencies cooperating will be tapped as sources for much of the material that is to be broadcast, the Department of Agriculture at Washington, serving as a clearing house or central agency for supplying any needed information which may not be accessible to state and local agencies. Then, too, Uncle Sam has his own representatives afield and their services will be constantly in demand in making effectual this far-reaching program of speeding up the process whereby the searchers of information and the source may be brought together within the twinkling of an eye.

"Fifty Farm Flashes," an alluring phrase that will live because it is dedicated to service, will be inaugurated as a weekly program from hundreds of broadcasting stations—if the latter are quick to appraise its popularity and value. The air mail and other prompt postal facilities will speed the delivery of these "Farm Flashes" to the respective broadcasting stations, scattered as they are in widely separated sections of the country, assuring prompt answers to inquiries. (Continued on page 29)



Let's Go! WJAG Throws a Party!

ALL Listeners Are Invited to Attend Big Celebration Around "Family" Table in Norfolk, Nebraska. "Printer's Devil" to Be There.

"R AND MRS. G. R. SALTER cordially invite you to be present at the Fourth Anniversary of the Norfolk, Nebraska, WJAG Family Lunch Club during the Noon Hour of February Twentieth, Nineteen Hundred and Twenty-six, at your own Receiving Set."

Of course you will have a lovely time at Mr. and Mrs. Salter's party. They are counting on a very unusual number of guests from all parts of the country. It will be one of the big events of their lives and that covers a very considerable period. Both are over 86 years old. They have been married sixty-four years. Since the Norfolk Daily News installed its Radio broadcasting station and Announcer Karl Stefan organized the Family Lunch club Mr. and Mrs. Salter have been sitting at the "head of the table" as the grand patriarchs of the family, which consists of 20,000 persons.

archs of the family, which consists of 20,000 persons.

Forecasts of proposed offerings are "flashed" to members of the family for approval. The mail man and the messenger boys and the telephone bring to the studio the answer as to what shall be used and what not used. Now Grandfather Salter believes he knows just what his family wants for this big birthday dinner of February 20.

EBRASKA stands out among the pioneer states in the Radio world. Several broadcasting stations became famous within its borders while Radio was still quite young as a general amusement. Gene Huse, editor and publisher of the Norfolk Daily News, was among the first to put in his order for a station and then discovered that he didn't have, and there was small chance of getting, an operator.

Determined to have his station even if he had to become an expert himself, he began a study of Radio transmission. He learned the codes, both Morse and Continental. He mastered a thorough knowledge of the technical theory and finally came to Chicago for his examination. He successfully passed the test submitted by Inspector Beane and was granted an operator's license. He is one of the few owner-operators of a broadcasting station in the United States.

Mr. Stefan was on the states.

Mr. Stefan was on the staff of the News when WJAG went on the air. He had been around the world, could speak several languages, understood telegraphy and Radio technique. It was logical that he should become the chief announcer and this position he has held since the beginning.

beginning.

Station WJAG was launched as an avenue of service by the Daily News which has for its slogan, "World's Greatest Country Daily Newspaper." Old people, invalids and other shut-ins soon discovered that "service" was more than a catch-word. They were the first to feel the results, which came shortly after the end of the World's Series baseball games.

THERE was a particularly keen interest in the series that year and Announcer Stefan moved the microphone from the "Printer's Devil's Den" (as the studio is called) to the telegraph desk where the



Karl Stefan (top)
chief announcer at
WJAG who started
the big "family" that
gathers around Radio
hunch table each noon.
Frances Colton Warner (left), planist and
entertainer.

Old-fashioned melodies are the favorite songs of Miss Marjorie Beeler (left), lyric soprano at WJAG. Below may be seen the Frinter's Devil and his Imps. They ring the dinner bell that calls everybody around the big family Radio lunch table presided over by the patriarchs, Mr. and Mrs. G. B. Salter, both 36 years old. At lower left is staff of the Norfolk Daily News translating the telegraph code of a world's series game into a word picture for WJAG listeners.



clicks of the telegraph instrument were instantly translated by Mr. Stefan into word pictures of the game. An appeal was then sent out to members of the Radio family for nickels and pennies with which to buy receiving sets for the shut-ins who never could participate or even see athletic games of any sort.

Contributions rolled in to such an extent that there was soon enough money to buy a dozen good sets for those who could not afford them and were confined to the dull money.

soon enough money to buy a dozen good sets for those who could not afford them and were confined to the dull monotony of the four walls of their rooms. The first one went to a little crippled girl for whom the initial appeal was made, little expecting there would be enough returns for a dozen sets.

a dozen sets.

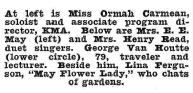
As the family grew from a score to 20,000 other appeals have been sent out at intervals until now there are 100 sets bringing cheer and happiness. Sometimes the sets change hands where the original beneficiary has recovered and is no longer an invalid. Six sets have been returned from those who have passed beyond the pale of early joys.

Then the service of WJAG was (Continued on page 24)

K,MA Is Heard Across Lacific

"K, EEPS Millions Advised" Is Slogan Selected from 4,000 Suggested for Shenandoah, Ia., Station. Listeners Write from Yokohama, Australia and Alaska.

By H. P. BROWN





OOK at the Radio map of the United States and you will find the state of Iowa thickly dotted with little red stars where broadcasting stations are located.

In the galleries of the air, Iowa's calls may be heard at almost any hour of the day or night. The entire populace seems to be swept off its feet with Radio enthusiasm. No farm is complete without its receiving set. In some places the loud speakers are installed in the barns where the "cornhuskers" can hear while milking the cows and there is a theory that the music smooths the cows into yielding, not

only more, but better milk.

Shenandoah, close to the Missouri border, was comparatively little known a few years ago. Two of the main industries of the town are seed and nursery companies. Both of them installed Radio broadcasting stations and the Shenandoah post office had to put on a night shift to handle the extra mail

Earl E. May, president of the May Seed and Nursery company, at Shenandoah, is the rotund, good natured papa of KMA. When one talks to him a little while it is hard to tell which he loves the most, the seed business or Radio.

PART of the time he is all tomatoes and radishes and the rest of the time he is all studio and listeners. So much enthusiasm backed by a vigorous constitution and an artistic appreciation has produced the inevitable success it deserves with both enterprises.

"Why," said Mr. May in the course of a recent interview, "we have the most wonderful talks on horticulture, agriculture and gardening and when we put o na contest for a slogan a short

time ago, we received 4,000 letters offering suggestions. We picked fourteen quarts of the most luscious-I mean we picked a slogan that I think fits our station to a T."

"K-M-A—it couldn't have been 'Kiss Me Again?'"
"Don't be absurd. This is really serious."
"Well, what could it be? Knights of Modern Agriculture?"
"More foolishness. Here it is—"KEEPS MILLIONS AD-VISED."



Above is Mr. Earl E. May, himself, owner of the KMA broadcasting station at Shenandoah, Ia., who usually mans the microphone to introduce the artists. His "contagious laugh" ripples through the ether making thous ands smile.

"That's not so bad only—"
"Only what?"
"Well, 'millions' might seem a little exaggerated."
"Exaggerated nothing! Wait 'till I show you a letter here"

a letter, here."
Mr. May fished a letter out of his pocket. At the top was the business head, "N. D. Sheppard, General Merchandise and Raw Furs, Andreaf-sky, Alaska, Oct. 31, 1925." The letter read in part as follows:

WISH to report that we heard your station the night of October 30, you signing off 10:12 p. m. our time, which was 3:12 a. m. October 31, your time. The program came in fine just as clear as a bell in spite of the fact that one of the tubes was broken so the built-in loud speaker would not work and we had to attach the car phones to the tulking machine. the ear phones to the talking machine.

enjoyed the program which was plenty loud in a room seventeen by twenty-seven feet.

"At 11 p. m., our time, we picked you up again and heard the Midnight waltz and Three O'Clock in the Marian and Stringer Three O'Clock in the Morning, on the Steinway. This program

we enjoyed until 2:15 a. m. our time, when it faded away so we do not know just what time you signed off.

"We are two weeks from a cable office by dog team or we would have sent a cable. We are 163 degrees west and 62 degrees west and 62 degrees were a cable. We are 163 degrees west and 62 degrees west and 62 degrees west and 62 degrees west and 63 degrees west and 63 degrees west and 63 degrees west and 63 degrees west and 64 degrees west and 65 degrees west a grees north on the Yukon river."

The letter was signed by N. D. Sheppard.
"Don't worry about the 'millions' part of it," added Mr. May, as he folded the letter back in its envelope. "KMA is not only heard all over the United States with its many millions of Radio listeners, but we have letters from Australia, Yokohama, Japan; the Hawaiian Islands and other places to the north and south. Don't ever think that 'millions' is exaggerated."

It was stated that the KMA station prepared its programs with enough diversity to please all classes of listeners. Reports on the weather and markets are given three times (Continued on page 24)

These four (left) should be called the "Apple-o-Quartet." They are Jonathan and Ben Davis, Auntie Blossom (Mrs. Fort, who conducts the Slumber Boat) and Miss Lavone Hamilton, planist, the Pippin.

W/KAQ-"Voice of Porto Rico"

GSLAND Territory in Antilles Entertains Listeners on Both Sides of Atlantic. Announcer Is Spokesman for the Isle.

THE Florida stampede grows and it begins to look as though the swarms of tropical tourists are going to be crowded off the edges of the peninsula into the ocean, it is possible part of the traffic stream may detour to Porto Rico—"The Island of Enchantment."

Here the snow dodgers should find complete happiness for it NEVER, NEVER snows in Porto Rico. The average daily temperature is 80 degrees. The island is 100 miles long and 36 miles wide and was ceded to the United States by Spain after the Spanish-American war. There are over a million inhabitants on the island and all loyal Americans, adopted by act of congress in 1917. Each year has found a

new increase of visitors and permanent inhabitants from the States. The country is verdant and hilly; the highest peak is over 3,600 feet.

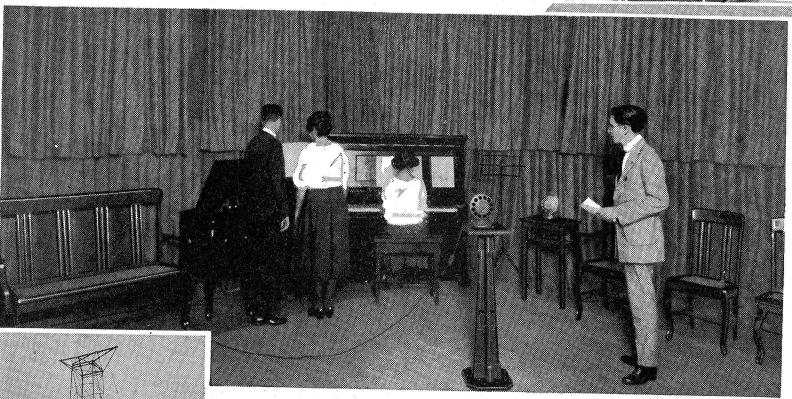
Along the coast are crystal clear lagoons. Coral reefs bend into the sea and there are plentiful sandy beaches. San Juan, the capital and metropolis, is quite modern—a fact acknowledged by Radio listeners on both sides of the Atlantic for programs broadcast from WKAQ have been heard in Spain as well as on both American continents.

on both American continents.

"Whose is the voice with the Spanish accent?" has been a frequent query of American fans after listening to WKAQ, an American call signal. The voice is the author of the following story.

lowing story, Joaquin Agusty.





At the top is Joaquin Agusty, announcer at WKAQ, San Juan, Porto Rico, the "announcer with the Spanish accent." Mr. Agusty is a young Radio enthusiast and takes his responsibilities in the Radio world with proper seriousness. He writes that he feels his voice is the voice of Porto Rico itself and he tries to make it the most friendly voice of all. Above is a scene in the WKAQ studio during an evening's program. Below is the antenna of the WKAQ station.

By JOAQUIN AGUSTY

INCE December, 1922, the voice of WKAQ has been heard through the crowded ether by the Radio fans of the world.

Radio fans of the world.

It is a powerful voice, quite different from the more delicate tones that come from those familiar friends, KDKA, WGY, WGN, KGO and their sister stations in the United States. But of all the voices speaking it tries to be the friendliest and most cordial because it is the voice of Porto Rico, itself, "The Island of Enchantment," speaking for a people, a country surrounded by a boundless ocean.

And not only is WKAO speaking to its own island but it is sending the voice of Porto Rico to make friends in hundreds of cities and lonely farm houses in

friends in hundreds of cities and lonely farm houses in America, Cuba, England and Spain.

It is as though our beautiful island were suddenly made personal and articulate and endowed with a voice capable of disregarding the handicap of distances of oceans.

What do you know about Porto Rico and its broad-What do you know about Forto Rico and its broad-casting station? It will be of particular interest to the real Radio enthusiast to describe somewhat in detail this WKAQ which, in a sense, belongs to us all. Especially is it of interest to citizens of the United States for over our microphone floats the Stars and Stripes at its most eastern outpost.

KAQ is the Radiophone station of the Radio Corporation of Porto Rico, affiliated with the International Telephone and Telegraph corporation of 41 Broad Street, New York. It is installed in the top floor of the Telephone building, in the center of the city of San Juan, and its geographical position is Lat. North 18°, 25′, 4″, Long. West 66°, 6′, 57″. The station occupies four rooms. The transmitter is the standard Western Electric 500-watt output. Actual radiation on 834 kilocycles is 63⁄4 amperes. The antenna is 3 wires 90′ long with 4′ separation between them. Two Milliken steel towers, one 167′ high and the other 87′ on top of the Telephone building, support the antenna, the direction of which is north-south.

The studio walls are covered with a layer of blanket material under curtains to deaden echo, and the floor is heavily carpeted. After some experiments it was e ceiling did not require covering. studio is furnished in contrasting tints of blue.

The reception room is right under the steel tower on top of the building. Artists wait here for their turns at the microphone.

The Radio room is the place for the operator, Mr. E. Camunas and contains all the apparatus except the motor generator and batteries. The power room is in one corner of the building and well separated from the studio. This permits good working conditions without noises. (Continued on page 24)

Radio Mystery

In Bags of Gold

 $$500^{00}$

In Cash Prizes

Will Be Awarded for the Best Solutions

Mystery - Adventure - Murder - Love

The Thrill of Intense Suspense. The Surging Flow of Life's Emotions. Uncanny Cleverness. Overwhelming Love.

Radio Digest

First Radio Serial Competition in which all will have an opportunity to win fame, honor and

Bags of Gold!



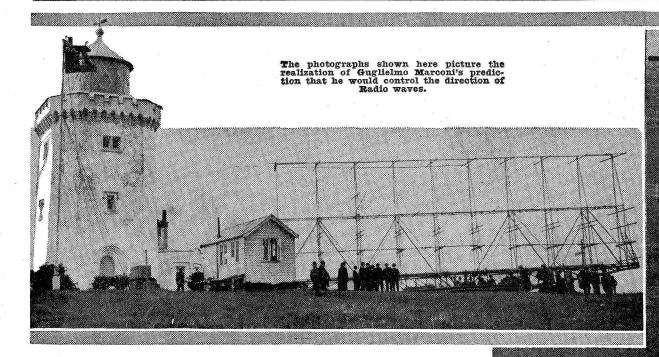
Robert J. Cases

THE Story is by Robert J. Casey, world famed author of "Brothers of the Gun," "Long Arm of Andy Irons," "Vest Pocket Anthology," and over two hundred creepy, mystery stories. He is easily the peer of climax builders; the master mind of imaginative intrigue; the apex of creators of thrilling episodes and unforgetable complexities.

In this story, written especially for Radio Digest, Mr. Casey has risen to new heights in creative fiction. The lust of Gold—unwavering Love—and the mimicry of make-believe, are each pictured in a dialogue and action that will hold you spellbound to the end.

Complete Details of this Amazing Contest Will Appear Next Week

MARCONI ERECTS BIG BEAM STATION



SEARCHLIGHT BEAM Radio transmission was announced several years ago by Marconi to the surprise of everyone interested in Radio and its future. Before that time it was thought that Radio waves would never be controlled. Guglielmo Marconi, who first made wireless telegraph possible, after years of further research told the public that he could direct Radio waves in whatever direction he wished, and that listeners living in other directions would be unable to receive his waves.

Here is his answer to the practicability of his "searchlight beam" Radio invention.

In England at the South Foreland lighthouse, he has erected and installed a high-powered beam transmitter and rotating uni-directional antenna.

Besides adding to the secrecy of Radio messages, Mr. Marconi's invention is said to permit a saving of power and dissipated energy. Using much less power than is ordinarily used by transatlantic stations, his beam transmitter at South Foreland has been heard in Australia, equally as strong as the high-power stations.

SIX WIN PRIZES FOR FOREIGN DX REPORT

RADIO DIGEST ANNOUNCES TEST WEEK WINNERS

Iowa Physician Takes \$50 First Award for Twenty Overseas Broadcasters —New Yorker Second

Winners of the six prizes, totaling one hundred dollars, offered by Radio Digest for proofs of best reception of foreign sta-tions during the International Radio Week

tests are:
First, \$50, Dr. J. D. Hullinger, 108 The
Weston, Clinton, Iowa. Dr. Hullinger received twenty foreign stations during the
first five nights of the tests, exclusive of
Mexico. Of the twenty, fourteen were
different. His receiver was a nine tube
super-heterodyne, home built, coupled to
an outside agrial

an outside aerial. Second, \$25, Harry Leadbetter, 208 West 103rd street, New York city. Mr. Leadbet-ter received fourteen different foreign stations, eight of which were different. Mexico was not included. His receiver was a five tube manufactured radio fre-

Third, \$10, H. Livingston, West Plains, Mo. Although some of the other prize winners received more stations than Mr. winners received more stations than Mr. Livingston, nis distance west of Europe was considered as a handicap. He picked up, exclusive of Mexico, eight foreign stations during four out of the first five nights. Five of these were different. His set was an eight tube super-heterodyne of the four filter type, similar to one described a year ago in these columns.

rescribed a year ago in these columns.

Fourth, \$5, James L. Snyder, Patton, Cambria County, Pa. Mr. Snyder received nine different foreign stations, one of which was only partly verified. Six different foreign stations were among the nine. His set was a manufactured five tube radio frequency receiver.

Fifth, \$5, Paul H. Davis, of Chicago, whose receiving post was located at the hunting lodge of Joseph Crum, on the broadwaters near Oyster, Va. In but two nights, Mr. Davis succeeded in bringing in seven different foreign broadcasters. Fourteen stations in all were heard, but confirmable proof was submitted for but confirmable proof was submitted for sands of reports of reception were replied. but seven. His receiver was a manufac-tured six tube portable radio frequency

set. Sixth, \$5, Master Sergeant Louis Hahn, of the 212th coast artillery, 120 West Sixty-second street, New York city. Sergeant Hahn, who submitted his report

260 DIFFERENT KINDS OF SETS HEAR KFNF

CHENANDOAH, Iowa.—Are you planning to buy a new receiving set? Then you'll be interested to learn that KFNF, Henry Field station here, has 260 different makes of sets represented in i**ts audi**ence.

Buy your pick after looking over the

The figure was obtained recently when an old-time fiddling contest was broadcast Thirteen aged fiddlers participated. The listeners were to pick the best of the thir-teen, the only condition being that in mailing one's vote the listener must mention the manufacture of his or her receiver.

The total number of votes cast was

23,343, and among the number a variety of 260 different makes of sets picked up the program.

with unusual military neatness, did not do so well as many other contenders who were less careful, but his record was above the ordinary. He received five foreign sta-tions, four of which were different. According to the many letters from lis-

teners who entered the International re-ception contest, over 200 clergymen, many lawyers, doctors and teachers, and a great many women attempted to win the prizes offered. The women's reports were invariably complete with detail. They did not overlook description of what they

However, men still seem to rank as best dial manipulators, so far as DX is con-cerned. A growing interest on the part of the weaker sex is noted, regardless of its absence of the prize winning list.

Every state in the Union was heard from, but the western states, on the whole, received but few of the European or South American broadcasters. Mexico, most provinces in Canada, and the Bermudas also entered the tilt.

Why Many Contestants Failed

Many excellent reports of reception were key information to allow checking for con-assed aside by the judges because some firmation.

of many adults. All of the many thousands of reports of reception were replied to by the International Tests department of Radio Digest, and Confirmation Certifi-cates—if earned—were mailed to fortunate fans, except in cases where legibility was

so poor as to prevent proper addressing.
Some listeners evidently received extra

Legion Notes

The Iowa department of the American egion will broadcast its official program Tuesday evening, February 23, 7:30 to 9:00 p. m. Central time, over Station WHO (526m-570kc). Addresses will be made by National Commander John R. McQuigg; Hanford MacNider, assistant secretary of war and past commander of the Legion; National Adjust James F. Barton and Governor John Hammill.

A musical program and addresses by the department officers will be broadcast by the Wyoming department of the Amer-ican Legion over Station KFBU, Laramie, Wyo., (270m-1110kc), Friday, February 26. 9:00 to 11:00 p. m. Mountain time.

The Wisconsin department of the Amer-The Wisconsin department of the American Legion will broadcast its 1926 barrage, February 22, from Station WKAF, Kesselman-O'Driscoll, Hotel Antlers, Milwaukee, Wis. The program will run from 8:00 p. m. until 2 a. m. Central time, with the exception of an hour between 11 and 12 o'clock.

Station Gives Program for Staunch Listener in Alaska

BUFFALO, N. Y.-WMAK, with studio here, has been heard repeatedly during the last few months by a man who signs himself S. Sheldon, at Haines, Alaska. Buffalo is his native city and he has been so enthusiastic about the WMAK programs that "Al" Erisman, manager of WMAK, put on a complimentary program for S. Sheldon after midnight recently. Among the great variety of musical and other numbers was one in which Walter T. Sheldon, a brother, participated. A telegram of greeting from the father of the brothers who lives in Ohio, was also read for it was the father's birthday.

ordinary well, but did not give sufficient firmation.

Dr. Horace B. Fenton, of Portland, Ore., deserves at least honorable mention. It is therefore awarded to this Westerner for his fourteen-page report, and his construc-tive criticisms so carefully made. Several hundreds of others contestants, too many by far to list here, are also deserving of

honorable mention, but space forbids.

One error in the confirmation programs, published last issue in Radio Digest, must be noted. The wave length of HA, Ham-burg was listed as 292.5 meters. The figure should have been 392.5.

ZENITH CASE SHOWS **NEED OF RADIO LAW**

PRESENT SYSTEM UNABLE TO REGULATE ETHER

Acting Secretary Davis Visits Chicago to Discuss Controversy with Radio Supervisor

WASHINGTON.—The urgent need for legislation which would give the secretary of commerce authority to regulate Radio has been stressed by the failure of the district attorney at Chicago to take immediate action against E. F .McDonald, immediate action against E. F. McDonald, Jr., president of the Zenith Radio Corp., owners of WJAZ. This is the opinion of Senator C. C. Dill and Representative Wallace White, Jr., authors of Radio bills in their respective branches of congress. In the absence of definite action on the part of the Chicago district attorney against Mr. McDonald for broadcasting on a wave length which he was not authorized to use, officials of the department

thorized to use, officials of the department of commerce refuse to comment on the

Davis Visits Chicago

Acting Secretary of Commerce Stephen Davis recently kept a speaking engagement in the Middle West. While there Judge Davis stopped off in Chicago to confer with the district attorney and the local Radio supervisor regarding the case.

Judge Davis refused to disclose his plans before leaving, but it is believed he intends to point out that in his opinion the present law provides sufficient authority for legal action against Mr. Mc-

Progress of Legislation
There has been no definite action in congress on Radio legislation since the public hearings in the house merchant marine and fisheries committee were con-cluded. An executive meeting was held in the house regarding the final form the bill should take. Mr. White expects the bill will be reported to the house substantially as drafted before this issue reaches its subscribers.

Indications are that further hearings in the senate on Radio legislation may be deferred until the White bill passes the house.

Receiving sets are to be distributed by a British missionary to natives in the South Sea Islands. Cocoanut palms, 80 to 90 feet high, are to be used for aerial



Ready for use at all times, 135 volts of "B" battery current, all you need, now or in the future. It delivers steady supply, operating perfectly at all times all sets using up to 9 tubes. The new tubes and modern sets require 135 volts—don't buy less!

There is no hum. No noise at all. The cur-No Hum rent is delivered from EIGHT electrolytic cells. NO TUBES TO FLUCTUATE OR TO REPLACE.

Economical Takes so little current you will notice no difference on your electric light bill.

Will deliver the full voltages you require for detector, radio frequency and amplifier tubes, strong and steady year after year, just as if you had brand new batteries all the time.

Convenient Plugs into electric light socket—nothing to get out of order at any time.

Improves Broadcast Reception

Large size condensers and steady current supply improve the performance of your radio set. You will have better quality of speech and music and greater volume.

No Parts Requiring Replacement or Renewal A few territories now open for established dealers.

J. ANDREW WHITE, 37 West 43rd Street, New York

There is a great demand Your dealer may not be able to supply you

MAIL THIS COUPON TODAY

J. Andrew	White,	37	West	43rd	Street,	New	York.
Enclosed is							

, and the state of
Enclosed is \$38, for which ship me your new and better "B" Radio Power Supply at once, my money to be refunded if I am not satisfied and return the unit in 10 days.
Name
Street, RFD or Box No
Shipping Point
Post OfficeState
53436

HOW TO COOK MEAT TO GET FULL VALUE

BETTY CROCKER PREPARES POT ROAST RECIPE

Food Expert Tells Importance of Select-ing Right Cuts for Satis-faction and Economy

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, WOAF, WGAF, and WCOO, the Gold Medal station at Minneapolis-St. Paul. All of Miss Crocker's recipes and discussions are based upon actual investigations and work of herself and her assistants in model kitchens.—Editor's Note.

By Betty Crocker.

EAT is one of the most important items on our food bill, so every woman should know how to select the best cut for any particular use, and also how to prepare and serve it so as to give the greatest satisfaction to the family, as well as to secure the most for her money. In order to do this, every housewife should make a careful study of the different cuts of meats and their uses.

wife should make a careful study of the different cuts of meats and their uses. It is always easy to remember that meat, that is, lean meat, is muscle. The muscles which the animal uses most are more developed. Consequently, the meat from those cuts are much tougher than from the other parts of the animal not used so much. That is why a shank or a shoulder cut is much tougher than a loin or a rib cut. or a rib cut.

or a rib cut.

To understand the cookery of meat, you should know the structure of it. Lean meat is made up of bundles of tiny fibers. These fibers are so small that they cannot the sid of the microscope. be seen without the aid of the microscope. Each little fiber is a tube filled with the juices of the meat, and the fibers are held together by what we call connective tissue

TWO LEADERS IN RADIO FIELDS



The difference between tough and ten-der cuts of meat is that the tough cuts have long coarse fibers and more connec-(Continued on page 12)

SHORT WAVES

By Marcella

Why S. V. L., don't you know that the "Red-Headed Music Maker" you recently heard at WSAI, Cincinnati, is none other than Wendell Hall? Paging Lou Ferris and Herb Beerman. I am not sure just where these gentlemen are, but I'll find out for you. Anybody knowing them real intimately are welcome to write.

intimately are welcome to write.

Ford and Glen, and Ralph Emerson, al of WLS, come in for many inquiries Here's to dispel all doubts regarding Ford and Glen for Anna, who is "just a middleaged" fan and probably won't worry over their matrimonial inabilities. I say the latter, for, first of all, both boys are married. Each has a boy. The boys are about eight years old each. Both Ford and Glen drive cars. In fact motoring is the hobby of the team, individually and collectively.

How did they meet? Through Radio and Edgar Bill, director of WLS. He heard Glen playing an organ in Chicago. He knew of Ford's ability. He matched the two together. When they met, it turned out to be a reunion, much to the surprise of Mr. Bill. Ford and Glen knew one another some years ago in St. Louis.

Ford (Rush) was born in New Orleans, which is properly pronounced "N'Awlins." Age about thirty-two, weight about 175 pounds, height six feet. Glen (Rowell) was born in Pontiac, Ill., where they feed 'em corn, hence his 218 pounds. Has lived about twenty-eight years, likes pie and cake, stands five feet eight inches tall. Next?

cake, stands five feet eight inches tall.

Oh yes, while speaking of Ford and Glen, one cannot forget Ralph Emerson, also of WLS. None of my inquirers do, either. They always ask about the three. Well, Ralph is a hard-working organist without a wife. His age is about thirty, weight about 185, height five feet ten. No, he doesn't drive a car. Too busy. His eyes are blue and his hair is inclined to be blonde. No mustache, sorry. What (Continued on page 12) (Continued on page 12)

WOMEN'S PROGRAMS INDEX

7:45 p.m. 6:45 p.m. 5:45 p.m. 4:45 p.m.

WKAR (285.5m-1000kc) "Selecting the Accessories of a Costume," Ethel Webb; "Checking Up on Individual Efficiency," Martha Hunter.

8 6 5

KFRU (499.7m-600kc) "What, Why and How in Regard to Color," Helen Anderson.

Saturday, February 20

Eastern Central Mountain Pacific 9:30 a. m. 8:30 a. m. 7:30 a. m. 6:30 a. m. WJ (52.7m-850kc) Tonight's dinner.

11

WEAR (389.4m-770kc) Home service talk.
WHT (399.8m-750kc) Women's club, Jean Sargent.
12 n. 10

WGN (302.8m-990kc) Household hints.
WQJ (447.5m-670kc) 'Stories About Famous Pictures,' Marjorie Curry.
1 p. m. 12 n. 11

KMA (252m-1190kc) Domestic science topics.
12:30 11:30 10:30 9:30

WGN (302.8m-990kc) Discussion of fashions.
12:35 11:35 10:35 9:35

KYW (535.4m-560kc) Table talk.
4 3 p. m. 2 p. m. 1 p. m.

KJR (384.4m-780kc) Tonight's dinner.

Monday, February 22

Monday, February 22
Eastern Central Mountain Pacific 9:30 a. m. 8:30 a. m. 7:30 a. m. 6:30 a. m. WUJ (352.7m-850kc) Tonight's dinner. 10
WZ (454.3m-660kc) Women's hour. WRC (468.5m-640kc) Women's hour. 10:45
9:45
WEAF (491.5m-610kc) Home service talk, Betty Crocker. Crocker.
WFI (394.5m-760kc) Gold Medal talk, Betty Crocker.

WFI (394.5m-760kc)
Crocker.

WTAG (268m-1120kc)
nurse.
10:50
9:50
8:50
7:50
WMC (499.7m-600kc)
Miss Kitty,
11
0
9
WEAR (389.4m-770kc)
Home economics discussion,
Miss Kitty,
11
0
9
WEAR (389.4m-770kc)
Home service talk.
WHT (399.8m-750kc)
Women's club, Jean Sargent.
WNYC (526m-570kc)
Women's rogram.
WTIC (475.9m-630kc)
Top-rit Weigers.
11:13
Down (475.9m-630kc)
Fashion talks, Marion
Down (1430
Down (1475.9m-630kc)
Four-H Club Recipes That
Please Dad, 'Jessie Greene.
WTIC (475.9m-630kc)
Housewife's forum.
11:43
WGTO (416.4m-720kc)
Easy,'' Betty Crocker.
WHT (399.8m-750kc)
Housewife's forum.
WTIC (475.9m-630kc)
Housewife's forum.
11:45
WGCO (416.4m-720kc)
Easy,'' Betty Crocker.
WHT (399.8m-750kc)
Housewife's forum.
11:45
WGCO (416.4m-720kc)
Easy,'' Betty Crocker.
WHT (399.8m-750kc)
Home service talk, Betty
Crocker.
12
10
WGN (302.8m-90kc)
Home service talk, Betty
Crocker.
12
Household hints.

WIP (508.2m-500ke) Market hints for housewives.
WOC (483.6m-620ke) Home management schedule,
Aunt Jane.
WQJ (447.5m-670kc)
Downing; "Home Dressmaking," Millian
Krauter.
5

Krauter. 4 3 2

KJR (384.4m-780kc) Home helps.
7:15 5:15 4:15

WKAR (285.5m-1000kc) "Democracy in Family Life," Irma Cross; "Women's Work of Yesterday and Today," Minnie Irons
7:30 4:30

WKAR (285.5m-1000kc) "Color in Wall Treatment," Audrey Hickman; "How Proteins Preserve Efficiency," Martha Hunter.

Tuesday, February 23

Eastern Central Mountain Pacific 9:30 a.m. 8:30 a.m. 7:30 a.m. 6:30 a.m.

WWJ (352.7m-850kc) Tonight's dinner. 10 8 7

KDKA (309 1m-970kc) Domestic Science. Arts for the Housewife.

WIP (508.2m-590kc) Menu, Anna Scott.

WJZ (454.3m-660kc) Women's hour.

WRC (468.5m-640kc) Women's hour.

10:45 9:45 8:45 7:45

WTAG (268m-1120kc) Talks to Mothers, Rosebelle Jacobus. WTAG (268m-1120kc) Talks to Mothers, Rosebelle Jacobus.

10 9 8

WEAR (389.4m-770kc) Home service talk.

WHT (399.8m-750kc) Women's club, Jean Sargent.

WMCA (340.7m-880kc) Home makers' hour.

11:35 10:35

WOI (270m-1110kc) "We Still Want to Know,"

Whinfred Tilden; home makers period, "When Shall We Send for the Doctor?" L. Lancaster.

12 n. 11 10

WGN (302.8m-990kc) Household hints.

WGJ (447.5m-670kc) "The Utility Hat," Lillian Russell. Russell, 12:30 p. m. 11:30 10:30 9:30 WEBH (370.2m-810kc) Fashion and household WQJ (447.5m-670kc) "Fruits Daily," Helen Downing.
4:30 3:30 1:30 1:30
WLIT (394.5m-760kc) Household helps and hints.
5 4:30 4:30 4:30
KIR (384.4m-780kc) Home helps.
5:30 KOA (322.4m-930kc) Housewires matinee.
6 5:45 5:15 4:15
KOA (322.4m-930kc) Culinary hints, Clara Hoover.
6:15 5:15 4:15
KOA (322.4m-980kc) Fashion review, Sally Dee.
7 6 KFOA (454.3m-660kc) Today's recipe.
8 7 6:30 5:30
KGO (361.2m-830kc) Fashion Flashes.
8:30 7:30 6:30 5:30
KGO (361.2m-830kc) As a Woman Thinketh.

Wednesday, February 24

Eastern Central Mountain Pacific
9:30 a. m. 8:30 a. m. 7:30 a. m. 6:30 a. m.
WJJ (352.7m-850kc) Tonight's dinner.
10 8 7
WIP (558.2m-550kc) Menu.
WJZ (454.5m-660kc) Women's hour.
WRC (468.5m-640kc) Women's hour.
10:45 9:45 8245 7:45
WEAF (491.5m-610kc) Home service talk, Betty Crocker. Crocker. WFI (394.5m-760kc) Gold Medal Service talk,

| 12.30 p. m. | 11.30 | 10.30 | 9.30 | MeBH | (370.2m-810kc) | Fashion | and | household talks. | WGN (302.8m-990kc) | Discussion of fashions. | 12.35 | 11.35 | 10.35 | 9.35 | KYW (535.4m-560kc) | Table talk. | 10 | Seving tal

12 n.

2 12 n. 11
WGY (370.9m-790kc) "Music and Games for Childern Under School Age," Marjoric Cutler,
3 19 p.m.
WOC (483.6m-620kc) Home management schedule, Aunt Jane.
WOJ (447,5m-670ke) "Entertaining the Children,"
Helen Downing; "Care of the Feet—the Foot
Specialist," Dr. Frank Furch; golf lesson, Ralph
Thorn.

6 (322.4m-930kc) Culinary hints, Clara Hoover. 6:15 5:15 4:13 3:15 KOA (322.4m-930kc) Fashion review, Sally Dec. 7 p. m. 6 p. m. 5 p. m. 4 p. m.

KFOA (454.3m-660kc) Today's recipe.

KFRU (499.7m-600kc) "Hints on Grooming," Dorothy Logan.

8:15 5:15

KSAC (340.7m:580kc) "Old Houses for New," Marie Morris; "The Government and the Rural Home," Amy Kelly.

8:30 5:30

WEAO (293.9m-1020kc) "Shopping ofr Early Vegetables," E. Montgomery.

8:50 7:50 6:50 5:50

WOI (270m-1110kc) "What Every Husband Knows," home economics vaudeville program, Margaret Hassart.

9 KFMQ (299.8m-1000kc) "Safety in the Household," D. G. Carter; Women's club talks.

Friday. February 26

WDAF (365.6m-820kc) "Gold Medal Salad Se-Wilmes.
12:15 11:15 9:15
KYW (585.4m-560ke) "Phon Phor Phood," John
Cutting."
12:30 p. m. 11:30 10:30 9:30
WEBH (370.2m-810ke) Household and fashion
talks. VQJ (447.5m-670kc) "Seventh Domestic Science Lesson—Invalid Cookery," Helen Downing; "Pineapple—a Hawaiian Rhapsody," Mary Mar-**PINEADPIG—A HAWAHAN KNABOODY, MARY MAR tin.

4:30
3:30
2:30
1:30
WFAA (475.9m-630kc) Homemakers program.
WMAQ (447.5m-670kc) Foibles of the Moment.

5
4:3
KJR (384.4m-780kc) Home helps.
KYW (555.4m-550kc) Woman's hour.

5:15
4:15
3:15
2:15
WMAQ (477.5m-670kc)
5:30
4:30
KOA (322.4m-930kc) Housewives matinee.

6
KOA (322.4m-930kc) Culinary hints.
6:15
5:15
KOA (322.4m-930kc) Fashion review.

AN EVENING AT HOME WITH THE LISTENER IN IN EASTERN TIME

L			TT.	·	r TTITIA	I HIVIE				
Call	Location	Me	t. Saturday	Sunday	Mondo	Tuesday	Wadaa	v TL		=
ATS	Fort Bragg, N.	C 435	Silent	6:00- 7:0		Silent	- Wednesday Silent	8:00- 9:5	Friday 5 Silent	
CFC/	A Toronto, Ont N Calgary, Alta	356. 434.	9 Silent 5 12:00- 2:00	7:00-9:00 Silent	6:45- 7:48 Silent		7:00-12:0 Silent		Silent	
CKA	C Montreal, Que						8:00-10:0		0 10:00- 1:	00
CKN	C Toronto, Ont	356.	9 8:00-10:00	Silent	8:00-11:00	Silent	Silent 8:30-12:0	Silent	Silent	
CNR	Ottawa, Ont	434.	5 8:30-1:30		Silent	Silent 10:24-11:5	8:30- 1:3	0 Silent	Silent	
CZE	Mexico City, Me Mexico City, M	ex. 350	9:24-10:24	Silent	9:24-10:24	9:24-10:24	9:24-10:2		9:24-10:2	
KDK	B I Ingain Niche		6:30-10:30	5:00-12:00	6:30-11:30	6:30-11:30	6:30-11:30		6:30 - 9:5 6:30-11:5	
KFD KFI	Beaumont, Texas	315.	9:00: 6:00			9:00-11:30 9:00- 2:00		Silent 0 9:00- 2:00	9:00-11:3	30
KFJF KFK	X Okla. City, Okla	261	7:30-11:45 6:30-7:30	3:30-12:45 Silent	7:30-11:45 10:00-12:00		7:30- 1:00	7:30-11:45	7:30-11:4	45
KFM KFM	Fayetteville, Ari	299.1		Silent 8:00- 9:00	Silent	8:30-9:30 10:30-11:00		Silent	Silent	
KFN/	a Snenandoan, Ia	263	8:00-10:00	8:30-9:30		8:00-10:00	8:00-10:00	8:00-10:00	0.00 20.0	00
KFR	outumbia, Wiv	499.	Silent	8:30-9:30 5:00-11:15	7:15- 8:15		10:00-12:00 10:15-11:15	7:15- 8:15	1	
KFV	E Inhibitor City M	240	10:15-11:15	Silent	10:15-11:15	10:15-11:15	10:15-11:15	Silent	Silent 10:15-11:1	15
KFXI KG0		e 250	9:00-11:00	12:00 - 2:00 7:30 - 9:00	8:30-10:30	10:00- 3:00 8:30-10:30	10:00- 3:00 Silent	9:00-11:00)0
KGW	Oakland, Calif Portland, Ore	491.5	9:00- 3:00	6:30-12:30 10:25- 1:00	9:00-12:00	9:00- 2:00 9:00- 3:00	9:00-10:00		9:00-10:0	
KIAF	Los Angeles, Cal Sihtipok, Minn	421	Silent	9:30- 1:00 3:00- 4:00	Silent 8:00-9:00	9:30- 2:00 Silent	9:00- 2:00 8:00- 9:00		9:30 · 2:0 8:00 - 9:0	00
KLD:	Seattle, Wash	384.4	9:00-10:00	7:30-11:00	10:00- 2:00 Silent	11:30- 1:00 9:00-12:59	10:00- 1:00 Silent	9:00-10:00	11:30- 2:0 Silent	10
KLX	Oakland, Calif Shenandoah, Io	508.2	Silent 7:00-12:00	Silent 5:00- 7:00	7:00-1:30 7:00-12:00	Silent 7:00-12:00	7:00-1:00 7:00-12:00		7:00-1:3 7:00-12:0	
KNX	Hollywood, Calif.	336.9		5:00-1:30 5:00-10:45	9:15- 3:00 8:30-12:30	9:15- 2:00 8:30-10:30	9:15- 3:00	9:15- 2:00	9:15- 3:00	ō
KOB	Denver, Colo State College, N. P	M. 348.6		Silent 8:00-1:00	9:30-10:30 7:00- 1:00	Silent 7:00- 1:00	8:30-2:00 Silent	Silent	8:30-11:00 9:30-10:30	0
KP0 KPRC	Council Bluffs, I San Francisco, Ca	1. 428.3	9:35- 3:00	8:00-2:00 8:30-11:30	9:40- 2:00	9:15- 2:00 8:30-10:30	7:00- 8:15 9:15- 2:00	9:15- 2:00	7:00- 1:00 9:30- 2:00	
KPSN KSD	Pasadena, Cal	315.6	The second second	9:45-11:45 7:15-10:15	8:30-11:00 Silent	11:00-12:30	8:30-1:00 Silent	11:00-12:00	Silent Silent	1
KSL	St. Louis, Mo Salt Lake City, U	t. 299.8	10:00- 1:00		7:55-12:00 10:00- 1:00	7:55-11:00 11:00- 1:00		7:55-11:00 10:00- 1:00	8:30-10:00 11:00- 1:00	0
KTAB	Oakland, Calif Los Angeles, Cali	1. 293.9	Silent	10:15-12:30		11:00-12:00	Silent Silent	11:00-12:00	11:00- 1:00 Silent	
KTCL KTH8	Seattle, Wash	305.9	Silent 10:00-12:00	12:10- 9:10 10:00-12:30	10:00-11:00 10:00-12:00		Silent 10:00-12:00		10:00-3:00 10:00-12:00	
KTW	Seattle, Wash	455	9:30-10:30 10:00- 1:60	Silent 8::00-12:00	Silent 10:00-12:30	9:30-10:30	Silent	9:30-10:30 9:00-10:30	Silent	1
KWSC	Pullman, Wash	348.6	Silent 7:00- 8:00	Silent 3:30-4:30	10:00-12:30 10:30-12:00 9:30-10:30	Silent 7:00- 8:00	Silent 10:30-12:00	~	Silent 10:30-12:00	
KYW NAA	Chicago, III	535.4	8:00-11:00	5:00- 9:00 Silent	Silent	8:00- 1:30 7:45- 8:00	7:00- 8:00 8:00- 2:30	8:00-1:30	7:00- 8:00 8:00- 2:30	
PWX	Radie, Va Havana, Cuba	400	Silent 8:30-11:00	Silent	7:45- 8:00 8:30-11:00	8:30-11:00	7:25- 8:40 8:30-11:00	7:45- 8:00 Silent	7:45- 8:00 Silent	
WAH	Richmond, N. Y	315.6	6:30- 7:30 12:00- 2:00	6:30-7:30 Silent	6:30- 7:00 8:00- 2:00	6:30-11:30 Silent	6:30-7:30 7:30-12:00	6:30-11:00 Silent	6:30-11:00 8:00-11:00) 1
WBAL	Baltimore, Md	246	7:15- 1:00 Silent	8:00-11:00 6:30- 7:30	8:00-1:00 6:30-10:00	9:45-10:45 6:30- 9:00	8:00- 1:00 Silent	7:15- 1:00 6:00-10:00	8:05- 1:00 6:30- 9:00) ,
WBAR	Sisiht, Wis	475.9 406		10:30-12:00 11:00-12:00	8:30- 1:00 10:00-11:00	8:30-12:00 Silent	Silent 9:00-10:00	8:30- 1:00 8:30- 9:30	8:30- 1:00 Silent	1
WBBA	States Island W V		9:00- 2:00 8:00-10:00	9:00-3:00 9:00-10:15	7:00- 8:00 8:00- 9:00	9:00- 1:00 Silent	9:00- 3:00	9:00- 1:00	9:00-11:00 Silent	
WBCN WBZ	Chicago, III Springfield, Mass.	266	10:00- 2:00 6:30- 8:30	6:00- 1:00 8:00- 9:00		10:00-2:00 6:30-10:02	Silent 9:00- 1:00 6:30- 9:45	8:00- 9:00 10:00- 3:00		1 1
WCAE	Pittsburgh, Pa	461.3	8:30- 9:30 Silent	6:30- 8:20 4:00-10:15		8:00-11:00 Stlent	8:30-10:00	9:00-11:00	8:00-9:30	li
WCAU	Philadelphia, Pa	278	Silent Silent	5:00-11:30 9:00-11:30	8:00-11:30 Silent	6:45-12:00 9:00-11:30	6:45-12:00 6:45- 1:00	Silent 6:30-12:00	7:30-11:30	
WCCO	Minn-St. P., Minn	416.4	7:15-12:05	5:10- 9:15	7:00-11:00	7:15-11:00	Silent 8:00- 1:30	9:00-11:30	Silent 7:15-12:05	1
WCX	Kansas City, Mo	516.9		7:15- 8:15 5:00- 5:45	6:00- 9:00 7:00- 2:00	6:00-11:00 7:00- 2:00	6:00- 9:00 7:00- 2:00	6:00- 9:00	6:00-11:00 7:00- 2:00	1
WDB0 WDWF	Winter Park, Fla	. 240	9:00-10:30 Silent	5:00- 6:00 Silent	9:00-10:30 Silent	9:30-11:00 8:30- 9:30	9:00-10:30 Silent		9:00-10:30 Silent	
WEAF WEAO	New York, N. Y	491.5	6:00-12:00 Silent	2:00-10:15 Silent	6:00-12:00	6:00-12:00 7:00- 9:00	6:00-12:00 8:00- 9:00	6:00-12:00 8:00-11:00	6:00-12:00 Silent	f
WEAR WEBH	Cleveland, Ohio	. 389.4	7:00- 1:00	7:00-10:15 6:00-10:00	8:00-12:00	7:00-10:00 8:00- 1:30	7:00- 8:00 8:00- 1:30	7:00-11:00	7:00-11:00	
WEBJ	New York, N. Y	272.6	Silent	Silent	Silent	8:00- 9:00	8:00-10:00	Silent	8:00- 1:30 7:00- 9:00	8
WENR	Boston, Mass Chicago, III	266	7:00-3:00	7:20-10:20 3:00-12:30	Silent	8:00-11:00 7:00-11:00	8:00-10:00 7:00- 3:00		8:30-11:00 7:00- 3:00	
WFBH	New York, N. Y	272.6	11:30- 2:00	7:30-12:00 5:00- 8:00	1:30- 2:00 1		Silent 1:30- 2:00	7:30- 1:00 11:30- 2:00 1	7:30-10:30 1:30- 2:00	i
WGB8 WGBU	Philadelphia, Pa New York, N. Y	315.6	6:00-11:30	7:30- 8:30 8:00- 9:00		8:00-12:00	Silent	8:00-11:00 6:00- 8:45	Silent	t
WGCP	Fulford, Fla New York, N. Y	252	Silent	9:30-12:00 8:00-11:15	6:30-1:00 8:00-11:00	6:30- 1:00		6:30- 1:00	6:30-1:00 8:00-11:00	V
WGHB	Oak Park, III Clearwater, Fla	266	6:30- 1:00	1:30- 3:00 Silent		1:30- 3:00 1	1:30- 3:00	11:30- 3:00 1	1:30- 3:00 6:30- 1:00	a
WGN	Detroit, Mich Chicago, III	270		Silent 4:00-10:15	7:00- 9:00	7:00- 9:00	7:00- 9:00	9:00-11:00	9:00-11:00 7:30-12:00	u
WGR WGY	Buffalo, N. Y Schenectady, N. Y.							8:00-11:00	8:45-1:00 7:15-10:30	s t
WHAD	Milwaukee, Wis	275		4:15- 5:15	7:15-11:00		7:15- 1:30	7:15- 8:00	7:15-11:00	c
WHAS	Louisville, Ky Trey, N. Y	399.8		5:00- 6:00			8:30-10:00	8:30-10:00	7:30- 1:15 8:30-10:00	t
WHB	Kansas City, Mo New York, N. Y	365.6	Silent	9:00- 2:30	8:00- 9:00 1	8:00-11:00			Silent 8:00- 9:00	fis
WHO	Des Moines, Ia Chicago, III	526	Silent		8:30- 1:00	8:30- 1:00	7:30- 1:00	8:30- 1:00 8	7:30-12:30 8:30- 1:00	
WIBO WIP	Chicago, III Philadelphia, Pa	226		7:00-1:00 Silent	Silent		7:00- 4:00	7:00- 4:00	8:00- 2:00 7:00- 3:00	S
WJAR	Providence, R. I	305.9	Silent	7:20-10:15	8:00-10:00	7:30-10:00	7:30-11:00		Silent 8:00-12:00	t:
WJAX	Pittsburgh, Pa Jacksonville, Fla	336.9		7:30- 8:30	8:00-10:00 8	3:00-12:00			7:00-12:00 8:00-10:00	u
WIR	Chicago, III Mecscheart, III	370.2		Silent 9:45-11:00			7:00- 2:00	1:00- 1:00 7:00- 2:00	Silent 7:00-2:00	d
WJZ	Pontiac, Mich New York, N. Y	454.3		3:00-11:00	8:15- 9:15	8:10-11:30			7:00-9:00 8:15-10:45	n n
WKAQ WKAR	San Juan, P. R Lansing, Mich	285.5	Silent 12:30- 2:00		Silent 7:00-8:00	Silent	7:00- 9:00 8:00- 9:15		7:00- 9:00 7:00- 8:00	a
WKRC WLIB	Cincinnati, O Chicago, III			3:45- 1:30 3:00- 8:00	7:00-2:00 1: Silent	1:00- 1:00 3:00- 2:00	7:00-2:00 1	1:00- 1:15	Silent 8:00- 2:00	g fl
WLIT WLS	Philadelphia, Pa Chicago, III		Silent 8:45- 2:00	Silent 7:30-8:55	7:30-11:00 Silent	Silent	7:30-11:00	Silent	7:30-11:00 8:00-12:30	in
WLWL	Cincinnati, O	422.3 288.3			8:30-10:00		8:00- 1:00	8:00-2:15 8:00-10:00	Silent Silent	g
WMAK WMAQ	Lockport, N. Y	265.5		7:30- 8:30	7:30- 9:00		7:30-10:00	6:15- 7:15	Silent	
WMAZ WMBB	Chicago, III Macon, Ga Chicago, III	261 261	9:00-11:00 Silent 8:00-12:00	Silent Silent 1:00-12:00	0:00-11:00 8	3:00- 9:00 1	1:00-12:00 1	0:00-11:00 8	9:00-11:15 8:00-11:00	u
WMBF WMC	set Parada Fla	007.7	7:00- 1:00 7	:00- 1:00 5	7:00- 1:00 7	:00- 1:00 7	7:00- 1:00	7:00- 1:00 7	8:00-12:00 7:00- 1:00	S
WMCA	New York, N. Y.			(:00-10:00	9:00-12:00 8		9:00-12:00	9:00-12:00 8	3:30- 1:00 3:00-11:45	n T
WNYC	New York, N. Y	280.2 526	7:00-10:30 9	:00-11:00	7:35-10:30 7	:10-10:30 7	(:30-10:30	8:00-10:00 8 7:35-10:30 7	3:00-10:00 7:30-10:30	it
WOAN		282.8	Silent 10	3:45- 9:45 0:00-11:00	Silent 9 0:00- 2:30 10	30-10:30 9 0:00-11:00 10	:30-10:30	Silent 9	3:30-10:30 0:00-11:00	W
WAOW	Omaha, Nebr Trenton, N. J	240	Silent 9	:30-11:30	7:00-11:00 7 Silent	:00- 2:00 Silent	Silent Silent	7:00-2:00 7 Silent	7:00-12:15 Silent	OI A
WOG	Davenport, Ia Homewood, III	483.6		:30-12:45	Silent 7	:30-12:15 7	:30-11:00	7:30- 1:00 7	:30-10:45	ca
WOO WOO	Philadelphia, Pa	508.2	Silent 7	:30- 8:30	3:00- 7:00 7	:30- 8:30 7	:30-12:00	7:30- 8:30 7	:00- 2:00 :30-12:00	
WOR	Newark, N. J		6:15- 8:30		6:15- 9:30 6		:15-10:00 6	6:15- 7:30 6	Silent: 15- 7:30	fr li
W08	Jefferson City, Me. Atlantic City, N. J	440.9	9:00-10:00 3 Silent 9	:00-10:00 9	:00-11:00	Silent 9		Silent 9	:00- 1:45 :00-11:00	pa
WQJ	Chicage, Ill	447.5	7:00-12:00 4 8:00- 4:00 8 7:00-11:30	:00-11:00	Silent 8	:00- 3:00 8	:00- 3:00 8	8 00:8 -00:8	:00-12:00	ea
and the second	wonding edity of Yal	16010 1	11.00	Silent	Silent 7	:00-11:00	Silent 7	:00-11:00	Silent	oí
						- 4				

Call	Location	Met.	Saturday	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday
WRVA	Lansing, Mich Richmond, Va Tarrytown, N. Y	256	10:00-12:00 Silent 9:00-11:30	Silent	Silent 8:10-10:10 9:00-11:30		8:10-11:00	8:15-10:00 9:30-12:30 9:00-11:30	7:00-11:0
WSB	Atlanta, Ga Nashville, Tenn	428.3	8:30-10:15 9:00- 1:00 8:15-12:00	8:30-10:15	11:00- 1:00 9:00- 1:00 8:00-12:00	9:00- 1:00	11:00- 1:00 11:45- 1:00 8:00-12:00	8:00-11:00 9:00- 1:00	Silent 9:00-1:0
WSMB	New Orleans, La lewa City, Ja	282.8 483.6	9:30-11:30		9:30-12:30	Silent		Silent 9:30-12:00 Silent	Silent Silent Silent
WTAM	Cleveland, O	389.4	Silent 6:00-12:00	Silent	7:00-11:00		7:00-11:00	8:00-11:00 6:00- 7:00	8:00- 9:0
ww.j	Hartford, Conn Detroit, Mich	175.9 52.7	6:30-12:00 Silent	5:00-10:30 6:20-10:00	6:30-12:00 6:00- 9:00		6:30-10:00 6:00-10:00	6:30-7:30	

STATIONS IN ORDER OF WAVE LENGTHS

35.4		
Meters Call Meters Call	The Court of the Court of Court	I Meters Call Meters Call
217.3 WOK 270 WGHP		399.8 WHT 467 KFI
226 WBBM 272.6 WBBR	1299.8 WPG 348.6 KWSC	
226 WIBO 273 KWKH	1302.8 WGN 3486 WEE	
240 KFVE 272.6 WEBJ	302.8 WLIB 350 CZF	
240 KTAB 272.6 WFBH	305.9 KTCL 352.7 WW.	11 0 20 11 20 11 20 11
240 WDBO 273 WRW		
240 WOAX 275 WHAR		
244 WAMD 275 WORD		
246 WBAL 275.3 WJAS		
250 KFXF 278 KOIL	DATE C TEL ATECH SULLE WELL	
250 WGES 278 KWWG	DATE C TRICING OUT. O VIDAL	
250 WMBB 278 WCAU	1010 TITOTO OUD.O WILL	THE PARTY OF THE P
252 KFWB 278 WGBU	1010 TEXALETE	1 0.0
252 KMA 278 WOO	LOOP A TROAT	The state of the s
252 WGCP 280.2 WNAC	LOOP I TELL STATE OF THE LILLY	TELLER OF CTAIN THE TELLER
256 WRVA 282.8 WOAN	LOOF C TOTAL TO THE WALL	
258 WADC 282.8 WSM	10004 SALDES OF MITTAL	
261 KFJF 285.5 WKAR	DOCO TEXTER OUT.T	
261 KWKH 285.5 WREO	10040 **********************************	
Out The Louis WILEO	1000 0 TTTT ATT OUT. T TILLE	
200.0 ILLIA	OLO E TETT IN COLE WILLIAM	447.5 WMAQ 526 WHO
DOF A TITLE A TE	O A O F STATE A O I STATE AT LAND	447.5 WOJ 526 WNYC
DOG TOTAL POOLS INTDI	340.7 WKAQ 394.5 WFI	454.3 KFOA 526 WOAW
OGG TENTON	340.7 WMCA 394.5 WLIT	454.3 WJZ 5354 KVW
200.0 111 100	344.6 WCBD 394.5 WOAI	455 KTW 545.1 KFUO
268 WTAG 299.8 KFMQ	344.6 WLS 399.8 WHAS	
		CLLL OTO.I IKBD

HOW TO PREPARE MEAT

(Continued from page 11) When we cut a piece of meat we cut

across the fiber, leaving the ends open so that the juice can run out. That is why we sear the meat the first thing when cooking.

Save Valuable Meat Juices.

Save Waluable Meat Juices. By searing we mean cooking over the outside of the meat very quickly so that

the cut ends of the little fibers are sealed tight, preventing the loss of any more of the juices.

the juices.

It is because the flavor of the meat is found in these juices that we are so careful to retain them. The meat juices stimulate the production of the digestive juices in the stomach and thus stimulate the appetite. That is why clear soup is served at the first course for dinner and its clear whe head that the store that its state of the store that the store is also why beef broth is given to invalids and convalescents.

Meat is largely protein and protein must be cooked at a low temperature. If it is cooked quickly or at a high tempera-ture, it becomes tough and leathery. For that reason the directions for cooking meat always read "sear it very quickly at first and then cook it slowly for as long as is necessary to complete the cooking. Cooking Tougher Meats; Pot Roast.

Tender cuts of meat, such as roast and steak, may be baked or broiled, but the tougher cuts should be cooked for a long time, very slowly, and in moist heat, that is, with some water. It would never do to cook a pot roast or a stew in a dry oven as we do a roast, or on a broiler as we do a steak.

Moisture and the long slow cooking are absolutely necessary to make the meat tender and palatable. For a pot roast we use a tougher cut of meat than that selected for the oven roast. Sometimes the bottom of the round is used or the chuck or the neck. Here is the kitchen tested recipe for pot roast:

Four pounds of chuck, 2 tablespoons of flour, 4 tablespoons of dripping, 3 teaspoons of salt, and 1 quart of cold water.

Method: Wipe the meat with a cloth Moisture and the long slow cooking are

Method: Wipe the meat with a cloth wrung out of cold water. Rub over the surface with flour. Sear on all sides in the hot drippings until brown. Season

the hot drippings until brown. Season with salt. Add water and cook SLOWLY until tender. (About 2½ hours).

Never wash meat in water, as that will dissolve out some of the precious juices. The searing of the meat in the hot fat not only helps to keep in the juices, but also carmelizes the surface of the meat, giving us a good brown color and a vicinity. giving us a good brown color and a rich flavor. For searing, heat the fat in an iron pot or in a kettle in which the roast is to be cooked. Otherwise much of the good flavor will be lost.

Helpful Hints for Pot Roast.

meat itself. Be sure to sear it well on all sides. You will notice that the salt is not added until after the meat is seared. That is also to help retain the juices. If it is necessary to add more water during cooking, add boiling water, as cold water would retard the cooking. Let me add once more—cook the pot roast SLOWLY. A good sauce may be made by pouring a last how.

last hour of cooking.

After the pot roast is done, remove it After the pot roast is done, remove it from the pan and add more water to the liquid in the pan. Then make a thin paste of flour and cold water, using the proportion of 2 tablespoons of flour to each cup of liquid, and equal proportions of flour and fat. Pour the paste into the do by best to answer here. MARCELLA.

hot liquid and stir constantly. Add salt to taste, and cook slowly 10 minutes. In many cases gravy is not cooked long enough to cook the starch in the flour, the result being a raw, starchy taste.

For serving, the pot roast may be garnished with vegetables. For example, arrange carrots cut lengthwise to make a border around the platter, or place the pot roast in the center of the platter with the potatoes at one end and some other vegepotatoes at one end and some other vegetable opposite.

SHORT WAVES

- By Marcella

(Continued from page 11)

does he do when he isn't playing the organ? Well, then he teaches organ playing for the Barton organ school.

"Old Timer" is Sen Kaney, "Mike," Gladyce and Ina. He's married to a very jealous wife. Watch out. He's about thirty-two years old. Bobby Brown, another KYW favorite, whose Overseas Uke is legand is manyied. His core twenty is legend, is married. His age, twenty-eight. Lee Sims, who tickles the Stein-way at KYW's Congress hotel studio, is likewise a benedict and about thirty-four years young. Evidently this trio's "Gloom Chasing Hour" is drawing the ladies to the receivers. Sure, they're on every Tuesday, Thursday and Saturday after-

"Helen" thinks she has one on me. Read

what she says—all of it:

"Noted in your paragraph about E. L. Tyson of the Detroit News that you did not say YOU danced WITH him at the cabaret. I'll fager five cents worth of applesauce you carry a MISTER before your name. Be careful or I'll be asking for YOUR photo, autographed! Incidentally, what can you tell me about Maurie Blumenthal of WGN Drake hotel orchestre fewer?

Blumenthal of WGN Drake hotel orchestra fame? I have a case and want to be cured. Five children and a wife might help, or even his picture.—Helen."

Another insult! Why you girls get the idea that I am a mere man, I can't fathom. But I won't send you my picture! Now about Maurie. He is NOT married. Went to University of Illinois. Is only twenty-three years old but he plays piano, arranges and sings as if he had years of experience. Since Maurie is matrimonially on the market, I will add that he drives a fast, rakish coupe and keeps the windshield and windows dusty so the public can't see him and his. Hair, black and straight; weight, about 165 pounds.

Harry Snodgrass, the Ivories?" I don't know wh "King of the

The Gold Dust Twins prefer to remain a mystery. They are however, experienced artists (white) with enviable reputations behind the footlights. Olive says their southern melodies are best. Everyone expend?

ADVANCE PROGRAMS FOR THE WEEK

Saturday, February 20

Saturday, silent night for: CFAC, CFCA, CNRA, CNRC, CNRE, CNRM, CNRR, CNRT, CNRV, CNRW, KFDM, KFKX, KFKU, KFMX, KFRU, KFUA, KFVAF, KKX, KMA, KOAC, KOB, KQP, KSAC, KSO, KTAB, KWSC, WABQ, WCX, WDOD, WEAO, WEBW, WEEI, WGCP, WGST, WHAD, WHAZ, WGR, WHN, WHO, WIP, WJAR, WJAZ, WKAQ, WKAR, WIIT, WWL, WMAZ, WOAI, WOS, WRVA, WTAG, WTIC, WWJ.

Eastern Time Stations
CHIC, Toronto, Can. (356.9m-840kc), 10:30 p. m., dance program, Al Linton's orchestra.
CKNC, Toronto, Can. (356.9m-340kc), 4 p. m., chamber orchestra, Charles E. Bodley, director; Arthur Vander-Voort, bass; Hazel Hall-Vander-Voort, soprano; 8-10, Charles E. Bodley and his dance orchestra; Elgar male quartet.

quartet.
CNRO, Ottawa, Can. (434.5m-690kc), 7:30 p. m., Cosy
Corner for girls and boys, Uncle Dick; 8, Chateau
Laurier concert orchestra; 8:45, Alice Valiquet, soprano; Nico Poppeldoff, violinist; Chateau Laurier

Laurier concert orchestra; 8:45, Alice Valiquet, soprano; Nico Poppeldoff, violinist; Chateau Laurier dance orchestra.

KDKA, Pittsburgh, Pa. (309.1m-970kc), 7:15, 8 a. m., exercises. O. Shannon, conductor; 5:45, Daddy Winkun; 6:30, dinner concert, T. J. Vastine, conductor; 8:30, concert, Mrs. Edna Reed, contralto.

PWX, Havana, Cuba (400m-750kc), 8:30-9:15 p. m., dance music; 9:25-10:10, concert.

WAFD, Port Huron, Mich. (275m-1090kc), 10-12 p. m., Harrington hotel dance music; 12, Ether Buster club. p. m., Austin Wylie's Vocalion Recording orchestra; WAHG, Richmond Hill, N. V. (315.6m-950kc), 12:03 p. m., Joe Zimmerman, planist; 12 midnight, Weinzoff's concert orchestra.

WBBR, New York, N. Y. (273m-1100kc), 8 p. m., Carl Park, violinist; 8:40, "Comfort for the People," Bible discussion; 8:50, L. Marion Brown, soprano; 8:30, Carl Park, violinist; 8:40, "Comfort for the People," Bible discussion; 8:50, L. Marion Brown, soprano.

WBZ, Springfield, Mass. (333.1m-900kc), 6:30 p. m., Little symphony orchestra, KDKA; 6:45, Hotel Lenox ensemble; 7:45, Daniel Kuntz and his Repertory theater concert orchestra; 8:15, musical program, Hotel Brunswick studio; 9:15, violin recital, Evelyn LaFrance Daly; Mrs. Eleanor Turner LaZazzerr, accompanist, 9:30, program, Louise Boyce, soprano; Thelma Busbee planist and accompanist; 9:45, Lee Reiman's Hotel Brunswick orchestra.

WCAE, Pittsburgh, Pa. (461.3m-650kc), 3 p. m., musical Wickel Cafe, 6:30, dinner concert, William Penn botel:

pianist and accompanist; 9:45, Lee Reiman's Hotel Brunswick orchestra.

WCAE, Pittsburgh, Pa. (461.3m-650kc), 3 p. m., music, Nison Cafe; 6:30, dinner concert, William Penn hotel; 7:30, Sunshine girl; 8:15, Youngstown artists.

WCX, Detroit, Mich. (516.3m-650kc), 6-7 p. m., dinner program, Goldkette ensemble.

WEAF, New York, N. M. (516.3m-650kc), 6:45, 7, 7:20 a.m., "Tower Health Exercises," to WEAF, WEEL, WCAP; 7:43-5, "Morning Prayer Service," under the auspices of the Greater New York Federation of Churches; 4 p. m., Louis Fisher's dance orchestra, 5, Vincent Lopez and his orchestra from Ritz Carlton hotel; 6, dinner music, Hotel Waldorf-Astoria; 7, Josephine Evans quartet; 7:40, Long Island Grotto B. U. G. club; 7:30, Josephine Evans quartet; 7:40, Long Island Grotto B. U. G. club; 7:55, "Character Sketches," Eugene Lincoln; S:10, Einar Hansen, violinist; 8:30, Minnie Well, pianist; 8:45, Irvine Players—one-act Radio plays; 9:15, musical selections, string trio; 9:30, WEAF musical comedy troupe; 10, Ross Gorman and his orchestra from Monte Carlo; 11-12 Vincent Lopez and his orchestra from Casa Lopez.

WEAO, Columbus, Ohio (293.9m-1020kc), 8 g. m., Michigan-Ohio State basketball game, A. Lee Henderson,

announcer.
WEAR, Cleveland, Ohio (389.4m-770kc), 7 p. m., Hotel
Statler concert orchestra, Maurice Spitalny, director;
12 midnight, Wormack's singing syncopators.
WEEI, Boston, Mass. (348.5m-850kc), 6:45 a. m.,
Tower health exercises; 8 p. m., Boston symphony orchestra, Serge Kousevitsky, conductor; 10, Lucerne
Girls' quintet.

chestra, Serge Roussevinsky, conductor; 10, Lucene Girls' quintet.

WFI, Philadelphia, Pa. (394.5m-760kc), 10 a. m., meeting, American Academy of Political and Social Science, conference on Modern Crime, the Prevention and Detection—speakers, Hon. Ellen G. Potter; Fred L. Hoffman, William McAdoo, Chief Magistrate of New York; Joseph K. Willing; 1 p. m., tea room ensemble; 3, Peter Mulhenburg Chapter, Daughters of American Revolution; Puccini string trio; Helen Rowley, violinist, Jean Modave, cellist, Kathryn O'Boyle, pianist; Virginia Snyder, accompanist; soprano solos, Laura E. Manwaring, Fanny Shirver, accompanist; 6:30, Bellevue-Stratford concert orchestra; 7, Bellevue-Stratford dance orchestra; 8, musical program; 8:15, American Academy of Political and Social Science, speakers, Lynn G. Adams, Superintendent Penn. State Police; Mabel Willebrandt, Asst. Attorney General of U. S.; Edwin M. Abbott, Phila. Dept. of Public Safety; 9:15, studio program; 11, Bellevue-Stratford dance orchestra.

Tier, duets; 10:30, Arrowhead Inn dance orchestra.

WGCP, New York, N. Y. (252m-1190ko), 3 p. m., Miami
Ramblers; 3:30, Andy Razof; 3:45-4, program; 4:15.

Joe Turkel, tenor; 2:30, Ramopo Ramblers; 5, William Goble, tenor; 8:30, Strickland's orchestra; 9,

ukulele; 9:20, J. Lee, songs; 9:40, Jama Yama Boys;
10, Della Riordan, female baritone; 10:15, program;
10:30, Strickland's orchestra.

WGHB, Clearwater, Fla. (266m-1130kc), 6:30-7:30 p. m.,

dinner music; 8:30-9:30, David Gootenberg, violinist,

Marton Hoffman, planist; 11:45-1 a. m., Radio Ramb
lers midnight frolic.

WGY, Schenectady, N. Y. (379.5m-790kc), 6:30 p. m.,

dinner program; 8:15, program, celebrating Fourth

Anniversary of WGY.

dinner program; S.15, program, celebrating Fourth Anniversary of WGY. WHAR, Atlanite City, N. J. (275m-1090ke), 2 p. m., Seaside hotel trio; 7:30, lecture period; 8, Seaside hotel trio.

WIP, Philadelphia, Pa. (508.2m-590kc), 6:45 a. m., setting-up exercises; 7, setting-up exercises; 10, menu talk, Mrs. Anna B. Scott; 10:30, reducing exercises; 1 p. m., organ rectal; 3, Dal Ruch and his Arcadians; 6:05, Benjamin Franklin concert orchestra; 7, Uncle Wip; Ernest McCorkle, cornetists; 8, sports corner, Dr. Francois D'Eliscu; 10:05, Benjamin Franklin hotel El Patio orchestra; 11:05, organ rectal.
WJAX, Jacksonville, Fla. (336.9m-890kc), 3:30 p. m., Hemming Park band concert, Vessella's band, Oreste Vessella, conductor; 7:30, music memory contest; 8-10, popular program.
WJR, Pontiac, Mich. (516.9m-530kc), 7 p. m., Jean Goldkette's symphony orchestra; 11:30, "The Merry Old Cinier' and his "Jewet Radio Jesters."
WJZ, New York, N. Y. (545.3m-660kc), 11 a. m., Philmonic children's concert, Ernest Schilling, conduc-

tor; 7, U. S. navy night; 9:15, N. Y. public library concert. Lenox string quartet. WLIT, Philadelphia, Pa. (394.5m-760kc), 12:02 p. m., daily almanac; Arcadia cafe concert orchestra; Stanley theater organ recitat; 2, Rose Tree Cafe orchestra; 4:30, dance orchestra; 7:30, Ben Franklin concert orchestra;

4:30, dance orchestra; 7:30, Ben Franklin Concert orchestra; WMAK, Buffalo, N. Y. (266m-1130ke), 6:15-7:15 p. m., dinner music; Hotel Lafayette trio; 7:30-8:30, musical program; 8:30-9, musical program, Wolff's Furniture House; 9-9:30, musical program, Beaver Products company; 9:30-10:30, musical program, Sunrise Point Development company.

pany; 9:30-10:30, musicai program, sumise i one so-velopment company. Fla. (384.4m-780ke), 7-9 p. m., WMBF, Miami Beach, Fla. (384.4m-780ke), 7-9 p. m., Fleetwood Radio orchestra; 10-1 a. m., Gene Fosdick and his orchestra; Fleetwood Radio orchestra. WMCA, New York City, N. Y. (340.7m-880kc), 6 p. m.,



Tune in at 4:30 p. m. Central time Sunday afternoon for WBBM. Fawn Gray, a well-known dancer and entertainer, is the charming personality above, who makes this particular hour of the week attractive to listeners.

High Lights of the Week

TEVER to be seen is the fate of the "Ghosts of the Air" called the Phantoms at KPRC. But these disembodied spirits can play real jazz and may be heard Saturday evening as the clock nears twelve. Promptly at midnight a big Pow-Wow takes place at KOIL with Sitting on

the Bull, conducting.
The two Kent artists this Sunday, are Lea Luboschutz, violinist, and Benno Moiseiwitsch, Russian pianist. Two Baltimore artists of note will entertain at WBAL this same eve-ning, Pasquale Tallerico, pianist, and Margaret Rabold, former Metropolitan opera soprano.

Monday is Washington's Birthday. A special patriotic Radio pageant has been arranged by the Fort Crailo Post been arranged by the Fort Crailo Post of the American Legion at WHAZ. The community program at WSAI, Cincinnati, has as the guest artist this week, Jeanette Vreeland, who sang recently over the WEAF chain.

The famous violinist and concertmaster of the Chicago symphony or-

chestra, Jacques Gordon, will play his famous "Clara Schumann Strad" over Station WGN, Tuesday. Another kind of fiddling may be heard at the fiddlers' contest this same evening at WGY. Old-time fiddling has become popular again and almost every section has its old-time fiddlin' cham-pion. Tuesday is also an auspicious day for KFNF. This station is now two years old and plans to run a twenty-six hour program.

A birthday party is a real birthday party when gifts are exchanged. CNRO will celebrate its anniversary Wednesday, with a special program and gifts to fans tuning in. WGR refuses to sign off until morning. This special frolic will last from 1 to

4:30 a. m.

Bulwer Lytton's powerful drama,
"Richelieu," will be broadcast by the
KGO players, Thursday night. Sixteen players will face the microphone. The American Croation glee club and the Tamburitza orchestra are the in-

teresting Thursday features at KDKA.
An oriental program will please the ladies Friday afternoon at WFI. Fairy tales of old Japan, and Chinese and Japanese music will make this program appealing. In the evening the opera "Faust" may be enjoyed at WEAR or the collegiate program by the Vanderbilt university at WSM.

Olcott Vail and his Hotel McAlpin string ensemble; 6:39. Woodmansten Inn orchestra; 7, Jack Denny's orchestra; 8, current events; 9, Tracy Pearl musical program; 10:39, Norman Pearce, readings; 11, Ernie Golden and his Hotel McAlpin orchestra.
WNAC, Boston, Mass. (200.2m-1070ko), 6 nm. The Smillers, Clyde McArdle, conductor; 6:39, Shepard colonial dinner dance, Billy Lossez, director; 8, program; 9, varied program, atlists from De Vry entertainment service; 10, Copley-Plaza orchestra, W. Edward Boyle, director; popular selections, Jack Fay, Rose Goldberg, accompanist.
WNYC, New York, N. Y. (526m-570ko), 7 p. m., song rectial; 7:35, The Serille trio; 8, Margaret Zeidler-Stiefel; 8:45, piano recital; 9, Paul Haeussler, Composer-planist with assisting artists; 10:10, Travel Talk, board of education lecture service.
WOO, Philadelphia, Pa. (508.2m-590ko), 11 a. m., organ recital; 12:02 p. m., Golden's crystal tea room orchestra; 4:45, organ recital; 7:30, A. Candelori's concert orchestra.
WOR, Newark, N. J. (405.2m-740ko), 2:30 p. m., Zit's WOR, Newark, N. J. (405.2m-740ko), 2:30 p. m., Zit's WOR, Newark, N. J. (405.2m-740ko), 2:30 p. m., Zit's WOR, Newark, N. J. (405.2m-740ko), 2:30 p. m., Zit's WOR, Newark, N. J. (405.2m-740ko), 2:30 p. m., Zit's WOR, Newark, N. J. (405.2m-740ko), 2:30 p. m., Zit's

tra; 4:45, organ recital; 7:30, A. Candelori's concert orchestra.

WOR, Newark, N. J. (405.2m-740kc), 2:30 p. m., Zit's Central Park Casino tea music; 3:15, Triangle club, Princeton university; 6:15, Bill Wathey of the Telegram staff in sports; 6:30, Jacques Jacobs' Hotel Shelton ensemble; 7:30, Van's Collegians; 8, Phill Cook, the musical chef; 8:15, Mischa Goodman, violinist; 8:45, Westall Gordan, tenor-cellist; 9:15, LaForge-Berumen, musicale; 10, Serenaders' Plectrum quintet; 10:30, Serenaders' Plectrum quintet; WPG, Atlantic City, N. J. (299.8m-1000kc), 1:30 p. m. Hotel Morton luncheon music; 6:45, Arthur Scott Brook, organist; 7, Hotel Ambassador dinner music; 8, darcing lesson; 8:15, dance music of all countries; 9, Hotel Traymore concert orchestra; 10, Nick Nichols' dance orchestra; 11, dance orchestra; 11, dance orchestra; 12, Marco orchestra; 14, dance orchestra; 15, m., Hamilton hotel orchestra, Danlel Chawlow, director; 7, concert, U. S. navy band, Lleutenant Charles Benter, leader; 9:15, concert, WJZ; 10:30, Crandall's Saturday Nighters.

hotel orchestra, Daniel Chawlow, director; 7, concert, U. S. navy band, Lieutenant Charles Benter, leader; 9:15, concert, WJZ; 10:30, Crandall's Saturday Nighters.

WREO, Lansing, Mich. (285.5m-1050kc), 6-7 p. m., Speed-Wagon screnaders; Gold Standard ensemble; 10-12. Speed-Wagon screnaders (268m-1120kc), 10:30 a. m., musical selections; 12:05-2 p. m., noonday luncheon music, WTAG orchestra, Will Hardy, director; 3-5, Tea Dansant music, WTAG orchestra; 5:15, "The Twinkle Twinkle Story Teller."

WTAM, Cleveland, Ohio (389.4m-760kc), 12:30-1:30 6-7, Carl Rupp and his Hotel Hollenden orchestra; 8-9, Hollenden hour; 9-12, Ev Jones and his gang. "Skinny and his Gangt", 6:50, Hotel Bond trio; 8, Sunday school period, Prof. A. J. W. Myers; 8:30, Walter M. Cole and assisting artists; 9:30, Arcadia laddes quartet; 10:30, dance music, Emil Heimberger's Hotel Bond orchestra.

Wyl, Detroit, Mich. (352.7m-850kc), 9:30 a. m., "Tonight's Dinner"; 12:05 p. m., Jules Klein's Hotel Statler orchestra; 3, Detroit News orchestra.

Central Time Stations

CKY, Winnipeg, Can. (384.4m-780kc), 9 p. m., concert, J. A. Banfield Limited, Royal Alexandra hotel. KFAB, Lincoin, Nebr. (340.7m-850kc), 5:30-6:30 p. m., dimer concert; 8:30-9:30, Schmoller and Mueller musicalet; 12-2 a. m., orchestra.

KFEQ, Oak, Nebr. (267.7m-1120kc), 2-3 p. m., Oak talent; 8:30-10, Hazel Olson.

KfKX, Hastings, Nebr. (288.5m-1040kc), 5:30 p. m., dinner concert relay, KDKA; 9-2 a. m., program, Hotel Clarke studio: vocal and instrumental classical music; sacred devotional period; special and unique musical features; popular music by several orchestras.

KFNF, Shenandoah, lowa (263m-1140kc), 7 p. m., Scotch Clarke studio: vocal and instrumental classical music; sacred devotional period; special and unique musical features; popular music by several orchestras.

KFNF, Shenandoah, lowa (263m-1140kc), 7 p. m., scotch concert, E. S. Dodds, director; 11, old-time fiddling. KFRU, Columbia, Mo. (499.7m-6900kc), 4:30-5:30 p. m., amusement review, Romaine Fielding; dramatic

Namil, Clay Center, Nebr. (229m-1310kc), 1:30 p. m., old Trusty special afternoon program; 8:30, brass band and solos.

KMOX, St. Louis, Mo. (280.2m-1070kc), 12:30 p. m., organ recital, Arthur L. Utt; 3, string ensemble music with soloists; 4, string ensemble music with soloists; 6, organ recital, Arthur L. Utt; 7, Little symphony, Pavid Bittner, Jr., conductor; the schoolmaster; Ada Stewart, soloist; 8, Little symphony; 'Colonel 6121'', Oscar B. Franz quartet; 9, Little symphony; Clay Ballew, Negro spirituals.

KOIL, Council Buffs, lowa (278m-1080kc), 5 p. m., Randall's Royal Fontenelle orchestra; 5:30, McCrory's music period, Clee Kearse, conductor; 6:30, Randall's Royal Fontenelle orchestra; 1:30, program, Gene Stiring; I1, Hugo Heyn and his Happy Hollow club orchestra; 12 midnight, Randall's Royal Fontenelle orchestra; 12 midnight, Randall's Royal Fontenelle orchestra; Fontenelle pow-wow.

KPRG, Houston, Tex. (296.9m-1010kc), 12 noon, Jack Willrich's orchestra; Virginia Willrich, plano-accordionist; J. B. Zeller, novelty trap drummer; 7:30 p. m., Universal Bible class, Rev. Claude L. Jones; 8:30, Frank Tilton, boy planist; II, The Phantoms, "ghosts of the air."

KSD, St. Louis, Mo. (545.1m-550kc), 7 p. m., Grand

Frank Tilton, boy planist; 11, The Phantoms, "ghosts of the air."

KSD, St. Louis, Mo. (545.1m-550ke), 7 p. m., Grand Central theater; 3:30, 5t. Louis symphony orchestra. KTHS, Hot Springs National Park, Ark. (374.8m-800kc), 9-9:30 p. m., Eastman hotel stringed quartet; 9:30-9:35, the Phantom Voice; 9:35-10:15, froilc, Meyer Davis' dance orchestra; Clyde Foley and Toni Cochard, comedy singers; 10:15-10:455, Mrs. Natalie Arnoux, violinist; Elizabeth Bowe, pianist; 10:45-11:15, Honolulu froilc, Big Four Hawaiian orchestra; Mr. Blake, steel guitarist.

KWWG, Brownsville, Tex. (278m-1080kc), 6 p. m., The Sunshine Girl.

Intu frolic, Big Four Hawaiian orchestra; Mr. Blake, steel guitarist.

KWWG, Brownsville, Tex. (278m-1080kc), 6 p. m., The Sunshine Girl.

KYW. Chicago, Ill. (535.4m-560kc), 6:30-7 a. m., exercises; 7:30, family worship; 1 p. m., concert, Commonwealth Edison company; 2, luncheon concert, Commonwealth Edison company; 2, luncheon concert, Conspress hotel, Joska DeBabary and his orchestra; Coon-Sanders; 4, afternon frolic; 6-7, dinner music, KDKA; 7:05, bedtime story, "Uncle Bob"; 7:30, home-lovers' hour; 8:30, Congress classic; 11:30, Congress carnival; 1 a. m., Insomnia club, Coon-Sanders.

WAMD, Minneapolis, Minn. (244m-1230kc), 12:01 p. m., trio, George Sawyer, Maurine Heft, pianist; Henry Evanson, tenor; 6:15, dinner concert, George Osborn and his orchestra; Elizabeth McKeever, soprano; Dr. Gordon Sandon, accompanist; 7:10, popular musical program, Harmony Twins, Bob Melcher, Fred Roble; Ruht Hokens, contralto; Dwite Churchill, baritone; Willard Efaw, pianist; 11, Sky Rocket frollc.

WBBM, Chicago, Ill. (226m-1330kc), 4-6 p. m., Harry and Sandy; Valentino inn orchestra; Johnny Black, Russell Meyers; Jack Pennewell and Freddy Palmiter; 3-9:30, musical comedy, "The Four Seasons"; 9:30-11, Sandy and Harry; Moulin Rouge orchestra; William E. Anderson, steel guitar; Sy Berg; Fred Jacobson; 11-2 a. m., Sunset quartet; WBBM harmony four; George Thurn, uke and kazoo; Two Jays; Charlie Garland; Spencer, Lavergne and Shayne, xylophone; Joe Buck, uke and sons; Lew Russell; Romo Vincent; Moulin Rouge orchestra; Vivian Sheffer, contralto; Claire Matthews; Floyd Falch; Ariston trio.

WCAL, Northfield, Minn. (336.9m-890kc), 8:30 p. m., music faculty.

WCGO, Minneapolis-St. Paul, Minn. (416.4m-720kc), 12:30 p. m., noon concert, Emmet Long's Golden Pheasant orchestra; 2:30, afternoon concert; 6:15, dinner concert, Emmet Long's Golden Pheasant orchestra; S:15, musical program; 10:05, dance program, Emmet Long's Golden Pheasant orchestra; S:15, musical program; 10:05, dance program, Emmet Long's Golden Pheasant orchestra.

LUBOSHUTZ, MOISEIWITSCH AT WEAF

Saturday, February 20

WDAF, Kansas City, Mo. (365.6m-820kc), 6-7 p. m., Pantages theater organ; the Trianon ensemble; 11:15-1 a. m., Ted Weem's Victor Recording orchestra; Billy Adair's Kansas City club orchestra; Eddle Kuhn's Kansas City athletic club orchestra; Eddle Kuhn's Kansas City athletic club orchestra; Eddle Reberger, 7-8, Oriole orchestra; Howard Neumiller, planist; 9, Oriole orchestra; Howard Neumiller, planist; 9, Oriole orchestra; 19:45, James Murray, tenor; Maric Kelly, reader; 11-12, Oriole orchestra; Wayne Myers, Frank Greif; 1-2 a. m., Maric Kelly, reader; Kay Ronayne, songs.

reader; Kay Ronayne, songs.

WENR, Chicago, Ill. (266m-1130ke), 6-7 p. m., dinner concert, Rauland-Lyrie trio; instrumental and vocal numbers; 8-10, popular program, All-American Pioneers; G. W. Voss, bases; James Beammont, banjoist; 12-2 a. m., nidnight froites, All-American Pioneers; Frank Westphal; Art Bilquist; Mary Beiber; Rita McFawn; Hal Laige, saxophone solos.

WFAA, Dallas, Tex. (475.9m-630ke), 12:30-1 p. m., Jeff J. Sandel, planist; 3:30-4, Tom Fowler, violinist; 4:30-5, J. H. Seay, singer, with ukulee; 6:30-7:30, Baker hotel orchestra, dinner music; 8:30-9:30, program, Woodmen of the World, R. H. McDill, director.

WGES, Oak Park, Ill. (250m-1200ke), 5-7 p. m., paritone.

gram, Woodmen of the World, R. H. McDill, director.

WEES, Oak Park, III. (250m-1200kc), 5-7 p. m., baritone, basso, pipe organ solos; 8-9, orchestra, organ, contralto; 11-1 a. m., organ, comedian, tenor, features.

WGN, Chicago, III. (302.8m-990kc), 10-10:15 a. m., good health period; 10:15-10:45, entertainment for shut-ins; 11-11:30, morning organ concert, Chicago theater, Dean Fossler; 12:01-12:30 p. m., noon hour entertainment for children; 12:40-2:30, kuncheon concert music; 2:30-3, Lyon and Healy artist recital; 3:25, Port o' Missing Men; 3:30-4:15, tea time music; 3:30-5:57, Skeezix time; 6:30-6:45, dinner concert music; 6:45-7, old-time favorite songs; 8-10, musical program; 10-10:10, "Sam 'n' Henry." Radic comic strip; 10:10-10:15, old-time favorite songs; 10:15-



Two internationally known artists will entertain during the Atwater Kent hour, Sunday, at 8:15 p. m. Eastern time on the WEAF chain. Lea Luboshutz, left, is a violinist of note. Benno Moiseiwitsch, above, is a young Russian pianist, who shows unusual skill.

program, Broadway Presbyterian church; 11-12, Le-Claire hotel orchestra.

WO1, Ames, la. (270m-1110ke), 12:30 p. m., college chimes; 2:30, high school finals wrestling tournament; 3, swimming meet, Washington university vs. Ames. WOK, Chicago. III. (217.3m-1380ke), 4:30-7 p. m., Capitol theater organ; Howard Will, tenor; 10-1, Tearney's town club orchestra; Carl Lord Grove orchestra; Carl Lott deaver program; program.

WOQ, Kansas City, Mo. (278m-1080ke), 8-9 p. m., musical program; 10-11, musical healing service.

WORD, Batavia, III. (275m-1080ke), 7 p. m., Webster hotel concert tric and concert program; 9, Capt. Royall N. Allen's "Little Journey No. 7"; Webster hotel concert tric and solo artists.

WOJ, Chicago, III. (447.5m-670ke), 3-4 p. m., koffee klatsch; 7-3, Rainbo Gardens orchestra; Prof. Ascan W. Kither, baritone; Anne Keim, mezzo-soprano; 10-3, Rainbo Skylarks; Jerry Sullivan; Rose Vanderbosch, Soprano; Hal Lansing; Everett George Opte, reader; Clarence Theders, tenor; Joe Wanner, character songs; Oxford girls; Rita McFawn, Mary Bieber; George Thurn, kazoo.

WSA1, Cincinnati, Ohio (325.9m-920ke), 7:30 p. m.

11. dance music; Correll and Gosden, Freda Leonard and Jewell Barnett, songs.

WHAS, Louisville, Ky. (399.8m-750kc), 1-2 p. m., Benson trio; 3-3:30, Mrs. Myrtle Fulks Zahn, Jr., organster, 1-5, concert, Susie Elvira Williams, director; Music Box; Martha Pope Robinson, reader; 7:30-9, Town club, Ellen Bachus, director, Music Box; Martha Pope Robinson, reader; 7:30-9, Town club, Ellen Bachus, director.

WIBO, Chicago, III. (226m-1330kc), 2-4 p. m., program for shut-ins; Ted Fiorito, pianist; Dan Russo, violinist; Marie Tully, soprano; Wayne Meyers, reader; Pearl Holzman, pianist; Lenore Friedman, soprano; 6-8, dinner concert; Walter Prestor's open request night; WIBO string trio; Elsie Orr, soprano; Ruth Ford, contralio; Mr. Leonard, baritone.

WIAZ, Chicago, III. (322.4m-930kc), 9-2 a. m., Spike Hamilton's and Al Katz' opera club.

WIJD, Mooseheart, III. (370.2m-810kc), 12-1 p. m., Palmer house symphonic players; Homer house trio; 2-3, Howard L. Peterson, organist; 4-5, Palmer house quintet; 6-7, Palmer house symphonic players; Howard L. Peterson, organist; Palmer House Victorians; 10-11, Garod studio; Palmer House Victorians; 12-1, Garod studio; Palmer House Victorians; Jack Nelson.

WKAF, Milwaukee, Wis. (261m-1150kc), 10-11 p. m., Trixie Ann Troy and her Royal Hawalians; Hi Cole-

Oxford girls; Rita McFawn, Mary Bieber; George Thurn, kazoo.

WSAI. Cincinnati, Ohio (325.9m-920kc), 7:30 p. m., children's stories, Mrs. Ethel Knapp Behrman; 7:50, chime concert, Robert Badgley; 8:15. Bievele Playing Card sextet; 12 midnight, Freda Sanker's orchestra.

WSB, Atlanta, Ga. (428.8m-700kc), 8 p. m., Atlanta Atwater Kent hour; 10:45, Hired Help skylark.

WSM, Nashville, Tenn. (282.8m-1060kc), 6:30 p. m., concert, Francis Craig's orchestra; 7, bedtime story interlude; 8, burn dance program; features.

Mountain Time Stations

KFWA, Ogden, Utah (261m-1150kc), 4-5 p. m., organ recital; 5-6, Ogden Radio dealers' program; 9-10:30, music, Paramount theater; 10:30-12 midnight, dance music, Olie Reeves and his orchestra.

KFXF, Colorado Springs, Colo. (250m-1200kc), 8:30-11 p. m., Wilhelm Schmidt, director; Cleora Wood Schmidt, soloist; Mary Schnitzius, planist; Cecil Rodgers, tenor.

KOA, Denver, Colo. (322.4m-930kc), 12:15 p. m., Rialto Jack Nelson.

WKAF, Milwaukee, Wis. (26im-1150ke), 10-11 p. m.,

Trixie Ann Troy and her Royal Hawaiians; Hi Cole-

Trixie Ann Troy and her Royal Hawalians; Hi Coleman's dance orchestra.

WKRC, Cincinnati, Ohio (422.3m-710kc), 10 p. m., Marion McKay and his orchestra; Jack Tilson; 11. Eugene Perazzo, violinist; 11:15. Marion McKay and his orchestra; 11:45. request piano program.

WLIB, Chicago, III. (302.6m-990kc), 7-8 p. m., musical program; 11-1 a. m., dance music; Correll and Gosden, Freda Leonard and Jewell Barnett, songs.

WLS, Chicago, III. (344.6m-370ke), 12-12:25 p. m., Doris Wittich, pianist; 7. Ford and Glenn, lullaby time; 7:30, national barn dance, George Goforths Goldband; WLS barn dance trio; Ruth Etting; Ford and Glenn; 11. WLS twin wheeze, Ford and Glenn and Ralph Emerson.

Glenn; 11, WLS twin wheeze, Ford and Glenn and Raiph Emerson.

WMAQ, Chicago, III. (447.5m-670kc), 5:15 p. m., Topsy-Turvy time; 6, collegiate glee club; 8, Frederick Daw and Russell Pratt; 9, Chicago theater revue.

WMBB, Chicago, III. (250m-1200kc), 7-8 p. m., Trianon duo, Vello Cook, contralto; Beatrice Story, violinist; Edwin House, baritone; Preston Graves, pianist; semi-classical miscellaneous program; 9-11, Trianon orchestra, Dell Lampe; Woodlawn theater orchestra, Walter Kipps; "Maggie Murphy's Home" presentation; Fannie Fuerst, reader; Jack Warner, character songs; Dolligner and Lyerla, guitar duo; Bob Bennett, popular program.

WMC, Memphis, Tenn. (499.7m-600kc), 8:30 p. m., Memphis plectrum orchestra, and soloists; 7, after dinner hour musical program; 9, classical; 10:30, Frank Hodek and his Nightingale orchestra; 11, Arthur Hays' organ jubilee.

WOC, Davenport, Iowa (483.6m-620kc), 5:45-6 p. m., chimes concert; 6:30-6:50, sandman; 9-10, musical

theater musicale; 9, Harmony Peerless orchestra; 10:30, Scheuerman's Colorado orchestra.

Reacific Time Stations

KFI, Los Angeles, Calif. (467m-642ke), 5:30-6 p. m., Jose Arias and his Mexican entertainers; 6, Nightly doings; 6:15, KFI's Seeing California; 6:30, vest pocket program; 6:45, Raditordral period; 7-8, Norman Kobler and his dance orchestra; 8-9, All-American string quartet; 9-10, varied program; 1-11, Packard Radio club, featuring popular song hits; 11-3 a. m., midnight frolic, Don Meany, master of ceremonies.

KFOA, Seattle, Wash. (454.3m-660kc), 9:30-11 p. m., Jackie Souders' club.

KFON, Long Beach, Calif. (232.4m-1290kc), 6-6:30 p. m., Brayton's theater organ; 6:30-7, amusement information; 7-8, Burt Pedersen's orchestra; 8-9, Press-Telegram studio; 9-11, KFON artists frolic.

KFWB, Hollywood, Calif. (252m-1190kc), 8-9 p. m., Warner Brothers syncopators; Eunice Wynn, soprano; Ray Kellogg and Bill Hatch, jazz twins; Ashley Sisters; 9-11, program, Reeve-Gartzmann, Inc., presenting the Oakland Six dance orchestra; Charlie Wellman, Leno. tenor. KGO. Oakland, Calif. (361.2m-830kc), 7:15-7:30 a. m., health training exercises, Hugh Barrett Dobbs, Wil-

gers, tenor. KOA, Denver, Colo. (322.4m-930kc), 12:15 p. m., Rialto theater musicale; 9, Harmony Peerless orchestra; 10:30, Scheuerman's Colorado orchestra.

liam H. Hancock, accompanist; 7:45, Pep class; 8:15-8:30, exercises; 8:45, songs, William H. Hancock; 11:30-1 p. m., Sherman Clay and company luncheon concert; 4-5:30, concert orchestra, Hotel St. Francis, Vinton La Ferrera, conductor; 8:10, "Oilwette," comic opera, Edmond Audran; Reginald Travers, Harry Brown Wood, directors; 10-12, dance music, Girvin-Deuel's California Collegians.

KGW, Portland, Ore. (491.5m-610kc), 12:30-1:30 p. m., concert; 6-7, dinner concert; 9-12, dance music; intermission piano solos, Curt Kremer.

KHJ, Los Angeles, Calif. (405.2m-740kc), 6:30-7:30 p. m., history story, Prof. Hertzog; Henrietta Poland, Dolly Wright, Donald Cooper and Uncle John; 8-10, program, Motor Transit company; announcement of the Treasure Hunt.

KJR, Seattle, Wash. (384.4m-780kc), 1:30-3 p. m., daily matinee program; 8:30-10, studio program.

KMTR, Hollywood, Calif. (238m-1260kc), 6-7 p. m., Starr Piano company studio; 8-10, KMTR concert orchestra, Loien Powell, director; Mmc. Leontine do Ahna, contrato.

KNX, Hollywood, Calif. (336.9m-890kc), 5-5:30 p. m., Sunny Jim's talk; 5:30-6, Leighton's Arcade cafeteria orchestra; 6:30-7, Atwater Kent concert orchestra; 7:15, church announcements; 7:30-8, popular musicale; 8-10, KNX feature program; 10-11, Ambassador hotel dance orchestra; 11-2 a. m., Filmland Frolickers.

KPO, San Francisco, Calif. (428.3m-700kc) 7, 7:30, 8 a. m., daily dozen exercises; 12, scripture reading; 1-2, Rudy Seiger's Fairmont hotel orchestra; 2:30-3:30, Read Givens, tenor; Carlton Peters, pianist; esstaurant orchestra; 8-12, Falzee hotel concert orchestra; 6:35-7:30, Willemar Lind and the States restaurant orchestra; 8-12, Falzee hotel concert orchestra; 6:35-7:30, Usrus Trobbe's Palace hotel concert orchestra; 6:35-7:30, Lyrus Trobbe's Palace hotel concert orchestra; 6:36-7:30, Rode Givens, tenor; Carlton Peters, pianist; 6:35-7:30, Lyrus Trobbe's Palace hotel concert orchestra; 6:35-7:30, Lyrus Trobbe's Palace hotel concert orchestra; 6:35-7:30, Lyrus Trobbe's Palace hotel concert orchestra;

Sunday, February 21

Headliners Today

Eastern Central Mountain Pacific 3:30 p. m. 2:30 p. m. 1:30 p. m. 12:30 p. m. WTIC (475.9m-630kc) New Haven symphony orchestra.

9 HS (374.8m-800kc), Classic hour, 11:30 10:30 9:30 KFI (467m-642kc) Classic hour. 8:30

Sunday, silent night for: CFAC, CHIC, CKNC, CNRA, CNRC, CNRE, CNRM, CNRO, CNRR, CNRT, CNRY, CNRW, KFAU, KFKX, KFKU, KFMG, KFOA, KFVE, KFWA, KFXF, KLX, KMA, KMTR, KOAC, KOB, KOWW, KSAC, KSO, KWSC, PWX, WABG, WAHG, WCAD, WCX, WDAF, WEAO, WEBJ, WEBY, WFI, WGES, WGHB, WGST, WHAD, WHAS, WHAZ, WJAZ, WJJD, WKAF, WKAQ, WKAR, WMAQ, WMAZ, WMC, WNYC, WOI, WRC, WRVA, WSB, WTAM, WTIC.

Eastern Time Stations

KDKA, Pittsburgh, Pa. (309.1m-970ke), 11 a. m., church service; 4 p. m., Dr. Charles Heinroth, organist;

4:45. Shadyside Presbyterian church; 6:30, dinner concert; 7:15, chimes, Calvary Episcopal church; 7:45, church service.
PWX. Havana, Cuba (400m-750ke), 8 p. m., Cuban military band; 9:15, Cuban Military band; 9:16, Cuban Military band; 9:15, Cuban Military band; 9:16, Cuban Military band;

Sing, Watchtower brass guartet.

WBZ, Springfield, Mass. (333.Im-900kc), 10:45 a. m., Church of the Unity; 7 p. m., Copley Plaza orchestra; Raymond Simonds; 8, "Palestine's New Message." Maurice Samuel.

WCAP, Washington, D. C. (468.5m-640kc), 11 a. m., Petworth Methodist church service, Rev. Edward Hayes, pastor; 4, Bethlehem chapel service; 6:20-7:20, chamber musicale, vesper string ensemble; 7:20, musisical program, Capitol theater, Major Edward Bowes, director; 9:15, Atwater Kent hour, WEAF, WCAU, Philadelphia, Pa. (277.6m-1080kc), 5 p. m., recital; 5:15, undenominational church services; 6:45, Clarence Seaman and his Hotel Pennsylvania orchestra; 7:45, Cathay Tea Garden concert orchestra; 8:30, Bomitteller Light Opera company; 9, Potash and Perlmutter. mutter.

WCX, Detroit, Mich. (516.9m-580ke), 7:15 p.
tral Methodist Episcopal church service,

mutter. Mark Opera company; 9, Potash and Perlmutter.

WCX, Detroit, Mich. (516.9m-580ke), 7:15 p. m., Central Methodist Episcopal church service, Dr. Lynn Harold Hough, pastor; Guy C. Filkins, organist.

WEAF, New York, N. Y. (491.5m-610ko), 2-3 p. m., Sunday Radio service, auspices of the Greater New York Federation of Churches, Rev. Herbert F. Laflamme, field secretary, presiding; address by Rev. Arthur F. Mabon, pastor Hamilton Grange Reformed church, New York city; music, Lotta Madden, soprano; Middred Bryars, contralto; Albert E. Miller, tenor; Arthur Billings Hunt, baritone, and George Shackley, pianists; R. Huntington Woodman, composer, at the organ; 3-4, Young People's Conference, under the auspices of the Greater New York Federation of Churches direct from the Marble Collegiate church, New York city; address, Dr. Daniel A. Polling; 4-5:30, men's conference in the Bedford Braneh Y. M. C. A., Brooklyn, WEAF, WEEI, WAAF, WCEI, WCAP, WCAE, WSAI, address, Dr. S. Parkes Cadman; 7:20-9:15, musical program, Major Edward Bowes and the "Capitol Family," WEAF, WEEI, WCAP, WJAR, WTAG, WUJ, WCAE; 9:15-10:15, "Atwater Kent Radio Hour," Leo Lubschutz, violinist, and Benno Mossi-Wisel, Wigh, WGAP, WGAE, WSAI, WWJ, WOC, WEAR, WGAF, WGA

Arch Street Methodist Episcopal church; 4:30 p. m., talk, Dr. William J. Hutchins, president Beren college, WGBS, New York, N. Y. (315.6m-9308c), 3:30 p. m., Crystal Palace; 9:30, Moscow Art Musical studio party.
WGCP, New York, N. Y. (252m-1190kc), 2:45 p. m., dance orchestra; 3:30, Edgar Duffy, bartione; 3:45, Isabelle Henderson, soprano; 4, Leslie McLeod, tenor; 4:15, dance orchestra.
WGR, Buffalo, N. Y. (319m-940kc), 10:45 a. m., Westminster Presbyterian church service; 7:45 p. m., Central Presbyterian church service; 9:15, jointly with WEAF, Atwater Kent program.
WGY, Schenectady, N. Y. (379.5m-790kc), 10:45 a. m., WFBL; 5, Dr. Frank Stll Rogers, organist; T. Roy Keefer, violinist; 3:15, musicale.
WHAR, Atlantic City, N. J. (275m-1990kc), 10:45 a. m., morning services, Chelsea Baptist church; 9: With the Classies.'
WIP, Philadelphia, Pa. (508.2m-590kc), 10:45 a. m., sacred recital, Seaside hotel trio; 2:45, sermon; 7:50, Chelsea Baptist church; 9: With the Classies.'
WIP, Philadelphia, Pa. (508.2m-590kc), 10:45 a. m., services, Holy Trinity church; 4, "Personality and Vocation," relicious talk by Edward Amherst Ott.
WIAX, Jacksonville, Fla (336.9m-890kc), 11 a. m. and 7:30 p. m., churchestra; 6:30, Benjamin Franklin organ recital; 7, Benjamin Franklin hotel concert orchestra; 6:30, Benjamin Franklin organ recital; 7, Benjamin Franklin hotel concert orchestra; 6:30, Senjamin Franklin organ recital; 7, Benjamin Franklin hotel concert orchestra; 6:30, Senjamin Franklin organ recital; 7, Benjamin Franklin hotel concert orchestra; 6:30, Senjamin Franklin organ recital; 7, Benjamin Franklin hotel concert orchestra; 6:30, Senjamin Franklin organ recital; 7, Benjamin Franklin hotel concert orchestra; 6:30, Senjamin Franklin organ recital; 7:20, D. m., Churchill, bastor.

WMAK, Buffalo, N. Y. (288.3m-1040kc), 8 p. m., Gene Fosdick and his orchestra; Fleetwood Radio orchestra; 6:30, Senjamin Franklin in Religion," All Souls church, Unitarian; 5:30, Wood-mansten inn orchestra; 6:40, Sen, Sen, Sen, Sen, Sen, Sen, Sen,

Haven Symphony orchestra.

WWJ. Detroit, Mich. (352.7m-850kc), 11 a. m., Temple
Beth El services; 2 p. m., Detroit News orchestra;
4, organ recital; 7:20, Capitol theater family; 9:15,
operatic stars.

Central Time Stations
CKY, Winnipeg, Can. (384.4m-780kc), 7 p. m., services,
Fort Rouge United church; 9, studio program.
KFDM, Beaumont, Tex. (315.6m-950kc), 11 a. m. and
7:30 p. m., First Episcopal church services.
KFNF, Shenandach, Iowa (263m-1140kc), 10:45 a. m.,
morning worship, First M. E. church; 2:30 p. m.,
Golden Rule song service; 3, Men's Gospel team;
6:30, services, Golden Rule circle; 7:30, Christian
church services.
KMMJ, Clay Center, Nebr. (229m-1310kc), 2:30 p. m.,
sacred concert; 8:45, religious services. Central Time Stations

MIDNIGHT POW-WOW FROM KOIL

Sunday, February 21

KOIL, Council Bluffs, Iowa (278m-1080kc), 11 a. m., First Congregational church service, Rev. J. R. Perkins, pastor; 1 p. m., dinner program, Randall's Royal Fontenelle ornehestra; 7, Sleep Time Girl, Bernice Clizbe, conductor; 17, College club orchestra; Jamieson Oil duct, John Jamieson, John Halpien, Jr., Othelia Kinder, accompanist.

Kinder, accompanist.

KPRC, Houston, Tex. (296.9m-1010kc), 10:45 a. m.,
service, First Christian church, Rev. Claude L. Jones,
pastor; 7:30 p. m., services, South Main Baptist
church, Rev. M. M. Wolf, pastor; 9:30 p. m., Silverstring players, plectral orchestra, Mrs. Clarence L.
Brock, director; D. W. Morris, soloist.

KSD, St. Louis, Mo. (545.1m-550ke), 6:15 p. m., St. Louis Post-Dispatch concert orchestra; 8:15, Atwater Kent Radio hour.

Kent Radio hour.

KTHS, Hot Springs National Park, Ark. (374.8m-800kc),
11 a. m.-12:15 p. m., services, First Presbyterian
church; 9-10, classic hour, famous folk songs, New
Arlington hotel grand ensemble, Lon Chassy, director;
10-11:30, Arkansas Traveler Limited, KTHS Radio
Special train frolic; Benny Ford's orchestra.

KYW, Chicago, 111. (353.4m-560kc), 11 a. m., Central
church service; 2:30 p. m., Sunday afternoon; 7-9
p. m., Chicago Sunday Evening club; Grinnell colleg
giee club; "How Jesus Made a Universal Religion,"
Dr. Cleland B. McAfee; address, Dr. Richard Roberts;
9, classical concert.

9, classical concert. KWWG, Brownsville, Tex. (278m-1080kc), 2:30 p. m. church service.

KWWG. Brownsville, Tex. (279m-1980kc), 2:30 p. m., church service.

WBAP, Fort Worth, Tex. (475.9m-630kc), 11 a. m., First Presbyterian church; 12:30 p. m., kiddies' hour; 5-6, Old Gray Mare band; 9:30-11, Chief Gonzales' Texas Hotel Royals.

WBBM. Chieago, III. (226m-1330kc), 12:30-2 p. m., classical program; WIIIiam P. Zimmer, tenor: Harold Morava, lyric tenor; Kantor A. Kritiz; Sandy Meek and Harry Sosnik; Edna Wheeler Ballard, harpist; Little Caruso and the Moulin Rouge operatic quartet; 4-6, Larry Shay; Lew Russell; Spencer, Lavergne and Shayne, xylophone; Pete Kules; Tip tric; Ziegler sisters; Two Jays; Harold Anderson; Charlie Garland; George Thurn, uke and kazoc; Shaynes melody monarchs; Rudy Winter; Floyd Falch; 8-10, Maurice; Silverman; Moulin Rouge orchestra; Vivian Sheffer contralto; Pauline Stiffer Atlass, violinist; Rudy Winter; Floyd Falch; 12-2 a. m., Nutty club; Moulir, Rouge orchestra.

Winter; Floyd Falch; 12-2 a. m., Nutty club; Moulir Rouge orchestra.

WGAL. Northfield, Minn. (336.9m-890ke), 3:30 a. m., Norwegian church service; 9:15 p. m., sacred program, Dr. Martin Hegland.

WGBD, Zion, Ill. (344.6m-870ke), 8 p. m., Zion orchestra, male quartet; P. B. Newcomer, cornetist; Fred Faassen, organist; Mrs. J. D. Thomas, soprano; Mrs. Mayfield, Mr. Reid; Mrs. G. R. Sparrow, contralto; M. P. Barton, tenor; Mrs. L. J. Hire, pianist.

WGCO, Minneapolis-St. Paul, Minn. (416.4m-720ko), 10:50 a. m., Hennepin Avenue M. E. church services, Lucius H. Bugbee, pastor; 3 p. m., Bible study, Lutheran Bible institute, Rev. Samuel M. Miller, dean; 4:10, House of Hope Presbyterian church, Rev. H. C. Swearingen, pastor; 6:20, Second Church of Christ, Scientist; 8:15, Atwater Kent program, WEAF; Lea Luboshutz, violinist; Benno Moiseiwitsch, Russian pianist.

planist.
WDAF, Kansas City, Mo. (356.6m-820ke), 3-4 p. m.,
program, Harry Holmes, tenor; 4-4:45, Sabbath Ves-

WEBH, Chicago, III. (370.2m-810ke), 10:45 a. m., Seventh Church of Christ, Scientist; 7-8 p. m., artists

enth Church of Christ, Scientist; 7-5 p. in., actasts program.

WFAA, Dallas, Tex. (475.9m-630ke), 2:30-4 p. m., music; 6-7, Bible class, Dr. William M. Anderson, pastor, First Presbyterian church; Bible study and Gospel song; 7:30-8:30, First Methodist Episcopal church service, Dr. Carl C. Gregory, pastor; Mrs. Robert H. Morton, soloist and director; 8:30-9:30, Earle Jackson and singers, Gaston Avenue Baptist church; 11-12, Ligon Smith and his orchestra.

WGES, Oak Park, III. (250m-1200ke), 10:15-12 noon, morning services, Dr. James L. Gardiner, Austin M. E. church, organ, choir; 5-7:40 p. m., Moody Bible school program, pipe organ; 11-12 midnight, organ, mezzo-soprano.

school program, pipe organ; 11-12 midnight, organ, mezzo-soprano.

WGN. Chicago, III. (302.8m-990kc), 10:45-11:45 a. m., Uncle Walt; 11:45-12:45 p. m., Sunday noon musical hour, Chicago theater; 12:45-1:45. Chicago theater complete performance; 2-3. Edwin Stanley Seder's organ concert; Lyon and Healy studio; 3-4, concert, Chicago Philharmonic orchestra; 4-5, musical program; 5-5:15, old-time favorite songs; 7-7:30, musical program; 7:30-7:45, old-time favorite songs; 7-7:30, musical program; 8:15-9:15, Atwater Kent concert; 9:15-10, musical program; 8:15-9:15, 6:56-m-820ke), 9:45-10:45 a. m., services, Linwood Boulevard Christian church; 1:15-12:30 p. m., services, Independence Boulevard Christian church; 8-9:15, services, Assembly church; 11:15-12 a. m., Linwood theater feature; Morrill Moorel organist.

organist.
WHO, Des Moines, Iowa (526m-570kc), 11 a.m., B'Nai
Yeshurum congregation, Rabbi Eugene Mannheimer;
7:30-8:30 p. m., Bankers Life trio; Myrtle Williams,

wiscowski by the survey of the survey survey of the survey

G. Mitchell; Eugene Wallenius, tenor; Marie Tully, soprano.

WIAZ, Chicago, III. (322.4m-930ke), 7-9 p. m., musical program, Spanish Garden studio.

WIJD, Mooseheart, III. (370.2m-810ke), 7:45 a. m., Catholic services; 9:40-10:30, Protestant services; 3-4 p. m., Mooseheart Sunday concert.

WKAF, Milwaukee, Wis. (261m-1150ke), 4-6 p. m., Jean Hammond and her Tune Tinkers; Alvin Brooks, pianist; Otto Semper, tenor.

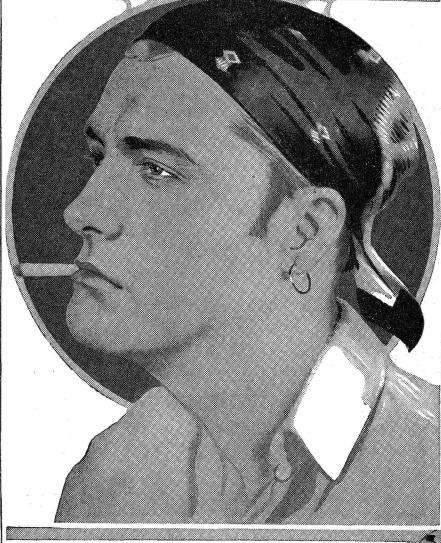
WKRC, Cincinnati. Ohio (422.3m-710ke), 6:45 p. m., Walnut Hills Christian church; 10, classical program; 11:30, Marion McKay and his orchestra.

WLIB, Chicago, III. (302.5m-990ke), 5-7 p. m., musical program.

WLS. Chicago, III. (344.6m-870ke), 6 p. m., prelude;

WLIB, Chicago, III. (342.5m-99kc), 5-7 p. m., musical program. III. (344.5m-870kc), 6 p. m., prelude; WLS, Chicago. III. (344.5m-870kc), 6 p. m., prelude; 7-7:55, WLS little brown church in the vale; little brown church choir; Ralph Emerson, organist. 3. m., school, editorial staff of Sunday School Publications, Methodist Book Concern; 11, morning worship, Seventh Presbyterian church, Jesse Halsey, minister; 2 p. m., "The Eternal Tragedy," Passion play, broadcast from St. John's Catholic church; 7:30, services, First Presbyterian church, Dr. Frederick McMillan, pastor; 8:30, concert, H. & S. Pogue company, orchestra directed by Walter Esberger.
WMBB, Chieago, III. (250m-1200kc), 3-5 p. m., Trianon orchestra; Dell Lampe; Woodlawn theater orchestra; Walter Kipps; Lucille O'Hara, soprano; Tommie Hughes, baritone; Bob Duffy, singer and planist; Ed Miller, tenor; 7:40-9, Fifth Church of Christ, Scientist, services; 9-11, Trianon orchestra; Dell Lampe; Woodlawn theater orchestra; Walter Kipps; Billie Allen Hoff, singer and planist; Ed Graham, Baritone; Bill Lightfeldt, tenor; Bob Bennett, pianist.
WMC. Memuhis. Tenn. (499.7m-600kc), 11 a. m., serv-

plantste, plantste, plantste, plantste, plantste, plantste, plantste, who, Memphis, Tenn. (499.7m-600ke), 11 a. m., services, Second Presbyterian church. (394.5m-760ke), 11 a. m., First Presbyterian church service, Rev. Dr. P. D. Hill, pastor; 7:45 p. m., Central Christian church service.



The dare-devil gentleman, above, is Arthur H. Faust. He directs the WAMD players of Minneapolis. This is the way he looked in a recent play about pirates. To the right is a member of the Venetian trio, Generieve Mead. This trio which comes from Dayton, Ohio, has become popular at WLW, Cincinnati.

WOAW, Omaha, Neb. (526m-570kc), 9 a. m., chapseservice, Rev. R. R. Brown; 1:30, matinee program; 6, Bible study, Mrs. Carl R. Gray; 9, chapel service, WOC, Davenport, lowa (483.6m-620kc), 1-2 p. m., Palmer Little symphony; Paul J. Vipperman, tenor; 2:30-3:45, Second Christian conference; 6:30-7, Methodist Episcopal church; 8:15-9:15, Atwater Kent program; 9:45-11:45, Palmer Little symphony.
WOK, Chicago, III. (217.3m-1380kc), 1-2 a. m., Tierney's Town club orchestra; Carl Lorraine's Pershing Palace orchestra; Husk O'Hare's Cocoanut Grave orchestra; Carl Lorraine's Pershing Palace orchestra; Husk O'Hare's Cocoanut Grave orchestra; Carl Lorraine's Pershing Palace orchestra; Husk O'Hare's Cocoanut Grave orchestra; Carl Lorraine's Pershing Palace orchestra; Husk O'Hare's Cocoanut Grave orchestra; Capitol theater musical program; program orchestra; Capitol theater wood, Kansas City, Mo. (278m-1080ke), 11-12:30 p. m., services; 7-7-35, services.

service.

WSM, Nashville, Tenn. (282.8m-1060ke), 10:30 a. m.,
First Presbyterian church.

Mountain Time Stations

KFXF, Colorado Springs, Colo. (250m-1200kc), 11-1
p. m., First Presbyterian church; 7:30-9, First Meth-

p. m., First Presbyterian character, odist church.
KOA, Denver, Colo. (322.4m-930kc), 10:55 a. m., First
Unitarian society; 3 p. m., First Unitarian society,
Mrs. Faye Roswell, organist; 7:40, First Unitarian

society.

Pacific Time Stations

KFI, Los Angeles, Calif. (467m-642kc), 4-5 p. m., vesper services; 6:30, nightly doings; 7-7:30, program, A. H. Grobe & company, Syncrophase string ensemble; 7:30-8:30, Acollan residence pipe organ, Dan L. McFarland, organist; 8:30-9, classic four program arranged by Virginia Flohri; 9-10, Mabelle Hein and her Blue Bird band; 10-11, Packard Six dance orchestra.

her Blue Bird band; 10-11, Packard Six dance orchestra.

KFON, Long Beach, Calif. (232-4m-1290ko), 6-6:30
p. m. Brayton's theater organ; 6:30-7, anutsement
bulletin; 7:45-9, service, First Church of Christ,
Scientist; 9-9:30, program, Hird Typewriter company.

KFWB, Hollywood, Calif. (252m-1190ko), 9-11 p.m.

Albert Keglovich, violin; Wilda Bernard, soprano;
Ashley Sisters; Drake Warner, baritone; Jack Kurtz,
whistling planist.

KGO, Oakland, Calif. (361.2m-830ko), 11 a. m., services, Calvary Presbyterian church, Ezra Van Nuys,
minister; 3:30 p. m., KGO Little symphony orchestra, Carl Rhodehamel, conductor; Arthur Garbett, interpretative writer; Annabelle Jones Rose, contraito;
7:30, services, Calvary Presbyterian church, Ezra Van
Nuys, minister.

KGW, Portland, Ore. (491.5m-610kc), 10:25-12 noon,
services, First Presbyterian church; 6-7 p. m.,

"Aladdin Hour of Familiar Melodies"; 7-7:30, Atwater Kent artists series, Alan McQuhae, tenor; 7:30-

9, evening services, First Congregational church; 9-10, concert, Chevrolet Symphony orchestra.

KHJ, Los Angeles, Galif. (405.2m-740kc), 4-5 p. m., Masomic service; 7-7-130, service, Methodist Episcopal church, Arthur Blakely, organist; 8-10, program, Los Angeles Motor Car Deaters association.

KNX, Hollywood, Calif. (336.9m-890kc), 6:30-7 p. m., Unitarian church service; 8-9, First Presbyterian Church of Hollywood; 9-10:30, program, Beverly Hills Nurseries, Calmon Luboviski, master violinist. KPO, San Francisco, Calif. (428.3m-700kc), 9:45-10:45 a. m., undenominational and non-sectarian church service; bartione solos, Ira Morgan; Uda Waldrop, organist; 5-6, organ recital, Marshall W. Gischman; 6-6:30, Waldemar Lind and the States restaurant orchestra; 6:35-8:35, Palace hotel concert orchestra, Cyrus Trobbe, director; 8:35-10, Rudy Seiger's Fairmon hotel orchestra.

cyrus troppe, director; 8:35-10, Rudy Seiger's Fairmont hotel orchestra.
(7AB, Oakland, Calif. (240m-1250kc), 9:45-10:45 a. m., Bible lecture, Prof. E. G. Linsley; 11-12:30, church services; 7:45-9:15, services; 9:30-11, after-service concert.

Monday, February 22

Headliners Today

Eastern Central Mountain Pacific 7:35 p. m. 6:35 p. m. 5:35 p. m. 4:35 p. m. WNYC (526m-570kc) Chopin Anniversary program. 8:15 7:15 6:15 5:15 KDKA (309.1m-970kc), Washington's Birthday program.

8:30 7:30 6:30 5:30
WEZ (333.1m-900kc), Special Patriotic program.
9 8 7
WCCO (416.4m-720kc) University of Minnesota pro-

WCCO (416.4m-720ke) University of Minnesota program.

WDAF (365.6m-820ke), Ivanhoe band.

WGST (270m-1110ke), Yelloy Jacket Four.

WHAZ (379.5m-790ke) Sudents' Night, glee club.

WSB (428.3m-700ke) Agnes Scott glee club.

WTAG (268m-1120ke) Robin Hood hour of music.

10 9 8 8 7

WEAF (491.5m-610ke) "Cavalleria Rusticanna," grand opera.

WGR (319m-940ke) Pilgrim quartet.

10:30 9:30 8:30 7:30

WLIT (394.5m-760ke), Fay's Yaudeville feature.

WTIC (275.9m-630ke) Studio program.

10:45 8:45 8:45

KTHS (374.8m-800ke) Novelty program.

11 10 9 8

WSAI (325.9m-920ke), Community program.

11:30 10:30 9:30 8:30

KOA (322.4m-930ke), Washington program.

Monday, silent night for: CNRA, CNRC, CNRE, CNRM, CNRO, CNRR, CNRT, CNRV, CNRW, KFAU, KFDM, KFEQ, KFMQ, KFMX, KFWA, KHJ, KLDS, KYW, WBBM, WBCN, WCAD, WCBD, WEAD, WEBH, WEBJ, WEEW, WENR, WGBS, WGES, WGN, WHAS, WHIT, WIBO, WIP, WJAZ, WJJD, WKAQ, WLIB, WLS, WMAQ, WMBB, WOAI, WOC, WOK, WORD, WQJ, WRC, WREO.

Eastern Time Stations

CKNC, Toronto, Can. (356.9m.840ke), 8-10 p. m., Little symphony orchestra; Aeolian quartet; Hazel Hall-VanderVoort, soprano.

KDKA, Pittsburgh, Pa. (309.fm.970ke), 6:30 p. m., dinner concert; 8:15, Washington birthday program; 9, Rudd Light Opera hour.

PWX, Havana, Cuba (400m.750ke), 8:30-9:15 p. m., Westinghouse concert; 9:25, musical program; 10:20, concert.

WABQ, Haverford, Pa. (261m-1150ke), 11 p. m., Ardmore theater, Horace Hustler, organist; William Stew art, planist.
WAFD, Port Huron, Mich. (275m-1090ke), 12-2 a. m.,

WAFD, Port Huron, Mich. (275m-1090ke), 12-2 a. m., program, dance orchestra. WAHG, Richmond Hill. N. Y. (315.6m-950ke), 12-03 p. m., Grebe matinee trio; 7:39, Walter A. Iooss, novelty pianist; 7:59, Boy Scouts' program; S. Synchrophase hour with Marie Nicholson; 8:15, aria from the Messiah—group of Scotch ballads and Care Selve; 9, Royal Whitmyer, tenor; 9:15 William Edelson, basso; 9:45, Royal Whitmyer, tenor; 10:03, Yama Yama boys; 10:20, Joe Zimmerman's orchestra; 12 midnight, Club Castle dance orchestra and Ukulele Bob MacDonald. WBAL Baltimore, Md. (246m-1220kc), 6-6:30 p. m., children's program; 6:30-7:30, WBAL dinner orchestra, Robert Jula, conductor; 7:30-8, organ program; Frederick D. Weaver; 8-9, musical program; Ruby Heritage, soprano; Edward Jendrek, tenor; Sol Sax, pianist; 9:10-10, musical program; Eugenfa Arnold, contralto; Herbert Sokolove, violinist; Melvin Moritz, baritone.

planist; 9:10-10, musical program, potential contraints; Hervin Moritz, baritone.

WBBR, New York, N. Y. (273m-1100kc), 8 p. m., Syrian music, Prof. Toufic Moubaid and Elizabeth Awad; 8:30, "The Harp of God," Bible instruction; 8:45, Syrian music.

WBZ, Springfield, Mass. (333.1m-900kc), 6:30 p. m. KDKA Little symphony orchestra; 7:30, Rene Dagenais, organist; 8. Capitol theater orchestra; 8:30, partiotic program, Washington's birthday; 9, Aleppo Drum Corps; 9:30, WBZ Radio movie club.

WCAP, Washington, D. C. (468.5m-640kc), 6:45-7:45, a. m., Tower health exercises; 7:11 p. m. music; U. S. Marine band; guest soloist; Flora MoGill Keefer, mezzo-contraito; A and P. Gypsies, WEAR; opera, "La Sonnambula," WEAF, Cesare Sodero, director.

WCAU, Philadelphia, Pa. (277.6m-1080kc), 7:30 p. m., recital, N. Snellenburg and company; 8, Carolyn Thomas, soprano; Ella Jacquette Kratz, pianist; 8:30, Malis' Merry Minstreis; 9:30, Carl Smith and his Monday Nighters; 10, Arline R. Smith, soprano; Kathryn Figthorne, contraito, Sarah Snyder, pianist; 10:30, Parodians dance orchestra.



WCX, Detroit, Mich. (516.9m-580kc), 6-7 p. m., dinner program, Goldkette ensemble; 8-9, program. WEAF, New York, N. Y. (491.5m-610kc), 10:30-12 noon, the Sons of the Revolution, Washington birthday program, direct from Carnegie Hall; 4-4:45, William Scotti and his Club Florida orchestra; 5-6, Wilnem Lopez and his orchestra from the Ritz Carlton hotel; 6-7, dinner music, Hotel Waldorf-Astoria; 7-7:20, Columbia university lecture; 7:30-8, Lullaby Lady, 8:45-9, Tower health talk; 9-10, A. and P. Gypsfes; 10-11, grand opera, Cavalleria Rusticanna; 11-12 midnight, Ben Bernie and his Hotel Roosevelt orchestra. WEAG, Columbus, Ohio (293.9m-1020kc), 1:30 p. m., music.

MUSIC.
WEAR, Cleveland, Ohio (389.4m-770ke), 7 p. m., Allen WEAR, Cleveland, Ohio (389.4m-770kc), 7 p. m., Allen theater orchestra.

WEE1, Boston, Mass. (348.6m-860kc), 6:45 a. m., Tower health exercises; 2 p. m., Central Auto Tire company program; 5, Rainhow Ramblers orchestra; 6:45, Joe Rines and his Hunters' Cabin orchestra; 6:45, Big Brother club; 7:30, Warren Wardle, baritone; Miss Wardle, planist; 7:45, John Kirwan, mandolinist; 8, Black Iron Shiners; 8:45, health talk, WEAF; 9, A. and P. Gypsies, WEAF; 10, Scotty Holmes and his orchestra, Imperial Marimba band.

WFI, Philadelphia, Pa. (394.5m-760kc), 10:30 a. m., music; 10:40, Betty Crocker; 1 p. m., tea room ensemble; 3, patriotic concert; talk, "George Washington," Mabel Swint Ewer; Lester Druckenmiller, violinist; Loretta Kerfe, planist; Edna Moore, soprano; 6:30, Bellevue Stratford concert orchestra; 7, Bellevue Stratford dance orchestra.

WGOP, New York, N. Y. (252m-1190kc), 3 p. m., Eva

Stratford dance orchestra.

WGCP, New York, N. Y. (252m-1190kc), 3 p. m., Eva Rothenberg, planologue; 3:20, LeRoy Mortesanto, tenor; 3:45, program; 4:15-5, Uncle Robert's pals; 5:10, Pollack and Dorn; 8:30, Strickland's orchestra, 9, Madame Nathania, soprano; 9:15-9:45, program;

Madame Nathania, soprano; 9:15-9:45, program;
 Strickland's orchestra.
 WGHB, Clearwater, Fla. (266m-1130kc), 6:30-7:30
 p. m., dinner music; 8:30-9:30, Ross sisters, ukulelo accompaniment; 11:45-1 a. m., Radio Rambler midnight frolic.

MgHP, Detroit, Mich. (270m-1110kc), 6-7 p. m., dinner concert, Hotel Tuller; 7:30-7:50, children's evening chat; 8-10, Little symphony orchestra, Dirk Van Emmerik, conductor; T. Stanley Perry, tenor; 12-1 a. m., Gerald Marks and his orchestra.

WGR, Buffielo, N. Y. (319m-940kc), 2:30 p. m., WGR's afternon program; 6:30, "The South-Bound Shufflers"; 8, Danny Engel's popular program; 8:30, variety program by R. R. Hill; 9:30, Mary Louise Conover, recital; 10, Pilgrim Male quartet; 11, Vincent Lopez' Hotel Statler dance orchestra, Harold Gieser, director, John F. Gunderman, Jr., organist.

CELEBRATE WASHINGTON'S BIRTHDAY

POPULAR CONCERTS INDEX

Saturday, February 20 Eastern Central Mountain Pacific 7:30 p. m. 6:30 p. m. 5:30 p. m. 4:30 p. m. WFAA. WAMD, WLS. WBBM, WEAF, WENR, WGBS, WLS, WMAQ,

2 1 a. m. 12 m. 11 KNX, WBBM, WEBH, WENR, WQJ.

Sunday, February 21 Eastern Central Mountain Pacific p. m. 8 p. m. 7 p. m. 6 p. m. 9 p. m. WBBM. WBBM, WMBB. WMBB. WHIDD. 12 11 10 KNX, KTHS. 12 m. 12 m. 11 p. 1 KFWB, WBBM. 2 1 a. m. 12 m.

Monday, February 22

Fastern Central Mountain Pacific
T. p. m. 6 p. m. 5 p. m. 4 p. m.

WBBM, WFAA, WOAW.

TO THE PROPERTY OF

Tuesday, February 23

Eastern Central Mountain Pacific
7 p. m. 6 p. m. 5 p. m. 4 p. m.
WMCA, WOAW. WBBM, WEAR. 9 8 7 WBBM, WEAR, WBZ, WSB. 10 p. m. 9 p. m. 8 p. m. WBBM, WEBH, WMMB, WOAW.

12 m. KFWB, WQJ.

Wednesday, February 24

Thursday, February 25

8 Eastern Central Mountain Pacific
8 p. m. 7 p. m. 6 p. m. 5 p. m.

WCAE, WEAF, WJAR, WJC, WCC, WSAL
9 8 7 WBBM, WHAD.

9 8 8 7 6

WBBM, WHAD.

10 9 8 8 WEEI, WHAD, WHN, WMBB, WMC, WNYC, WOAW, WSOE.

11 10 9 8

KHJ, KMA, KYW, WBBM, WMBB, WOK, WQJ. KNX, WQJ.

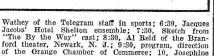
Friday, February 26

Eastern 7 p. m. 6 p. m. 5 p. m.

WGCP, WJR. WAMD, WBBM, WGR, WLS. WAND, WBBM, WGR, WDS.

10 B 9 KFAB, WBBH, WMC, WDAF, WHAD,
WMBB, WOAW, WSOE.

11 KFVE, KFWA, KHJ, KLX, KYW, WMBB,
WOK, WQJ.
12 m. 11
KFWB, KHJ, KNX, KOIL, WAMD, WEBH,
WMC, WOK, WQJ.
1 a. m. 12 m.
KFWB, KHJ, WDAF, WHT, WOK, WQJ.
2 NNX, WQJ.
1 a. m. 12 m.
KNX, WQJ. KNX. WQJ.



Wathey of the Telegram staff in sports; 6:30, Jacques Jacobs' Hotel Shelton ensemble; 7:30, Sketch from 'The By the Way'' cast; 8:30, Al Reid of the Branford theater, Newark, N. J.; 9:30, program, direction of the Orange Chamber of Commerce; 10, Josephine Evans quartet; 10:30, Josephine Evans quartet; 11, Hofbrau Haus orchestra.

WFG, Atlantic City, N. J. (299.8m-1000kc), 4:30 p. m., ica time music; 7, Hotel Morton dinner music; 8, children's hour; 8:45, Colonial program; 9, Hotel Anhaessador concert orchestra; 10, WPG, ladies' trio; 10:15, Galen Hall trio; 11, Silver Slipper supper club. WRVA, Richmond, Va. (256m-1170kc), 8:10 p. m., State Teachers' college glee club, patriotic program; 9, "True Virginia Lore," Dr. Douglas Freeman; 9:10, glee club; 9:30, Fork Union college jazz band and quartet, college sons; 11, "Carry Me Back to Old Virginny."

WTAG, Worcester, Mass. (268m-1120kc), 10:30 a. m., musical selections; 12:05-2 p. m., noon-day luncheon music, WTAG orchestra, Will Hardy, director; 7:15, Twilight Scouts; 7:45, Scout announcements; 9-10, Robin Hood hour of music, Arthur Crosbie, director, 10-11, grand opera, WEAF, Cesare Sodero, director, WTAM, Cleveland, Ohio (389.4m-780kc), 6-7 p. m., Guy Lombardo and his Royal Canadians; 8-11, Patrick Henry high school band, St. Ann's boys' choir; 11-12, Austin Wylie's Vocalion Recording orchestra; 12-1, Austin Wylie's Vocalion Recording orchestra; 12-1, Austin Wylie's Vocalion Recording orchestra; 12-1, Lucas and Latham serenaders; 9:30, Emil Heimberger's Hotel Bond orchestra; 10:30-12, Travelers symphonic ensemble, Lora Hickey, contralto.

WWJ. Detroit, Mich. (362.7m.850kc), 7:30-8 a. m., setting-up exercises; 9:30, "Tonight's dinner"; 12:05 p. m., Jules Klein's Hotel Statler orchestra; 3, Detroit News orchestra; 10:30-12, Travelers symphonic ensemble, Lora Hickey, contralto.

Central Time Stations

Central Time Stations
CKY, Winnipeg, Can. (384.4m-780ko), 8 p. m., University lecture; 9, studio program; 11, weekly revue, Metropolitan theater.
KFAB, Lincoln, Nebr. (340.7m-880kc), 5:30-6:30 p. m., R. S. Johnson, Charles Koontz; 8:30-10:30, old-time music, O. H. Sheffert; Ed Ellingson, original song-bird; Mike Kopac, king of the ivories; Cow Bell boys, Belshaw's orchestra.
KFEQ, Oak, Nebr. (267.7m-1120kc), 2-3 p. m., Rassmusen's orchestra.
KFKU, Lawrence, Kan. (275m-1040kc), 7:35 p. m., University string quartet; Anna Lois Voights, soprano.

prano.
KFKX, Hastings, Nebr. (288.3m-1040ke), 12:50 p. m.,
Dick Rutherford and the Ramblers orchestra; 5:30,
dinner concert relay, KDKA; 9, varied musical pro-

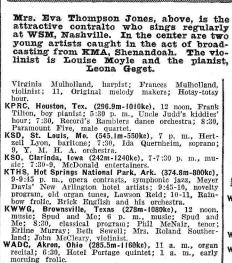
KFMQ. Fayetteville, Ark. (299.8m-1000kc), 8 p. m., A. W. Towne's orchestra.

KFNF, Shenandoah, Iowa (263m-1140kc), 7 p. m., concert, Henry Field Seed company.

KFRU, Columbia, Mo. (499.7m-600kc), 4:30-5:30 p. m., Concert, Columbia, Mo. (499.7m-600kc), 4:30-5:30 p. m., Concert, Columbia, Mo. (499.7m-600kc), 4:30-5:30 p. m., Columbia, Mo. (499.7m-600kc),

kFRU, Columbia, Mo. (499.7m-600kc), 4:30-5:30 p. m., Bella Vista Quadrangle orchestra; 6:15, dinner music, KMA, Shenandcah, Iowa (252m-1190kc), 11:30-12:30 p. m., rural program; music; 6-7, popular dinner hour program; 9-11, Farnham tric; How do you do Boys, Grady and Doc. KMM1, Clay Center, Nebr. (229m-1310kc), 1:30 p. m., Old Trusty special afternoon program; 8:30, Old Trusty orchestra.

KMOX, St. Louis, Mo. (280.2m-1070kc), 12:30 p. m., Arthur L. Utt, organist; 3, string ensemble music with soloists; 4, string ensemble music with soloists; 6, organ recital, Arthur L. Utt; 7, Little ymphony; David Bither, conductor; "Buster Brown"; soloist; 8, Little symphony; Tom Pickard, Scotch Songs; 9, Little symphony; Luciano Coriosi, Italian guitarist and tenor; Isaac Walton League; 10, Little symphony; "Mr. and Mrs. Kent"; soloists; 0, program; "The Candy Man"; 0, Ray Winn and his orchestra; 10, Candy Man"; 0, Ray Winn and his orchestra; 10,



Erline Murray; Beth Sewell; Mrs. Roland Southerland; John McCleary, violinist.

WADC, Akron, Ohio (285.5m-1160kc), 11 a. m., organ recital; 6:30, Hotel Portage quintet; 1 a. m., early morning frolic.

WAMD, Minneapolis, Minn. (244m-1220kc), 12:01 p. m., popular musical program; Coilla Dare, contralto; Bee Lowell, accompanist; Roy Nowak, banjoist; Jack Lemman, clarinetist; Whity Nightingale, uke soloist; 5:45, Boys' A. C.; 7:01, Garrick symphony orchestra, Heiseke, director; 7:20, classical program; 11, Sky Rocket frolic.

WBAP, Fort Worth, Tex. (475.9m-630kc), 12:05-12:30 p. m., Sunflower girl; 6-6:30, Texas Hotel Royals; 7:30-8:30, Northern Texas Traction company; 9:30-11, Ward's Trail Blazers; 11-12, Majestic theater.

WCAL, Northfield, Minn. (336.9m-890kc), 8:30 p. m., musical program.

WCCO, Minneapolis-St. Paul, Minn. (416.4m-720kc), 12 noon, concert, Donaldson's orchestra; 2:30 p. m. afternoon concert; 4, readers' club; 5:30, children's hour; 6:30, dinner concert, Gordon Cooke ensemble; Meta Ashwin Birnbach, soprano; Louise Lupien Jenkins, accompanist; 8, University of Minnecota program; 9, classical concert.

WDAF, Kansas City, Mo. (365.6m-820kc), 6-7 p. m., the Tell-Me-a-Story lady; the Trianon ensemble; 8-3:30, program, Ivanhoe band, Walter A. French, director; 11:45-1, Ted Weem's Recording orchestra.

WDOD, Chattanooga, Tenn. (256m-1170kc), 6:30-7 p. m., organ music, Tivoli theater; 7-8, Hotel Patten orchestra; 15:15, special features and program.

WGST, Atlanta, Ga. (270m-1110kc), 9-10 p. m., Georgia Tech Glee club orchestra; Yellow Jacket Four quartet. WHAS, Louisville, Ky. (399.8m-750kc), 1-2 p. m., Royal Peacock orchestra; 3-3:30, Mrs. Myrtie Fulks Zahn, Jr., organist; 4-5, Music Box concert.

WHO, Des Moines, lowa (526m-570kc), 7:30-9 p. m., simpson Conservatory of Music, Herbert A. Harvey; 11-12, L. Carlos Meler, organist.

WHO, Des Moines, lowa (526m-570kc), 7:30-9 p. m., novelty program, Clara Doyle.

WHO, Des Moines, Georgia Sirens.

WHO, Des Moines, Georgia Sirens.

WHO, Des Moines, Georgia

wMC, Memphis, Tenn. (499.7m-6000kc), 8:45, Cortese ensemble:
wNAD, Norman, Okla. (254m-1180kc), 7-8:30 p. m., Helen Balley, violinist; Ruth Ann Mitchell, pianist; Tessie Rudell, vocalist; Rossie Wampler, pianist; Ann Lee Hamilton, vocalist; Margaret Lee West, cellist; 10:30, Delta Pi serenaders.
wOAN, Lawrenceburg, Tenn. (282.3m-1060kc), 9-10, p. m., male quartet, orchestra; 11:30-1;30 a. m., special program.
wOAW, Omaha, Neb. (526m-570kc), 12:45 p. m., Randall's Royal Fontenelle orchestra; 6, entertainment; 6:20, popular songs; 6:50, Kandall's Royal Fontenelle Orchestra; 9, elassical.

dall's Royal Fontenelle orchestra; 6, entertainment; 6:20, popular songs; 6:50, Randall's Royal Fontenelle orchestra; 9, classical.

WOS, Jefferson City, Mo. (440.9m-580kc), 8 p. m., patiotic program, Christian callege.

WSAI, Cincinnati, Ohio (325.9m-920kc), 8 p. m., A. and P. Gypsies, WEAF; 9, grand opera, WEAF; Cesare Sodero, director; 10, community program, featuring Jeanette Vreeland, soprano; 12 midnight, Freda Sanker's orchestre.

Jeanette Vreeland, sopranc; 12 midnight, Freda Sanker's orchestra. WSB, Atlanta, Ga. (428.3m-700ke), 8 p. m., Agnes Scott Glee club; 10:45, Vick Myers' orchestra. WSM, Nashville, Tenn. (282.8m-1060ke), 6:30 p. m., Francis Craig's orchestra; 7, bedtime story; 8, Cum-berland Chapter, D. A. B.; 10, Vito Pellettieri and

hts orchestra.

WSMB, New Orleans, La. (319m-940kc), 9:30-11:30
p. m., Dixola novelty orchestra, St. Charles theater orchestra, Strand theater orchestra, Fuzzy Wuzzy Turine

Twins.

WSOE, Milwaukee, Wis. (246m-1220kc), 5:30 p. m., wilight hour; Aunt Happy children's stories; Fred Snyder, planist; "Candygram" entertainers; 9, "Candygram"; candies frolie, featuring, Frank Kuhl's Edgewater Beach orchestra; Erving Erving, "Candygram" baritone: Van Buren's Hawaitans; Lorraine Hug, planist; Venturi Callahan, harmonica.

WSUI, lowa City, lowa (483.6m-620ke), 12:30 p. m., plano solos, Esther Swisher; 7:30, College of the Air; 8:30, musical program.

8:30, musical program.

Mountain Time Stations

KFXF, Celorade Springs, Cole. (250m-1200ke), 8:3010:30 p. m., Colorado Springs Chamber of Commerce.

KOA, Denver, Cole. (322.4m-930ke), 12:45 p. m., Marjotie Nash, organist; 6:30, Brown Palace string or
chestra; 8:30, Scheuerman's Colorado orchestra; 8:45,
KOA orchestra; 9:30, Washington's Birthday, Daughters of American Revolution; "Recollections of George
Washington," Mrs. E. Thomas Boyd Regent; original
Revolutionary document, Mrs. James Rae Arneil; letter, Mrs. Winfield Scott Tarbell; KOA orchestra;
Everett E. Foster, baritone; Lucile B. Mathis, contralto; Mrs. Frank B. Mattin, soprano; addresses,
Judge Henry J. Hersey and Mrs. Gerald Livingston
Schuyler.

Pacific Time Stations

Pacific Time Stations

Judge Henry J. Hersey and Mrs. Gerald Livingston Schuyler.

Pacific Time Stations

KFI, Les Angeles, Calif. (467m-642kc), 5:30-6 p. m., Owen Fallon's Californian; 6, nightly doings; 6:15, Seeing California; 6:30, vest pocket program; 6:45, Radiotorial period; 7-8, Chinese Gardens dance orchestra; 8-9, Sereen artists string quartet; 9-10, program, Walter M. Murphy Motors company, broadcast simultaneously by KFI and KPO; 10-11, program, Meiklejohn Brothers, booking agency.

KFOA, Seattle, Wash. (454.3m-660kc), 7-8:15 p. m., Sherman Clay and company, 8:15-8:30, industrial news; 8:30-10, Times studio program.

KFOA, Seattle, Wash. (454.3m-660kc), 7-8:15 p. m., Sherman Clay and company; 8:15-8:30, industrial news; 8:30-10, Times studio program.

KFON, Long Beach, Calif. (232.4m-1290kc), 6-6:30 p. m., Brayton's theater organ: 6:30-7, amnsement bulletin; 7-8, Gerry Galbreith's Venetians; 8-9, Press-Telegram program; 9-11, Lake club orrehestra.

KFWB, Hollywood, Calif. (252.m-190kc), 5-6 p. m., Big Brother of KFWB; 7:30, program, Dr. Ralph Mitchell and the Associated Dentists, featuring Friendly Dentists orchestra; Dan Gridley, tenor; Esther White, blues singer; 8-9, Bill Hatch and his Oakmont Country club orchestra; Son Gridley, tenor; Esther White, blues singer; 8-9, Bill Hatch and his Oakmont Country club orchestra; Son Breneman, Daritone; Ashley Sisters, vocal duets; 10-11 p. m., Warner Brothers frolic, direction Charlie Wellman.

KGO, Oakland, Calif. (361.2m-830kc), 7:15-7:30 a. m., health training exercises, Hush Barrett Dobbs; 7:45, Pep class; 8:15-8:30, exercises; 11:30-1 p. m., Sherman Clay and company luncheon concert; 3-4, Wilda Wilson Church; Genevieve Sweetser, soprano; Elizabeth Thomas, mezzo-soprano; 5:30-6, Aunt Betty stories, Kiddies' Klub, Ruth Thompson; 6-6:55, Brokaw and his orchestra; 8, educational program, music, Arion trio.

Arion trio.

KGW. Portland, Ore. (491.5m-610ke), 7:15 a. m., health exercises; 12:30-1:30 p. m., concert; 6-7, dinner concert; 8-9, concert; 9-10, concert.

KMTR, Hollywood, Calif. (238m-1260kc), 7:15 p. m., Y. M. C. A. bour; 8-10, KMTR concert orchestra,

DANCING

Central Time

Central Time

Saturday, February 20:
8, Wir, February 20:
8, Wir, February 20:
8, Wir, Wnye, Wpg;
8:30, Wfas; 8:35, Wgy;
9, Webh, Weei, Wmbb,
Wnye, Wreo; 9:10, Kits,
Wir; 9:30, Kths, Wgbs,
Wor, Wre; 10, Kfve,
Kfwa, Koa, Kpo, Weaf,
Wgn, Wir, Wkre, Wmca,
Wnye, Wor, Woji, Wreo,
Wtam; 10:95, Weco;
10:30, Wamd; 10:45,
Wis; 11, Kfvg, Kfwa,
Kfwb, Kpo, Webh, Wfaa,
Wgbu, Who, Woe; 11:30,
Kfoa; 11:45, Wdaf; 12,
Kfwa, Kgo, Kgw, Knx,
Wgbu, Wjid.

Monday, February, 22:

Monday, February 22:
8, Wgcp; 9, Weel, Wgbu,
Wjar, Wor; 9:15, Wahg;
10, Kths, Wgbu, Wgcp,
Wgr, Wnyc, Wpg; 10:15,
Wor; 10:39, Kfoa, Wgcp,
Whn; 11, Kgw, Koil,
Wgbu, Wgcp, Wgr, Whn,
Who; 11:45, Wdaf; 12,
Knx, Kpo.

Knx, Kpo.

Tuesday, F bruary 23:
9, Webb., W lou, Wmbb;
9:30, Wean, Wgbs, Wgy,
Wip; 9:35, Wnyc; 10,
Kfve, Wbbm, Weaf,
Webh, Wgbu, Wgn, Win,
Wnea, Wnyc, Wng; 10:15,
Kfs; 10:30, Kfbs, Whn;
10:45, Wsb: 11, Kgw,
Koil, Wgbu, Whn; 11:30,
Kfoa; 11:45, Wdaf; 12,
Kgw, Kl; Knx, Kpo,
Wednesday, February

Wdaf; 1, Wdj.

Wednesday, February
24: 9, Wex, Webii,
Wgbu, Wgep, Whn, Who
Wmbi, Wmea, Wtie;
9:15, Wahg; 9:30, Wbap,
Who, Wor; 10, Kfve,
Wbap, Weaf, Wgbu, Wgep,
Vdj; 10:95, Weco;
10:30, Wbap, Whn; 11;
Koll, Kpo, Webh, Wgbu,
Wgep, Wgr, Whn; 11;
Kpo, Wjjd,
Thursday, February 25.

Thursday, February 25:
S. Wir: 9, Webh, Weei,
Wgbu, Whn, Wir,
Wmbb, Wsal, Wtag; 9:05,
Wbz, Whi; 9:30, Wgbs,
Wgy, Whn; 9:35, Wnyc;
10, Kths, Wbbm, Weaf,
Wgbi, Whn, Wmea,
Wgi; 10:30, Kths, Whn,
Webh, Wgbu, Whn, Woc;
11:45, Wdaf; 12, Kgo,
Khi, Knx, Kpo, Wjid.
Friday, February 26:
Wwi; 9, Wcx, Webh,
Weei, Wgbu, Wgcp,
Wmbb; 1:15, Wahg, 9:39,
Wcau Whn; 10, Kfve,
Kpo, bs, Wgbu, Wgcp,
Whn, 10, Kfve,
Kpo, hs, Wgcp, Whn;
11, Kf*b, Knx, Kpo, Thursday, February 25; Wjr; 9, Webh, Wei,

Monday, February 22

WGY, Scheneetady, N. Y. (379.5m-790kc), 6:30 p. m., Porter E. Potts' Hotel Van Curier orchestra; 7:45, Washington's birthday program, WGY orchestra. WHAR, Atlantic City, N. J. (275m-1090kc), 2 p. m.. Seaside hotel trio; 7:30, talk; 8, Seaside hotel trio, 11:30. orchestra.

WHAR, Atlantic City, N. J. (275m-1090kc), 2 p. m.. Seaside hotel trio; 7:30, talk; 8, Seaside hotel trio; 1:30, talk; 8, Seaside hotel trio; 1:30, talk; 8, Seaside hotel trio; 1:30, orchestra.

WHAZ, Troy, N. Y. (379.5m-790kc), 9 p. m., Rensselaer Polytechnic institute, glee club, Fritz Belermeister, conductor; 9:45, patriotic pageant; 10:45, Rensselaer Polytechnic institute students' symphony orchestra, A. Olin Niles, conductor; 11:45, campus serenaders, students' dance orchestra.

WHN, New York City, N. Y. (361.2m-830kc), 6 p. m., Littmann's dinner music; 7, Twin Oaks orchestra; 7:30, Joe Ward's Swanee entertainers; 8:05, Roseland dance orchestra; 8:35, Uncle Robert's chat; 8:40, Perry and Russell—the one-man-act; 11, Cotton club orchestra; 11:30, Silver Silipper orchestra; 12-12:30 a. m., Parody club orchestra.

WIP, Philadelphia, Pa. (508.2m-590kc), 6:45 a. m., setting-up exercises; 7, setting-up exercises; 10:30, annual Washington birthday celebration of University of Pennsylvania, Hon. Frank Kellogg, U. S. Secretary of State, principal speaker; 1 p. m., Gimbel tea room orchestra; 3, Leodor Liedmedt, violinist; James M. Clawson, baritone, Flora Ripka, accompanist; 6:05, Benjamin Franklin hotel concert orchestra; 7, Uncle Wip's bedtime stories; dancing lessons by Miler Conservatory of Dancing.

WIAX, Jacksonville, Fla. (336.9m-890kc), 3:30 p. m., Hemming Park band concert, Vessella's band, Oreste Vessella, conductor; 7:30, music memory contest; 8-9, popular program, orchestra, vocal, etc.; 9-10, classical program, vocal and instrumental.

WIAR, Lansing, Mich. (285.5m-1050kc), 7-7:15 p. m., bedtime stories; Salley theater organ recital: Areadis

bedtime stories; 7:15-8, farm school; 8-9, dance program.

W.I.T. Philadelphia, Pa. (394.5m-760kc), 12:02 p. m., daily almanae; Stanley theater organ recital; Arcadia cafe concert orchestra; 2, Arcadia cafe concert orchestra; talk, Rev. Arthur W. Spooner; 4:30, Alice Wightman, planlst; 5, educational talk; 7:30, Dream Daddy; 8. Short Agro Waves, Charles E. Shoffner; 8:15, retial; 9, Stanley hour of Music; 10, Arcadia cafe dance orchestra; 10:30, Fay's vaudeville features; 10:35, El Patio dance orchestra.

W.L.W., New York, N. Y. (288.3m-1040kc), 10:10 p. m., study club.

study club.

WMAK, Buffalo, N. Y. (266m-1130kc), 7:30-8:30 p. m.,

Murray Whiteman and his serenaders; 8:30-9, musical
program, New Olympic theater; 9-10, musical program,

Gowanda high school.

program, New Olympic theater; 9-10, musical program, Gowanda high school.

WMBF, Miami Beach, Fla. (384.4m-780kc), 7-9 p. m., Fleetwood Radio orchestra; 10-1 a. m., Gene Fosdick and his orchestra; Fleetwood Radio orchestra.

WMCA, New York City, N. Y. (340.7m-280kc), 11 a. m., Ida Bailey Allen, home-makers' hour; 12:30 p. m., Lucille Buhl, "Making a New Face"; 6, Olcott Vail and his Hotel McAlpin string ensemble; 6:30, Ernie Golden and his Hotel McAlpin orchestra; 7:30, Kurtz Karnival Kinss; 8, Terminal musical hour; 9, lecture on Christian Science by Mr. Paul Stark Sceley, C. S. B. of Fortland, Ore; 10:15, Woodmansten Innorchestra; 11:30, Jack Denny's orchestra; 11:30, Jack Denny's orchestra; 11:30, Jack Denny's orchestra; 11:30, Jack Denny's orchestra; 11:30, George Washington's address; 8:35, Washington program by the American Legion; 9, dinner, Police Lieutenant's Benevolent association direct from the Waldorf-Astoria hotel.

WOO, Philadelphia, Pa. (508.2m-590kc), 11 a. m., organ regital; 12:02 p. m., Golden's Crystaf tea room orchestra; 4:45, organ recital; 7:30, Rits Carlton orchestra; 8, Pop concert; 9, A. and P. Gypsies; 10, grand opera, WEAF Grand Opera company; 11, Sylvania dance orchestra.

wania dance orchestra.

WOR. Newark, N. J. (405.2m-740ke), 6:15 p. m. Bill

IDAY WITH SPECIAL RADIO PROGRAMS

mon, Degroit, Mich. (916.9m-580kc), 6-7 p. m., dinner program, Goldkette ensemble; 10-2 a. m., Red Apple club.

WEAF, New York, N. Y. (491.5m-610kc), 6:45, 7, 7:20 a. m., Tower health exercises to WEAF, WEEI, WCAP; 7:45-8, morning prayer services, Greater New York Federation of Churches; 11, John Quine, baritone; 11:10, "The Play of the Hour," auspices of the Lecture Bureau of the Board of Education; 11:25, John Quine, baritone; 11:35, motion picture forecast, Adele Woodard; 11:50, John Quine, baritone; 4 p. m., Lieut. Lawrence Mansfield Matt and his Phapsodists orchestra; 6 dinner music Rose room of the Hotel Waldorf-Astoria; 7, Anne Gregory, mezzo-contralto; 7:30, a half-hour with American composers—John Hyatt Brewer assisted by choir of Lafayette Avenne Presbyterian church; 8, Blue Ribbon male quartet, WEAF, WEEI, WFI, KSD, WCAE, WWI, WGR, 8:30, Gold Dust Twins, WEAF, WEEI, WFI, WCAE, WGR, WWI, WOO, WJAR, WCCO, WLIR, WEAR, KSD; 9, Eveready hour, to WEAF, WEEI, WFI, WCAE, WGR, WEAF, WEEI, WFI, WYJ, WGR, WCAE, WRAR, WSAI, KSD; 10, Moment musicale, WEAF, WEEI, WFI, WWJ, WGR, WCAE, WEAF, WEI, WFI, WWJ, WGR, WCAE, WWIAG, KSD, WEAR; 10:30, Vincent Lopez and his orchestra from Casa Lopez, WEAF, WEAF, WFI, WWJ, WGR, WCAE, WTAG, KSD, WEAR; 11-12 midnight, Ross Gorman and his Monte Carlo orchestra, New York City.

WEAO. Columbus, Ohio (293.9m-1020kc), 7 p. m., University chimes, Allen McManigal; 7:25, Peter Helpen

versity chimes, Allen McManigal; 7:25, Peter Helper story, Uncle Al; 7:35, Delta Tau Deltas fraternity. WEAR, Cleveland, Ohio (389,4m-770ke), 7 p. m., State theater vaudeville and music; 8, studio program, instrumental ensemble; 8:30, Gold Dust Twins, WEAF; 9, Eveready entertainers, WEAF; 10, Moment musicale, WEAF; 10:30, Vineent Lopez orchestra; 11, Wormack's singing syncopators.

WEBJ, New York, N. Y. (272,6m-1100ke), 7-7:30 p. m., Ritz ensemble; 7:45, Sal Angarola and Eddie Collins, banjo and uke duets; 8-9, R. R. talk, G. T. Geer; 8:15, Ruth Pachner, soprano, accompanied by Lillian Kroll; 8:30, Ballonnades ballroom orchestra.

WEEL, Boston, Mass. (348,6m-860ke), 6:45 a. m., health exercises; 2:45 p. m., Scotch songs, Nell Patterson; 3, Eugene's Singing orchestra; 5, Joe Herlihy's Collegians; 6:05, George Joy and Nell Cantor, popular songs; 6:45, Big Brother club; 7:30, Cecelia and Robert Gomberg, violinists, Mr. Joseph Rysman, accompanist; 8, Blue Ribbon quartet, WEAF; 8:30, Gold Dust Twins, WEAF; 9, Eveready hour, WEAF; 10, Moment musical; 10:230, Vincent Lopez and his orchestra.

WFI, Philadelphia, Pa. (394.5m-766ke). I. p. m. tee.

Moment musical; 10:50, 7 Meets
 Merstra.
 WFI, Philadelphia, Pa. (394.5m-760kc), 1 p. m., tea room ensemble; 3, Women's Symphony orchestra of Phila., J. W. F. Leman, director; Helen Rowley, president, and Mabel Swint Ewer, founder; prominent soloists; 6:30, Bellevue Stratfrod concert orchestra; 7. Bellevue Stratford dance orchestra; 8:80, Gold Dust



DANCING

Central Time Central Time

Saturday, February 20:
8, Wir, Wnye, Wpg;
8:30, Wfaa; 8:35, Wgy;
9, Webh, Wed, Wmbb,
Wnye, Wreo; 9:10, Kths,
Wip; 9:30, Kths, Wgbs,
Wor, Wre; 10, Kfve,
Kfwa, Koa, Kno, Weaf,
Wgn, Wir, Wkre, Wmca,
Wnye, Wor, Wdj, Wreo,
Wlam; 10:05, Wcco;
10:30, Wamd; 10:45,
Wis; 11, Kfpg, Kfwa,
Kfwb, Kpo, Webh, Wfaa,
Wgbu, Who, Woe; 11:30,
Kfwb, Kgo, Kgw, Knx,
Wgbu, Wild.

Monday February 22:

Monday, February 22: 8. Wgcp: 9, Weel, Wgbu, Wjar, Wor; 9:15. Wahg; 10. Kths: Wgbü, Wgcp, Wgr, Whye, Wpg; 10:15, Wor; 10:30, Kfoa, Wgcp, Whn; 11, Kgw, Koil, Wgbu, Wgcp, Wgr, Whn, Who; 11:45, Wdaf; 12, Knx, Kpo.

Knx, Kpo.

Tuesday, F ibruary 23:
9, Webr., W bu, Wmbb;
9:30, Wcau, Wgbs, Wgy,
Wip; 9:35, Wnye; 10,
Kfve, Wbb.m, Weaf,
Webh, Wgbu, Wgn, Whn,
Wmca, Wnye; Wg; 10:15,
Kths; 10:30, Kfbs, Wh;
10:45, Wsb: 11, Kgw,
Koil, Wgbu, Whn; 11:30,
Kfoa; 11:45, Wdaf; 12,
Kgw, Kpi, Knx, Kpo,
Wadasaday, Eshyuay

Wdaf; 1, Wdi.

Wednesday, February
24; 9, Wcx, Webii,
Wgbu, Wgep, Whn, Who,
Wmbb, Wmea, Wtic;
9:15, Wahg; 9:30, Wbap,
Who, Wor; 10, Kfve,
Wbap, Weaf, Wgbu, Wgep,
Wdi; 10:30, Ween;
10:30, Whap, Whn; 11,
Koil, Kpo, Webh, Wgbu,
Wgep, Wgr, Whn; 11:45,
Wdaf; 12, Kfwa; Knx,
Kpo, Wjid.

Thursday, February 25:

Kpo, Wjid.

Thursday, February 25:
S. Wjir; 9, Webh, Weei,
Wgbu, Whn, Wjir,
Wmbb, Wsal, Wtag; 9:30,
Wbx, Wlp; 9:30, Wgbs,
Wgy, Whn; 9:35, Wnye;
10. Kths, Wbbm, Weef,
Wgbu, Whn, Wnea, Wpg,
Wgi; 10:30, Kths, Whn,
Webh, Wgbu, Whn, Woc;
11:45, Wdaf; 12, Kgo,
Khj, Knx, Kpo, Wjid.
Friday, February 26:
Wwi; 9, Wcx, Webh,
Weei, Wgbu, Wgep,
Wmbb; 1:15, Wahg, 9:30,
Weau Whn; 10, Kfve,
Kpo, bs, Wgbu, Wgep,
Whn, 10, Kfve,
Kpo, 1:30, Wgep, Whn;
11, Kfv, b, Knx, Kpo.

Loren Powell, director; 10-11, Starr Piano company

studio.

KNX, Hollywood, Calif. (336.9m-890ke), 5-5:30 p. m.,
Sunny Jim's talk; 5:30-6, Leighton's Arcade cafeteria
orchestra; 6, Town Tatiler; 6:15, travel talk, W. F.
Alder; 6:30-7, Atwater Kent concert orchestra; 7-7:30,
Mutual Motors Mirth contest; 7:30-8, feature program;
8-9, program, L. W. Stockwell company; 9-10, Glassmobile Minstrels; 10-11, Goodrich Silvertown Cord
dance orchestra; Lilyan May Challenger, contra-contriato; 11-12 midnight, Ray West's Ambassador hotel
dance orchestra.

trlato; 11-12 midnight, Ray West's Ambassador hotel dance orchestra.

KOAC, Cervallis, Ore. (280.2m-1070kc), 6:50 p. m., musical selections; farm topics.

KPO, San Francisco, Calif. (428.3m-700kc), 7, 7:30, 8 a. m., daily dozen; 12 noon, scripture reading: 1-2 p. m., Rudy Seiger's Fairmont hotel orchestra; 2:30-3:30, patriotic program; 5:15-6:15, children's hour stories; 6:49-7, Waldemar Lind and the States restaurant orchestra; 7-7:30, Rudy Seiger's Fairmont hotel orchestra; 8-9, organ rectial, Uda Waldrop; 9-10, program, for Walter M. Murphy Motor company; 10-11, Jack Coakley's Cabirlans.

KTAB, Oakland, Calif. (240m-1250kc), 9-9:30 a. m., prayer service, Rev. E. L. Spaulding; 12-1, concert; 8-10, program, Western States Life Insurance company.

pany. KWSC, Pullman, Wash. (348.6m-880ke), 7:30-9 p. m., special program, Dengal's Bohemians, dance orches-tra; Freda Peterson, vocalist; Margaret Baker, pianist.

Tuesday, February 23

Headliners Today

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

KYW (535.4m-560kc) Wendell Hall, Red-Headed

Music Maker.
8 7 6 5

KFNF (263m-1140kc) Birthday program.

WGY (379.5m-790kc) Finals of Old Fiddlers' contest.

Hest. 7:30 6:30 5:30

WEAF (491.5m-610ke), WEEI (348.6m-860ke), WFI (394.5m-760ke), WCAE (461.3m-650ke), WGR (319m940ke), WWJ (352.7m-850ke), WCO (508.2m-590ke), WJAR (305.9m-980ke), WCO (416.4m-720ke), WLIB (302.8m-990ke), WEAR (389.4m-776ke), KSD (545.1m-550ke), Marianna club, popular program.

9

8

7

68

7

68

WEI

Tuesday, silent night for: CFCA, CHIC, CKNC, CKY, CNRG, GNRE, GNRM, GNRG, GNRW, CNRT, KFKX,

CENTRAL TIME

Farmer Dinner Concerts Daily Except Sunday

KFNF, 12:15-1:35 p. m. KMA, 12:30-1:30 p. m. KSO, 12:30-1:30 p. m. WLŚ, 12 noon.

Saturday, February 20

Eastern Central Mountain Pacific 1:45 p. m. 12:45 p. m. 11:45 a. m. 10:45 a. m. WOI (270m-1110kc) Soils, questions and answers. 8 6 5 KDKA (309.1m-970kc) Farm program.

Sunday, February 21

Eastern Central Mountain Pacific 3:30 p. m. 2:30 p. m. 1:30 p. m. 12:30 p. m. WFAA (475.9m-630kc) Sunday hour for farmers.

Eastern Central Mountain Pacific 3:30 p. m. 2:30 p. m. 1:30 p. m. 12:30 p. m. 12:35 p. m. 11:15 a. m. 10:15 a. m.

Tuesday, February 23 Eastern Central Mountain Pacific 11:30 a.m. 10:30 a.m. 9:30 a.m. 8:30 a.m. KFAB (340.7m-880kc) "Feeding the Chicks," F.

11:30 a.m. 10:30 a.m. 9:30 a.m. 8:30 a.m. KFAB (340.7m-880kc) "Feeding the Chicks," F. Musseil. 1:15 p.m. 11:15 p.m. Martin. 1:145 p.m. 11:15 p

Sheep," G. A. Brown.

8
7
6
5
KFRU (499.7m-660ke) "Care of Brood Sows and Pigs," L. Weaver.
KSAC (349.7m-880ke) "Feeding Dairy Calves and Heffers," R. Lush; "Beautiful Home Grounds Plus Vegetable Gardens," Albert Dickens.

KSO (242m-1240ke) Farm talk.

Wednesday, February 24 Eastern Central Mountain Pacific
1:15 p. m. 12:15 p. m. 11:15 a. m. 10:15 a. m.
WOC (483.6m-620kc) The A B C'c of Dairying.
1:35 12:35 11:35 10:35
KSAC (340.7m-880kc) "Sweet Clover Seeding."
L. Willoughby; "Care and Feed for the Calf."
R. Kiser.

R. Kiser.
1:45
10:45
WMAQ (447.5m-670kc) Radio Farm school.
WOI (270m-1110kc) Poultry husbandry.
1:50
12:50
11:50
10:50
KPKX (288.3m-1040kc) "A B C's of Dairying,"
C. Long.
7:15
6:15

Thursday, February 25

Eastern Central Mountain Pacific 1:15 p.m. 12:15 p.m. 11:15 a.m. 10:15 a.m. WOC (483.6m-620kc) "Commercial Possibilities Seemingly Unlimited."

FARMERS' PROGRAMS INDEX Eastern Central Mountain Pacific 1.45 p.m. 12:45 p.m. 11:45 a.m. 10:45 a.m. 10:40 a.m. 10:45 a.m. 10:40 a.m. 10:45 a.m. 10:40 a.m. 10:50 b.m. 1

KOA (322.4m-930kc) Farm question box.

Friday, February 26

Eastern Central Mountain Pacific
1:15 p. m. 12:15 p. m. 11:15 a. m. 10:15 a. m.
WOC (483.6m-620kc) Special farm service day.
1:45 12:45 11:45 10:45

WOI (270m-1110kc Agricultural Economics.
2 12 12 11

KFKX (288.3m-1040kc) Special Farm Service day.
WMAQ (447.5m-670kc) Radio farm talk.
7:15 6:15 5:15 p. m. 4:15 p. m.
WKAR (285.5m-1050kc) "Wheat and Chaff," J.
Cox; "Meeting Certified Seed Requirements."
Paul Miller; "Sweet Clover," C. R. Megee;
"Seed Time Message to Michigan Farmers,"
Garfield Farley.

"Seed Time Message to Michigan Farmers,"
Garfield Farley,
8 7 6 5
KFRU (499.7m-660kc) "A Permanent Pasture System on Every Farm," A. Ragsdale, 8:15
KSAC (340.7m-880kc) "The Relation of Beekeeping to Agriculture," R. L. Parker.
KSO (242m-1240kc) Farm talk.
8:30 7:30 6:30 5:30
WOC (438.6m-620kc) Question box.
8:45 7:45 6:45
WCCO (416.4m-720kc) "Flower Growing—House Plants, Window Boxes," R. S. Mackintosh.
WCCO (416.4m-720kc) "Flower Growing—Perennials, H. R. Mackintosh.
9:05 8:05
WOS (440.9m-680kc) "Our Heritage," R. Elkins.
KOAC (280.2m-1070kc) "Painting, Cleaning and Polishing the Auto," K. Coulson.
10:30 9:30 KWSC (348.6m-860kc) "The Interesting Bee Family," B. Sloeum; "Should the 1926 Potato Crop Be Increased;" M. D. Armstrong.
10:45 9:45 8:45
KOAC (280.2m-1070kc) "Painting, Cleaning and Polishing the Auto," K. Coulson.
10:45 9:45 8:45
KOAC (280.2m-1070kc) "Painting, Cleaning and Polishing the Auto," K. Coulson.

Markets and Weather

Markets and Weather

WOS (440.9m-050ac) Harbona, 200 (200 pt. 11.30 pt. m. 11.

WFAA (475.9m-630kc) Markets.

1 1 1. 10

WBAP (475.9m-630kc) Markets.
WHT (238m-1260kc) Fruit, weather.
WOS (440.9m680kc) Livestock, weather.
1:30 11:30 10:30

KTHS (374.8m-800kc) Markets, weather.
KFKX (288.3m-1040kc) Weather, livestock, potato market, apples.
WOAW (526m-570kc) Markets.
1:35 12:35

KPO (428.3m-700kc) Butter, eggs, cheese, poultry.
1:45 12:45 11:45 10:45

KOA (322.4m-930kc) weather, roads, 14vestock, poultry.
2 1 12 n. 11

2 1 12 n. 11 WOC (483.6m-620kc) Weather, grain, livestock.

Work (384.4m-780kc) Grain.
2115 1:15 12:15 p.m. 11:15
WAAW (384.4m-780kc) Grain markets.
WFAA (475.9m-630kc) Markets.
3 2 1 12 n.
WLS (344.6m-870kc) Livestock, grain, dairy, fruit, regetables.

| 12 n. | 13 n. | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 12 30 p. m. | 140 | 150 | 12 30 p. m. | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150

SYMPHONY CONCERTMASTER AT WGN

Tuesday, February 23

Twins; 9, Eveready hour; 10, Moments musicale; 10:30, Vincent Lopez and his dance orchestra.

WGBS, New York, N. Y. (315.6m-950kc), 1:30 p. m., Viola Reed, soprano; 3, Interview with Dwight Frye of the Goat Song; 3:15, Idelle Nicosia, soprano; 3:20, interview with Anna Colman Ladd, sculptress; 6, Uncle Geebee; 7, Arrowhead Inn concert orchestra; 8, Y. M. H. A. vocational forum; 8:15, Alfred Shotter, concert violin; 8:50, Belle Bart; 9, Crystal Palace orchestra: 9:40, Jascha Gurwitch; 10:30, Arrowhead Inn dance orchestra.

WGCP, New York, N. Y. (252m-1190kc), 3 p. m., Irving Fristenberg, pianist; 3:20, Paul Hogan, tenor; 3:35, Isabelle Henderson, soprano; 3:45, 20th Century entertainers; 4:15, Leslie McLeod, tenor; 4:30, Max Heitt, violinist; 4:45, Bob McDonaid, ukulele.

WGHB, Clearwater, Fla. (256m-1130kc), 6:30-7:30 p. m., dinner music; 8:30-9:30, Rex Dantzler, tenor; Caroline Lee, 'The Virginia Girl' and her Spanish guitar; 11:45-1 a. m., Radio Ramblers midnight frolic.

WGHP, Detroit, Mich. (270m-1110kc), 6-7 p. m., dinner concert, Hotel Tuller; 7:40-7:50, children's evening chat; 8-10, Skylark dance band; 12-1 a. m., Gerald Marks and his orchestra, assisting artists

WGR, Buffale, N. Y. (319m-9040kc), 2:30 p. m., WGR's afternoon program; 6:30, Vincent Lopez' Hotel Statler dance orchestra, Harold Gleser, director; 8, jointly with WEAF, including Blue Ribbon male quartet, the Gold Dust Twins, Eveready hour, Moment musicale, and Vincent Lopez and his Casa Lopez orchestra.

WGY, Schenectady, N. Y. (379.5m-790kc), 6:30 p. m., Hotel Van Curler orchestra; 7:45, Marine band; 8, finals, Old Fiddler's contest; 8:30, New York Philharmonic concert.

WHAR, Atlantic City, N. J. (278.5m-790kc), 6:30 p. m., Sesside hotel trio;

Hotel Van Curier orchestra; 7:40, Marine Dang, c, finals, Old Fiddler's contest; 8:30, New York Philharmonic concert.

WHAR, Atlantic City, N. J. (275m-1090kc), 2 p. fin., Seaside hotel trio; 7:30, talks; 8, Seaside hotel trio; 11:15, Strand theater organ recital.

WIP, Philadelphia, Pa. (508.2m-590kc), 6:45 a. m., setting-up exercises; 7; setting-up exercises; 10, menu talk, Mrs. Anna B. Scott; 1 p. m., organ recital; 3, Frank Brightman, pianist; Ellen Ayars, planist; Edwin Fredericks, violinist; Bernard Otto, violinist; Grayce Mackey, reader; 6:05, Monte Cross, "Oldtimer"; 6:15, rollen Wip's bedtime stories; songs by Amelia Rohand; 8:15, artist recital; 10:30, Pagoda cafe orchestra.

WIAX, Jacksonville, Fla. (336.9m-890kc), 3:30 p. m. Hemming Park band concert, Vessella's band, Oreste Vessella, conductor; 7:30, music memory concert; 8-9, popular program; 11-12, popular program.

WIR, Pontiac, Mich. (516.9m-550kc), 7 p. m., Stormfeltz-Loveley entertainers; 9, Michigan night, university hall.

WLIT, Philadelphia, Pa. (394.5m-760kc), 11 a. m., organ recital; 12:02 p. m., daily almanae; Stanley theater organ recital; Arcadia cafe concert orchestra; 2, Arcadia

gan recital; 12:02 p. m., daily almanae; Spanissy organ recital; Arcadia cafe concert orchestra; 2, Arcadia cafe concert orchestra; 7:30, Dream Daddy's bedtime

WMAK, Buffalo, N. Y. (266m-1130kc), 6:15-7;15 p. m.,

Stories.

WMAK, Buffale, N. Y. (266m-1130ke), 6:15-7;15 p. m., dinner music.

WMBF, Miami Beach, Fla. (384.4m-780ke), 7-9 p.m., Fleetwood Radio orchestra; 10-1 a. m., Gene Fosdick and his orchestra; Fleetwood Radio orchestra.

WMCA, New York, N. Y. (340.7m-880ke), 6 p. m., Olcott Vail and his Hotel McAlpin string ensemble; 6:30, Woodmansten Inn orchestra; 7, Jack Denny's orchestra; 8, Pace Institute program; 8:15, Landay revelers; 9:15, Palmer pen lesson; 11, Ernie Golden and his Hotel McAlpin orchestra.

WNYC, New York, N. Y. (526m-570ke), 7:10 p. m., The Canadians; 7:35, The Canadians; 8, recital-talk, Herrman Neuman and assisting artists, music of George Frederick Handel; 10, Harry Ash's orchestra; 10:35, Harry Ash's orchestra.

WOO, Philadelphia, Pa. (508.2m-590ke), 11 a. m., organ recital; 12:02 p. m., Golden's crystal tea room orchestra; 4:45, organ recital; 7:30, A. Candelori's concert orchestra.

recital; 12:02 p. m., Golden's crystal tea room orchestra; 4:45, organ recital; 7:30, A. Candelori's concert orchestra.

WOR, Newark, N. J. (405.2m-740kc), 6:15 p. m., Bill Wathey of the Telegram staff in sports; 6:30, Jacques Jacobs! Hotel Shelton ensemble.

WPG, Atlantic City, N. J. (299.8m-1000kc), 6:45 p. m., Arthur Scott Brook, organist; 7, Hotel Morton dinner music; 8:15, Cecile Steiner, violinist; Margaret Irwin, planist; E. F. Gallagher, barttone; 9, Chalfonte-Haddon Hall dual trio; 10, Cuthbert Melody Boys, Pickers; 10:30, Karl Bonawitz, planist; 11, Silver Silpper supper club.

WRC, Washington, D. C. (468m-640kc), 12 noon, organ recital, George Ross; 12:30 p. m., Lenten services, Keith's theater; 1, Hotel Washington orchestra, Irving Boennstein, director; 7:10, Radio School of International Relations; 7:30, concert, U. S. Marine band orchestra, Capt. William H. Santelmann, leader; 8:30, New York Philharmonic society; 9:30, announced; 10:30, W. Spencer Tupman and his Hotel Mayflower orchestra. WREO, Lansing, Mich. (285.5m-1050kc), 6-7 p. m., Speed-Wagon serenaders; Gold Standard ensemble; 8:15, Reo Motor Car company band; C. Eugene Erb, cornetist: Reo Motor Car company band; C. Eugene Erb, cornetist: Reo Motor Car company band; C. Eugene Erb, wTAG, Worcester, Mass. (268m-1120kc), 10:30 a. m., musical selections; 12:05-2, noonday luncheen musica, WTAG, Orchestra, Will Hardy, director; 5:15, "The Twinkle Twinkle Story Teller"; 9-10, Eveready hour, WEAF; 10-10:30, "Moment Musicale," WEAF; 10:30-11, Vincent Lopez and his orchestra; 6, dinner concert; 8, concert, WEAF, 10:38-11, Vincent Lopez and his orchestra; 6, dinner concert; 8, concert, WEAF, 10:38-11, New Mear, 10:38-11, New Mear, 10:38-11, New Mear, 10:39-11, New Mear, 10:39-

Concert; N. Concert, WEAR.

Central Time Stations

KFDM, Beaumont, Texas (315.6m-950ke), 12:30-1 p. m., Refinery band concert; 7-7:30, children's program; 8-10, selections from opera "Ernone," assisted by Magnolia orchestra.

KFKX, Hastings, Nebr. (288.3m-1040ke), 12:50 p. m., Harry Hooks and the Paramount orchestra; 5:30, dinner concert relay, KCDKA; 7-10, annual banquet program of Nebraska Retailers association convention.

KFMQ, Fayetteville, Ark. (299.8m-1000ke), 8 p. m., program, pupils, Harry E. Schultz.

KFNF, Shenandcah, lowa (263m-1140ke), 7 p. m., birthday program.

KFNF, Shenandeah, lowa (265m-1140ke), 7 p. m., birthday program.

KFRU, Columbia, Mo. (499.7m-600ke), 8:45 a. m.,
Public School Convocation, music; 4:30-5:30 p. m.,
Bella Vista Quadrangle orchestra; 6:15, dinner music; 6:45, children's hour.

KMA, Shenandoah, lowa (252m-1190ke), 11:30 a. m.12:30 p. m., rural program; request songs, Mrs. May;
6-7, May Flower trio, May's flower lady, Lina Ferguson; 9-11, May's mandolin musicians.

KMOX, St. Louis, Mo. (280.2m-1070ke), 12:30 p. m.,
organ recital, Arthur L. Ut; 3, string ensemble music
with soloists; 4, string ensemble music with soloists;
6, organ recital, Arthur L. Ut; 7, Little symphony,
David Bittner, conductor; "Little Red Schoolhouse";
Dr. Clark Davis concert company, piano and vocal numbers; 8, Little symphony; "Colonet 6121"; Briggs P.
Dingman, saxophone; 9, Little symphony; Dr. Julius
Bischof, Mrs. J. H. Rotter, character songs; 10, Little
symphony; soloists.

Bischof; Mrs. J. H. Rotter, character songs; 10, Little symphony; soloists.

KPRC, Houston, Texas (296.9m-1010kc), 12 noon, educational program; 5:30 p. m., Uncle Judd's Kiddies', hour; 7:30, Billie Mack's dance orchestra; 8:15, South End Christian church quartet; Coralie Gregory, director; 9, auction bridge game.

KTHS. Hot Springs National Park, Ark. (374.8m-800kc), 9-9:30 p. m., chorus classics, First Presbyterian church choir, Frances Hardin, director; 9:30-9:45, violin group, Flora Mae Bridewell Sharp; 9:45-10, classical offerings, Eastman Eight orchestra, Jack Lube, director; 10-10:30, Meyer Davis dance orchestra.

KWWG, Brownsville, Texas (272m-1080kc), 12 noon, music, Hula Boys; Lorez and Villa; 6 p. m., music, Sunshine Girl.

KYW, Chicage, III. (535.4m-560kc), 12:05 p. m., concert; 1, Joska De Babary and his orchestra; Coon-San-

ders' orchestra; 2:35-4, frolic, Frank Clark, director; Wendell Hall; 6-7, KDKA; 8, music, Congress hotel; 9, an hour of music; 10, evening at home; Coon-Sand-

ders' orchestra; 2:35-4, frolic, Frank Clark, director; Wendell Hall; 6-7, KDKA; 8, muslc, Congress hotel; 9, an hour of muslc; 10, evening at home; Coon-Sanders' orchestra; Wendell Hall; WBAP, Fort Worth, Texas (475-9m-630kc), 6-6:30 p. m., Chief Gonzales' Texas Hotel Royals; 7:30-8:30, Marimba club; 9:30-11, WBAP's Harmony trio.
WCCO, Minneapolis-St. Paul, Minn. (416-4m-720kc), 2:30 p. m., afternoon concert, Dick Long's trio; 4, readers' club, Eleanor Poehler; 5:30, children's hour; 6:15, dinner concert, Dick Long's Nankin cafe orchestra; 7:30, program, WEAF; 7:30-8, Gold Dust Twins; 8-9, Eveready hour.
WDAF, Kansas City, Mo. (365-6m-820kc), 3:30-4:30 p. m., the Star's string orchestra; 6-7, the Tell-Mea-Story lady; the Trianon ensemble; 11:45-1, Ted Weem's Victor Recording orchestra; Eddle Kuhn's Kansas City Athletic club orchestra; Eddle Kuhn's Kansas City Athletic club orchestra; Ted Meyn, organist.
WEBH, Chicago, III. (3702.m-810kc), 7 p. m., Orlole orchestra; 8, Lydia Lochner, contraito; Kathryn Forbes, soprano; 9, Uptown theater; 11, Orlole orchestra; 12:30 a. m., Jack Penewell, Fred Palmiter.
WGES, Oak Park, III. (250m-1200kc) 5-7 p. m., tenor, organ, features; 8-9, flute duo orchestra, pipe organ; 11-1 a. m., pipe organ, tenor, piano and soprano selections.
WGN. Chicago. III. (302.8m-990kc), 10-10:15 a. m.,

wgn, Chicago, III. (302.8m-990kc), 10-10:15 a. m.,

phonic players; Palmer House Victorians; Howard L. Peterson, organist; 8-9, solos, bands, etc., children; 10-11, Garod studio; Rushmore ensemble singers; Palmer House Victorians; 12:30 a. m., Knights of the Burning Candle.

mer House Victorians; 12:30 a. m., Knights of the Burning Candle.

WKRC, Cincinnati, Ohie (422.3m-710ke), 10 p. m., Alvin Rochr and his Hotel Alms orchestra; 11, Doc Howard and his Cuvier WKRC quartet, orchestra; Reine Gau, Phil Pavey, Ollie Grimm, Jimmie Schuh.

WLIB, Chicago, III. (302.8m-990ke), 7-8 p. m., musica program; 11-1 a. m., dance music, Langdon brothers.

WLS, Chicago, III. (304.8m-870ke), 6 p. m., WLS trio; 6:40, Ralph Emerson, organist; 7, Iullaby time; 7:20, "Common Sense of Music," Dr. S. Spaeth.

WLW, Cincinnati, Ohie (422.3m-710ke), 7:30 a. m., healthful exercise, William Stradtman, physical department YMCA; 8, morning devotions, ausgices of Parkway YMCA; 12 noon, non cencert, Hotel Gibson orchestra, Robert Visconti, director; 4 p. m., talk, Ralph Schmidt, of Ft. Thomas Kentucky; 4:10, French lessons, Madame Ida Teimpidis; 7, historical appreciation of music, Etelka Evans, Cincinnati Conservatory of Music; 7:30, piano memories, Crosley plano request, Lady Mary Louise Wosezeek; 3, concert, Tenth U. S. Infantry band; concert Formica concert orchestra, Wil-

Eastern Sentral Mountain Paeifle
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, WCC, WORD,
WTAG.

Wednesday, February 24
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.
8

Thursday, February 25
Eastern Central Mountain Pacific
6 p. m. 5 p. m. 4 p. m. 3 p. m.
WEZ, WCX, WEAF, WIF, WMCA, WREO,

WWJ.

7 6 5 5 4 WHAD,
WJR, WMAQ, WOAW, WOK, WWJ.

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

WTIC.

8 FHJ, KLDS, WBAP, WCAE, WCAU, WCBD, WCCO, WEAF, WEEI, WGR, WHAR, WHAS, WJAB, WNYG, WOC, WORD, WRC, WASI, WSB, WTAG,

10 9 KNX, KPRC, KTHS, KYW, WAMD, WGR, WGY, WHAD, WMC, WOAW, WOC, WSAI,

11 10 KGO, KPO, KTHS, WBAP, WKRC,

12 m 11 KGW, KPO, WHO, WKRC.

Gardens orchestra; Kenneth Sterling, baritone; Katherine McDevitt, Margaret McDevitt, piano duets; 10-1, Rainbo Skylarks; Gertrude Wolf Quentin, soprano; Jerry Sullivan; Rose Vanderbosch, soprano; Hal Lansing, ukulele soloist; Merrill Carder, baritone; Will Rossiter; Ila Shamabrook, soprano; Romo Vincent, boy baritone; 1-2, Ginger hour.

WSAI, Cincinnati, Ohio (325-8m-200ko), 5:30 p. m., musical; 6:30, musical; 7, Mabley and Carew orchestra, Reuben Lawson, director; 8, Evercady hour; 9:30-10, musical program; 12, Freda Sanker's orchestra.

WSB, Atlanta, Ga. (428.3m-700kc), 8 p. m., program, Remington Typewriter company; 10-45, entertainment.

WSM, Nashville, Tenn. (282.8m-1060kc), 10 p. m., frolic, Beasley Smith's orchestra.

WSOE, Milwaukee, Wis. (246m-1220kc), 8:45 p. m., movie review, Peggy Patton; 9, classical musical program, Eva Case company.

Mountain Time Stations

WSM. Nashville, Tenn. (282.8m-1960ke), 10 p. m., froling. Beasley Smith's orchestra.
WSOE, Milwaukee, Wis. (246m-1220ke), 5:45 p. m., movie review, Peggy Patton; 9, classical musical program, Eva Case company.

Mountain Time Stations
CNRR. Regina, Can. (476m-640ke), 8 p. m., kiddies' bedtime story, Aunt Jenny; studio program, Queen City Mandolin club.
KFXF, Colorado Springs, Colo. (250m-1200ke), 3:30-bedtime story, Aunt Jenny; studio program, Queen City Mandolin club.
KFXF, Colorado Springs, Colo. (250m-1200ke), 3:30-m., Millian Colorado Springs, Colorado Colorado, Millian Co

CLASSICAL CONCERTS INDEX

Saturday, February 20
Eastern Central Mountain Pacific 6 p. m. 4 p. m. 3 p. m.
WCX, WEAF, WMCA, WREO.
7 KGO, KYW, WEAR, WENR, WMAQ, WNYC, WOAW, WOK, WRC. WLW, WORD, WSAI, WSOE
10 9
KNX, KYW, WEAF, WMAQ, WMC, WOAW,
WOC, WORD.
11 10 9
KGO.
12 m 11 16 9
WOAW. Sunday, February 21
Central Mountain Pacific
5 p. m. 4 p. m. 3 p. m. WCAU.
7.20
6:20
5:20
WCAE, WCAU, WEAF, WEAR, WEEI, WJAR, WTAG, WWJ.
8
KYW, WAMD, WEZ, WEAR, WGBS, WGCP, WKAQ, WLS, WORD.
9
8
KFDM, KPRC, KSD, WBZ, WCAU, WCSD, WCCO, WEAR, WGY, WHAR, WHT, WNYC, WQJ. KFDM, KPRC, KSD, WSZ, WGAU, WCRD, WCCO, WEAR, WGY, WHAR, WHT, WNYC, WQJ, 9:15 8:15 7:15 6:15

WEEI, WJAR, WTAG. 10 8 7

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

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

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

KNX. 8 7 WBBR, WBZ, WCAU, WCX, WHAR, WHT, WJAR, WWW, WMBB, WTAG, WTIC. WTIC. WHI, WJAR, WLW, WMBB, WTAG, 9 8 7 8 WCO, WBZ, WCAE, WEI, WHAD, WHO, WJAR, WLW, WORD, WOS. 10 8 KMA, KPO, KPRC, KSD, KTHS, WCO, WEAF, WHAD, WJAR, WOAW, WSUI, WTAG. 10 4 KKWAR, WCO, WEAF, WHAD, WJAR, WOAW, WSUI, WTAG. 11 10 4 KKWAR, WTAG. 11 10 8 8 KGW, KHJ, KMA, KSD, KTHS, KWSC, WHN, WSAI. 12 m II KGW, WBAP, WSAI. 1 a. m. 12 m KHJ.

Tuesday, February 23

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

Marie Tully, soprano; Harry Davis.

WJJD, Mooseheart, Hl. (370.2m-810kc), 12-1 p. m., Palmer House symphonic players; Palmer House trio; 2-3, Howard L. Peterson, organist; 4-5, music, Mooseheart children; daily assembly of 1,250 children; Mooseheart faculty talks; 5:30-7, Jack Nelson; Palmer House sym-

KFNF, KSD, KYW, WBZ, WCAE, WCAU, WCX, WEAR, WEIT, WGR, WHAR, WHT, WLS, WMBB, WQJ, WRC, WTIC.

good health period; 10:15-10:45, entertainment for shut-ins; 11-11:30, morning organ concert, Chicago theater, Dean Fossler; 12:01-12:30 p. m., noon-hour entertainment for children; 12:40-2:30 p. m., serial; 2:30-5.57, organ recital, Edward Benedict; 5:30-5:57, Skeezix time; 6:30-6:45, dinner concert music; 6:45-7, old-time favorite songs; 8-9, Eveready hour; 9-10, musical program; 10-10:10, "Sam "n' Henry," Radio comic strip; 10:10-10:15, old-time favorite songs; 10:15-11, dance music; songs, Correll and Gosden, Freda Leonard and Jewell Barnett.
WHAS, Louisville, Ky. (398.8m-750ke), 1-2 p. m., Benson trip; 3-3:30, Mrs. Myrtle Fulks Zahn, Jr., organist; 4-5, Music Box concert; 7:30-9, Eddle Rosson and his orchestra.
WHB, Kansas City, Mo. (365.6m-820ke), 7-7:30 p. m., dinner hour organ concert, Linwood theater, Morrill Moore; 8-10, feature program; G. L. Cowan, planist; N. McDowell, Hawaitan guitarist; J. Savage, guitarist; H. Grovier, mando-cello; R. Anderson, mandolinist and uke soloist.
WHO, Des Molnes, Iowa (526m-570ke), 2:15 p. m., Snow White, Marvel trio; 7:30-9, American Legion; 11-12 midnight, Bankers' Life Corn Sugar orchestra.
WHBO, Chicago, Ill. (220m-1330ke), 2-4 p. m., program for shut-ins; Tod Fiorito, planist; Dan Russo, violinist; Marie Tully, soprano; Wayne Meyers, reader; Mr. Wallace, singer; Dorothy Davie Dillow, soprano; Charlotte Edwards, contralto; Eugene Wallenius, tenor; Ruth Goll, planist; 12, midnight, Jamboree; Dan Russo, violinist; Ted Fiorito, planist; Wayne Meyers, reader; Marie Tully, soprano; Harry Davis.
WIJD, Mooseheart, H. (370.2m-810ke), 12-1 p. m., Palmer House symphonic players; Palmer House trio; 2-3, 400.

liam Stoess, director, auspices The Formica Insulation

company.
WMAQ, Chicage, III. (447.5m-670ke), 4:45 p. m., pupils,
Maurice Rosenfeld; 6, Chicago theater organ; 6:30,
Hotel La Salle orchestra; 8:20, Mrs. Elizabeth Jenks,
soprano; 9:20, Elmhurst choral club.

Hotel La Salle orchestra; 8:20, Mrs. Elizabeth Jenks, soprano; 9:20, Elmhurst choral club.

WMBB, Chicago, Ill. (250m-1200kc), 7-8 p. m., Trianon duo; Grand Opera trio; Genevieve Burnham, coloratura soprano; 9-11, Trianon orchestra; Dell Lampe; Woodlawn theater orchestra; Walter Kipps; Eddie Matts and Billie Donovan; Ned Graham, bartione; Bob Bennett, planist; Oxford Girls, vocal duo.

WMC, Memphis, Tenn. (499-7m-600kc), 8:30 p. m., Hofstead Bible class male quartet; 9, bridge game; 11, midnight frolic.

WOAN, Lawrenceburg, Tenn. (282-8m-1060kc), 9-9:30 p. m., Walter B. Seale and orchestra; 9:30-10, quartet, orchestra. Neb. (526m-570kc), 12:45 p. m., Gilbert Jaffy and his Little symphony; 6, entertainment; 6:50, orchestra; 9, classical; 10:30, Herb Feierman and his Omadala orchestra; 12. Raito theater alarm.

WOC, Davenport, lowa (483.6m-620kc), 5:43-6 p. m., chimes; 7-7:30, Blue Ribbon male quartet; 7:30-8, Gold Dust Twins, WEAF; 8-9, Eveready hour; 9-10, travel lecture; 10-11, Crescent orchestra; 12-3 a. m., Crescent orchestra, to be rebroadcast by WGY.

WOI, Ames, lowa (270m-1110kc), 12:30 p. m., college chimes.

WOK, Chiegae, Ill. (217.3m-1380kc), 4:30-7 p. m.

word, Ames, chimes, chimes, work, Chiego, III. (217.3m-1380ke), 4:30-7 p. m., Capitol theater organ; program; 10-1:30, Tierney's Town club orchestra; Carl Lorraine's Pershing Palace orchestra; Husk O'Hare's Coccanut Grove orchestra; Capitol theater program; program.
WOQ, Kansas City, Mo. (278m-1080ke), 8-9 p. m., de-

WOU, Kansas City, Mo. (278m-1080ke), 8-9 p. m., devotional nusical program.
 WORD, Batavia, III. (275m-1090ke), 7 p. m., program, Public Service company; 7:45, Bible questions and answers, B. M. Rice; 9-10, program, W. A. Sheaffer Pen company; 11-11:45, musical program, Public Service company.
 WQJ, Chicago, III. (447.5m-670kc), 7-8 p. m., Rainbo

Wednesday, February 24

Headliners Today

Eastern Central Mountain Pacific 7 p. m. 6 p. m. 5 p. m. 4 p. m. CNRO (434.5m -690ko) anniversary program. 8 6 5 WBZ (333.1m -900ke), Pierian trio.
WTIC (475.9m -630ke), Hartford Saengerbund concert.

eert. 9 8 7 6

WBZ (333.1m-900kc) Angelus quartet.

WDAF (365.6m-820kc) American Legion program.
9:30 8:39 7:30 6:30

WEAF (491.5m-610kc) Irvine players.
10:30 9:30 8:30 7:30 KTHS (374.8m-800kc) Old Breakdown concert.

WGR (319m-940kc) Variety program.
11 10 8

KFI (467m-642kc) Ventura string quartet.

KYW (535.4m-560kc) Wendell Hall, Red-Headed Music Maker.

Music Maker.
WSM (282.8m-1060kc) Shriners.

| 1a. m. | 12 | 10 | WGR (319m-940ke), Special All Night frolic until 4:30 a. m.

Wednesday, silent night for: CHIC, CKNC, CNRA, CNRC, CNRE, CNRM, CNRR, CNRT, CNRV, KFAU, KFDM, KFEQ, KFKU, KFMQ, KFXF, KGO, KLDS, KMMJ, KOB, KTAB, WABQ, WBAL, WBAP, WBBR, WCAD, WCAL, WCBD, WEBW, WFAA, WGBS, WGCP, WGST, WHAR, WHAZ, WIP, WJAD, WJAZ, WLWL, WMC, WOAI, WOAW, WOI, WPG, WRC, WREO.

Eastern Time Stations

strumental concert night.
CNRO, Ottawa, Can. (434.5m-690kc), 7 p. m., children's
half hour, Aunt Bessie; 8, Chateau Laurier concert
orchestra; 8:45, second annual birthday party, CNRO;
favorite artists.

e artists.
Pittsburgh, Pa. (309.1m-970ke), 12:20 p. m.,

KDKA, Pittsburgh, Pa. (309.1m-970kc), 12:20 p. m., Trinity church Lenten service; 6:30, dinner concers, \$1:30, Independent. Wall Paper Plerrots; 9, Helen Greenwood, soprano; Hulda Lefridge, planist; Vinceat Koren, tenor; Natcho Vasileff, cellist. PWX, Havana, Cuba (400m-750kc), 8-9 p. m., Cuban Army band; 9:15-10:15, Cuban Army band.
WAHG, Richmond Hill, N. Y. (315.6m-950kc), 12:03 p. m., musicale; 7:30 p. m., songs for little people, Helen Marshall; 7:45, John DeBuerts, clarinet virtuos and Vitu Menella, Italian tenor; 8:15, joint recital, Michael Lamberti, cellist and Edythe Lamberti, lyric soprano; 9, William Taylor, baritone; 9:15, Philipp

CNRO'S BIRTHDAY PARTY WEDNESDAY

Wednesday, February 24

A. Fey, lyric tenor; 9:30, the Four Gondoliers; 10:03, Philipp A. Fey, lyric tenor; 10:20, Frank Lapeire's Collegians.
WBZ. Springfield. Mass. (323 to 2021)

A. Fey, lyric tenor; 9;30, the Four Gondoliers; 10:03, Philipp A. Fey, lyric tenor; 10:20, Frank Lapeire's Collegians.

WBZ. Springfield, Mass. (333.Im-900ke), 6:30 p. m., KDKA Little Symphony orchestra; 6:45, Hotel Kimball dance orchestra; 8, Lillian Clark, harpist; Ethel Vanneman, soprano; Pierian trio; 9, Angelus quartet. WCAU, Philadelphia, Pa. (27.6m-1080ke), 6:35 p. m., Parodians dance orchestra; 7:30, recital, N. Snellenburg and company; 8, talk; 8:10, Kane's Musical Adventurers; 9, Rigo's Royal Gypsy band; 9:30, Jones' Jolly Four; 10, fashion talk, Murray Elgart; 10:05, Interfraternity dance orchestra; 10:45, Frank Cook, old-time songs; 11, Artie Britton's Cheer-Ups.

WCX, Detroit, Mich. (516.9m-580ke), 6-7 p. m., diner program, Goldsette ensemble; 8-9, program.

WEAF, New York, N. Y. (491.5m-610kc), 6:45, 7 and 7:20 a. m., Tower health exercises to WEAF, WEEI, WCAP; 7:45-8 a. m., morning prayer services, auspices of Greater New York Federation of Churches; 11:05, Evelyn Wight, soprano; 12 n., chapel services, Columbia university; 4, Marguerite Cartwright, soprano; 4:15, Juliette Glassman, planist; 4:30, Ben Gordon, tenor; 4:45, story hour of New York public library; 5:00, Vincent Lopez and his orchestra from tea room of Hotel Waldorf-Astoria; 7, synagogue services, auspices of United Synagogue of America; 7:30, concert, United Synagogue of America; 7:30, concert, United Synagogue of America; 7:30, base room of Hotel Waldorf-Astoria; 7, synagogue services, auspices of United Synagogue of America; 7:30, base room of Hotel Waldorf-Astoria; 7, synagogue services, auspices of United Synagogue of America; 7:30, concert, United Synagogue of America; 7:30, concert,

WEAR, Cieveland, Ohio (389.4m-770ko), 7 p. m., Hotel Cleveland orchestra.

WEBJ, New York, N. Y., (272.6m-1100kc), 8-8:30 p. m., John Landers and his Royal Aces; 8:45, Esther Mittleman, concert pianist; 9, p. m., Benjamin S. Jarmus, tenor, accompanist, Milion Rubin; 9:15, Rudolph Joscowitz, concert violinist, accompanist, Norman Hennefeld; 9:30-10, Busoni's Neapolitans.

WEIL Boston, Mass. (348.6m-860kc), 6:45 a. m., health exercises; 3 p. m., E. Payson Re and his orchestra; 5, Black and White vaudeville orchestra; 6:15, Joe Rines and his Hunters' Cabin orchestra; 6:45, Big Brother club; 7:30, Nordine Robards, pianist; 8, musical skit; 8:30, Davis saxophone octet, WEAF; 9, Ipana Troubadours, WEAF; 10, Roxy and his Gang, WEAF; WI, Philadelphia, Pa., (394.5m-760ke), 10:30 a. m., special music; 10:40, Betty Crocker; 1 p. m., tea room ensemble; 3, The Octave, of Haddon Heights; musical readings, Mrs. M. Atlee Ermold; talk, "Care and Maintenance of a Lawn," Warren E. Meixner; 6:30, Bellevue Stratford dance orchestra.

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

WGBS, New York, N. Y. (315.6m-950ke), 1:30 p. m.,
Ruth Maschke, soprane; 3, special hospital program
for Reconstruction Hospital; 3:15, Sunny entertainers,
Charlotte Salisbury singer, composer, actress; 6, Uncle
Geebee; 6:30, Julie Wintz, Jersey Collegians; 7, Norbert Lusk, movie sidelight.

WGCP, New York, N. Y. (252m-1190kc), 3 p. m.,
Lillian Rubin, pianist; 3:20, Bobby Grey, singer;
3:45, Tracey and Mokr; 4:30, Jeanne A'Dair, soprano;
5:10, Charlotte Trystwann, concert pianist; 7, Clarence
Williams, trio; 7:25, Charles Coleman, pianist; 7:45,
program.

Williams, Author, 110, program, MGHB, Clearwater, Fla. (266m-1130kc), 6:30-7:30 p. m., dinner music; 8:30-9:30, Earl Gresh and his Gang Plank, Columbia Recording orchestra; Frank Wilson, tenor; 11:45-1 a. m., Radio Ramblers mid-

Wison, tender; 11:30-1 a. m., Aadio Kambiers midmight frolie.

WGHP, Detroit, Mich. (270m-1110kc), 6-7 p. m., dinner
concert, Hotel Tuller; 7:40-7:50, children's evening
chat; 8-10, Little symphony orchestra, Dirk Van Emmerik, conductor; Mmc. Gizi Szanto, pianist; quartet;
12-1 a. m., Gerald Marks and his orchestra, Hotel
Tuller, assisting artists.

WGR, Buffalo, N. Y. (319m-940kc) 2:30 p. m., WGR's
afternoon program; 6:30, Gospel melodists; 8, Audubon
Terrace Meadow Larks; 8:30, Jointly with WEAF,
Davis saxophone octet; Ipana troubadours; 10, program,
E. A. Wills Wallpaper company; 10:30, Mrs. Vernon
Curtis in variety program; 11:30, Leola Nease Vickers,
contraito, and associate artists; 12, Club Royale orchestra; 1 a. m., special all-night frolie program, including the Vincent Lopez Hotel Statler dance orchestra,
Harold Gieser, director, and other star performers,
lasting until 4:30 a. m.

WGY, Schenetady, N. Y. (379.5m-790kc), 6:30 p. m.,

lasting un'il 4:30 a. m.

WGY, Schenectady, N. Y. (379.5m-790kc), 6:30 p. m., children's program; 7, Eastman theater orchestra; 8:05, musical program, WHAM.

WIP, Philadelphia, Pa., (508.2m-590kc), 6:45 a. m., setting-up exercises; 1, p. m., Gibble tea room orchestra; 3:15, recital, Montani studic; Flora Ripka, accompanist; 6:05, Benjamin Franklin concert orchestra; 7, Uncle Wip's bedtime stories; DeCollibris Instrumental quartet.

panist; 8:00, Denjamm Araham.
Uncle Wip's bedtime stories; DeCollibris Instrumental quartet.

WIAX, Jacksenville, Fla. (336.9m-890kc), 3:30 p. m.,
Hemming park band concert, Vessella's band, Oreste Vessella, conductor; 7:30, music memory contest; 8-10, popular program.

WJR, Pontiac, Mich. (516.9m-580kc), 7 p. m., Jean Goldkette's Symphony orchestra, soloists; 9, Winter Haven, Fla., Radio hour; 11:30, "The Merry Old Chief" and his "Jewett Radio Jesters."

WKAQ, San Juan, P. R. (340.7m-880kc), 6-8 p. m., municipal band.

WKAQ, San Juan, P. R. (340.7m-880Ke), v-8 p. m., municipal band.
WLIT, Philadelphia, Pa., (394.5m-760ke), 12.02 p. m., daily almanac; Stanley theater organ recital; religious service; Arcadia cafe concert orchestra; 7:30, Dream Daddy's bedtime stories; 8, recital; 10, Arcadia cafe dance orchestra; 10:30, Dickerson's society orchestra.
WLWL, New York, N. Y. (288.3m-1040ke), 9:15 p. m., entertainers; 9:45, McEvoy concert; 10:30 p. m., music and songe

WLWL, New York, N. Y. (288.3m-1040kc), 9:15 p. m., entertainers; 9:45, McEroy concert; 10:30 p. m., music and songs.
WMCA, New York City, N. Y. (340.7m-880kc), 6 p. m., Olcott Vail and his Hotel McAlpin string ensemble; 6:30, Ernie Golden and his Hotel McAlpin orchestra; 7:45, Woodmansten Inn orchestra; 8:20, talk on securities; 9, Coughlan & company entertainers; 11. Hofbrau Haus entertainers; 11:30, Jack Benny's orchestra.
WMAK, Buffalo, N. Y. (266m-1130kc), 7:30-10 p. m., musical program.
WMSF, Miami Beach, Fla. (384.4m-780kc), 7-9 p. m., Fleetwood Radio orchestra; 10-1 a. m., Gene Fosdick and his orchestra; Eleetwood Radio orchestra, wnyc, New York, N. Y. (526m-570kc), 5:45 p. m., Agnes Vernon's Juveniles; 6:20, piano selections; 6:30, elementary and advanced Spanish lessons, V. H. Berlitz; alarms; 7:35, dance program; 8:30, instrumental novelty; 9, joint song recitai; 9:30, stringed trio.
WOO, Philadelphia, Pa., (508.2m-590kc), 11 a. m., organ recitai; 1:20 p. m., Golden's crystal tea room orchestra; 4:45, organ recitai; 7:30, Hotel Sylvania dance orchestra; 8, Chamber musicale; 8:30, Davis saxophone octet; 9, concert; 10. Fox theater studio program; 10:30, Ritz Carlton dance orchestra.

WOR, Newark, N. J. (405.2m-740ke), 6:30 p. m., Jacques Jacobs' Hotel Shelton ensemble; 9:30, Weehaw-

Jacques Jacous Hotel Sheater Castally, 12 n., organ ken Elks band, WRC, Washington, D. C. (468m-640ke), 12 n., organ recital, Gertrude Smallwood; 12:30 p. m., Lenten services, Keith's theater; 1, Lee House trio, Sam Udrin, director; 4:15, Meyer Davis Le Paradis band;

services, Keith's theater; 1, Lee House trio, Sam Udrin, director; 4:15, Meyer Davis Le Paradis band; 5, musical program. WRVA, Richmond, Va. (256m-1170kc), 8:10 p. m., orchestra and special features; 9:30, Richmond musicians club program, vocal and instrumental numbers; 11, Carry Me Back to Old Virginny.
WTAG, Worester, Mass. (268m-1120kc), 10:30 a. m., musical program; 12:05-2, noon day luncheon music, WTAG orchestra, Will Hardy, director; 3-4:45, Tea Dansant music, WTAG orchestra; 7:15, "The Twinkle Twinkle Story Teller"; 8:30-9, Davis Saxophone Octet, WEAF; 10-11, Roxy and his Gang, WEAF.
WTAM, Cleveland, Ohio (389.4m-760kc), 6-7 p. m., Royal Canadians; 8-11, city of Cleveland program; 11-1 a. m., Royal Canadians, 8-11, city of Cleveland program; 11-1 a. m., Royal Canadians, soprano; 9:15, Laura C. Gaudet, planist; 9:30, Esther A. Nelson, organist; 10-11, dance music.
WJ, Detroit, Mich. (352.7m-550kc), 7:30-8 a. m., setting-up exercises; 9:30, "Tonight's dinner"; 12:05, Jules Klein's Hotel Statler orchestra; 3, Detroit News orchestra; 6, dinner concert; 8, News orchestra and soloists; 9, dance program; 10, Roxy and his gang.

Central Time Stations

orchestra; 6, dinner concert; 8, News orchestra and soloists; 9, dance program; 10, Roxy and his gang.

Central Time Stations

CKY, Winnipeg, Can. (384.4m-780kc), 7:30 p. m., Canadian National Railway's program, Ft. Garry hotel. CNRW, Winnipeg, Can. (384.4m-780kc), 7:30 p. m., bedtime story, Aunt Grace; 7:50, musical program, Ft. Garry hotel, I rvine Plumm and his orchestra; 8:45, studio program, brass band, Bandmaster J. T. Cocking, director; F. H. Hughes, baritone; 10, supper-dance program, Irvine Plumm and his Ft. Garry hotel orchestra; Al Kilgour, soloist.

KFKX, Hastings, Nebr. (288.3m-1040kc), 12:50, musical program, Hrvine Plumm and his Ft. Garry hotel orchestra; Al Kilgour, soloist.

KFKX, Hastings, Nebr. (288.3m-1040kc), 12:50, musical program, Hotel Clarke studio; 5:30, dinner concert; relay, KDKA; 9, musical program, Sinfonia fraternity.

KFNF, Shenandcah, Ia. (263m-1440kc), 7 p. m., concert, Henry Field Seed company.

KMOX, St. Louis, Mo. (280.2m-1070kc), 12:30 p. m., organ recital, Arthur L. Utt; 3, string ensemble music with soloists; 6, organ recital, Arthur L. Utt; 7, little symphony, David Bittner, conductor; Opal Sweagea, soloist; 8, little symphony; Margaret Chapman Byers, oratorio and sacred selections with organ accompaniment; 9, little symphony, Alfred L. Schmied, planist; 10, popular selections.

KFRC, Houston, Tex. (296.9m-1010kc), 12 noon, Llons club luncheon program, I. C. Timmins; 5:30 p. m., Uncle Judd's kiddles' hour; 7:30, Fatty Martin's End O'Maine dance orchestra; 8:30, Rice Institute band, 60 pieces, Lee Chatham, director; 11, Palace theater orchestra, Charles MacBlain, director.

KSD, St. Louis, Mo. (545.1m-550kc), 7 p. m., Hotel Statler orchestra; 8, Ipana Troubadours.

KTHS, Hot Springs National Park, Ark. (374.8m-800kc), 9-9:30 p. m., Salvatore Julian, trombonist; Toni Cochard, soloist, John Heyn, accompanist; grand ensemble, Lon Chassy, director; 9:30-10:15, "Old Breakdown concert," J. E. Smith and his fiddle band; 10:15-11, Southerners Majestic hotel dance orchestra.

KWBG

xylophone trio; Claire Matthews; Floyd Faich; Áriston trio.

WCCO, Minneapolis, St. Paul, Minn. (416.4m-720kc),
2:30 p.m., afternoon concert; 4, readers' club. Eleanor
Poehler; 5:30, children's hour; 7, midweek church
service, Rex. M. K. Hartman, pastor; 8, program,
WEAF, Ipana Troubadours; 9, musical program, the
NEAF, Ipana Troubadours; 9, musical program, the
WEAF, Ipana Troubadours; 10:95, dance program,
Wallie Brickson's Coliseum orchestra; 11:30, organ
rectal. Eddie Dunstedter.

WDAF, Kansas City, Mo. (365.6m-820kc), 6-7 p. m.,
The Tell-me-a-story lady; The Trianon ensemble; 810, program; 11:45-1, Ted Weem's Victor Recording
orchestra.

WEBH, Chicago, III. (370.2m-810kc), 7-8 p. m., Emer-

The Tell-me-a-story lady; The Trianon ensemble; 8-10, program; 11:45-1, Ted Weem's Victor Recording orchestra.

WEBH, Chicago, Ill. (370.2m-810ke), 7-8 p. m., Emerson Military band; 9, Oriole orchestra; 9:45, Florence Behrend, soprano; Eugenia Dolberg, pianist; 11, Oriole orchestra; rirene Beasley; Frank Bordner, revue.

WGN, Chicago, Ill. (302.8m-990ke), 10-10:15 a. m., good health period; 10:15-10:45, entertainment for shut-ins; 11-11:30, organ concert, Chicago theater, Dean Fossler; 12:01-12:30, noon hour entertainment for children; 12:40-2:30, luncheon oon cert music; 2:30-3, Lyon and Healy artist recital; 3:25, Port o' Missing Men; 3:30-4:15, tea time music; 4:30-5, Skeezix time; 6:30-6:45, dinner concert music; 6:45-7, old-time favorite songs; 8-9, musical program; 9-10, "Roxy" and his gang; 10-10:10, "Sam 'n Henry," Radio comic strip; 10:10-10:15, old-time favorite songs; 10:15-11, dance music, songs, Correll and Gosden, Freda Leonard and Jewell Barnett; Hawaitan guitar music, Langdon brothers.

WHAS, Louisville, Ky. (399.8m-750ke), 1-2 p. m., Barney Rapp's orchestra; 3-3:30, Mrs. Myrtle Fulks Zahn, Jr., organist; 4-5, Music Box review; 7:30-9, I. & I. orchestra; string division, K. & I. orchestra WHB, Kansas City, Mo. (365.6m-820ke), 2-3 p. m., ladies' hour program, Morrell Moore; 7-8, Milo Finley's trio; Walt Filkin, poet; popular songs, Wattie Walkins; Ramona Payne, planist.

WHO, Des Moines, la. (526m-570ke), 2:15 p. m., Snow White, Marvel trio; 6-7, Bankers Life little symphonic orchestra; 7-7:15, Uncle Dutch stories; 7:15-8:15, frene Doran and her little symphony orchestra; 18:15-9, Harry Lewis; Norman Broholm, planist; Kate Miller, whistler; Maude Hughes, accompanist; artists, Capitol theater; 9-12, dance program: WIBO, theago, Ill. (226m-1330ke), 2-4 p. m., Shutin program; Ted Fiorito, planist; Dan Russo, violinist; Marie Tully, soprano; Wayne Meyers, reader; Connie Corwin, soprano; Wayne Meyers, reader; Connie Corwin, soprano; Wayne Meyers, reader; Connelius, uke soloist; Lenore Friedman, sopran

Feari Holzman, planist; frene Beasley, the Jordans. WIAZ, Chicago, III. (322.4m-930ke), 9-1 a. m., Spike Hamilton's and Al Katz' opera club. WJID, Mooseheart, III. (370.2m-810kc), 12-1 p. m., Palmer house symphonic players; Palmer house trio; 2-3. Howard L. Peterson, organist; 4-5, music, children; 6:30-7, Jack Nelson; Palmer house symphonic players; Howard L. Peterson, organist; Palm or house Victorians; 8-9, music, children; 10-11, Garod studio; R. V. Thomas; John Norton; Palmer House Victorians; 12:30, Garod studio; Palmer House Victorians; 12:30, Garod studio; Palmer House Victorians; 12:30, Garod studio; Palmer House Victorians; Jack Nelson. WKAF, Milwaukee, Wis. (261m-1150kc), 10-11 p. m., Campus Skylarks; Al Buech, sax soloist. WLIB. Chicago, III. (302.8m-990kc), 7-8 p. m., musical program; 11-1 a. m., dance music, songs, Correll and Gosden; Hawaiian guitar music. Langdon brothers. WLS, Chicago, III. (344.6m-870kc), 6 p. m., WLS trio; 6:40, Ralph Emerson, organist; 7, Ford and

Glenn; 7:20, WLS trio; 8:30, "Our Dallas Trip," Ford and Glenn; 9:30, Jaysee male quartet; 10, Nadel's Hawaiian quintet; 10:30, Tony Corcoran, bartitone; 11, WLS circus.

WLW. Cincinnati, Ohio (422.3m-710kc) 7:30 a. m., healthful exercises, William Stradtman, physical department, Y. M. C. A.; 8, morning devotions, auspices of Parkway Y. M. C. A.; 12:05 p. m., musical novelties, Irene Downing, player-roll artist; 4, Shut-In program, directed by William Duning; 7, dinner hour concert, Hotel Glbson, orchestra directed by Robert Visconti; 7:30, address, a representative of the Ohio Farm Bureau federation; 10, concert, Sigma Alpha Iota sorority, Cincinnati conservatory of music; 11, Crosley male quartet; 11:20, Crosley musical news, Johanna Grosse, editor and organist.

WMAQ, Chicago, III. (447.5m-670kc), 1 p. m., Chicago Association of Commerce luncheon; 2, shut-in program; 4:45, puplls, Cosmopolitan School of Music; 5:15, Georgene Faulkner; 6, Chicago theater organ; 6:30, Hotel LaSalle orchestra; 8:35, Marie Sidinius Zendt, soprano; 9, WMAQ players.

WMBB, Chicago, III. (250m-1200kc), 7-8 p. m., Trianon duo; Eleanor Kaplan, violinist; Edwin House, barltone; Preston Graves, pianist; 9-11, Trianon orchestra; Dell Lampe; Woodlawn theater orchestra; Walter Kippa, Cecil and Esther Ward, Hawaiian guitar artists; Bille Allen Hoff; Kreuger and Delleon, banjoists; Ted and Ned, harmony duo.

WOAI, San Antonio, Texas (394.5m-760kc), 3 p. m., Radio Trades association concert; 8:30, army night program.

program. **WOAW**, **Omaha**, **Nebr**. (526m-570ke), 12:45 p. m. Phyllis Griswold, organist; 4:10, Felerman and Ab-bott.

Phyllis Griswold, organist; 4:10, Feierman and Abbott.

WOC, Davennort, la. (483.6m.620ko), 4-4:45 p. m., Helen Hughes and her Blackhawk hotel; 5:45-6, chimes; 9-9:30, Erwin Swindell, organist; 9:30-10:30, Augustana college.

WORD, Batawia, III. (275m-1090ke), 7-7:45 p. m., program, the North Shore Line; 7:45-8, "The Harp of God"; 9, Webster hotel trio, I. B. S. A. choral singers; 11-12, program.

WQJ, Chicago, III. (447.5m.670ke), 7-8 p. m., Rainbo Gardens orchestra; Dorothy Paxton, girl baritone; Jean St. Anne, baritone; Christlan A. Grimm, pianist; Jessie Pringle, pianist; Agnes Pringle, violinist; 10-1, Rainbo Skylarks; Melodians; Clarence Theders, tency Joe Warner, character songs; George Thurn, kazoo; Oxford girls; J. Edwin Peterson, bass; 1-2, Ginger hour.

hour.

WSAI, Cincinnati, Ohio (325.9m-920ke), 7:30 p. m.,
Davis Saxophone octet; 8, Ipana Troubadours; 10:15,
Congress Playing Card string quartet.

WSB, Atlanta, Ga. (428.3m-700ke), 10:45 p. m., Biltmore hotel orchestra.

wsb, Atlanta, da. (420.5mir-1000c), 10.30 p. m., 1710more hotel orchestra.

wsm, Nashville, Tenn. (282.8m-1060kc), 6:30 p. m.,
Francis Craig's orchestra; 7, WSM bedtime story; 8,
Mrs. Daisy Hoffman, pianist; Mrs. Robert Luck,
violinist; 10, Shriners.

wsmb, New Orleans, La. (319m-940kc), 9:30-12:30
p. m., Gallo instrumental quartet; Paul Jacobs quartet;

Francis Craig's orchestra; 7, WSM bedtime story; 8, Mrs. Daisy Hoffman, pianist; Mrs. Robert Luck, violinist; 10, Shriners.

WSMB, New Orleans, La. (319m-940kc), 9:30-12:30 p. m., Gallo instrumental quartet; Paul Jacobs quartet; solos.

WSOE. Milwaukce, Wis. (246m-1220kc), 5:30 p. m., twilight musical; children's stories; Olga LaBelle, pianist; "Candygram" entertainers; musical selections, John H. Brown, basso; Mary Helmlich, pianist; H. H. Hague, bartone; J. R. Hickman, one man band.

WSUI, lowa City, lowa (483.6m-620kc), 9 a. m., High School assembly program; 12:30 noon, music; 7:30 p. m., College of the Alr.

Mountain Time Stations

KOA, Denver, Colo. (322.4m-930kc), 12:15 p. m., Mariorie Nash, organist; 6:30, Brown Palace string orchestra; 8. Scheuerman's Colorado orchestra; 8:15, Pi Kappa Delta studio program, Colorado Teachers' college male quartet; Carl Crist, baritone; Alexander Emsile, bass; J. Allen Grubb, tenor; Dorothy Becker, soprano; instrumental solos, Editha Todd, Clarence James, violinist; Lester Todd, cellist; Clarence James, violinist; Lester Todd, cellist; Clarence James, violinist; Lester Todd, cellist; Louis Jones, Danist, four-violin ensemble, Edith Todd, Dorothy Milne, Myrna, Louise Snyder, Violet Finely; KOA orchestra; Colorado Teachers' college instrumental tric; 10-12, Broadmoor Rhythm Rustlers.

Pacific Time Stations

KFI, Los Angeles, Calif. (467m-642kc), 5:30-6 p. m., Oriole dance orchestra; 6, nightly doings; 6:15, KFI's Seeing California; 6:30, vest pocket program; 6:45, Radiotorial period; 7, Nick Harris' detective story; 7:20-8, dance music; 8-9, program, Ventura Refining company; Ventura string quartet; 9-10, program, Chevrolet Motor company, Chevrolet ensemble; 10-11, Patrick-Marsh dance orchestra, Betty Patrick, soloist.

KFON, Long Beach, Calif. (232.4m-1290kc), 6-6:30, p. m., Brayton's theater organ; 6:30-7, amusement information; 7-8, Lulu Burnham entertainers; 8-9, program, John Wright, The Right Tailor; John Wright orchestra. KFOM, Pross-Telegram studio; 9-10, program,

Baumgardt; 8:30-10:30, Oscar Seiling symphony orchestra.

KMTR, Hollywood, Calif. (238m-1260ke), 8-10 p. m.,
KMTR concert orchestra, Loren Powell, directing;
10-11, Starr Plano company studio.

Sunny Jim's talk; 5:30-6, Leighton's Areade cafeteria
orchestra; 6, Town Tattler; 6:15, travel talk, W. F.
KNX, Hollywood, Calif. (336.9m-890ko), 5-5:30 p. m.,
Alder; 6:30-7, Atwater Kent concert orchestra; 7-8,
feature program; 8-9, program, Security Trust and
Savings bank; 9-10, program, John A. Vaughn corporation; 10-11, dance music; 11-12, Ray West's Coccanut Grove dance orchestra from Ambasador hotel.
KOAC, Corvallis, Ore. (280.2m-1070kc), 7:20 p. m.,
musical selections.

KPO, San Francisce, Calif. (428.3m-700kc), 7, 7:30, 8
a. m., daily dozen exrecises; 12, scripture reading;
1-2, Rudy Seiger's Fairmont hotel orchestra; 2:303:30, program, James Lono's Hawaitans; 5:15-6:15,
children's hour stories; 6:40-7, Waldemar Lind and
the States Restaurant orchestra.

KWSC, Pullman, Wash. (348.6m-880kc), 7:30-9 p. m.,
Phi Epstlon steel guitar quartet; Vincent Hiden, cellist; Esther Olsen, reader.

Thursday, February 25

Headliners Today

Eastern Central Mountain 2 Pacific 5 p. m. 4 p. m. 3 p. m. 2 p. m. KYW (585.4m-560kc) Wendell Hall, Red-Headed Music 8:30 7:30 6:30 5:30 WBAP (475.9m-630kc) Harmony club. 8:45 7:45 6:45 5:45 WIP (508.2m-590kc) Institute of Musical Art.

NEWS BULLETINS

Daily Except Sunday

l amy made	the parties	. y
Eastern Central 9:45 a. m. 8:45 a. m.	Mountain 7:45 a.m.	Pacific 6:45 a. m.
KDKA (309.1m-970kc).	8	7
WGN (302,8m-990kc). 10:35 9:35	8:35	7:35
WCCO (416.4m-720kc).		
WOAI (394.5m-760kc).	9	8
12 n. 11 CFCA (356.9m-840kc);	10 77777 4 4000	9
KPRU (296.9m-1010kc).	.1m-9(0gc);
12:30 p. m. 11:30 WCAE (461.3m-650kc).		9:30
1 12 n	11	10
KGW (491.5m-610kc); F	XNX (336.9m	-890ke).
1:15 12:15 p. m. WOAI (394.5m-760kc).	11:15	10:15
3:45 2:45 WHAS (399.8m-750kc).	1:45 p. m.	12:45 p. m.
4 2	2	i
WCX (516.9m - 580kc).		
4:30 3:30 WCAE (461.3m-650kc);	2:30	1:30
6 (461.3m-650kc);	WEAA (475.	9m-630kc).
CFCA (356.9m-840kc).	4	3
6:30 5:30 WPG (299.8m-1000kc).	4:30	3:30
7 (255.8m-1000kc).	5	4
KOIL (278m-1080kc); W	OC (483,6m-6	20kc).
7:15 6:15	5.15	A . 45
WMAK (265.6m-1130kc);	WOAI (394.	5m-760ke).
WMBF (384.4m-780kc);	WMCA (340	7m-880kg)
9 8 WSAI (325.9m-920kc).	7	6
9:30 8:30	7:30	6:30
KPO (428.3m-700kc).		
KLX (508,2m-590kc),	8	7
10:45 9:45	8:45	7:45
WEBH (370.2m-810ke).	Sa the second se	
Sun	dav	1
Eastern Central		Decide
8 p. m. 7 p. m.		Pacific 5 p. m.
WMAK (265.6m-1130kc).		A 512 -110
8:15 7:15 WEBH (370.2m-810kc).	6:15	5:15
9 8	7	6
WPG (299.8m-1000kc).	10	

KYW, "The World Crier," broadcasts news every half hour from 8 a. m. to 2 a. m. Mountain Eastern Central Mountain Pacific 9 p. m. 8 p. m. 7 p. m. 6 p. m. KDKA (309.1m-970kc) Glee club, Tamburitza orchestra.

WBZ (333.1m-900kc) Second Anniversary program.

WJZ (454.3m-660kc), WGY (379.5m-790kc), Royal

KFWB (252m-1190kc).

WJZ (494.5III-00042), hour.

9:45
WMC (499.7m-690kc) Cortese ensemble, 10:15
STHS (374.8m-890kc) Spanish classics, 11
10
SGO (361.2m-830kc) "Richelieu," 5-act play, KHJ (495.2m-740kc) Collegiate night, KPO (428.3m-700kc) Radio Eight symphony, KYW (535.4m-580kc) Wendell Hall.

12
11
10
9
WGGO (252m-1190kc) At Home party. 12 11 10 WGCP (252m-1190kc) At Home party.

Thursday, silent night for: CHIC, CKNC, CNRA, CNRE, CNRO, CNRR, CNRT, CNRV, CNRW, KFAB, KFAU, KFDM, KFEQ, KFMX, KFOA, KFUO, KFVE, KFWA, KGW, KLX, KMOX, KOA, KOAC, KOB, KWSC, PWX, WABQ, WAFD, WAHG, WCAP, WCEE, WJDD, WEAO, WEBJ, WEBW, WHAD, WHAZ, WJJD, WOAI, WOR, WOS, WSM, WSUI, WTAM.

Eastern Time Stations

KDKA, Pittsburgh, Pa. (309.1m-970ke), 12:20 p. m.,
Trinity church lenten service; 6:30, KDKA Little
symphony orchestra; 8:30, Frederic Francois Chopin,
Richard Kountz, KDKA Little symphony orchestra;
9, American Croation glee club; Tamburita orchestra;
11. concert.

9, American Croation glee club; Tamburita orchestra; 1, concert, 1

Centennial Hour; 11, Parodians dance orchestra; 11:30, Club Cadiz revue.

WCX, Detroit, Mich. (516.9m-580kc), 6-7 p. m., dinner program, Goldkette ensemble; 8-9, program.

WEAF, New York, N. Y. (491.5m-610kc), 6:45-7:20 a. m., Tower health exercises to WEAF, WEEI, WCAP; 7:45-8:00 a. m., morning prayer services, Greater New York Federation of Churches; 11, Vivian Sherwood, contraito; 4 p. m., Riva Madannes, soprano, 4:15, Regina Besner, planist; 4:30, Edgar M. Cruen, bartione; 4:45, talk; 5, Vincent Lopez and his orchestra from Tea room of Ritz Carlton hotel; 6, dinner musice, Rose room of Hotel Waldorf-Astoria; 7, midweek hymn singing, Greater New York Federation of Churches; 7:30, the Smith Brothers; 8, the Larkinites, WEAF, WEEI, WGR, WWJ, WFI, WTAG, WOC, WCOO, KSD, WCAE, WEAR; 8:30, Hires Harvesters. WEAF, WEEI, WFI, WCAE, WIB, WSAI, WMJ, WTAG, WFI, WTAG, WFI, WCAE, WSAI, WEAR, WGR, WWJ, WTAG, WGR, WWJ, WTAG, WGR, WWJ, WTAG, WGC, WSAI, WEAF, WEEL, WJAR, WTAG, WGR, WWJ, WTAG, WCC, KSD, WGAF, WEEL, WJAR, WTI, WGR, WWJ, WTAG, WCC, KSD, WGAF, WCCO, KSD, WSAI, WADC; 11-12, Vincent Lopez and orchestra from Casa Lopez.

WEAO, Columbus, Ohlo (293.9m-1020kc), 1:15 p. m., WBASI, WADC; 10-10.1 [11.5]

WEAO, Columbus, Ohio (293.9m-1020ke), 1:15 p. m., M. Robert Coleman, pianist; 8:15, music; 10, Hotel Fort Hayes hour of music.

WEAR, Cleveland, Ohio (389.4m-770kc), 7 p. m., Hotel Statler concert orchestra, Maurice Spitalny; 8, Larkinstie Four, WEAF; 8:30, Workrite Radio artists; 9, Clicquot club, WEAF; 10, Vincent Percy organ recital, artists

Chequot club, WEAF; 10, Vincent Fercy organ rectial, artists.

WEEI, Boston, Mass. (348.6m-860ke), 6:45 a. m., health exercises; 3 p. m., Lou Klayman and his orchestra; 4, 8t. Regis orchestra; 5:30, Harry Marshad and his orchestra; 6:45, Big Brother club; 7:30, Gevot Monteith soprano; 8, Larkinites, WEAF; 8:30, Hire's Vovageurs, WEAF; 9, Clicquot club entertainers, WEAF; 10, Silvertown Cord orchestra.

WFI, Philadelphia, Pa., (394.5m-700ke), 1 p. m., luncheon, Penna. Council of Republican Women, Nicholas Longworth, speaker of the U. S. Senate, principal

KGO PLAYERS TO GIVE "RICHELIEU"

Thursday, February 25

speaker; 6:30, Bellevue Stratford concert orchestra; 7, Bellevue dance orchestra, club program, direction Modern Club of Philadelphia; 8, The Larkinites; 8:30, Hires' Harvesters; 9, Clicquot Club Eskimos; 10, Goodrich Silvertown Cord orchestra.

WGBS, New York, N. Y. (315.8m-950kc), 1:30 p. m., Ramblers trio; 3, Prudence Penny's N. Y. American, Women in the Home; 3:15, hour with Renee Schilmmell; 6, Uncle Geebee; 6:30, Ferner-Stark orchestra; 6:40, Arthur Murray; 7, The Independent Magazine; 7:30, Ruth Maschke, soprano; 7:40, Erna Korn, contraito; 7:50 p. m., Irving Argay, concert violin; 8:30 Ollver Sayler, book and play review; 9, Crystal Palace orchestra; 9:30, Old Time Minstrels; 10:30, Vanderbilt hotel orchestra.

WGCP, New York, N. Y. (252m-1190kc), 3 p. m., Elvira Rosa Geiger, planist; 3:20, Osborne and Tucker; 3:45, Davis and Gallasi; 4:45, Ernest Helm, violinist; Charlotte Solisburg, singer; 5:10, Sylvia Schatz, pianist; 10:30, Irving Feistenberg, pianist; 11, Piotti and Val, songs; 11:30, Strickland's orchestra; 12, at home party.

WGHB, Clearwater, Fla. (266m-1130kc), 6:30-7:30

party.

WGHB, Clearwater, Fla. (266m-1130kc), 6:30-7:30
p. m., dinner music; 8:30-9:30, Bill Ewin, tenor;
L. W. Joy, accompanist; 11:45-1 a. m., Radio Ramblers midnight frolic.

WGHP, Detroit, Mich. (270m-1110kc), 6-7 p. m., dinner concert, Hotel Tuller; 7:40-7:50, children's evening chat; 10-11, Skylark dance band and entertainers; 11-12, frolickers; 12-1 a. m., Gerald Marks and his orchestra.

11-12, frolickers; 12-1 a, m., Gerald Marks and his orchestra.

WGR, Buffalo, N. Y. (319m-940kc), 2:30 p. m., WGR's afternoon program; 6:30, Vincent Lopez Hotel Statler dance orchestra, Harold Gieser, director; 8, jointly with WEAF, the Larkinites; 9, jointly with WEAF, Clicquot Club E ski m os and the Silvertown Cord orchestra.

WGY, Schenectady, N. Y. (379.5m-790kc), 6:30 p. m., Ten Eyck concert trio; 7:45, Syracuse university program; 9, Royal hour, WJZ; 10, WGY orchestra; Marle Bernstein, soprano; 11:30, Stephen E. Boisclair, organist.

ganist.
WHAR, Atlantic City, N. J. (275m-1090ke), 2 p. m., Seaside hotel trio; 7:30, lecture period; 8, Seaside hotel trio; 9, studio concert; 11:30, dance orchestra.
WHN, New York City, N. Y. (361.2m-830ke), 12:30-1 p. m., Lexington organ recital; 3:15-4:30, Lexington orchestra; Treasure land neighbors; 7, Iceland orchestra; 8, Will Oakland's Chateau Shanley; 10:30, Kentucky club orchestra; 11, 30 e Ward's Swanee entertainers; 11:30, Everglades orchestra; 12, Parody club orchestra

tanner; 11:30, Everglaues orchestra; 12, Parody club orchestra.

**PP, Philadelphia, Pa., (508.2m-590kc), 6:45 a. m., setting-up exercises; 7, setting-up exercises; 1 p. m., Gimbel tea room orchestra; 3, Albert Mahler, tenor; Charles Friedin, violin and saxophone; Langdon Stewart, pianist, Flora Ripka, accompanist; 6:05, Pagoda cafo orchestra; 7, Uncle Wip's bedtime stories; Dennis Sullivan, whistler; 8, "The Sesqui-Centemnial," talk by Harry A. Mackey; 8:15, United Synagogue radio service; 8:45, recital, Institute of Musical Art, Ben Stad, director; 10:15, Nelson Napes and his S. S. Leviathan orchestra.

director; 10:15, Nelson Napes and his S. S. Leviathan orchestra.

WIAX, Jacksonville, Fla. (336.9m-890kc), 3:30 p. m., Hemming Park band concert, Vessella's band, Oreste Vessella, conductor; 7:30, music memory contest; 8-9, classical recital; 11-12, popular program.

WIR, Pontiac, Mich. (516.9m-580kc), 7 p. m., Jean Goldkette's Symphony orchestra; soloists; 9, Jean Goldkette's syernaders; soloists; 10, Jean Goldkette's Victor Recording orchestra.

WKAQ, San Juan, P. R. (340.7m-880kc), 6-8 p. m., Riaito theater musicale.

WLIT, Philadelphia, Pa., (394.5m-760kc), 12:02 p. m. daily almanac; Stanley theater organ recital; Arcadia cafe concert orchestra; 2, Arcadia cafe concert orchestra; 2, Arcadia cafe concert orchestra; 4:30, recital; 7:30, Dream Daddy's bedtime stories.

stories.

WLWL, New York, N. Y. (288.3m-1040kc), 9:00 p. m., book, Rev. Jos. McGorley; 9:15, Rhea Leddy and William Flusk; 9:30, question box; 10:00, Rhea Leddy and William Flusk; WMAK, Buffalo, N. Y. (266m-1130kc), 6:15-7:15 p. m., dinner music

liam Flusk; 9:30, question box; 10:00, Rhea Leddy and William Flusk.
WMAK, Buffalo, N. Y. (266m-1130ke), 6:15-7:15 p. m., dinner music.
WMBK, Buffalo, N. Y. (266m-1130ke), 6:15-7:15 p. m., dinner music.
WMBF, Miami Beach, Fla. (384.4m-780kc), 7-9 p. m., Fleetwood Radio orchestra; 10-1 a. m., Gene Fosdick and his orchestra; Fleetwood Radio orchestra.
WMCA, New York City, N. Y. (340.7m-880kc), 6 p. m., Olcott Vail and his Hotel McAlpin string ensemble; 6:30, Woodmansten Inn orchestra; 7, Jack Denny's orchestra; 7:30, Pace Institute program; 7:45, Tyrrell health talk; 8, Snedden Weir, baritone; 10:30, Jack Smith, whispering baritone; 11, Ernie Golden and his Hotel McAlpin orchestra; 12 mid, Broadway night, WNYC, New York, N. Y. (526m-570kc), 7 p. m., market high spots; 7:10, dance program; 7:35, A. Wayne, popular songs; 7:45, dance program; 8:30, German Irving Place theater ensemble; 9:30, Instrumental trio. WOO, Philadelphia, Pa. (568.2m-590kc), 11 a. m., organ recital; 12:30 p. m., Golden's crystal tea room orchestra; 4:45, organ recital; 7:30, Adelphia dance orchestra.
WPG, Atlantic City, N. J. (299.8m-1000kc), 1:30 p. m., Hotel Morton luncheon music; 4:30, Chalfonte-Haddon Hall afternoon tea music; 6:45, Arthur Scott Brook, organist; 7, Hotel Ambassador dinner music; 8:15 concert, Atlantic City Beard of Education; Royal P. MacLellan, tenor; Marushka Konrad, pianlst; 10, Atlantic City Estates dance orchestra; 11, Eddle McKnight's dance orchestra. WRC, Washington, D. C. (468m-640kc), 12 noon, organ recital; 12:30, Lenten services, Keith's theater; 1 p. m., Hotel Mayflower orchestra, Arsenio Ralon, director; 7, New Willard hotel orchestra, Samuel Korman, director; 8, concert, U. S. Army band, Capt. Wm. J. Stannard, WJZ; 8:30, Radio-movie presentation; WJZ; 9, Royal Salon orchestra, WJZ; 10:15, The Record Boys, WJZ; 10:30, Meyer Davis' Swanee orchestra; 11:30, organ recital, Otto F. Beck.
WREO, Lansing, Mich. (235.5m-1050kc), 6-7 p. m., Speed-Wagon serenaders; Gold Standard ensemble; 8:15, Reo Broadcasting orchest

cert; 8, concert, WEAF.

Central Time Stations

CKY, Winnipeg, Can. (384.4m-780kc), 10 p. m., dance program, Cliff Menzies and his collegians.

KFKX, Hastings, Nebr. (288.3m-1040kc), 5:30 p. m., dinner concert relay, KDKA; 7:30, musical program.

KFNF, Shenandah, ia. (263m-1140kc), 7 p. m., old-

dinner concert relay, KDKA; 7:30, musical program. KFNF. Shenandoah, la. (263m-140ke), 7 p. m., old-time fiddling, Dearborn, Mo., Ed. Sanders, director. KMOX, St. Louis, Mo. (260.cm-1070ke), 12:30 p. m., orran recital, Arthur L. Utt; 3, string ensemble music with soloists; Mrs. James Burgin, violinist; 4, string ensemble music with soloists. KOIL, Council Bluffs, la. (276m-1080ke), 6:30 p. m., Art Marr's Imperial dance orchestra; regular dinner program; 7:30, program; Time Girl, Bernice Clizbe, conductor; 7:30, program, The Omaha Conservatory of Music; 11, hotsy-totsy hour; Al Reese and his Broadway orchestra.

way orchestra.

KPRC, Houston, Tex. (296.9m-1010kc), 12 noon, Optimists' club luncheon program, Jerry Mitchell, president; 5:30 p. m., Uncle Judd's kiddies' hour; 7:30, Elanchard's dance orchestra; 8:30, Aeolian string quartet, Cedric Seaver, conductor; 9, Mr. and Mrs.

H. T. Huffmaster, baritone and dramatic soprano.

KSD, St. Louis, Mo. (545.1m-550kc), 6:55 p. m., WEAF chain; 7:30, Esmeralda Berry Mayes, pianist; 8,

wear chain; 7:30, Esmeralda Berry Mayos, Mantas, o, WEAF chain.

KTHS, Hot Springs National Park, Ark. (374.8m-800kc), 9-9:15 p. m., Eastman hotel string quartet; 9:15-9:40, Spanish classics, Eastman Eight, Jack Lube, director; 9:45-10:15, New Arlington hotel dance orchestra, Lon Chassy, director; 10:15-10:45, plano specialties, Elmer Menard.

Menard.

KWWG, Brownsville, Texas (278m-1080kc), 12 noon, music; 8:30 p. m., classical program; E. C. Toothman, baritone; Mrs. Harry Faulk; Juanita Boory and the Skipper; John Callahan, cornet solos; Mrs. Kowalski, pianist.

WCBD, Zien, III. (344.6m-870ke), 8 p. m., Mr. Barton, Mrs. Thomas; Mark Whiteside, baritone; Mrs. J. D. Thomas, soprano; M. P. Bartone, tenor.
WCCO, Minneapolis-St. Paul, Minn. (416.4m-720ke), 12 m., concert, Donaldson's orchestra; 2, among the musidians, H. A. Bellows; 4, readers' club, Eleanor Poehler; 5:30, children's hour; 7, program, WEAF, The Larkinites; 7:30, musical program; 8, program, WEAF; 8-9, Clicquot Club Eskimos; 9-10, Goodrich Silvertown Cord orchestra; 10:20, dance program, Emmet Long's Golden Pheasant orchestra.
WDAF, Kansas City, Mo. (365.6m-820ke), 3:30-4:30 p. m., the Star's string orchestra; 8-7, the Tell-mea-story-lady; The Trianon ensemble; 11:45-1, Ted

EDUCATIONAL FEATURES

Saturday, February 20 Eastern Central Mountain Paeifie 7:30 p. m. 6:30 p. m. 5:30 p. m. 4:30 p. m. WHAR (275m-1090ke) Lecture period 8:15 7:15 6:15 5:15 KOIL (278m-1080ke) Educational period, University of Omaha.

Monday, February 22

Eastern Central Mountain Pacific 7 p. m. 6 p. m. 5 p. m. 4 p. m. WEAF (491.5m-610kc) Columbia university lecture. 7:15 6:15 5:15 4:15 KOIL (278m-1080kc) Educational period, Mae Larson.

son. 7:30 6:30 5:30 KSAC (340.7m-880kc) Sociology.

7:30 6:30 5:30 4:36
KSAC (340.7m-880kc) Sociology.
8 6 5
KFKU (275m-1040kc) "Business Cycles," Prof. E. L. Dade.
KFRU (499.7m-600kc) "What, Why and How in Regard to Color."
8:30 7:30 6:30 5:36
WSUI (483.6m-620kc) College of the Air.
WNAD (254m-1180kc) "Business Fluctuations," Prof. W. A. Willibrand.
8:50 7:50 6:50 5:50
WNAD (254m-1180kc) "Curiosities of Memory," Dean W. W. Phelan.
9 8 7
CKY (384.4m-780kc) University lecture.
WMCA (340.7m-880kc) Christian Science lecture.
9:35 8:35
KSL (299.8m-1000kc) "The Story of the University of Utah," Prof. Levi Edgar Young.
10 9 8 7
KOA (322.4m-930kc) Spanish lesson.
10:30 9:30 8:30 7:30
KWSC (348.6m-880kc) "Psychology of Efficiency"."

KOA (322.4m-930kc) Spanish lesson.
10:30 8:30 7:30
KWSC (348.6m:30 8:30 7:30
KWSC (348.6m:30 "Psychology of Efficiency,"
Dr. F. F. Nalder.
11 10 8 8
KGO (361.2m-830kc) "Better English," Wilda
Wilson Church; "The New and Old in the
Reconstruction," Dr. Willard Smith.
KOA (322.4m-930kc) Voice culture.

Tuesday, February 23

Eastern Central Mountain 2:10 p. m. 4:10 p. m. 3:10 p. m. 2:10 p. m. 2:10 p. m. WLW (422.3m-710kc) French Iesson, Madame Ida Teimpidis. 6 5 4

WKAR (285.5m-1050kc) Nature study. WLW (422.3m-710kc) Historical appreciation of music, Etelka Evans. 7:10 6:10 WEAF (491.5m-610kc) French course. WRC (468.5m-640kc) Radio school of international relations. 7:20 6:20 5:20

7.30 (340.7m-880kc) Better speech, etiquette, economics.
7.50 (5.50 (5.50 4.50 M)
WLW (422.3m-710kc) "Great Smokey Mountains,"
Al Brown.
8.15 (5.15 KDKA (309.1m-970kc)
Dr. Rohrback.
8.30 7.30 (5.30 5.30
WNAD (254m-1180kc) "Relation of Automotive Transportation to the Railroad Problem," Dr. Floyd L. Vaughan.
8.50 7.50 (5.50 5.50
WNAD (254m-1180kc) "Asphalt," Dr. Charles N. Gould.
9:05 8:05 7.05 6:05
KFAB (340.7m-880kc) "Great Smokey Mountains,"
MNAD (254m-1180kc) "British and American Folk Songs," Dr. J. H. Combs.
9:20 8:20 7:20 6:20
WNAD (254m-1180kc) "British and American Folk Songs," Dr. J. H. Combs.
9:30 8:30 7:30 6:30
WNAD (254m-1180kc) "What Are X-rays?" Prof. H. C. Roys.
10 9 8 7
WOC (483.6m-620kc) Travel lecture, "Around the World in Eight Months in Eight Nights," B. J. Palmer.
10:15 KFVE (240m-1250kc) "Good English and Rhetoric," Prof. Adolphus Watts.

Wednesday, February 24

Eastern Contral Mountain Pacific
4 p. m. 3 p. m. 2 p. m. 1 p. m.
KFAB (340.7m-880kc) English lecture on the Book
of Job, for credit.
6 CG (361.2m-830kc) Speaker from Williams institute. 6:30 5:30 4:30 3:30 WNYC (526m-570kc) Spanish lesson, V. H. Ber-

hitz.
7
KSAC (340.7m-880kc) Journalism; "Maintenance of Dirt Roads," L. M. Martin; "The Function of the Architect," Paul Weigel.
WMAQ (447.5m-670kc) Lecture, Northwestern uni-

WMLAQ (447.5m-670kc) Lecture, Northwestern university, 6:30 5:30 4:30 WBZ (333.1m-900kc) Radio nature league, Thornton W. Burgess.
WMCA (340.7m-880kc) Prof. Cortina's Spanish lesson.

Central Mountain 7:45 p. m. 6:45 p. m. 5:45 p. m. 4:45 p. m. WTAG (268m-1120kc) Spanish lesson, Mrs. John de la Parra.

8 7 6 5 WEAO (293.9m-1020kc) "How to Persuade," Hayes

Yoager.

3:10

WNAD
(254m-1T80kc)
Dr. E. Dale.

8:15

KDKA
(309.1m-970kc)
History
Will Chemistry
Lead Us?' Prof. Alexander Silverman.

8:20

WMCA
(340.7m-880kc)
Talk on securities.
WNAD
(254m-1180kc)
Wassler
Wassler
Wolfer
Wolfer
Wolfer
Wolfer
Will Chemistry
Silverman.

6:20

5:20

WMCA
(340.7m-880kc)
Talk on securities.
WNAD
(254m-1180kc)
Wolfer
Wol

Hassler.

8:30 7:30 6:30 5:30

WSUI (488.6m-620kc) College of the Air.
8:45 7:45 6:45 5:45

WTAG (268m-1120kc) Spanish lesson, Mrs. John
de la Parra.
9:10 8:10 7:10 6:10

WNAD (254m-1180kc) "Historietas Espanolas"
(Spanish Anecdotes), Prof. Patricto Gimeno.
9:35 8:35 7:35

KSL (299.8m-1000kc)
Dr. W. D. Bonner.
10 9 8 7

10 9 8 7 WSOE (246m-1220kc) "Contacts"; "Electrospect." WSOE (240m-1220ke) "Contacts"; "Electrospect." [0:30 9:30 8:30 7:30 KWSC (348.6m-860kc) "What Is a Mechanical Engineer?" Prof. E. B. Parker. [1] 10 9 8 KHJ (405.2m-740kc) Scientific lecture, Dr. Mars Raumgardt.

Baumgardt, WSAI (325.9m-920ke) University of Cincinnati.

Thursday, February 25 Eastern Central Mountain Pacific 7:15 p.m. 6:15 p.m. 5:15 p.m. 4:15 p.m. KOIL (278m-1080kc) Educational period, Public Library.

tibrary. 7:30 6:30 5:30 4:30 KSAC (340.7m-880ke) Music, educational psychology; "Old Houses for New," Maria Morris; "The Government and the Rural Home," Amy Kelly. 7:45

7:45 6:45 5:45 4:45
WJAR (305.9m-980kc) Nature talk, W. L. Bryant.

8 7 6 5
KFKU (275m-1040kc) "The History of Metals,"
Prof. E. D. Kinney.

Prof. E. D. Kinney.
3:16 7:10
KNAD (254m-1180kc) "Functions of the Bank and Life Insurance," Prof. I. J. Sollenberger.
3:30 KEAO (293.97-30 6:30 Physics lecture.
WNAD (254m-1180kc) "Business Fluctuations," B:50 7:50 6:50 5:50

8:50 7:50 6:50 5:50 WNAD (254m-1180kc) "Electrical Marvels," F. G. Tappan.

G. Tappan.

9

KFMQ (299.88-1000kc) "The Starry Heavens,"
A. M. Harding; "Economic and Social Aspects of Rural Health," J. A. Dickey;; "Safety in the Household," D. G. Carter; "The Poets of This Generation," V. L. Jones; "Old Foods Through New Eyes," J. W. Read; "Interviewing the Employee," G. C. Tracker.

9:10

8:10

8:10

7:10

8:10

8:10

8:10

8:10

8:10

8:10

NNAD (254m-1180kc) "Berichte aus Deutschland" (News from Germany), Prof. W. A. Willibrand.

Friday, February 26

Eastern Central Mountain Pacific 14 p. m. 3 p. m. 2 p. m. 1 p. m. KFAB (340.7m-880kc) Science lectures. 5 4 WMAQ (447.5m-670kc) Talk, "The Child."

5:30 4:30 3:30 2:30 KSAC (340.7m-880kc) Lessons in color and design. 6:30 5:30 4:30 3:30 WNYC (526m-570kc) French lesson.

7:30 6:30 4:30 4:30
WBZ (333.1m-900ke) "Appreciation of Music,"
Prof. John A. O'Shea.
KSAC (340.7m-880ke) Travelogue.
7:35 6:35 5:35 4:35
WGY (379.5m-790ke) "French by Radio," Leon
A. Huguemont.
8 7 6 5

8 7 6 5 WPG (299.8m-1000kc) Educational series.

8:15 7:15 6:15 5:15 WOR (405.2m-740kc) "Words Often Mispro-nounced."

WOR (495,2m-749Re) "Words Often Anispronounced."
9:35 8:35 7:35 6:35
KSL (299.Sm-1000kc) "The Story of the Colorado
River Basin," Dr. F. J. Pack.
16:15 9:15 8:15
KFVE (240m-1250kc) "Good English and Rhetoric," Prof. Adolphus Watts.
10:30 9:30 8:30 7:30
KWSC (348,6m-860kc) "Geology of the Northwest," Dr. H. E. Culver.
WOC (483,6m-620kc) Travel lecture.
10:55 9:55 8:55 7:55
KOAC (280.2m-1070kc) "Composition of the Earth
—The Old Conception," D. C. Livingston.

KYW, Chicage, III. (535.4m-560ke), 12:05 p. m., Congress hotel orchestra; 1, luncheon concert; 2:35-4, afternoon frolic; 6, dinner music, KDKA; 8:20, musical program; 9, an hour of music; 10-11:30, evening at home; 1-2. Insomnia club.

WBAP, Fort Worth Tex. (475.9m-630ke), 12:05-12:30 p. m., Ward's Trail Blazers; 6-6:30, Chief Gonzales, Texas Hotel Royals; 7:30-8:30, Fort Worth Harmony club; 9:30-11, American Institute of Banking; 11-12, Pantages theater.

WBBM, Chicago, III. (226m-1330ke), 4-6 n. m., Sandy

club; 9:30-11, American Institute of Banking; 11-12, Pantages theater.

WBBM, Chicago, III. (226m-1330ke), 4-6 p. m., Sandy and Harry; Valentino Inn orchestra; William Datton, baritone; Irene Beasley; Sidney Nireman; Russell Meyers; Jack Pennewell and Freddy Palmiter; 8-10, Ziegler sisters; Moulin Rouge orchestra; Two Jays; Charlie Garland; Brewers' Zig Zag trio; Maurice Silverman; Pauline Stiffler Atlass, violinist; Floyd Falch; 10-12, Harry and Sandy; Mouln Rouge orchestra; Harry Brailsford, mandolin; Pearl Jarret, pianologuos; Fred Jacobson; Moulin Rouge cafe stars.

WCAL, Northfield, Minn. (336.9m-890kc), 9 p. m., program, Norwegian Lutheran church.

Weem's Victor Recording orchestra; Ted Meyn, organist; Billy Adair's orchestra.

WEBH, Chicago, III. (370.2m-310ke), 7 p. m., Oriole orchestra; 3, special recital; 9, Oriole orchestra; 9:45, Belle Forbes Cutter, soprano; Ruth Buhl Flick, reader; 11, Oriole orchestra; 12:30, Belle Forbes Cutter, soprano; Ruth Buhl Flick, reader; Rita Mc-Fawn, Mary Bieber.

WGES, Chicago, III. (250m-1200kc), 5-7 p. m., pipe organ, plano. bass and tenor solos; 8-9, orchestra, vocal, nine

WGES, Chicago, III. (250m-1200kc), 5-7 p. m., pipe organ, piano, bass and tenor solos; 8-9, orchestra, vocal, pipe organ selections; one-act playlet; 11-1 a. m., Coyne Serenaders, artisks, features.

WGN, Chicago, III. (302.8m-990kc), 10-10:15 a. m., good health period; 10:15-10:45 entertainment for shut-ins; 11-11:30, morning organ concert, Chicago theater, Dean Fossler; 12:01-12:30, Iuncheon concert music; 2:30-3, Lyon & Healty artist rectial; 3:20, Fort o' Missing Men; 3:30-4:15, tea time music; 4:30-5, organ rectial, Edward Benedict; 5:30-5:57, Skeezix time; 6:30-6-43, dinner concert music; 6:45-7, old-time favorite songs; 8-9, Chicquot Club Eskimos;

9-10, Silvertown Cord orchestra; 10-10:10, "Sam 'n' Henry," Radio comic strip; 10:10-10:15, old-time favorite songs; 10:15-11, dance music; songs, Correll and Gosden, Freda Leonard and Jewell Barnett. WGST, Atlanta, Ga. (270m-1110kc), 7-8 p. m., Mrs. Samuels L. Metcarlf, mezzo-soprano.
WHAS, Louisville, Ky. (399.3m-750kc), 1-2 p. m., Benson trio; 3-3:30, Mrs. Myrtle Fulks Zahn, Jr., organist; 4-5, Music Box concert; 7:30-9, Zeta Chapter, Delta Omicron National Musical sorority, Angeline McCrocklin, director.
WHB, Kansas City, Mo. (365.6m-820kc), 7-7:50 p. m., dinner hour organ concert, Linwood theater; 8-9, Edith Gregg and her King Joy Low Syncopators; 9-10, string quartet.

Gregg and her King Joy Low Syncopators; 9-10, string quartet.

WHO, Des Moines, Iowa. (526m-570ke), 7:30-8 p. m., Raleigh quintet; 8-9, Bankers Life trio; 11-12, Bankers Life Corn Sugar orchestra.

WHO, Chicago, III. (226m-1330kc), 2-4 p. m., Shut-in program; Ted Fiorito, pianist; Dan Russo, violinist; Marie Tully, soprano; Wayne Meyers, reader; Hieky and Johnson, guitarists; Dorothy Davie Dillow, soprano; 6-8, dinner concert; songs made famous by John McCormack, Walter Preston; Helen Snyder, soprano; Harriet Hebert, contralto; William Molnaire, tenor; string trio; Chester Newman, baritone; Swedish program; 12 midnight, jamboree; Ted Fiorito, pianist; Dan Russo, violinist; Marie Tully, soprano; Wayne Mcyers, reader; Henry Davis; Erwin Cornelius, uke soloist; Jack Goodman.

MyAZ, Chieago, III. (322.4m-930kc), 10 p. m., "H. M. S. Pinafore," Zenith Opera company.

WIJD, Mooseheart, III. (372.2m-816kc), 12-1 p. m., Palmer house symphonic players; Palmer house trio; 2-3, Howard L. Peterson, organist; 4-5, music, childen; daily assembly of 1250 children; 5:30-7, Jack Nelson; Palmer house symphonic players; Howard L. Peterson, organist; Palmer house Victorians; 12:30, Garod studio; Palmer house Victorians; 12:30, Garod studio; Palmer house Victorians; 12:30, Garod studio; Palmer house Victorians; 12:30, Mercian McCornel descriptions.

Peterson, organist; Palmer house Victorians; 8-9, music, children; 10-11, Garod studio; Palmer house Victorians; 12:30, MKRC, Cincinnati, Ohio (422.3m-710kc), 10 p. m., Marion McKay and his orchestra. WLIB, Chicago, III, Marion McKay and his orchestra. WLIB, Chicago, III, Marion McKay and his orchestra. WLIB, Chicago, III, G30.26m-990ko), 7-7:30 p. m., musical program; 7:30-8, Hire's Harvesters; 11-1 a. m., dance music; so ng s, Correll and Gosden. Hawaiian guitar music, Langdon Brothers. WLS, Chicago, III, G34.66m-870ke), 6 p. m., WLS trio; 6:49, Ralph Emerson, organist; 7, Iullaby time; 7:20, "Common Sense in Music," Dr. Spach, WLW, Cincinnati, Ohio (422.3m-710kc), 7:30 a. m., healthful excersises, William Stradtman, physical department Y. M. C. A.; 12:05 p. m., organ concert, Midred Prigge; 12:30, health talk, Dr. Carl A. Wilzbach, executive secretary Central Y. M. C. A.; 12:40, song, Russell (Red) Green, lyric tenor; 4, plano recital, Adelaide Apfel; 6-8:30, Golden Jubilee class 1917. Scottish Rite reunion, hotel Gibson; 10, three minute message, U. S. Civil Service department; 10, popular concert, Doherty Melody Boys, dedicated to Crosley Jobbers in the state of Alabama; 11, the Musicone male quartet; 11:15, popular dance music, Castle farm; 11:30, popular planist, Clarence Berger; 12:15, Night Howls, Crosley Sky Terriers.
WMAQ, Chicago, III, (447.5m-670kc), 1 p. m., Advertising council; 2, shut-in program; 4, fillinois Federation of Women's clubs program; 4:45, pupils, Kindred Arts school; 5:15, Topsy Turvy time; 6, Chicago theater program; 6:30, Hotel LaSalle orchestra; 9:20, program, Catherine Bly Utesch, director.
WMC, Memphis, Tenn. (499.7m-600kc), 8:45, p. m., Cortese ensemble.
WOAW,

his Omadala ofenestra; 12 mianignt, night waterimen jubillee.

WOC. Davenport, Ia. (483.6m-620kc), 5:45-6 p. m., chimes; 7-7:30. Larkinites, WEAF; 7:30-8, Plow Boys' quartet; 8-9, Cliequot Club Eskimos; 9-10, Goodrich Silvertown Cord orchestra; 11-12, LeClaire hotel orchestra; Peter MacArthur, bartione.

WORD, Batavia, III. (275m-1090kc), 8 p. m., Webster hotel concert trio; 8:15, international Sunday school lesson; 8:30, recital, Cosmopolitan school of Music.

WQI, Chicago, III. (447.5m-670kc), 7-8 p. m., Boston store concert trio; Clement Laskowski, tenor; 10-1, Rainbo Skylarks; Jean Carlson, soprano; Sidney Schneider, whistier; Jerry Sullivan; Rose Vanderbosch, soprano; Hal Lansing, ukulele soloist; Lew Butler, Giant of Radio Sidney Lachman, tenor; Bert Davis, Clown of the Air; Marie Pollitt; 1-2, Ginger hour.

WSAI, Cincinnati, Ohio (325.9m-920kc), 7 p. m., program; 7:30, Hires Harvesters; 8, Clisquot Club Eskimos; 9, Silvertown Cord orchestra, Joseph Knecht, director.

WSR Atlanta. Ga. (428.3m-700kc), 8 p. m., Allen

director.

WSB, Atlanta, Ga. (428.3m-700ke), 8 p. m., Allen
Nicholson union; 10:45, Dr. Charles A. Sheldon, Jr.,

director.

WSB, Atlanta, Ga. (428.3m-700ke), 8 p. m., Allen Nicholson union; 10:45, Dr. Charles A. Sheldon, Jr., organist.

WSMB, New Orleans, La. (319m-940ke), 9:30-11:30 p. m., Owls orchestra, Radio Revelers' orchestra; Liberty theater.

WSUI, lowa City, la. (483.6m-620ke), 12:30 p. m., Mrs. Preston C. Coast, organist.

Mountain Time Stations

CNRC, Calgary, Can. (435.6m-620ke), 12:30 p. m., descriptional Raliways' orchestra, Gladys Webb Foster, director; A. N. Ledger, soprano; Fred Carleton baritona. KFXF, Celorado Springs, Colo. (250m-1200ke), 8:30-19:30 p. m., Mrs. Maude Sanders Faust, planist; Mrs. Daniel Thatcher, violinist; Mrs. Edward S. Zell, vocalist; George H. Hemus, bass. KOA, Denver, Cola. (322.4m-930ke), 12:15 p. m., Rialto theater organ; 6:30, Brown Palace string orchestra.

Pacific Time Stations

KF1, Los Angeles, Calif. (467m-642ke), 5:30-6 p. m., Norman Harvey's orchestra: 6, nightly doings; 6:15, KFI's Seeing California; 6:30, vest pocket program; 6:45, Radiotorial period; 7-8, program by students, University of Southern California; 8-3, Packard St, Gance orchestra; 9-10, program, Chickering hall; 10-11, popular song program.

KFON. Long Beach, Calif. (232.4m-1290ke), 6-6:30 p. m., Brayton's theater organ; 6:30-7, amusement information; 7-7:30, Moonlight serenaders; 7:30-8, Long Beach Municipal band; 8, book chat; 8:15-9, Municipal band; 9-9:30, program. Hird Typewriter company; 9:30-11, Studio program.

KFWB, Hollywood, Calif. (252m-1190ke), 8-9 p. m., Le Roy Kulberg and his banjo; Bill Blake, tenor; Hy Kasch and his dance orchestra, Lou Parker, ballads; 9-10, program, Don P. Smith, Inc., Diana-Moon dance or che es tra, Sol Hoopil's Hawalians, Ashley Sisters; 10-11, Warner Brothers froite, direction Charlie Wellman with Charley Ilch and his Sunset Canyon Country club dance orchestra.

KGO, Oakland, Calif. (361.2m-330kc), 7:15-7:30 a. m., health exercises; 7:45, Pep class; 8:15-8:30, exercises; 11:30-1, p. m., luncheon concert; 4:5:30, Hotel St. Francis concert orchestra, Vinton LaFerrera, c

concert.

KHJ, Los Angeles, Calif. (405.2m-740kc), 6:30-7:30 p. m., concert.

KHJ, Los Angeles, Calif. (405.2m-740kc), 6:30-7:30 p. m., history story, Prof. Hertzog; Dickie Brandon, screen starlet; Joyce Coad and Uncle John; 8-10, program, Frank Meline company, collegiate night.

KMTR, Hollywood, Calif. (328m-1260kc), 5-6 p. m., home hour with Mammy Simmons and pupils of Carter Weaver; 6-7. Starr Piano company studio; 7:30, Auction by Bertie D. Hilands; 8-10, KMTR concert orchestra, toren Powell, director; Canadian male quartet.

KNX. Hollywood, Calif. (336.9m-890kc), 5-5:30 p. m., Sunny Jim's talk; 5:30-6, Leighton's Arcade cafeteria orchestra; 6, Town Tattler; 6:15, travel talk, W. F. Alder; 6:30-7, Atwater Kent concert orchestra; 7-8,

ORIENTAL PROGRAM FRIDAY AT WFI

Thursday, February 25

program, H. L. Crockett featuring Ilya Bronson, concert cellist; 8-9, program, Willys Overland dealers; 9-10, KNX feature program; 10-11, dance music; 11-12, Ray West's Cocoanut Grove dance orchestra from Ambassador hotel.

from Ambassador hotel.

KPO, San Francisco, Calif. (428.3m-700kc), 7, 7:30, 8
a. m., dally dozen exercises; 1-2 p. m., Rudy Seiger's
Fairmont houel orchestra; 2:30-3:30, matinee program;
3:30-4:30, Cyrus Trobbe's Palace hotel concert orchestra; 5:15-6:15, children's hour stories; 6:40-7,
Waldemar Lind and the States Restaurant orchestra;
7-7:30, Rudy Seiger's Fairmont hotel orchestra; 8-9,
program, Radio Eight symphony orchestra; 9-10, program; 10-11, Jack Coakley's Cabirians.

KWSC, Puliman, Wash. (348.6m-880kc), 7:30 p. m., Oregon Agricultural college vs. Washington State col-lege basketball game.

Friday, February 26

| Headliners Today | Restern | Central | Mountain | Pacific | 3p. m. | 2 p. m. | 1 p. m. | 12 noon | WFI (394.5m-760kc) Oriental program, fairy tales,
 songs.
 7
 6
 5 p. m.

 8
 7
 6
 5 p. m.

 8:15
 7:15
 6:15
 5:15

 WGY (379.5m-790kc)
 "The Duchess of Broadway," musical comedy.
 of Broadway," might.

 WTIC (475.9m-630kc)
 Middletown community night.

 8
 7
 9 8 7 6 WBZ (333.1m-900kc) Musical clubs, jazz and in-speare."
KTHS (374.8m-800kc) Dixie Melodies.
KYW (535.4m-560kc) Wendell Hall.
WLIT (394.5m-760kc) Morning Glory club concert cert. 10:05 9:05 8:05 7:05

KDKA (309.1m-970kc) Teaberry time. 9:30 8:30 7:30

WGY (379.5m-790kc) Old-time dances. 12 m. 11 10 9

KNX (336.9m-890kc) Optimistic Order of Do-Nuts.

Friday, silent night for: CFAC, CHIC, CKNC, CKY, CNRC, CNRM, CNRO, CNRR, CNRW, KFAU, KFEQ, KFKU, KFMQ, KFWA, KFYF, KGO, KFAU, KLDS, KPRC, KUOM, PWX, WBBR, WCAD, WCBD, WEAO, WEBW, WGBS, WGST, WHAZ, WIP, WJAZ, WKRC, WLW, WLJL, WNAD, WRC, WREO, WRVA, WSAI, WSUI, WSMB, WTAM.

Eastern Time Stations

CNRA, Moneton, Can. (291.1m-1030ke), 8 p. m., studio program, "Out to Win," three act comedy, Mrs. Irvine Malcolm, director; 10, orchestra.

Malcolm, director; 10, orchestra.

CNRT, Toronto, Can. (356.9m.-840kc), 6:30 p. m., dinner concert, Luigi Romanelli and his King Edward hotel concert orchestra; 9, Radio Raiders in a little of everything, quartet, solos, monologues; 11, dance program, Luigi Romanelli and his King Edward hotel

dance orchestra.

KDKA, Pittsburgh, Pa. (309.1m-970ke), 12:20 p. m., Sunday school lesson, James C. Mace; 6:30, dinner concert; 9, concert; 10:05, Teaberry time.

WAHG, Richmond Hill, N. Y. (315.6m-950kc), 12:03 p. m., Sidney Raphael, planist; Max Polansky, violinist; 7:30, Professor Richard E. Mayne; 7:34, Cecile LaBlanche, planist; 8:15, organ recital direct from studio of Skinner Organ company, New York City, Henry Rogers Pratt, organist; 9:00, Walter Leary, baritone; 9:15, Jimmy Smith, banjo king; 9:30, Henrietta Mastin, soprano; 10:03, popular program; 10:20, Eernie Fletcher's orchestra.

WBZ. Springfield, Mass. (333.1m-900kc), 6:30 p. m., KDKA Little symphony orchestra; 7, music story hour, Helen S. Leavitt; 8, Edwin J. McEnelly and his orchestra; 8:30, Hotel Vendome; 9, Bowdoin college musical chubs.

MBAL, Baltimore, Md. (246m-1220ke), 6:30-7:30 p. m., WBAL dinner orchestra, Robert Iula, conductor; 7:30-8, male quartet; 8-9, musical program, Grachur club, Hobart Smock, director; 9-10, string trio; John Wil-

bourn, tenor.

WCAP, Washington, D. C. (468.5m-640ke), 6:45-7:45
a. m., Tower health exercises; 6-12 p. m., dinner hour
concert, Mozart string quintet; "Sir Hobgoblin
Stories," Blanche Elizabeth Wade; concert; concert,
U. S. Navy band orchestra, Lieut, Charles Benter,
leader; dance music, Wardman Park hotel ballroom.

WGX, Detroit, Mich. (516.9m-580ke), 6-7 p. m., dinner program, Goldkette ensemble; 8-9, program; 9-10,
dance music, Jean Goldkette's Breeze Blowers an
his Victor Recording orchestra.

WEAF, New York, N. V. (4015.m.610ke), 6:45.7, 7.00

dance music, Jean Goldkette's Breeze Blowers and his Victor Recording orchestra.

WEAF, New York, N. Y., (491.5m-610kc), 6:45-7, 7:20 a. m., Tower health exercises; to WEAF, WEEI, WCAP; 7:45-8:00 a. m., morning prayer service, auspices of Greater New York Federation of Churches; 4 p. m., Dorothea Osborne, soprano; 4:15, Einar Hansen, violinist; 4:30, J. Morrison Flavelle, baritone; 4:45, Seals and Sea Cows, Ida Mellen; 5, Vincent Lopez and orchestra from Tea room of Ritz-Carlton hotel; 6, dinner music, Rose room of Ritz-Carlton hotel; 6, dinner music, Rose room of Rotel Waldorf-Astoria; 7, Gene Ingraham and his Great Notch Imorchestra; 7:30, "Sir Holgoblin's Cherry Tree." Blanche Wald, WEAF, WOO, WCAP, WCAE, WGR, WJAR, WEAR, WTAG, WOO, Y.45, Modena Scoville, pianist; 8, the Happiness Candy Boys; 8:30, Eagle Neutrodyne trio; 9, Cities Service quartet and orchestra, WEAF, WEEI, WOO, WEAR, WGN, KSD; 9:30, Irvine players in one act radio plays; 10, Whittall Anglo Fercians, WEAF, WCAP, WJAR, WOO, WEAT, WOO, WEAT, 10:30, chamber musicale, Genia Zelinska, soprano and Carl Rollins, baritone; 11-12, Ben Bernie and orchestra from Hotel Roosevelt.

WEAR, Cleveland, Ohio (389.4m-770kc), 7 p. m., Wornersel's Singing evenometers, 200.

WEAR, Cleveland, Ohio (389.4m-770kc), 7 p. m., Wor-mack's Singing syncopators; 7:30, children's program mack's Singing syncopators; 7:30, children's program, WEAF; 8, "Faust," WEAE Grand Opera company; 9, etites service program, WEAF; 9:30, studio program; 10, WEAF program; 10:30, Wormack's Singing syncopators

copators.

WEE1, Boston, Mass. (348.6m-860ke), 6:45 a. m., health exercises; 3:15 p. m., George Joy and Nell Cantor, popular songs; 5, Frankie Ward and his orchestra; 6:15, Joe Rines and his Hunters' Cabin orchestra; 6:45, Big Brother club; 7:30, Whiting Milk company program; 8, musical; 8:30, Neapolitan Lee Cream company program; 9, musical, WEAF; 9:30, Carter's Incas; 10, Sager's hour of hospitality.

GHB, Clearwater, Fla. (266m-1130ke), 6:30-7:30 p. m., dinner music; 8:30-9:30, Caroline Lee, "The Virginia Girl," and her Spanish guitar; Luther E. Ohls, utalele; 11:45-1 a. m., Radio Ramblers' midnight frotig

wGHP, Detroit, Mich. (270m-1110kc), 6-7 p. m., dinner concert, Hotel Tuller; 7:40-7:50, children's evening chat; 10-11, entertainers in playlet, Harry C. Browne.

GENERAL TALKS AND SPEECHES

Saturday, Pebruary 20

Monday, February 22 Monday, February 22

Eastern Central Mountain Pacific
3 p. m. 2 p. m. 1 p. m. 12 n.

WFI (349.5m-760kc) "George Washington," Mabel
Swint Ewer; "Correct Flag Salute," Robert
Benner.

4:15 3:15 2:15 1:15 p. m.

WEAF (491.5m-610kc) "Current Events of the
Theater," Dr. Montrose J. Moses.

WIP (508.2m-590kc) "George Washington," Hon.

Orrin E. Boyle. 3 2

5 4 3 2 WCCO (416.4m-720ke) Readers' club, Mrs. Walter Stevens.

WBZ (333.1m-900kc) "Theatrical Gossip," Sam Wren.
WTAG (268m-1120kc) Science talk, Fred D.

7:40 6:40 5:40 4:40 WOAW (526m-570ke) Insurance talk. 8 7 6 5
WHN (361.2m-830kc) "Storage Batteries," H. B.

8
WHN (361.2m-830kc) "Storage Batteries," H. B.
Shontz.
WOR (405.2m-740kc) Current topics lecture, H. V.
Kaltenborn.
KFKU (275m-1040kc) "Variatious in Business
Prosperity," Prof. E. B. Dade.
8:30 7:30 6:30 5:30
WOI (270m-1110kc) Automobile course, Prof. A.
Shane.
WPG (299.8m-1000kc) Washington's birthday address, Hon. William H. Smathers.
WOI (270m-1110kc) Washington's birthday address, Prof. L. D. Schmidt.
8:45 7:45 6:45 5:45
WEAF (491.5m-610kc) Tower health talk.
9
8 7
KNX (336.9m-890kc) Travel talk, W. F. Alder.
WLW (288.3m-1040kc) "The Ideal Washington,"
Dr. Conde S. Pallen,
9:10 6:10
WNAD (254m-1180kc) "Berichte aus Deutschland"
(News from Germany), Prof. W. A. Willbrand.
9:15 8:15 7:15 8:15
KNX (336.9m-890kc) Travel talk, W. F. Alder.
9:30 8:30 7:30 6:30
WHAZ (379.5m-790kc) "The Lesson of History,"
Prof. Samuel Rezneck.
11 10 9
KGO (361.2m-830kc) "A Government Timber Shocks," Joseph Henry Jackson: "Character Training in the Home," Prof. C. E. Rugh.

Tuesday, February 23

Eastern Central Mountain Pacific
1:35 p. m. 12:35 p. m. 11:35 a. m. 10:35 a. m.

KPRC (296.9m-1010ke) Health talk, Dr. A. H.

Flickwir. 2 1 p. m. 12 p. 3 2 1 p. m. 12 n. KMA (252m-1190kc) Travelogue, G. H. Van Hou-

ten.
4 3 2 | p.m.

KFAB (340.7m-880kc) Sociology lecture.
4 30 2 30 130

WCCO (416.4m-720kc) "The World of Books,"
H. A. Bellows.

ton.

10 9 8 7

WSAI (325.9m-920kc) Historical talk.

WMAQ (447.5m-670kc) University of Chicago lec-

ture. 9:30 8:30 7:30 KHJ (405.2m-740kc) Talk on dogs, H. M. Robert-KFMX (336.9m-890kc) "China," Prof. Keith KFMX (336.9m-890kc) "Chma," Prof. Keth Clark. WGY (379.5m-790kc) "Progress of Broadcast De-velopment," C. J. Young. WCCO (416.4m-720kc) "Outdoors in Minnesota," Izaak Walton league. 10:45 9:45 8:45 7:45 KNX (336.9m-890kc) Health talk, Dr. Robert T.

Williams. ii io 9 8 KGW (491.5m-610ke) Book review; word-cartoon

on styles.

KPO (428.3m-700ke) Travel talk, Lieut-Col. H.

Edmund Bullis.

(2:45 11:45 (0:45 9:45

WORD (275m-1090ke) Talk, Ernest G. Wylam.

director; 11-12, Skylark dance band; 12-1 a. m., Gerald Marks and his orchestra. Gerald Marks and his orchestra.

WGR, Buffalo, N. Y. (319m-940kc), 2:30 p. m., WGR's afternoon program; 6:30, Clef trio and Damy Engle; 7:30, jointly with WEAF, Blanche Elizabeth Wade, story teller for G. R. Kinney company; 8:30, Dutch Masters Saxophone sextet; 9, Winger's Crescent Park

Wednesday, February 24

Eastern Central Mountain Pacific 3 p. m. 2 p. m. 1 p. m. 12 n. MIP (508.2m-590ke) "Has Geology Anything to Say Regarding Religion?" Dr. J. G. Rodgers. WFI (394.5m-760ke) "Care and Maintenance of a Lawn," Warren E. Meixner. 2

5 4 3 2 2 WCCO (416.4m-720kc) Readers' club. WMAQ (447.5m-670kc) Talk, John Hayes Hammond.

walay (147.0m-670kc) Talk, John Hayes Hammond.

7

6

5

WDAF (365.6m-820kc) Health talk; meat talk.

7:45

WOR (495.2m-740kc) "Topics of the Day," Spencer Armstrong.

WHB (365.6m-820kc) Automotive extension lesson, John Burns.

WDAF (365.6m-820kc) Automotive extension lesson, John Burns.

WDAF (365.6m-820kc) "Missouri Night on the Radio," John MeQuigg.

8:15

7:15

WSAI (325.9m-920kc) Art talk, auspices of Cincinnati Art club, H. H. Wessel; 11, talk, faculty member of University of Cincinnati, 8:30

7:30

WEAO (293.9m-1020kc) "Eye Conservation as a National Problem," Dr. H. Minchin.

WMAQ (445.7m-670kc) Lecture, Northwestern university.

8

7

6

WERC (492.9m-730kc) Talk and Special Problem of Medical Problem.

Thursday, February 25

Eastern Central Mountain Pacific 1 p.m. 12 n. WCCO (416.4m-720ke) "Among the Musicians," H. A. Bellows. 5 4 3 2 p. m.

5 4 3 2 p. m. KMA (252m-1190kc) Travelogue, G. H. Van Hou-

WHB (365.6m-820ke) Aviation address, Harry Wimer.

9:15 8:15 7:15 6:15 KNX (336.9m-890ke) Travel talk, W. F. Alder. 9:30 7:30 6:30 WMAQ (447.5m-670ke) Talk, Chicago Association of Commerce; lecture, University of Chicago.

10 9 8 7 Frederick W. Wile.

WCAL (336.9m-890kc) Speaker, G. Smedal.

WMAQ (447.5m-670kc) Lecture, University of Chicago.

Chicago.

10:10 9:10 8:10 7:10

Chicago 9:10 8:10 7:10
WNYC (527m-570kc) "Trend of the Times," Sydney Neville Ussher.
10:15 81.5
WLW (288.39:15
WLW (288.39:15
WLW (288.39:16) "Religion and Science," Rev. John M. Cooper.
10:45 8:45 7:45
KHJ (405.2m-740kc) Health talk, Dr. Phillip M. Lovell.
11:05 10:05 9:05
WCCO (416.4m-720kc) Traffic safety talk.

Friday, February 26 Eastern Central Mountain Pacific 3 p. m. 2 p. m. 1 p. m. 12 n. KMA (252m-1190kc) Travelogue, G. H. Van Hou-

3 p. m. 2 p. m. 10 m. 12 n. 18 m. 18

WMAQ (447.5m-670kc) Lecture, University of Chicago. 10:10 9:10 8:10 7:10 KPO (428.3m-700kc) Book reviews, Harry A. Small.

entertainers; 9:30, jointly with WEAF, Scott's Emulsion program; and Whittall's Anglo-Persians; 10:30, Hewitt Humonists; 11, Vincent Lopez Hotel Statler dance orchestra, Harold Gieser, director, John F. Gunderman, Jr., organist.

WGY. Schenectady, N. Y. (379.5m-790kc), 7 p. m., Eastman theater; 8:15, "The Duchess of Broadway."

WGY players; 10:30, old-time dances, WGY orchestra.

WHAR, Atlantic City, N. J. (275m-1090ke), 2 p. m., Seaside hotel trio; 7:30 talk; 8, trio.

WJAX, Jacksonville, Fla. (336,9m-890ke), 3:30 p. m., Hemming Park band concert, Vessella's band, Oreste Vessella, conductor; 7:30, music memory contest; 8-10, popular program.

popular program.

WJR, Pontiac, Mich. (516.9m-580ke), 7 p. m., Jean Goldkette's Symptony orchestra; soloists; 7:30, "Arctic Specials"; 9, "Mulkey Celebrities."

KAQ, San Juan, P. R. (340.7m-880kc), 6-8 p. m., talks, Porto Rican Atheneum.

talks, Porto Rican Atheneum.

WLIT, Philadelphia, Pa., (394.5m-760ke), 12:02 p. m., daily almanac; Stanley theater organ recital; religious services; Arcadia cafe concert orchestra; 2:30, playlet, members of National School of Elocution and Oratory; 4:30, recital; 7:30, Dream Daddy's bedtime stories; Sumbeam Cult; 8:30, recital; 10, Morning Glory club concert; 10:30, Rufus and Rastus; 11, Arcadia cafe dance orchestra; continuation of Morning Glory club concert.

WMCA, New York City, N. Y. (340.7m-880kc), 6 p. m., Olcott Vail and his Hotel McAlpin string ensemble; 6:30, Woodmansten Inn orchestra; 7:00, Jack Denny's orchestra; 8, current events; 9, Tracy Pearl musical program; 10:30, Norman Pearce, readings; 11, Ernie Gelden and his Hotel McAlpin orchestra.

Golden and his Hotel McAlpin orchestra.

WNYC, New York, N. Y. (526m-570ke), 6:10 p. m., market high spots; 6:20, piano selections; 7:35, board of estimate; 8, concert program; 9, dance program.

WOO, Philadelphia, Paa, (508.2m-590ke), 11 a. m., organ recital; 12:02 p. m., Golden's crystal tea room orchestra; 4:45, organ recital; 7:30, Ritz Carlton dance orchestra; 8, WOO orchestra; 9:30, Fox theater features and symphony orchestra; 10, organ recital, Mary E. Vogt; 10:30, Sylvania dance orchestra.

WPG. Atlantic City, N. J. (299.8m-1000kc, 6:45 p. m., Artbur Scott Brook, organist; 7 Hotel Morton dinner music; 8:15, studio program; 9, Hotel Traymore conorchestra; 11, Jean Wiener, organist. cert orchestra; 10, James Salt Water Taffy Boys' dance

WTIC, Hartford, Conn. (475.9m-630ke), 11:25 a. m., Laura C. Gaudet, pianist; 12:05 p. m., Travelers club orchestra; 6:30, Hub trio; 8:15, Middletown Com-munity night.

munity night.

WWJ, Detroit, Mich. (352.7m-850ke), 7:30-8 a. m., setting-up exercises; 9:30, "Tonight's dinner"; 12:05, Jules Klein's Hotel Statler orchestra; 3, Detroit News orchestra; 6, dinner concert; 8, News orchestra and seloists; 9, WEAF program; 9:30, dance program.

Central Time Stations
KPRC, Houston, Tex. (296.9m-1010ke), 12 noon, Frank
Tilton, boy pianist.

KWWG, Brownsville, Texas (278m-1080ke), 12 noon, orchestra music; 6 p. m., Roy Garcia, violinist.

KYW, Chicago, III. (535.4m-560ke), 12:05-1 p. m., concert; 1, Joska DeBabary and his orchestra; Coon-Sanders orchestra; 6-7. dinner music, KDKA; 9, an hour of music 10-12:30, revue, Paul Ash and his orchestra; Coon-Sanders orchestra; 1, Insomnia club.

wBAP, Fort Worth, Tex. (475.9m-630ke), 12:05-12:30 p. m., musical program; 6-6:30, Chief Gonzales' Texas Hotel Royals; 7:30-8:30, North Texas Agricultural college band; 9:30-11, Bridgeport male quartet; 11-12, Panther Hawaiian trio.

Panther Hawalian trio.

WCCO, Minneapolis, St. Paul, Minn. (416.4m-720kc), 2:30 p. m., atternoon concert, Dick Long's Nankin cafe orchestra; 4, readers' club; 6:15, dinner concert, Biley's St. Paul hotel concert orchestra; 8:15, musical program; 9, program, WEAF; 10:05, dance program, Arnold Frank's St. Paul hotel orchestra.

WDAF, Kansas City, Mo. (365.6m-820kc), 6-7 p. m., The Tell-me-a-story lady; The Trianon ensemble; 8-9:30, recital, Ella Schutte Clark, sopranc, Mrs. Norma Troje Miller, violinist; Elsa Schutte, pianist; Dr. Harry Cooper, pianist; the Star's Radio orchestra; 11:45-1, Ted Weem's Victor Recording orchestra; Eddle Kuhn's orchestra.

ta; Eddie Kuhn's orchestra.

WEBH, Chicago, Ill. (30.2m-810kc), 7 p. m., Oriole orchestra; 8, Pauline Sachs, soprano; Eleanor Kaplan. violinist; 9-9:45, WEBH Light Opera company.

WGN, Chicago, Ill. (302.8m-990kc), 10-10:15 a. m., good health period; 10:15-11, entertainment for shut-ins; 11-11:30, morning organ concert, Chicago theater, Dean Fossler; 12:01-12:30 p. m., noon-hour entertainment for children; 12:40-2:30, luncheon concert music; 2:30-4, Lyon and Healy artists' recital; 3:25, Port o' Missing Men; 3:30-4:15, tea time music; 4:30-5, organ recital, Edward Benedict; 5:30-5:57, Sheezix time for children; 6:30-6:45, dinner concert music; 6:45-7, old-time favorite songs; 8-8:30, Cities Service quartet; 10-10:10, "Sam 'n' Henry," Radio comic strip; 10:15-10:15, old-time favorite songs; 10:15-11, dance music; songs, Correll and Gosdon, Freda Leonard and Jewell Barnett; Hawatian guitar music, Langdon brothers.

WHAS, Louisville, Ky. (399.8m-750kc), 1-2 p. m., Royal, Peacock orchestra; 3-3:30, Mrs. Myrtle Fulks Zahn, Jr.; 4-5, Music Box concert; 7:39-9, concert, Greater Louisville Savings and Building association.

WHO, Des Moines, fa. (526m-570ke), 7:30-9 p. m., Drake university conservatory of music; 11-12, Bankers Life little symphonic orchestra. WJAZ, Chicago, III. (322.4m-930kc), 9-1 a. m., dance music, Chez Pierre orchestra, Earl Hoffman, conduc-tor; intermission musical numbers.

WLIB. Chicago, III. (302.8m-990kc), 7-8 p. m., musical program; 11-1 a. m., dance music; songs, Correll and Gosden; Freda Leonard and Jewell Barnett.

and Gosden; Freda Leonard and Jewell Barnett.

WLS, Chicago, III. (344.6m-870ke), 6 p. m., Ford and Glenn; 6:40, Ralph Emerson, organist; 7, fullaby time; 7:20, WLS trio; 7:50, "Seigfried Sassoon," Wallace Bruce Amsbary; 8:35, Ford and Glenn; 9, Little Symphony orchestra; 10:30, Ford and Glenn; 11, surprise program.

WLW, Cincinnati, Ohio (422.3m-710kc), 7:30 a. m., healthful exercise, William Stradtman, physical department, Y. M. C. A.; 8, morning devotions, auspices of Parkway Y. M. C. A.; 12:05 p. m., organ concert; 12:30, concert, Hotel Gibson orchestra, Robert Visconti, director.

WMAQ, Chicago, III. (447.5m-670ke), 4:45 p. m., stories from Child Life; 6. Chicago theater organ; 6:20, Family Altar league; 6:30, Wide Awake club program; 8:30, Whitney trio; 9:20, music.

WMBB, Chicago, III. (250m-1200ke), 7-8 p. m., Trianon duc; Frank Bordner, baritone; Frank Chaplin, tenor; The Old Virginia Colonel; 9-11, Trianon orchestra; Dell Lampe; Woodlawn theater orchestra; Walter Kipps; Eddie Matts; Billie Donovan; Jack Goodwin, tenor; Ned and Ted, harmony duc.

Goodwin, tenor; Ned and Ted, narmony due.

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

WOAI, San Antonio, Texas (394.5m-760kc), S:30 p. m., San Antonio Express Evening News program.

WOAW, Omaha, Nebr. (526m570kc), 1 p. m., Randall's

WOAW, Omaha, Nebr. (526m570ke), 1 p. m., Randall's Royal Fontenelle orchestra; 6, music review; 6:20, Francis Potter's banjo orchestra and soloists; 6:50, Gilbert Jaffy and his Little symphony; 9, classical; 10:15, Frank Hodek and his Nightingale orchestra. WCC. Davenport, lowa (483.6m-620kc), 5:45-6 p. m. chimes; 7:45-8:30, Norine Murray, soprano; Fay Paarman, planist; Harry Yeazelle Mercer, tener; 9-9:30, Whittal Anglo-Persian orchestra; 9:30-10:30, travel talk.

Whitial Anglo-Persian orchestra; 9:30-10:30, travel talk.

WGJ, Chicago, III. (447.5m.670ke), 7-8 p.m., Raino Gardens orchestra; Henrietta Nolan, violinist; "Sun of the Soul," H. W. Bundy; Margaret Cade, soprano; Madeline Ruff, accompanist; 10-1, Rainbo Skylarks; Ballantine stringsed trio; Madame Castro Leon, Mexican soprano; Dell Eastburn, dramatic tenci; Payo Byannos, Russian bass; Eleanor Terry; Molodians; Dean Terrill, baritone; Romo Vincent, boy baritone; Merrill Carder; 1-2, Ginger hour.

(Continued on page 30)

Radio Diges

Reg. U. S. Pat. Off. & Dom. of Canad

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 copies, 10 cents

Vol. XVI

Saturday, February 20, 1926

Elect Radio Congressmen

WE WERE glancing over a copy of "Rhodes' Colossus" the other day. It is only a little house organ—a means of conveying the ideas and opinions of a business organization—but it is one of the best edited in America. In the issue there appeared an article relating to the great Imperial Valley of South article relating to the great Imperial Valley of Southern California. The editor in his article recounted an interesting story which has its Radio application.

The great Imperial Valley was threatened some years ago when the Colorado overflowed its banks and ran wild for almost a year, causing great destruction of property. The government could not stop the overflow. Finally President Roosevelt called Harriman, the railroad king, since deceased, and requested, "Use the full facilities of the Southern Pacific to stop the gap—I will see you are paid."

For months the railroad dumped 100 cars of rock a day into this gap and finally the Imperial Valley

Did congress pay the railroad? Not a red cent. Yet, we criticize the railroads! If you want to see samples of the rankest injustice, try to get a bill through congress in which the members cannot see votes, or an issue for their political selves. Roosevelt tried his best to make good, but the boys on the other end of Pennsylvania avenue needed all the cash for their constituents.

The narrative concluded is just a typical demonstra-

What connection does it have with Radio, you ask. As a matter of fact the story has several direct applica-tions to congress and Radio affairs now before our august body of lawmakers.

The senate is now engaged, or it was as we went to press, in a terrific ordeal. All the senators are trying to find out how they should vote on the World Court. The lavishly expensive Bok lobbies and enticing social affairs of the foreign embassies, coupled with some of the votes of their constituents, are allied for the court. The interests in favor of pursuing the famous Monroe Doctrine, backed by other constituents, are allied against the court. It is terrible to be a senator and not know how to vote so as to please friends as well as the voters and insure one's reelection.

The house is busy with the tax bill. The congressmen must "ride the fence" until they learn how many votes "so-and-so" controls and what is desired by bire

votes "so-and-so" controls and what is desired by him.

And so Radio broadcasting, in which we must admit
not everyone is interested, must be shoved aside by our congress to give right-of-way to the more general and vote-deciding questions.

We hate to be pessimistic, but we wonder if congress will ever pass a new Radio law? We wonder if congress and the budget bureau will ever give the Radio development branch (bureau of standards) and

the Radio administrative branch (inspection force etc.) enough money to make broadcast transmission and reception what it SHOULD be? You, John Smith, and you, Mary Brown-do you ever get your representative in the corner and ask him

just what he is going to do for Radio? Do YOU bind him to that promise with your vote?

If you can't do anything with the men who are now sitting there on the hill in Washington, your representations and the same sentatives, get busy and put in new men whom you can TRUST to carry out your orders.

WIR Investigates Trouble

INTERFERENCE from WIR, Radio Corporation of America short-wave telegraph station at New Brunswick, N. J., may cease. The company says it is making changes to stop this interference. We will be glad to compliment this organization for its coopera-tion—once the interference has ceased.

In this connection, allow us to remark, that at KDKA the Westinghouse station at East Pittsburgh, 20,000 watts of power are sent by a similar short-wave telegraph transmitter. This outfit causes no speakable interference. No complaints have been received, even

from Pittsburgh.

Perhaps the Westinghouse engineers could show WIR how to do it?

RADIO INDI-GEST

Yes Sir, She's My Baby

The idea has occured to me That without undue activity On the part of my anatomy
That's commonly known as brain. I could possibly write a verse or so Concerning the songs on my Radio— There won't be any sense to it though, So it won't be much of a strain.

THAT CERTAIN PARTY, OH BOY, WHAT A GIRL Once told me, "I'M ALL FOR YOU?
THEN I'LL BE HAPPY." I said, "SUGAR PLUM BUT BROWN EYES, WHY ARE YOU BLUE?
I'M SITTING ON TOP OF THE WORLD, right now,
Together, through life, we'll room?" Together through life we'll roam."
"SWEET MAN, I'm AFRAID, I'm TOO TIRED," "SHOW ME THE WAY TO GO HOME."

PADDELIN' MADELINE HOME, ALL Now

BY THE LIGHT OF THE STARS isn't fun Cause she lives 'way DOWN BY THE WINIGAR WOIKS.

But when she said, "WONDERFUL ONE,
I'm THE BOOTLEGGER'S DAUGHTER, come on

I'm THE BOOTES
in the house,"
I felt FUNNY all over, I vow,
For I thought all along she was ANGRY, you see—
I tell you, YOU GOT TO KNOW HOW.

MARSHALL HYDE

Lese Majesty!

Dear Indi: Won't you tell me who the Night Herd is? I like his poetry as it is a lot like Edgar Allen Poe's. Both of them have so much illiteration.

Marjorie, we ask you, "Is that nice?" Now that you have had time to think it over, aren't you a little sorry? They both seem like such nice boys. We hope this is a typical graphic error.

Can't Confirm

The other night while tuning in, I heard the loudest thund'ring din. The loop got hot, the tubes most choked. The dials got red, the speaker smoked. Just where it was, I cannot tell— But I think it was Aich E Ell Ell.

RAY D'O

Hey Keeper! Check Up the Inmates

Dear Indi: Please confirm this foreign reception. Sunday night: Heard someone saying, "Duck your head, too low." This must have been 2-LO. Noticed room getting dark and found fog coming from loud speaker. Sure it was London and the whistles and squeals were fog horns. Monday night, about 10:15 p. m.: Noticed very peculiar odor. Thought I must have short circuit so I opened cabinet and low and behold!, in place of the third tube I found a big schooner of lager beer with foam and everything. Found limberger sandwich stuck in speaker and I think I had Hamburg.

C. A. SHOOP

We think you had 2-DT's. But, anyway, there may be something to it. Just one question: What kind of a set did you use Monday night?

Those Foreign Stations

Sets are squealing—and I'm feeling— Like I'd wish to kick them out. Tubes are howling—sounds like prowling Tomcats in the dead of night. Silence falling-no voice calling-Expectations fill the air. I am wishing—and I'm fishing— For those foreign stations there.

Time is drifting-shadows shifting-And our patience's drifting too. Dials adjusting—and you're fussing— Start to feel a little blue. Silence shattered-voices clattered!-Whoops!—I've got a foreign nation." Like to trounce him-for announcin's Just a Sacramento station.

ANNIE LOU

The Rum Fleet Sails On It

Proof of Corkscrew Wave Is Offered

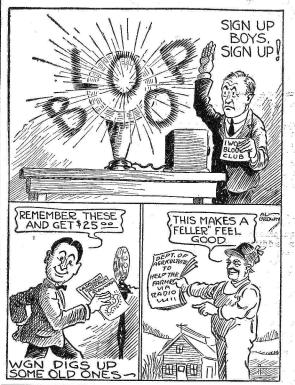
-Columbus (Ohio) Dispatch—Radio page.

We Were Lead Into This—He Dared Us Policeman sings over Radio, making big hit.-News

note.

The "copper" who protects us from those who "steal" and who has "from" nerves and wears "brass" buttons on his uniform, sang with a voice of "gold," and even though there were "silver" threads in his hair, he proved to be of good "mettle" and was worth many "nickels" to hear.

News of the Week



Condensed BY DIELECTRIC

Wouldn't it have been more interesting if, during International Test week, some American stations had remained on the air to make the feat of receiving Europe a little harder? We had such ease in picking up Brussels, Aberdeen, London, Paris, Berlin and Barcelona that a mere South American station barely interested! What great good fortune every Radio fan experienced this year with the total absence of "gruenlers" as approximate to the total absence of "squeelers," so annoying heretofore. Personally, there will be no thrill in another such program for these reasons: the millenium is not so near but that the millions of "squeelers" would repeat their orgy; commercial code operators will still have their messages for lady friends on ship and shore, with no time like a silent period to get it across; Old Man Static is no respector of seasons; American jazz sounds as well here as abroad.

In November, 1924, I made mention in these col-In November, 1924, I made mention in these col-umns of a feature broadcast from Station WJZ, in which Lieutenant Smythe of Toronto, Can., re-viewed his experiences in a canoe traveling from Nova Scotia to New York. The other night we heard the rest of his story from Station WAHG, the Grebe station at Richmond Hill, N. Y. Such a tale of adventure must appeal to many listeners, particu-larly when depicting serious handicaps to canoeing larly when depicting serious handicaps to canoeing across the English channel, and further, in his journey to Rome. These personal contacts with men and women of varied interests add greatly to the lure of listening in. It might be extended.

If reports of reception in Moscow of American music be true, then it is possible that a concert by the United States Marine band orchestra was heard by some of our distant fans. I wish it could be arranged to have this organization appear on the air at time when most of the world could listen to at a time when most of the world could listen to them. Every American takes just pride in their work and would like other nationals to know their excel-

From the broadcasting station of the Lutheran Theological seminary in St. Louis, Station KFUO, listeners had the opportunity of hearing addresses on an identic theme rendered in several languages. The novelty of that experience may not have been so great, but in any case, the import was of far greater significance. For Christian nations not only, but non-Christian (where they were in tune with this station). Christian (where they were in tune with this station). heard a great and vital subject presented so millions could understand. It was the real awe-inspiring moment of the entire week's broadcasting.

Maybe some of you have been checking up on me as to the number of references made here to the Formica orchestra, if so, add another. The program being mentioned conformed neither to strictly classical nor popular music. Instead it trod a middle-of-the-road course choosing the lighter production. road course choosing the lighter numbers from the former and eschewing the vulgar in the latter.

When the midnight hour arrives it seems to be a signal for revelry, sponsored by studio directors and shared by Radio audiences. To what extent listeners indulge in a frolic while tuned to these programs only they can tell. Certainly everyone in the studio of WMC, Memphis, at the time of a recent midnight frolic was having a glorious good time singing lively songs and entering into the spirit of an orchestra swinging through one dance number after another. It was noticed that several of the singers had pleasing

ABC Radio Fundamentals for Everybody

Chapter VII—Radio Frequency Amplification

By Milo Gurney

was explained, it should be borne in mind that, under fair conditions, which would include a reasonable proximity to a broadcasting station, additional tubes are broadcasting station, additional tubes are not required, nor additions to the circuit shown needed, in order to receive very satisfactory reception through head telephones. If, however, one is interested in having reproduction from a loud speaker, it is then necessary that some form of audio frequency amplifying equipment be added to the receiver. Such an addition is to function only to increase the volume of the rectified current as delivered from the detector. In addition to the above, if one is desirous of extending the distance from which signals are desired, it is then obvious that a means must be employed which will boost the intensity of the signal as received by the antenna to a value of sufficient magnitude to actuate the detector, and such boosting must precede, rather than follow the detector. and such boosting must precede, rather than follow, the detector. In effect, then, we have only to decide whether it is the radio frequency or audio frequency values, or both, which we desire to amplify in order to increase either or both of the desired values.

of the desired values.

Three Popular Methods

It will be assumed in this article that the readers are most interested, not only in the functioning of audio frequency additions to the detector circuit, but also as to the relative merits of the several systems now offered to the purchaser, who is becoming more critical, as well as hetter informed.

systems now offered to the purchaser, who is becoming more critical, as well as better informed.

Two methods of audio frequency amplification appear dominant this season in the appeals for popularity, one known as transformer coupling, the other as resistance coupling, while a third, which is termed impedance or choke coil coupling, is also making good progress in its struggle for recognition.

Of the three systems, transformer coupled amplification is the more generally used at present, it having gotten off to a generous start, before the other methods, and securing the greatest amount of attention from manufacturers. The circuit used for two stages of such amplification is shown in figure 19 as coupled to the output of a detector. The transformers used comprise two windings, each insulated from the other, of very fine copper wire. One of these windings, as shown at P-1 and P-2 in figure 19 is termed the primary, and is connected with P-1 to the plate output of the detector tube, while the P-2 terminal of this winding is connected to the positive terminal of a B battery supply. The associated, or second winding of the transformer, as shown in figure 19 as G and minus F, is connected with the G The associated, or second winding of the transformer, as shown in figure 19 as G and minus F, is connected with the G terminal to the grid terminal of the next tube in line, while the minus F terminal is connected to the minus F terminal of this tube's socket. To this is also connected the minus terminal of the A or storage battery used to heat the filament. In actual practice, the primary winding In actual practice, the primary winding is placed within the central opening of the secondary winding, and well insulated from it. The two windings are then placed upon one leg of a laminated metal core, which not only acts as a support for the coils but also functions toward increasing the transfer energy value of the transformer. The total transformer thus assembled is housed in a suitable case to protect the windings from injury, and to make it presentable for sale.

Function of Transformer
Without entering into a discussion, which would be uninteresting, regarding the electrical factors involved, the function of such a transformer is to accept the tion of such a transformer is to accept the audio frequencies as passed to it by the detector tube, and transfer these frequencies, without change, to the secondary winding, which passes them on to the next tube in line for further amplification. In doing so, as there is no physical connection between the primary and secondary, the transfer is made inductively. The inductive transfer of energy follows a well-known law in elecergy follows a well-known law in electricity. If two windings or coils are placed in close proximity to each other, and certain electrical conditions maintained, which permit of the current flow being transferred in the right direction, then as one coil is traversed by a cur-rent passing through it, there will be induced in the coil associated with it a current identical with that passing through the first coil. Of further interest is the statement that the two coils are designed to step up the voltage or pres sure with as high as a six, and sometimes ten, to one ratio.

The current is then passed into the next

OLLOWING last week's article, in tube where, in place of acting as a de-which the operation or functioning of the grid element of the vacuum tube amplifier and raises the detected energy.

Two such stages are usually capable of delivering all the power which a standard loud speaker can handle, while

required, most other systems requiring has, however, made a considerable adthree in order to secure an equal volume. Opposed to its use is the fact that at the present state of the art, it has not Two such stages are usually capable of delivering all the power which a standard loud speaker can handle, while it is also true that frequently two such stages bring to the last or output tube relatively more than the capacity of the tube. Transformer amplification has much to commend it, its chief asset being that but two additional tubes are

vance in this respect, so that the market affords several transformers which are very acceptable.

Amplification Advancing

Resistance interstage coupling for the securing of audio frequency amplification has, during the past year, forged steadily ahead until it now easily holds second place with the Radio fraternity, as (Continued on page 24)



Radiotone Loud Speaker No. Y8728A-\$19.95

My Street Address
R.F.D. or Box No.

Give names of merchants who know you personally

If you have ever bought goods on credit by mail, tell us from whom. If there is anything else you wish to tell us about yourself, write on a piece of paper and enclose it with this coupon. But the coupon alone, fully filled out, ought to do. That's all we want to know and we're ready to ship the goods at once. No formalities. NoC.O.D.We trust rich and poor alike when they marely show us that they are heases.

ing I have lived in this Town....

My Shipping Point.....

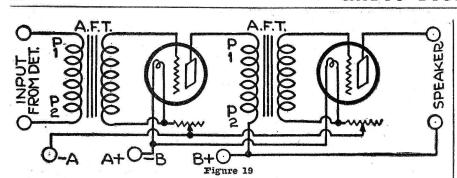
°3≌aMonth

But if you decide to keep the Radiotone, pay only \$3.00 a month until you have paid the special reduced price—only \$19.95. See if you can equal this offer anywhere on such amazingly liberal terms. You'll scarcely feel those small monthly payments. Surely, now, you can afford to have the Radiotone—the best loud speaker—and get the most fun out of your radio set for all the family.

Send Coupon

Seize this opportunity on this special offer. Only \$1.00 with the coupon brings the Radiotone on 30 days trial, satisfaction guaranteed, your dol-lar refunded if not satisfied. Send the coupon now while this special offer lasts.

Straus & Schram Dept. R-9912 Chicago, Illinois



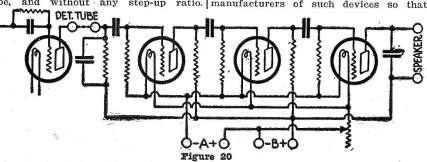
(Continued from page 23)

of the objections created through misunderstanding of its operative characteristics have been removed.

Resistance coupled audio amplification possesses as its dominant feature the ability to reproduce without distortion the voice or music as broadcast, which is, of itself, a result which all desire. The objection to its use has been that its amplification per stage is only that of the

A B C'S OF RADIO SETS derstood, was that the current consumed per stage was less than in other forms. In actual practice a resistance coupled

In actual practice a resistance coupled amplifier consists of but fixed condensers as a means of transferring the fluctuat-ing current from tube to tube, with a resistance of a predetermined value in resistance of a predetermined value in both the plate to filament and grid to both the plate to filament and grid to reproduce without distortion before or music as broadcast, which is, left, a result which all desire. The tion to its use has been that its fication per stage is only that of the and without any step-up ratio.



Therefore, in order to secure a volume success is assured the amateur conequal to that of transformer coupling, it structor. equal to that of transformer coupling, it is necessary that three stages be used as against two in transformer work, or the use of an additional tube. As tubes are reaching lower price levels, the in-terest in this form of amplification has increased to the point where it is securing much deserved attention. Another objection which manufacturers of resistance coupling had to live down was the mistaken idea, of the Radio fan, that the mistaken idea, of the Radio fan, that has also placed a power tube on the marthe B battery drain was excessive. It is true that it requires a higher B battery voltage in order to force the current through the resistances to the plates of the tubes, but that which was not un-

Of late, those manufacturers interested in furthering this type of amplification have sensed the need of supplying tubes whose value as amplifiers of audio frequency current is greater than that found in the ordinary tubes, with the result that one maker has gone so far as not only to market high amplification tubes for the first two resistance coupled stages but

"VOICE OF PORTO RICO"

(Continued from page 7)

In general WKAQ is broadcasting at present, Tuesday, 9 to 10:30 p. m. from the studio; Wednesday, 8 to 9:30 p. m. band concerts from the Plaza Baldorioty de Castro, and Tuesday, 8:30 to 10 p. m. from Cafe "La Cafetera" (The Coffee Pot). All this schedule is Porto Rico time, which is one hour later than E. S. T.

Even in summer, WKAQ is carrying so far that test concerts in September, 1924, were heard in Spain three consecutive

Porto Rico "The Island of Enchantment in the Caribbean Sea" is now an established part of the Radio world. It had already joined the mainland by amateur Radio through the remarkably efficient efforts of the local division of the ARRL and stations like 40I, 4SA and 4JE.

And now, just as our sister island Cuba has carried the music and the spoken word of Cuba into our world wide common property, the ether, so WKAQ "introduced" Porto Rico to the broadcast listeners of both hemispheres.

KMA ADVISES MILLIONS

(Continued from page 6)

daily with an earnest endeavor to "Keep Millions Advised." Among those to be heard regularly are

the following:

The How-do-you-do Singers, Grady Fort and Doc Bellamy, known as the "Applesauce Twins—Brother Jonathan and Ben Davis;" Auntie Blossom (Mrs. Fort) and

Davis;" Auntie Blossom (Mrs. Fort) and Miss Lavone Hamilton who appear Mondays and Fridays.

The Mandolin Orchestra, one of the first of its kind on the air.

Franham Trio, classical music.

Nixon's Dance Orchestra—music for home or party dancing.

June Case and Le Ona Teget—domestic science talks.

George Van Houtte, lecturer on world travels and horticulture.

Bob and Babe Riddle, junior entertainers who sing and clog dance.

Mary Stuart Nichols, "Miss Polyanna"

-Children's hour. William Howie, 15-year-old boy organist of First Presbyterian church.

Mayflower Trio, popular music inter-spersed with talks on flower gardening. These are the regular entertainers and

of course there are many others who are called for features, extras and specials.

vide first for the needs of our nearest neighbors in Iowa and surrounding states. We are glad if our service can be made available beyond the ocean and the national borders. We want everyone to keep posted on ideas that are new along the lines in which our people are especially interested. We want to live up to that slogan and "Keep Millions Advised."

Mr. May has an infectious way of bringing out good humor in those with whom he comes in contact in a personal way and also by his voice over the air. He is ably assisted by his wife, who is a graduate of the University of Nebraska and of the National Park Seminary of Menyland. She had a realized the Seminary of Menyland. Maryland. She has specialized as a voca-list and sings for the KMA audiences often in duet with Mrs. Henry Read. Mrs. May also helps to answer the many thous-

ands of letters that come from Radio fans. KMA broadcasts on a 252-meter wave length and is on the air daily except Sunday from 11:30 a. m. to 12:30 p. m.; 6 to 7 p. m. and 9 to 11 p. m.

WJAG BIRTHDAY PARTY

(Continued from page 5)

extended into other fields. Out in the sand hills the little farm house, cut off from contact with the world by far reaching roads, had its aerial and "homemade" receiving set. To the dwellers of this home, WJAG carried news of the produce markets, road conditions, affairs of the state and nation. It eliminated distance and brought scattered householders into a neighborly community.

Mr. Stefan inaugurated a telegraph school for amateur senders. Classes were organized in three states through the

organized in three states through the Norfolk station. By going down to the lower wave length, below the broadcast band, students were taught the codes. Many of these students have "graduated" and now have transmission sets of their own. Others have developed into licensed operators employed at stations scattered

over the country.

Many listeners identify WJAG by the "Printer's Devil," a character introduced during the broadcast of a World's Series. Membership cards to the WJAG family bear a red imprint of his Majesty.

When you tune in on Mr. and Mrs. Salter's party you will know more about Satter's party you will know more about this mysterious personage. And you will find the family assembled on the 270 meter wave length, 12:15 p. m., February 20. Other characters to be met will be called for features, extras and specials.
"While we do reach out to the millions,"
said Mr. May, "our special aim is to prostable."

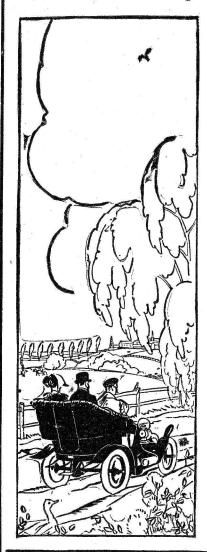
Old King Corn, Fricasee Chicken, Jack
Spratt and wife and the "official constable."

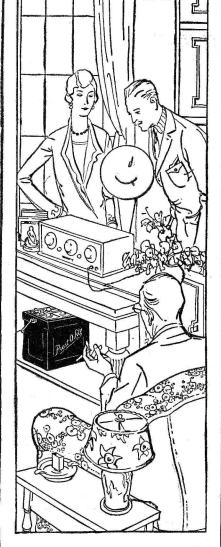
Light to see power to hear

your set, you are not only saving money because they cost less, but you are buying radio batteries that are made by a company with over twenty years of manufacturing experience.

Prest-O-Lite Batteries were especially designed for radio in the world's largest electro-chemical laboratories. They deliver their rated Ampere hour capacities at full power, thus lengthening the time between recharging and assuring good reception.

Ask for Prest-O-Lite Radio Batteries. They may be purchased from \$4.75 up. It is no longer





necessary to take a chance with batteries of unknown make. You will find Prest-O-Lite dealers within earshot of your own loud speaker.

THE PREST-O-LITE CO., INC. INDIANAPOLIS, IND.

New York San Francisco In Canada: Prest-O-Lite Company of Canada, Ltd.
Toronto, Ontario

Send for free booklet

"What every owner of a radio should know about storage batteries" is a little booklet which every radio fan will find interesting and helpful. It is crammed full of hints that will bring surprising radio results—and save you money. It's yours for the asking-without obligation.

Designed especially for radio

STORAGE BATTERIES FOR

MOTOR-CARS AND RADIO



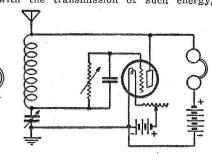
How to Stop Blooping and Man-Made Static

Part II—How and Why Circuits Bloop

By the Technical Staff

THE PROBLEM of eliminating the squealing blooper set that interferes of Maine, chairman of marine and fishes on much with other listeners for many miles around, took on a national aspect at the November Radio conference in Washington. Representation at the conference was composed of all proming conference was composed of all proming fleet groups identified with the Radio industry, including manufacturers, broad-casters and listeners as well as engineers and mechanicians, which gives the signals . . . within any state when the squeating blooper set that interferes of Maine, chairman of marine and fisheries, provides that: "There is hereby ence committee" of any local broadcast listeners association to remedy or minimize it without the hearty cooperation of all broadcast listeners in the city who can and operate these devices. All that the officers, committees and members of such associations can do in such cases is to try to cooperate in all ways with the officers of any local broadcast listeners' association to remedy or minimize it without the hearty cooperation of all broadcast listeners in the city who consisting of nine members who shall be appointed by the president (of the United States)" and that, "no person, firm, company or corporation shall use or operate is to try to cooperate in all ways with the officers, committee and members of such associations can do in such cases is to try to cooperate in all ways with the owners of radiating receivers, in their improvement and operation, so as to lessent the operation of all broadcast listeners' association to remedy or minimize it without the hearty cooperation of all broadcast listeners in the city who can doperate these devices. All that the officers, committees and members of such associations can do in such cases is to try to cooperate in all ways with the officers, committee of the opinion that the Radio press might help, let's see what when the such association and provides the study of the art, a tube receiver that would not cause at least a little in dustry, including manufacturers, broad-casters and listeners as well as engi-neers and mechanicians, which gives the

neers and mechanicians, which gives the weight of national authority and desire to the resolution unanimously adopted at the conference to the effect that "the conference to the effect that "the manufacture and sale of all radiating re- with the transmission of such energy,



able future date.... in view of the fact that radiating receivers are potential sources of interference. If the manufacture and sale of such receivers be not discontinued within a reasonable period..., legislation to that end shall be sought... because of the benefits which will accrue to the Radio public from the suppression of radiating receivers."

A bill "for the regulation of Radio communications and for other purposes" (H. R. 5589), is now pending in congress, the passage of which will have an effect the passage of which will have an effect on the future manufacture, sale and operation of radiating receivers. The bill, which was introduced in the national house of representatives on December 15, it is beyond the ability of the "interfer-

ceivers for broadcast reception should be communications or signals from within discontinued at some definite and reasonable future date . . . in view of the fact or from any place beyond its borders or from any place beyond its borders to any place within the state or with the transmission or reception of such energy, communications or signals from or to places beyond the borders of said state."

places beyond the borders of said state."
A fine of "not more than \$500 for each
and every such offense" is provided for
violation of certain sections of the bill,
and additional provision is made for "a
fine of not more than \$5,000 and imprisonment for a term of not more than five years for each and every offense," in cases of more flagrant violations of vari-

sen and eliminate this troublesome and unpleasant form of interference. Associations of broadcast listeners have no quarrel with the operator of the radiating set, but desire his membership so that he can profit to the benefit of other listeners, through friendly instruction and geopage. through friendly instruction and coopera-tion in learning how to properly operate and improve both his receiver and his

Any progress in this direction will, however, depend upon the mental attitude of the listener himself, pending the eventual adoption of federal regulations eventual adoption of rederal regulations or enactments that will compel the in-considerate operator of a squealing blooper to give heed to the rights and pleasures of other listeners over a wide area. Mr. Herbert Hoover's fourth annual Radio conference, held in Washington on November 9, last year, adopted reports and resolutions in this language: "A large portion of all the interference reported in the various Radio districts has been due to radiating receivers, in the past," and further that "it is believed the dissemination of information neved the dissemination of information upon this matter is of the greatest public importance, and that the attention of the press and of the periodicals of the country relating to Radio, should be especially called to it. One of the most effective means of eliminating such interference is to give publicity to methods of operating receivers in such a manner that they will not radiate." This last line might better have been altered to read "that radiater have been altered to read "that radiation will be reduced to so small a value that interference can be caused only with-in a hundred feet or so of the receiver." It

This week the blank appears on page 3. This week the plank appears on page of Fill it out, realizing just what it means, and send it in. True, there is no penalty if you do not live up to the pledge, but at least you have given your word to this

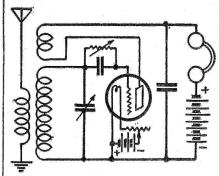


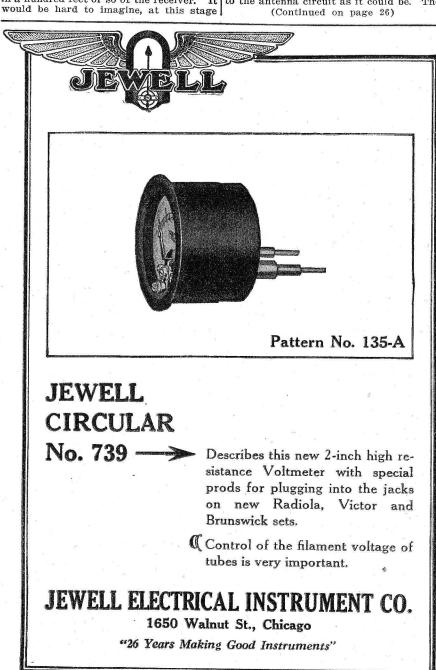
Figure 2

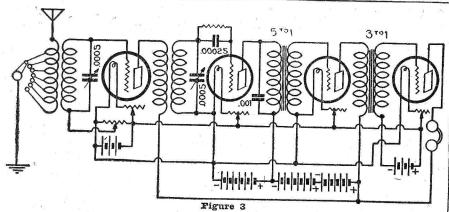
publication and the rest of the Radio lispublication and the rest of the Radio listeners, that you will try to decrease or eliminate your own blooping. That being settled, we can go into a brief study of circuits as to why and how they bloop—merrily and devilishly.

In figure 1 we have the two worst offenders, the two most popular single circuit regenerative receivers. In both cases, there is an antenna circuit to be tuned to the wave length of the station, and an oscillatory circuit also tunable to

and an oscillatory circuit also tunable to the station. No more perfect transmit-ters could hardly be devised. The coup-ling of the oscillating circuits is as tight to the antenna circuit as it could be. The







antenna circuit gets every atom of energy possible when the tube approaches or goes into oscillation. Worst of all, the control of regeneration is poor, and practically every time tuning is tried, the built up regeneration spills over into a state of out and out oscillation. When the last of these sets has gone to the "land of demolished receivers" a tremendous lot of blooping will be noticeably missing. Don't try to operate this type; you cannot get selectivity yourself and you make reception miserable for hundreds of others.

Correcting the Single Circuit antenna circuit gets every atom of energy

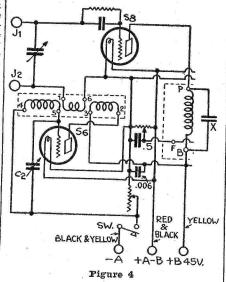
Correcting the Single Circuit

Now comes the correction for these types. If your means are limited, at least revamp your apparatus into the circuit of figure 2, which is still a potential blooper, but far less so than the first two shown. There are any number of good three circuit tuners on the market. Davenport Laboratories at Davenport, Iowa, make a good one. The Amport, Iowa, make a good one. port, Iowa, make a good one. The Ambassador Sales company of New York have compact low loss types. The Uncle Sam baby tuner will go into just about the space your coil must have occupied in the other type. Your .0005 mfd. 23-plate condensers go into such a circuit represents. perfectly.

If you are a little better fixed financially, it would be even better to add a stage of balanced radio frequency ahead of your present equipment. This will not only decrease or eliminate your ra-diating offenses but will materially increase your reception range. Complete instructions for building such a stage will be presented later in this series, in fact two or three types will be described. You can purchase one all made up under the name of Penetrola. On the other hand, if you have a set with the circuit of fig-ure 2, and wish to both cut your blooping and increase your range, you can build one of these non-radiation stages to be one of these non-radiation stages to be described, or purchase one built along the lines of that mentioned. You would have a corking good receiver if a stage of balanced tuned radio frequency were added to the circuit of figure 2. It would be just about the equivalent of a Browning-Drake, Samson, Roberts, or Skeeters. In figure 3 is shown a stage of unneutralized radio frequency which, for purposes of discussion, may be considered as any of the five tube outfits on the market in which oscillation is controlled by vary-

any of the five tube outhers on the market in which oscillation is controlled by vary-ing the R.F. filament brilliancy, varying the grid bias (as shown) or varying the plate potential with a 200,000-ohm re-

HELP STOP BLOOPING sistor. All three of these factors enter into a condition of oscillation. Let us say you have the single stage of R.F. adsay you have the single stage of R.F. adjusted to maximum regeneration, just below oscillation, or two stages for that matter. If the grid is made slightly more negative with the potentiometer, if the rheostat is turned to increase filament brilliancy, or, if the plate potential (voltage) is raised by cutting out a little resistance, the tube "spills over." Now we're all human; if we have a distant station very faintly, we want to try to get "just a little more" out of the set. And "bang" the old DX-getter spills over, and several hundred others, set to enjoy And "bang" the old DX-getter spills over, and several hundred others, set to enjoy that program, hear an awful howl. A properly neutralized "neut," a well-built "RFL" set, or any of the correctly de-



signed "bridges" such as Isofarad, will not quite go over, but few have such

The Tuned R.F. Remedy

Something has to be done to make it impossible to try to get "just that little bit more" and yet have efficiency. Now presumably you have from \$100 to \$250 tied up in that set of yours and you're not going to sell it at a loss just because you send out "a little squeal now and then." It will make another dial but you really should in fairness to all concerned put should, in fairness to all concerned, put one of these "radiation preventers" in front of your set. Then if you want to

(Continued on page 30)

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 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. Remittance must accompany the coupon. Cash at your risk. Add 5 cents to personal checks for exchange.

COUPONS Only 10c Each -- 3 for 25c To cover cost of mailing and postage



Select Your Favorites from the Gallery of Radio Stars

- 1 Wendell Hall, king of ukulele
- 2 Graham McNamee, 1925 Gold Cup announcer
- 3 Jack Little, popular wandering balladist
- 4 Paul Small, who won fame through Radio
- 5 Coon-Sanders' "Nighthawks" at
- 6 George Hay, 1924 Gold Cup an-
- 7 Harmony Girls, Edith Carpenter, Grace Ingram
 8 Ford and Glenn, Lullaby Boys of WLS

- 9 "Roxy" Rothafel of WEAF chain fame
- 10 The Hired Hand, famous "Substitute Announcer" of WBAP
- 11 Britt and Finch, popular song-sters
- $12 \mathop{\hbox{Bob}}_{\hbox{\scriptsize WEEI}} \mathop{\hbox{\scriptsize Emery,}}$ Big Brother of
- 13 "Bill" W. G. Hay, ex-KFKX, now of WLIB
- 14 Happiness Boys, jovial singers of WEAF 15 Lambdin Kay, "Little Colonel" of WSB
- 16 Leo Fitzpatrick, "Merry Old Chief," WJR 17 Henry Field, 1925 Gold Cup runner-up
- 18 Al Carney, organ favorite at WHT
- 19 Aunt Jane, ladies' adviser at
- 20 Vincent Lopez, No. 1 Pennsylvania orchestra.
 21 E. L. Tyson, pleasing voice at WWJ
- 22 S. W. Barnett, ex-WOC, now
- 23 Art Gillham, "The Whispering Pianist"
- 24 Paul Greene, announcer at WSAI, "bridge voice"
 25 Harry Ehrhart, "Dream Daddy" of WLIT

- 26 Correll and Gosden of "Kinky Kids Parade" fame, at WEBH and other stations. 27 Norman Brokenshire, popular at WRC, WJZ
- 28 Indiana Male Quartet, popular at WEBH
- 29 Jane Novak, Blues Singer of Twin Cities, WCCO
- 30 Jean Sargent, the original, now at WHT
- 31 Ralph Emerson, popular organist at WLS

- si katph Emerson, popular organist at WLS

 22 Edna Adams, "Sweetheart of the Air" at KPRC

 33 Pat Barnes, vaudeville announcer at WHT

 34 R. V. Haller of KGW Hoot Owls fame

 55 Henry L. Dixon, ukulele wizard of KYW

 36 Quin Ryan, WGN's Uncle Walt and sports announcer

 37 "Willie the Weeper," Ernest Rogers, WSB

 38 Walter Wilson, "Uncle Bob" of KYW

 39 Jack Chapman of Drake hotel

- 39 Jack Chapman of Drake hotel
- repute

 40 Ray-O-Vac Twins, known country-wide

 41 Art Linick, KYW's Mrs. Schlagenhauer
- genhauer

 42 Fred Hamm of WTAS, now WLIB, fame

 43 Meyer Davis' Le Paradis orchestra of WRC

 44 "Senator Schultz, WLW's illiterate comic

 45 "Uncle John" Daggett of KHJ

 46 D. R. P. Coats, 1925 Silver Cup announcer

 47 Gene Rouse, WOAW's popular announcer

- 47 Gene Rouse, WOAW's popular announcer
 48 Freda Sanker, WKRC jazz orchestra director
 49 Iris Ruth Pavey, KOA's invisible stage beauty
 50 Queen Titania, star of KHJ Fairyland
 51 Ipana Troubadours, on the WEAF Chain.

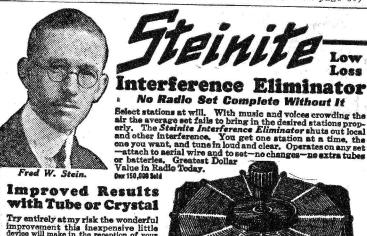
If your favorites are not in this list, send in a request to have them included in the Gallery of Radio Stars.

COUPON NO. 9

This coupon entitles the holder to one photogravure selected from the Radio Digest Gallery of Radio Stars when accompanied by ten cents to pay the cost of mailing and postage.

Three consecutively numbered coupons entitle the holder to three photogravures when accompanied by 25 cents. Remittance must accompany the coupon. Cash at your risk. Add 5 cents to personal checks for exchange.

Radio Digest Publishing Co., 510 N. Dearborn St., Chicago



Try entirely atmy risk the wonderful improvement this inexpensive little device will make in the reception of your set. Improves results on both crystal and tube sets that use any kind of aerial except loop antenna. Clears up reception wonderfully, increases volume, and partially absorbs static. Messy-Back Susrentes.

Mire. Famous 1,500 Mi. Steinite 1-Tube Set, \$6; Long Distance Crystal Set, \$6; Steinite Crystal 50¢ — Three for \$1. Steinite 5-Tube \$2975 FREE Descriptive Literature on request.

Postpaid If you are not delighted with results you get your dollar back

s National Bank, Atchison Savings Bank. Order today—a dollar bill will de.

STEINITE LABORATORIES.

161 Radio Bidg., ATCHISON, KANSAS

Two-Tube Short Wave 15-130 Meter Receiver

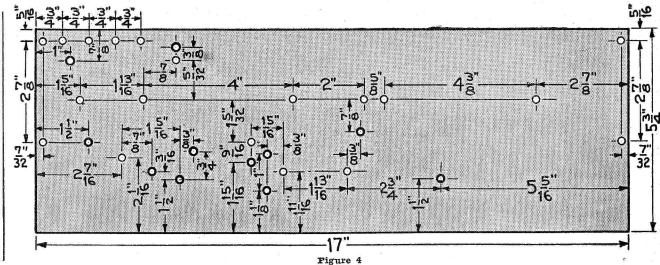
Part II—Drilling and Assembly

By John G. Ryan

HILE THE following point to be discussed will not present you with any problem, the writer is quite sure that most of the readers of this series will be interested in some of the factors that led to the placing of the parts as they have been finally arranged. When the set designer goes below the 200-meter point on the wave length range he runs into what might be called absorp-tion. Parts must be so placed that there is the minimum possible metal of any nature in the fields of the coils and near the variable condensers. This practice is also true in designing broadcast re-ceivers but in this latter work it is to prevent broadening of the tuning while in connection with short wave sets it is to avoid dead spots. If an error is made it will be noticed in tuning that there will be several places in the possible range where regeneration and oscillation

cannot be secured.

For example, you might be using the intermediate coil and the grid variable condenser approaches 40 on the dial. The



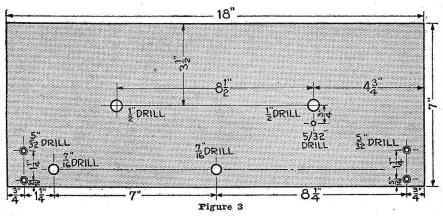
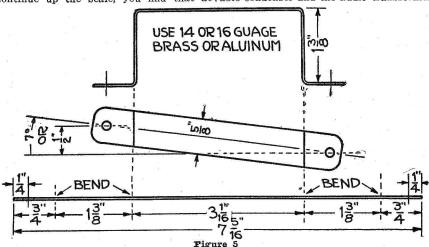


plate variable condenser is being kept in synchronism for maximum regeneration. Suddenly you find that no amount of adjusting will give sensitivity. As you the inductances well back from the varicontinue up the scale, you find that at able condenser and the audio transformer,

Considering now figure 6, which is the



55 and on up to 100, perfect control is possible. Those wave lengths falling between 40 and 55 could not be received back from the left variable condenser but over any great distance. There may be as this is the feedback condenser and not as many as three or four such dead bands if care is not used.



in the unit itself is near the right-hand condenser (.00014 mfd. maximum) and none is near the coils. The primary has all the needed room to permit swinging it clear out at right angles. Such loosening of the coupling is necessary in many cases to clear up dead spots due to pecu-fiarities of the antenna installation. With close coupling, the antenna and ground circuit may absorb negative resistance as fed back from the plate circuit prevent-ing regeneration and long range at certain points on the condenser scale.
With these points in mind, we come to

with these points in limit, we come to the actual assembly of the various parts. Figure 3, presented with this article, shows the drilling of the front panel, while figure 4 shows the drilling of the In connection with figure 4 it should be called to your attention that holes outlined with a light circle are apparatus mounting holes to be drilled 9/64" or 5/32" while those holes outlined with a heavy circle are to pass the wir-

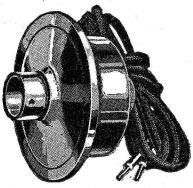
to just pass bus bar. At this point I note an omission in connection with the list of parts which should have included a Carter number 103 jack with a list price of 90 cents. This is my error, though I checked that list several times.

The two large holes midway the height

of the panel and 8½ inches apart are for the Karas condensers using the single hole mounting feature. As these con-densers are now shipped they include a small special wrench for tightening the nut on this mounting which makes this very easy. The condensers are turned so that the short side of the end plates is horizontal with the longer side slanting up to the left. Bradleystat goes in the lower hole in the center and is mounted horizontally, the terminals being up. While drilling the holes in this front panel put a 5/32" hole just ¾" below the left condenser shaft hole. Each Mar-co (Continued on page 28)

Big Price Reduction

FULTONE LOUD SPEAKER FOR YOUR PHONOGRAPH



Fits Any Make Now Only

This unit is the secret behind the unparalleled success of Fultone Speaker. Its large diaphragm and bobbins of fine

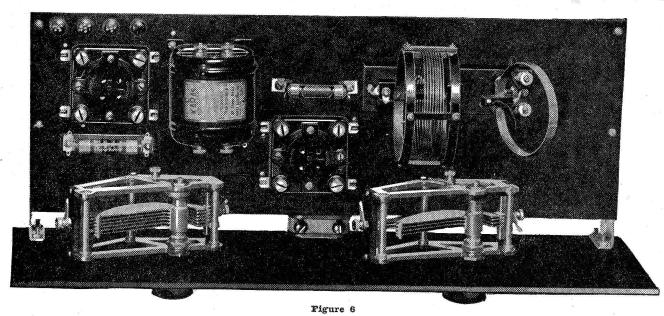
The unit will be shipped on a satisfaction or money back basis on receipt of price in money order or currency.

wire are protected from injury by a heavy nickel-plated case through the back of which adjustment is made by means of a special key. The pole pieces are not made from a solid piece of iron tions of carefully chosen steel.

Use on Your Phonograph Edison Adapter.....25c Columbia or Pathe......20c Brunswick30c

HALL & WELLS, Inc. ADDRESS ... 4600 Lincoln Ave.

Tear Off, Fill in, Mail Now HALL & WELLS, Inc., 4600 Lincoln Avenue, CHICAGO, ILL. NAME . Chicago, Ill. CITY AND STATE



in countersinking the holes for the bracket screws for, if they are overdone, there will be an undesirable little ring showing around the screw head.

Sub Base Layout Going now to figure 4 on the sub base, the two holes at the left edge are for the Benjamin brackets. At the rear edge, the next four holes are for the Eby binding posts. Going forward a little there is a line of holes clear across sub base. The two at the left, 1 13/16 inch apart are for the Eby socket used as the audio amplifier. We are speaking now only of apparatus mounting holes. The two 4 inches over and 2 inches apart are for the clips of the Daven Leakandenser. The last two to right and 4% inches apart take the Aero coil mounting. At the extreme right edge are two, placed fore and aft for the second bracket.

Down in front and centered are two

SHORT WAVE RECEIVER
(Continued from page 27)

dial requires an anchor hole. Use care in countersingly the holes for the boles all located, no trouble should in place, put the P and G terminals to these holes all located, no trouble should be had in spotting the three remaining, two of which are for the Karas transformer and one for the Amperite mounting. In connection with the transformer,

be noted that the G terminal of the coil mount is right next to the left end mounting screw. The writer loosened the G plug-in receptacle so that the soldering lug beneath it could be turned to go under the screw holding the left end of the mount to the sub base. On the underside of sub base, a long soldering lug is fastened under the nut holding right end of Leakandenser and turned so its free end goes andenser and turned so its free end goes under the nut on the left end mounting screw of coil mounting. Thus the circuit is completed from the G terminal of coil mount, through the mounting screw, across to right end of Leakandenser, through it to left end. Later it will only be necessary to connect left end of this unit to the G terminal of detector socket.

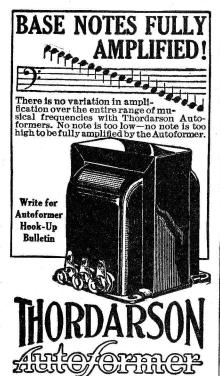
The use of the brass strip shown as figure 5 may not be clear at this stage of the assembly. After the wiring is put in with exception of C battery, an Eveready C battery of the 4½-volt type is secured to the underside of two of the mounting screws which hold apparatus. The strip shown will, if bent correctly, hold the C battery in correct position and underneath the sub base out of the way.

Why Input Is at Right

Why Input Is at Right

This short wave set has been designed with the input to the right and output to the left for two reasons. The broadcast listener will use it in conjunction with his 200 to 550-meter set in which the input is at the left and output at the right. The short wave set can be placed to the left and the antenna and ground leads can be brought to a switch-over arrangement placed between the two sets.

(Continued on page 29)



All Frequency Amplifier An Entirely New Instrument-Not "just another transformer" As the world's oldest and largest

Trade-Mark Registered

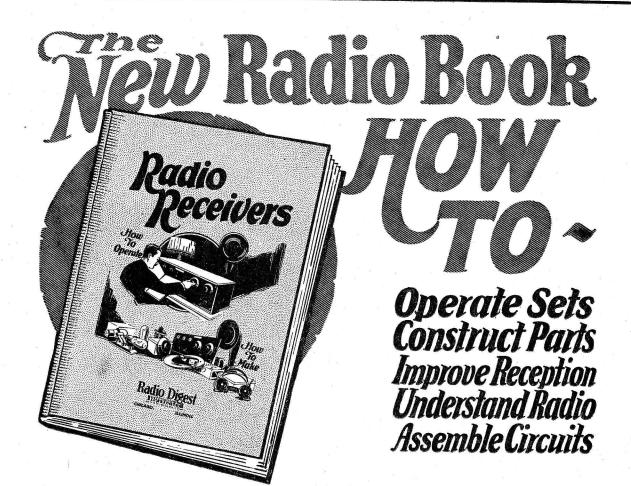
exclusive makers of transformers, we have led for years in broadening their amplifying range. In the Autoformer we have finally de-veloped an all-frequency ampli--a new instrument capable of fully amplifying all notes audible to the human ear. Thus the deepestnotes of the grand organ, bass viol, tuba, English horn, etc., at last are brought out as clearly as the bighost tubb. nest treple. Impro edlong distance reception and better volume control are further advantages.

Write for Autoformer Bulletin

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 leading dealers

THORDARSON ELECTRIC MFG. CO. CHICAGO



FREE With One Year's Subscription to Radio Digest

THE greatest assemblage of facts and hints, from actual everyday practice, ever gotten together. Edited by the technical staff of Padia Pi 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.

Read what one of our readers has to say.

"This is also to say that I received your treatise on radio (Radio Receivers) and I consider it one of the most remarkable and most valuable books on radio that I have ever seen. You are to be congratulated on this work."

This Handy Radio Reference Book Is Yours Today Use the Coupon—Mail Today

RADIO DIGEST, 510 N. Dearborn St., Chicago, Ill.	2-20-2
Enclosed find five dollars for a Radio Digest including FREE to Book called "Radio Receivers—I to Make."	he New 194 Dees Date
NAME	
ADDRESS	
CITY	STATE

The Reader's View

You Are Right

You Are Right

I have been interested to read of the federal suit against WJAZ for pirating wave lengths. Believe me, they are not the only ones by any means. WSMB does this regularly to get away from KOA, and I can't say I blame them. KSL, Salt Lake City, (299) has been working about one degree above WLIB (302) for some time. Evidently they couldn't get in between KPRC (296) and WLIB. Quite evidently it is impossible for powerful stations to operate independently on a three meter split or less.

why do you not come out and admit this editorially. Theoretically, it may sound all right, but actually, I guess no one is better aware of the fallacy than yourself.—R. K. Valley Ranch, N. M.

Disagrees with L. F. W.

I note in your issue of January 2, where L. F. W. of Conway Springs, Kans., is thoroughly "fed up" on the average broadcast program. I will to make a few comments.

If the type of music he wants was broadcast exclusively, about 75 per cent of the receivers would be abandoned. Furthermore, if he has a receiver that is at all worth while, he can get enough jazz and junk to suit him, without being compelled to listen to programs that are not intended for him at all. There are plenty of stations that feature old-time and popular music.

plenty of stations that feature out-time and popular music.

His last paragraph explains his complete knowledge of music. Eliminating songs with titles in foreign languages would bar most of the worth-while music. He probably has just found out that the majority of favorite operas are in some language not his.—C. R. W., Crenshaw, Miss.

No Innocent Broadcaster

Do you know the color of persuasion that might be used to get some innocent broadcaster to send us a number of something not played by a band or an orchestra?—E. E., Mount Sterling, Ky.

Well, C. E. J., What Kind Is It?

In your column headed "The Reader's View" I noticed that C. E. J. of Boston, Mass., picks up 10-watt stations over a distance of 1,300 miles. I would like to know the type of receiver C. E. J. uses, as I have a very sensative set that does not give such reception. I would like to improve my reception by a tip from C. E. J.— J. M. H., Lake Charles, La.

Moon Should Be Considered

With the international tests completed, may I offer a suggestion in the hope for better results next year? I was successful in hearing only 6KW, Cuba; PWX, Cuba, and CZE, Mexico, the latter being the only station I had not logged before these stations came in with clear

and distinct volume.

I lay my failure to get more stations to the fact that it was full moon, and herein lies the hint of my suggestion. Why not consider the phase of the moon when fixing the time for the tests? The first two weeks of January were better



WORLD BATTERY COMPANY 1219 So. Wabash Ave., Dept. 48 CHICAGO, ILL.

Set your Radio Disla at 210 meters for the new 1000 watt World Storage Battery Battery

TOMSK, SIBERIA, FAN **WANTS YOUR LETTER**

ROM Tomsk, Siberia, to the offices of Radio Digest is quite a grant Rom Tomsk, Steria, to the olices of Radio Digest is quite a span of miles, but Radio has made this distance shorter for at least one Russian there. Alexander Kalachnikoff reads Radio Digest Alexander Kalachnikoff reads Radio Digest and listens to American stations, both amateur and broadcasting. But he wants to get better acquainted with Americans. Then, too, he has a sister, Vera, eighteen years of ago, who would like to write to American sisters.

Coming as it did from this far-off country, Siberia, where the resources have but been scratched, where a great civilized nation of thousands of millions of

people may sometime exist, "Al's" letter quite naturally aroused much interest.

You may read it too. The letter has

een but slightly corrected. Note how tell he writes English.

"English Speaking Radio Amateurs"

"I am a Russian amateur, who wants

to have a friendly correspondence with you. I will be glad if you will send me American literature, books as well as magazines, for which I with pleasure will send you, if you want, Russian postage stamps and paper money issued during the Russian revolution, and also Russian

magazines, views etc.

"As to me it is very difficult to pay postage, I beg you to enclose in letters some International postage reply coupons." "Don't delay to write me! I am wait-

ing! My name and address:
Al. Kalachnikoff,

Tomsk, Siberia, Russia,
Soldatska Street, 66.

"P. S. I have a sister Vera, eighteen
years old, who will be glad to correspond
with American girls. If you have a sister, let her write a letter to my sister."

He's Just a Tonely Badio Fan

He's Just a Lonely Radio Fan So ends the letter from "Al." He's just a Russian Radio fan, thousands of miles away, and living in a lonely country. He gives no hint of his age, except of course, we may hazard a guess that he is a few years older than his sister, Vera.

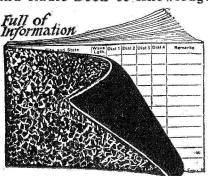
The editor says he is going to write to AI, and hopes other people will also correspond. One thing not to forget, how-ever, in mailing a letter to Russia is that the postage required is five cents. International reply coupons may be secured at the post office.

by far than the last two weeks for distance reception—G. E. M., Pittsburgh, Pa

Should Answer Letters
As the fans always notice, an announcer will ask listeners to send cards or letters thanking the artists. Now don't you think that after you take your good time to write and thank them for the program or to verify some program, that the least they could do would be to acknowledge (Continued on page 30)

New Revisable

and Radio Book of Knowledge



Send No Money

62 pages valuable information necessary to enjoy you radio. 10 Radio volumes bound as one. Beautiful cover Gold lettering. Loose leaves for inserting revised pages. We print new pages as changes occur in wave lengths. We print new pages as changes occur in wave lengths, owners, addresses, calls, watts, etc., and as new facts and discoveries are secured. We ship latest edition. A few features of this "up-to-the-minute" Radio Book are leg helding 468 stations, Dictionary Radio Terms, Tuning Suggestions. Trouble Finders, Trouble Preventers, Care of Batteries, An Ideal Aerial, Repair Helps, Station List numerical by wave lengths—both in meters and kilocycles, List alphabetical by states and cities, List of Owners and Addresses, Answers to Questions, Calibration Chart showing dial settings for each wave length, etc. So convenient. Get clearer programs. Increase your selectivity. Elimate your troubles. Enjoy your radio MORE. Worth many times small cost. Write NOW for radio pleasure book.

Large Colored FREE With First RADIO MAP FREE Order

Pay postman \$1 after latest \$2.00 edition revisable Radio Book and FRBE map arrive. Postpaid if pay with order, Money refunded if not delighted. Order today—NOW. Radio Printers, Dept. 8912M, Marengo, III,

Fans, Here's Something to Puzzle Over-Your Guess Is as Good as Ours

Solve this if you can. The man that operates a grain elevator in Meckling, S. Dak., a town nine miles west of here, has a Radio which he uses to get the stock returns and market reports. Another man, Lee Steele, who owns a ranch three miles this side of Meckling, has a large gasoline engine which

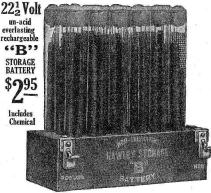
he uses to shell corn for his cattle.
When Lee Steele, the rancher, has his engine running, the elevator owner can tune in on his Radio and hear the engine and Lee Steele's voice, or any other person's voice who happens to be close to the engine. I did not hear be close to the engine. I did not hear it but other people have when listening in at the elevator. I suggest that Steele be given some call letters.—Maurice Kirby, Vermillion, S. Dak.

AID FARMERS BY RADIO

(Continued from page 4)

If this "National Agricultural College of the Air," assuming the term is permissible, rides upon the crest of popularity (literal and figurative) in keeping with its high and ngurative) in keeping with its high purpose and mission of service, it may eventually become a daily instead of a weekly feature. Then a farmer in the vicinity of Waupaca could send a telegram to Washington, telling about symptoms of cholera among his hogs or tuberculosis among his herd of dairy cows and receive helpful information by Radio the follow-ing day. This and thousands of other ing day. This and thousands of other similar illustrations suggest the necessity and the opportunity of Radio in affording timely information to the tillers of the

As an outgrowth of the germ "Fifty Farm Flashes," there will be many offshoots to this big idea of linking the laboratories of the great United States Department of Agriculture to the firesides of farm homes. The fertile brain of the Chief of Radio Service is ebullient with ideas that will both speed up and popularize the unlimited agricultural information on tap in Washington. Already, Mr. Pickard has created the character of Mr. Pickard has created the character of "Uncle Bert, the Garden Expert," who like Uncle Josh and similar personages that savor of the soil, is destined to national fame. Uncle Bert would serve as the foster father of thousands of boys and girls who would enlist under the banner



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 80-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, \$5c. 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.

'Radio Order of Junior Gardeners." this, too, is a far-reaching implication because either unintentionally or through neglect the juniors or boys and girls in their teens are not now recognized in the programs of broadcasting stations.

programs of broadcasting stations.

The kiddies, of course, are served their bedtime stories, but the boy who is just putting on his first galluses is not the beneficiary of a special Radio program.

Mr. Pickard, with a keen insight into human nature and the quickness to recognize an opportunity, is to supply that deficit or missing link in the field of broadcasting.

The fertile ideas of Mr. Pickard, al-

broadcasting.

The fertile ideas of Mr. Pickard, although his plans are now of a tentative nature, are not those of a theorist. From a wealth of practical experience, as director of KSAC, broadcasting station of the Kansas State Agricultural college, he was drafted by Secretary of Agriculture William A. Jardine, where (in Washington) his intensive and sound ideas will have room for expansion beyond a state ton) his intensive and sound ideas will have room for expansion beyond a state boundary to that of a national scope. In other words, a state "College of the Air," with 5,000 farmers as regular students, becomes a "National Agricultural College of the Air," with unnumbered millions of farmers as potential students. Such is the important role to be played by Sam Pickard, and with keen enthusiasm, ripe experience and special training, he will fully measure up to the large duties thus

SHORT WAVE RECEIVER

(Continued from page 28)

The battery leads can also be brought to this switching arrangement if desired. In the case of the transmitting amateur, he usually has his transmitter, either phone or CW, to the right with the switch-over and key in the center and receiver at the left. Thus this set will fit into his arrangements with short antenna and ground leads.

(The wiring of short wave receiver will be taken up in the third installment presented next week .- Editor's

The vacuum-type lightning arrestor is generally considered the best. Before installing the arrestor the underwriters' rules for the locality in question should be consulted.

MOUNTFORD

Resistance Coupled

Amplifier Kit

Price 650



With this kit, you can quickly and easily change from transformer to Resistance-Coupled Amplifi-cation and get better tone, real clarity, and greater volume.

sent postpaid, with \$6.50 hook-up diagram, price \$6.50 satisfaction guaranteed OR MONEY REFUNDED

C. E. MOUNTFORD 463 Greenwich St. NEW YORK CITY



The Crescendon, Crosley's new and exclusive volume control, enables you to build up scarcely audible signals from distant stations to dancing volume—and to cut down local super-power stations to a whisper without impairing tonal qualities. Hear it on models 4-29 and 5-38!

Add 10 per cent to all prices v

THE CROSLEY RADIO CORPORATION, Cincinnati, Ohio

BETTER. COSTS LESS



The Reader's View

(Continued from page 29)

your message, even if it be only a card?
And now, the widely discussed "Who shall pay for broadcasting?" I think that it ought be put up to each city council and at election time have the city vote upon it that the city or county assess all owner of Radios and compel them to pay even one-half mill (.05c) on each hundred dollars tied up in Radio in their home.

Regarding popular and classical music, I, myself, would rather hear a good or-chestra play a few jazz numbers than to hear an "old hen" soprano sing "Love's Dawning."—C. A., Columbus, Ohio.

HELP STOP BLOOPING

(Continued from page 26)

bring up the regeneration on DX, and fre quently spill over, you can do so without upsetting the whole community. You have the three dials on the set logged for about everything within range anythe new dial. Remember, if you do it, and you "sell" two or three other men at the office on the idea, and each of them gets his neighbors to do it, pretty soon your community will be "one sweet place" for Radio reception.

In figure 4 we have a typical input circut for a super-heterodyne. This is not the worst offender, but it causes plenty of trouble. In this case we use an untapped loop with one side going to the grid of the mixer tube (first detector) and the other to its flament. The pickthe grid of the mixer tube (first detector) and the other to its filament. The pick-up coil from the oscillator is connected in that lead going to the filament and therein lies the trouble. The loop will radiate merrily, causing trouble throughout a whole city block. If, instead of a loop, you use an antenna coupler, with tight coupling between antenna circuit and secondary, said secondary being connected to J1 and J2, the grief you cause over a wide area is terrific. One remedy is to cut down the voltage applied to the over a white area is terring. One remedy is to cut down the voltage applied to the oscillator so that the oscillations are of low amplitude or strength; very little is required to mix properly and most supers would "perk" a lot better for their owners if only 22 to 30 volts were on that oscillator plate

Super-Het Suggestions

Another suggestion is the use of one of the radiation preventing stages of balanced tuned R.F. but it will have to be slightly altered from the usual arrangement for use on a super-het. As sold, Penetrola and the rest of them have an autout arrangement to be completed. output arrangement to be coupled onto a tuner but the super has only a variable condenser and the tuner part must be incorporated into the output of the added stage. The supers mentioned in the first few paragraphs of last week's article each had one and supers reliable. few paragraphs of last week's article each had one, and such a stage will be described later. It will help a great deal to shield your super well—all over—and while you're doing it shield the oscillator from the rest of the set for your own good. The oscillator coils can radiate very well themselves, in all directions which not only bothers others but ate very well themselves, in all direc-tions, which not only bothers others but gets into parts of your set where you do not want it. The overall shielding will prevent radiation from your intermediate stages when you bring them up to oscillation. True they are long wave oscillations but what a lot of lower wave harmonical these presents of the stage of the s monies they have—anywhere from two to ten and from 100 meters up.

The worst super from the standpoint of radiation is the type with the center tapped loop and the midget condenser going to the plate of the mixer tube. How they can go! The loop circuit is brought

CLASSIFIED **ADVERTISEMENTS**

SALESMEN WANTED

Make \$100 WEEKLY in spare time. Sell 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., Chicago.

RADIO

"\$1.00 For Your Old Tubes regardless of make or condition towards the nurchase of make or condition towards the purchase of each new Standard \$2.50 tube. Positively guaranteed. We do not sell rebuilt or bootleg tubes. Order today. Luxem & Davis Mfg. Co., 6229 Broadway, Chicago, Ill. Paste this ad in your set."

TELEGRAPHY

Telegraphy—Both Morse and Wireless taught thoroughly. Big salaries. Wonderful opportunities. Expenses low; chance to earn part. School established fifty years. Catalog free. Dodge's Institute, Sixth St., Valparaiso, Ind.

up to maximum sensitivity and then the operator (?) starts to bring up the inter-mediates with the potentiometer. Closer and closer, more and more distortion, then over it goes—taking the mixer or first detector with it. Mixer oscillating, oscillator oscillating, intermediates going full blast, possibly also the second detector. Feature the ethereal racket if that combination is on an accile interest. tector. Feature the ethereal racket if that combination is on an aerial instead of a loop. Lots of them are. The secondary of the antenna coupler is center tapped, just as though it were a loop, with a primary of from 6 to 12 turns. If by chance the antenna circuit is tuned with a honeycomb load coil and variable condense the variable with a loneycomb the variable and on the variable condense the variable with a lone of the variable condense the variable with a lone of the condenser the very maximum in blooping is achieved.

is achieved.

If you must couple to an antenna, first of all take off the center-tap feature, for the sake of humanity; second, move the antenna coil at least an inch from the secondary, and third, take off some turns of the primary coil. This last move will make the step-down ratio greater for oscillations going out and cut down their radiating ability. You'll still have one mighty good super, it will be a lot sharper and, frankly, you'll get a lot purer reproduction. Incidentally, while doing this, completely shield the antenna coupler and its secondary tuning condenser and see how much less local interference you have—also less harmonics from anything within a hundred miles. within a hundred miles.

(Next week we'll get into the operation (Next week we'll get into the operation of present-day sets for better results with less blooping. Charting dials, and the relationship between regeneration controls and tuning dials, will be among the points considered. Stick with this series as later we'll get into other forms of interference that may bother you—Editor's Note.)

Get Better Programs
YOUR OWN Name and Address
Printed Free on Applause Cards
Printed Free on Applause Cards



Entertainers expect and appreciate applause cards, YOUR appreciation makes them perform better. Applaud your favorites

Space for requests. Stations gladly put on request numbers. Quality cards and printing. 50—only \$1; 100:—\$1.45.

200—\$1.95; 300—\$2.45. Money refunded if not delighted. Send No Money and FREE Log. Order today—Now. Radio Printers, Dept. 7992, Marengo, III.

Collect Radio Stamps Album FREE

For limited time, we will give AB-SOLUTELY FREE a large 48 PAGE Radio Album & Log, with each order for 168 beautiful copper-etched radio stamps (8 colors) each a different station. As you hear stations, insert propen stamps. Album contains other information. 100 hours pleasure. Fascinating hobby. Permanent record. You, your childen and friends will enjoy it. Send No Money

Pay postman \$1 after stamps & FREE album arrive. Postpaid if pay with order. WONEY REFUNDED if not DELIGHTED. Order NOW. IDEAL CO., Dept. 4412, 366 Wrigley Bldg., Chicago

Save Money on Your Ratheon - B - Eliminator



Complete Parts with RAYTHEON Tube and full instructions

NOW \$28.95

Your opportunity to purchase at a great saving, complete at a great saving, complete set of parts and directions for building your own "B" Eliminators Genuine Raytheon Tube. Thordarson Chokes and Transformers. Only nationally operates any number tubes, no hum. Money back guarantee. Save one half cost by building. Plug in any 110 V. A.C. socket and your "B" Battery troubles are over.

FREE Send immediately for Free Instructions and Particulars

MACK LABORATORIES

719 Cass Street Chicago, III.

ARE YOU THE MAN

to be first in your town to sell and demonstrate POWEROLA, the famous 55 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 thru THE NEW YORK EDISON CO., public utility companies and radio, electric and music dealers everywhere. Absolutely dependable, fully guaranteed, powerful, practical, perfect in tul, practical, perfect in

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 diagrams 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

ADVANCE PROGRAMS

(Continued from page 21)

Cincinnati, Ohio (325.9m-920ke), 7 p. m., pro-7:30, Hires Harvesters; 8, Clicquot Club Eski-9, Silvertown Cord orchestra, Joseph Knecht.

director.

WSB, Atlanta, Ga. (428.3m-700kc), 3 p. m., Monro Georgia high school orchestra; 10.45, entertainment.

WSM, Nashville, Tenn. (222.3m-1060kc), 6:30 p. m. Francis Craig's orchestra; 7, bedtime story; 8, Vanderbilt university program; 10, Lawrence Goodman pianist.

planist. Mountain Time Stations

KOA, Denver, Colo. (322.4m-930ke), 12:15 p. m., Rialto
theater organ, Mariorie Nash; 6:30, Brown Palace
string orchestra; 8, Scheuerman's Colorado orchestra;
8:15, Edith Louise Jones, piano studios; Paul Clarke
Stauffer, director; Frank Fowler, Waldo Williamson,
cellists; Hans Esser, violinist; Ned Steel, violinist;
Stanhope E, Blunt, tenor; Bella Marmor, planist;
Gladys Henshall, Louise Metz, Lawrence Crittenden,
planists; Mark O'Brien, pianist; KOA orchestra.

Pacific Time Stations

NRV, Vancouver, Can. (291.1m-1030kc), 7:30 mm., bedtime story, Aunt Ruby; 8:30, Mrs. Lyle Telford, soprano; J. W. Hargrave, tenor; Maud Kier, cellist, operatic solos; 10:30, Cabaret Belmont orchestra, Bebe

sopiano, N. Harister, tellor, mand Mer, tellis, operatic solos; 10:30, Cabaret Belmont orchestra, Bebe Mullar, soprano.

KFI, Los Angeles, Calif. (467m-642kc), 5:30-6 p. m., Kenneth Morse and his orchestra; 6, nightly doings; 6:15, KFI's Seeing California; 6:30, vest pocket program; 6:45, Radiotorial period; 7-8, Varied program; 8-9, Aeolian residence pipe organ, Dan L. McFarland, organist; 9-9:30, program arranged by Wm. MacDougall, Scotch comedian; 9:30-10, Mutual Motors mirth contest; 10-11, popular song hour.

KFWB, Hollywood, Calif. (252m-1190kc), 7:10 p. m., Officer E. G. Brown in safety first talk; 7:20, Jack Boaz, hunting and fishing scout; 7:30, "Eye-o-logue," Dr. H. S. Marshutz; 7:45, nicrophone brevities; 8-9, Ray Balley's trio; Lois Woody, soprano; Frank Stever, Darltone, Estelle Shake, blues singer; 9-10. Mrs. Vivian Kidson, soprano; Tom Breneman, baritone; Warner Brothers syncopators; 10-11, Warner Brothers warner froile, direction Charlie Wellman.

KGO, Oakland, Calif. (361,2m-830kc), 7:15-7:30 a. m., health exercises; 7:45, Pep class; 8:15-8:30, exercises; 11:30-1 p. m., Sherman Clay and company luncheon concert; 3-4, Florence Archibald, soprano; Will Mur-

Big Money in Radio

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.

DON'T TRY TO TUNE BY GUESS

KNOW where to place your dials for each station in America. KNOW what station you receive with-out waiting announcement.

You can do both with RADEX
Send 25c Coin or
Stamps RADEX, Box 143-L, CLEVELAND

RADIO INVENTIONS Protected by U. S. and Foreign Patents MASON, FENWICK & LAWRENCE

Patent and Trade Mark Lawyers Washington, D. C., New York, Chicago Established Over Sixty Years

Established Over Sixty Years
References:
LIFE SAVERS INC., PORT CHESTER, N. Y.
STEPHEN F. WHITMAN & SON, PHILADELPHIA
PACIFIC COAST BISCUIT CO., SEATTLE, WASH.
LOFT, INC., NEW YORK CITY
SPRAGUE WARNER & CO., CHICAGO
THE WARREN CO., ATLANTA. GA.
A. BALDWIN & CO., NEW ORLEANS, LA.
JOSEPH BURNETT CO., BOSTON
Send Description and Sketch

RADIO We want to hear from hard-hitting radio dealers operating live-wire stores who want to make the best jobber connection in America.

DEALERS

Our eight big warehouses furnish you with the finest products in radio. And with the fines we ship fast.

WANTED

Write today on your letterhead for big catalog of attornally advertised lines. Ask for AE 1 116

WAKEM & McLAUGHLIN, Inc. 225 E. ILLINOIS STREET, CHICAGO, ILL.

Enjoy perfect reception regardless of weather conditions. The
Static Eliminator—the newest and
most starting thing in Radio—cuts out practically all state without loss of volume!
And in addition it will help increase selectivity, tune out local stations, sharpen signals,
remove noises, lessen interference and prevent
re-radiation!
Use it with any receiving set—simply hook
up according to our simple instructions and
enjoy perfect reception
unmarred by static
Satisfaction absolutely
guaranteed—Money
back if Eliminator is
returned within 5 days.
Mall your order today.



16:14 (6 3 4 11 1:00; 60, 10; 1) 621 United States Community

ray, tenor; Marie Cain, pianist; 4-5:30, Hotel St. Francis concert orchestra, Vinton Laferrera, conductor; 5:30-6, girls half hour, Esther Wood Schneider, conductor; 6-6:55, Brokaw and his orchestra. KGW, Portland, Ore. (491.5m-610ke), 12:30-1:30 p. m., concert; 6-7, dinner concert; 8-9, concert; 9-10:30, concert; 10:30-12." (Keep Growing Wiser Order of Hoot Owls.")

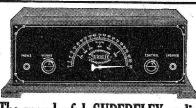
concert; 10:30-12, frolic; "Keep Growing Wiser Order of Hoof Owis."

KHJ, Los Angeles, Calif. (405.2m-740ke), 6:30-7:30 p. m., history story, Prof. Hertzog; Richard Headrick and Vyola Von, screen juveniles; Uncle John; 8-10, program, Western Auto Supply company.

KMTR, Hollywood, Calif. (238m-1260ke), 8-10 p. m., KMTR concert orchestra, Loren Powell, directing; 10-11, Starr Plano company studio.

KNX, Hollywood, Calif. (336.9m-890kc), 5-5:30 p. m., Sunny Jim's talk; 5:30-6, Leighton's Arcade cafeterla orchestra; 6, Town Tattler; 6:15, travel talk, W. F. Alder; 6:30-7, Atwater Kent concert orchestra; 7-8, program, Jell-X-Cell company; 8-9, KNX feature program; 9-10, Order of Optimistic Donuts; 10-11, KNX feature studio program; 11-12, Ray West's Coconut Grove dance orchestra from Ambassador hotel. KPO, San Francisco, Calif. (428.3m-700ke), 7, 7:30, 8 a. m., daily dozen exercises; 1:30-2, Rudy Seiger's Pairmont hotel orchestra; 5:30-6, children's period; 6:30-7, Waldemar Lind and the States Restaurant orchestra; 8-9, program; 9-9:10, sports; 9:10-10, Palace hotel dance orchestra, Gene James, director; 10-11, Waldemar Lind and the States Restaurant orchestra.

GET THIS BIG RADIO CATALOG Simply send name TODAY for big 64-page book extion paying agents \$60 to \$100 a week, and how to make money from latest radio goods. Live dealers and agents wanted Standard Radio Co., 1442 Walnut St., Kansas City, Mo.



The wonderful SUPERFLEX radio

NEW CIRCUIT—ONE DIAL (one condenser—pat. pndg.) Not reflex. Volume, Clarity, Distance, Selec-

Sample to Rated DEALERS. TEST ONE. RADIO PRODUCTS CORPORATION, (Inc.) 3816 N. 28th St. Birmingham, Alabama



New-Different The Beautiful, De Luxe Radio Log You've Always Wanted. The Wonder Radio Log

Rich seal grain binding, stamped in gold; top edge gilt, 144 pages, size 5x7½. Printed on heavy bond paper. A Log you will be proud of.
Lists the Broadcasting Stations three convenient ways—(1) by Call Letters; (2) by Locations and Owners; (3) by Kilocycles and Meters. Includes 24 page Wonder Radio Distance Map. Ample space for keeping complete Log and for changes, additions and revisions.

Sent post paid \$1.00. Order your copy now. You'll be delighted with it or money refunded.

WONDER RADIO LOG CO., 711 South Dearborn, CHICAGO, ILL.

missionalitical

Only



200,000 SATISFIED OWNERS

Getting stations 600 miles away on Lambert Radios. No batteries or tubes required. A real Radio—not a toy or attachment. One to four can listen at once. No howling or screeching noises. Hear local stations on bedsprings, light sockets or telephone. Fully guaranteed. Set, \$2.95—Areal, \$1.00. Mail orders filled same day. We pay postage.

LEON LAMBERT RADIO CO. 212 So. Market St., Wichita, Kansas



Greatest values, Finest reception, Lowest upkeep cost. Handsome steel crystalline case with rubber feet. We guarantee no disappoint-ments. Mail your order today.

Lane Mfg. Co. 2941 West Lake Street Dept. 26, Chicago



vi sc th bl

To K. Co Bi U W Ol W Di ho W Cl M El Ri Do W Ci mi No Be Ki In Fi

St

Cl ti:

Radiophone Broadcasting Stations

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 active to the source of the source o company corrections. Turn in correccompany 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.

WEAI, Ithaca, N. Y. 254.1m-1180kc, 500 watts. Cornell University. Irregular.
WEAM, North Plainfield, N. J. 260.7m-1150kc, 250 watts. Borough of North Plainfield. Announcer, H. W. Blackford. Slogan, "America's Pioneer Municipal Broadcasting Station." Fri, 8-12 pm, concert, talks.

WEAM, North Plainfield, N. J. 260.7m-1150kc. 250 watts. Borough of North Plainfield Announcer, H. W. Blackford. Slogan, "America's Pioneer Municipal Broadcasting Station." Frl, 8-12 pm, concert, talks. Eastern.

WEAN, Providence, R. I. 270.1m-1110kc. 500 watts. The Shepard Stores. Announcer, Chester H. Miller. Daily ex Sun, 12-1 pm, 4-5, music, reports, weather, concert; 6:30-10:30. Sun, 10:45-11:30 am, 7:30-8:45 pm, church service. Eastern.

WEAO, Columbus, Ohio. 293.9m-1020kc. 500 watts. Ohio State University. Daily ex Sun, 9:45 am, 11-1 pm, markets, weather; talks to farmers, markets, music; 4, markets. Tues, 9 pm. Wed, 4:10 pm, program for shut-ins; 8, music, lectures. Thurs, 8 pm, lectures, music. Eastern.

WEAR, Cleveland, Ohio. 389.4m-770kc. 750 watts. The Goodyear Tire & Rubber Co. Announcer, H. K. Carpenter. Slogan, "Goodyear Tires WEAR." Daily ex Sun, 1-12:10 pm. Daily ex Sat, Sun, 3:30-4:10 pm, markets, weather. Daily. 7-8 pm. Tues, Thurs, Fri, 8-11 pm. Sun, 3:30-5 pm, 7-10. Eastern.

WEAU, Sloux City, Iowa 275.1m-1090kc. 100 watts. Davidson Bros. Co. Announcer, W. O. Duccommun. Slogan, "The Heart of the Corn Belt." Daily ex Sun, 9 am, 10, 11, 12 m, 1 pm, 5, markets, weather, sports. Central. WEBC, Superior, Wis. 241.8m-1240kc. 100 watts. Telegram-Ross Elec. Co. Daily ex Sun, 6:15-8 pm. Mon, 3:30-9:30 pm. Wed, Sat, 9-11 pm. Central. WEBD, Anderson, Ind. 245.8m-1220kc. 15 watts. Elec. Equip. & Service Co. Announcer, F. R. Fulwider. Tues, Fri, 8:30 pm. Sun, 7:30 pm, service. Central. WEBD, Cambridge, Ohio. 234.2m-1280kc. 10 watts. Roy W. Watter. Off the air indefinitely. WEBH, Chicago, Ill. 370.2m-810kc. 1,500 watts. Roy W. Watter. Off the air indefinitely. WEBH, Chicago, Ill. 370.2m-810kc. 1,500 watts. Edgewater Beach Hotel-Herald-Examiner. Announcer, Robert Boniel. Slogan, "The Voice of the Great Lakes." Daily ex Sun, 11:30-12 m, 3-4 pm. Daily ex Sun, Mon, Fri, 11-12:30 pm. Fri, 11-12 pm. Sun, 5-6 pm. twilight ex Sun, Mon, 7-9 pm. 7-8. Central. WEBL. 225.4m-1330kc. 10 watts. Eddison. Pick Bellott, Wi

10:39, 10:30. 10. Thurs. 4 pm, 6:30-10, 10. Frl, 4 pm, 6:30-10, 10. Thurs. 4 pm, 6:30-10, 10. Sun. 7:20 pm, 9:20. Eastern. WEHS, Evanston, III. 202.6m-1480kc. 20 watts. Robert E. Hughes. WENC, Berrien Springs, Mich. 285.5m-1050kc. 1500 watts. Emanuel Missionary College. Slogan, "The Radio Lighthouse."

WENR, Chicago, III. 265.3m-1130kc. 1,000 watts. All-American Radio Corp. Announcer, Frank Westphal. Daily ex Sun, Mon. 6-7 pm, 8-10. Wed, Frl, Sat, 12-2 am. Sun, 2-4 pm, 9:30-11:30. Central. WEW, St. Louis, Mo. 247.8m-1210kc. 100 watts. St. Louis University. Daily ex Sun, 9 am, 10, 2, 5 pm, reports. Tues, "Thurs, 7 pm, lectures, music. Sun, 7:15 pm. Central. Slogan, "Working for All News and Dallas Journal. Slogan, "Working for All Alike." Daily, 6:30-7:30 am, exercises; 8:30, 9:30, 10:30, 11:30, reports, news; 5:30, children's hour; 8:30-9:30, concert, weather (silent Wed.). Mon, Thus, Thurs, Frl, Sat, 11-12 pm, music. Sun, 6-7 pm, Bible class; 7:30. church service; 8:30-9:30, 1-12, music. Central. WFAM, St. Cloud, Minn, 272.6m-1100kc. 10 watts. St. Cloud Daily Times. Slogan: "Granite City of the World." Announcer, Otto A. Rupp. Daily ex Sun, 4:40, Lincoln, Nebr. 275.1m-1090kc. 500 watts.

WFAV, Lincoln, Nebr. 275.1m-1090kc. 500 watts.
Univ. of Nebraska. Central.
UFBC, Knoxville, Tenn. 249.9m-1200kc. 50 watts.
First Baptist church. Announcer, St. John Reynolds.
Sun, 10.455 am; 7:30 pm, services; 4 pm, sacred music.
Central.

WFBD, Philadelphia, Pa. 234.2m-1280kc. 5 watts. Gethsemane Baptist church.

WFBE, Seymour, Ind. 225.4m-1330kc. 10 watts. Van de Walle Music and Radio company. Announcer, John

Van de Walle,
WFBG, Altoona, Pa. 277.6m-1080kc. 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,
Tues, Fri, 11:15 pm. Sun, 10:30 am; 4 pm, 6, 7:30,
9:15, 11:15. Eastern.

WFBH, New York, N. Y. 272.6m-1100ke, 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. 236.1m-1270ke, 500 watts. Galvin Radio Supply Co.

vin Radio Supply Co.

WFBJ, Collegeville, Minn. 236.1m-1270kc. 50 watts.
St. John's university. Announcer, Hilary Doerfier.
Slogan, "In the Heart of the Landscape Paradise."
Sun, 5-5:45 pm. Central.

WFBL, Syracuse, N. Y. 252m-1190kc. 100 watts.
Onondaga Hotel company. Announcer, Ernest E.
Chappell. Daily 3-4 pm. 6-8, Tuesday, 9:30-10:30 pm.
Thurs, 7:45-10 pm. Frl, 8:15-10 pm. Sat, 11-12:30
am. Sun, 3-4:30 pm, 5-8:30. Eastern.
WFBM, Indianapolis, Ind. 267.7m-1120kc. 250 watts.
Merchants Heat and Light company. Announcer, John
E. Tribby. Slogan, "The Convention City of America."

ica."

WFBR, Baltimore, Md. 254.1m-1180kc. 100 watts.
Fifth Infantry, Maryland National Guard. Slogan,
"Home of the Star Spangled Banner." Announcer,
S. R. Kennard. Dally matinee programs. Tues, Thurs,
Sat, evening programs. Sun, afternoon program.
Eastern.
WFBZ, Galesburg, III. 254.1m-1180kc. 20 watts. Knox

Eastern.

WFBZ Galesburg, III. 254.Im-1180kc. 20 watts. Knox college.

WFDF, Flint, Mich. 234.2m-1280kc. 100 watts. Frank D. Fallain. Slogan, "The Vehicle City." Mon, Wed, Fri, 8 pm. Eastern.

WFI, Philadelphia, Pa. 394.5m-760kc. 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, III. 217.3m-1380kc. 500 watts. Francis K. Bridgman. Announcer, Horace Kehm. Daily ex Sun, Mon, 7-10 pm. Central.

WFRL, Brooklyn, N. Y. 205.4m-1460kc. 100 watts. Flatbush Radio Laboratories.

WGAL, Lancaster, Pa. 247.8m-1210kc, 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. 243.8m-1230kc. 100 watts. Harry E. Carman. Mon, Wed, Fri, 8-10:30 pm. Sun, 10:40 am, church. Eastern.

WGBC, Memphis, Tenn. 277.6m-1080kc. 10 watts. First Baptist church. Announcer, M. L. Martin. Sun, 9:55 am, 7:30 pm. Central.

WGBF, Evansville, Ind. 236.1m-1270kc. 500 watts. The Finke Furnfuture Co. Announcer, Harold Finke. Daily ex Sun, 12:10 pm, weather. Tues, Fri, 8-10 pm. Central.

WGBI. Scranton. Pa. 240 meters. 10 watts. Frank S.

 WGB1, Scranton, Pa.
 240 meters.
 10 watts.
 Frank S.

 Megargee.
 R.
 I.
 234.2m-1280kc.
 100 watts.

 WGBM, Providence, R.
 I.
 234.2m-1280kc.
 100 watts.

 WGBR, Marshfield, Wis.
 228.9m-1310kc.
 10 watts.

 George S.
 Ives.
 Sun, 2-4 pm.
 Central.

 WGBS, New York, N.
 Y.
 315.6m-950kc.
 500 watts.

 Sun, 10-2:30 pm.
 entertainment; 3-7:30·12.
 Daily ex

 Sun, 10-2:30 pm.
 entertainment; 3-7:30·12.
 Sun, 3:30-12.

 12: Thurs, 8:30·1 am.
 Sat, 7:30·12.
 Sun, 3:30-12.

 4:30 pm; 9:30.
 Eastern.
 MGBU, Fulford By-the-Sea, Fla.
 277.6m-1080kc.
 500

 watts.
 Fulford By-the-Sea, Fla.
 277.6m-1080kc.
 500
 watts.

 Tuber, 6:30-7:30; 11-2 am.
 Tues, Thurs, Sat, 12-1
 pm; 6:30-7:30; 10-1 am.
 Sun, 9:30-11:30
 pm.

 Eastern.
 Tues, Thurs, Sat, 12-1
 pm; 6:30-7:30; 10-1 am.
 Sun, 9:30-11:30
 pm.

Bastern.

WGBX, Orono, Me. 252 meters. 500 watts. University of Maine.

WGCP, New York, N. Y. 252m-1190ke. 500 watts. Grand Central Palace. Announcer, Alfred Hall. Slogan, 'Four Leaf Clover Station.' Daily ex Sun, 3-5:30 pm. Mon, 8:30-10:30 pm. Wod, Fri, 7-8:30 pm. Thurs, 10:30-12 mid. Sat, 8:30-11 pm. Sun, 3-5:30 pm. Eastern.

WHAP, Madison, Wis. 535.4m-560kc. 750 watts. Unity of Wis.
WHAP, Madison, Wis. 535.4m-560kc. 500 watts.
Marquette University. Milwaukee 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.
WHAM, Rochester, N. Y. 277.6m-1080kc. 100 watts.
Univ. of Rochester. Rochester Time-Union, Democrat and Chronicle. Daily ex-Sun, 3:30-4 pm, 5-5:45, 7-7:40. Wed, 8-10 pm. Sat, 10-12 mid. Sun, 3:15, Radio Chapel. Eastern.
WHAP, New York, N. Y. 239.9m-1250kc. 500 watts.
William T. Taylor Finance Corp. Announcer, Franklin Ford. Slogan, "The Station for Public Service."
Daily ex Sun, 6-11 pm. Sun, 2-8:30 pm. Eastern.
WHAR, Atlantic, City, N. J. 275.1m-1090kc. 500 watts.
Seaside Hotel. Announcer, E. Dennison. Daily ex Sun, 2-9 m7;30, 8. Tues, Fri, Sun, 11:15 pm, organ.
Mon, Thurs, 11:30 pm. Sun, 10:45 am; 2:15 pm, 2:45. pm; 10-12. Central.
WHAS, Louisville, Ky. 399.8m-750kc. 500 watts.
Courler-Journal and Louisville Times Co. Announcer, D. H. Ives. Daily ex Sun, 1-2 pm, 2:36-2:30, 4-5, 7:30-9. Sun, 9:37-10:45 am, 4:30-5:30 pm, service. WhAT, Minneapolis, Minn. 263m-1140kc. 500 watts.
Twin City Business Men's Broadcasting station. Announcer, Dr. George Young. Mon, 6-8 pm, 9-11.

WHAG, Norfolk, Nebr. 270.1m-1110kc. 200 watts. Norfolk
WHAG, Norfolk, Nebr. 270.1m-1110kc. 200 watts. Norfolk

Tues, 7-8 pm. Wed, 6-10 pm. Fri, 7-11 pm. Cen-

Tues, 7-8 pm. Wed, 6-10 pm. Fri, 7-11 pm. Central.

WHAV, Wilmington, Del. 265,3m-1130kc. 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. 379,5m-790kc. 1000 watts. Rensselaer Polytechnic Inst. Announcer, Rutherford Hayner. Slogan, "Transcontinental and International Broadcasting. Station Located at the Oldest College of Science and Engineering in America." Club, R. P. I. students. Mon. 9-12 midnight, concert, educational talks, orchestra, features. Second Monday of month, 12-1:30 am. International test program. Eastern. WHB, Kansas City, Mo. 365,6m-820kc. 500 watts. Sweeney Auto & Electric School. Announcer, John T. Schilling. Slogan, "Heart of America." Daily exsun, 3:25 am, 9:125, 9:30, 9:35, 10:25, 10:30, 10:35, 11:20, 11:30, 11:35, 11:55, 12 noon, market reports. Daily ex-Sun, 8:25 am, 9:125, 530, 9:35, 10:25, 1230, 1255, 1240, stocks; 2, musicale; 3-3:05, U. S. W. B.; 3:05, markets; Tues, Thurs, 7-7:45 pm, dinner hour music; 8-10, evening concert. Mon. Wed, Fri, 7-8 pm. Sat. 12:05 pm, 12:30, 125, markets. Sun, 9:45-10:45 am, service; 11-12:15 pm; 8-9:15, service; 11:15-1 am, organ. Central.

WHBA, Oil City, Pa, 249.9m-1200kc. 10 watts. Shaffer Music House.

WHBC, Canton, Ohio. 254.1m-1180kc. 10 watts. Rev. E. P. Graham. Mon, 8-8:30 pm. Eastern.

WHBB, Rock Island, Ill. 222.1m-1350kc. 20 watts. Beardsley. Meanwal (Portable).

WHBG, Harrisburg, Pa. 230.6m-1300kc. 20 watts. John S. Skane. Tues, Thurs, 9-12 midnight, Fri,

Beardsley Specialty company, Announcer, C. 1.
Beardsley. Mon, Wed, 7-9 pm, Sat, 2-4 pm, 7-9
Central.
WHBG, Harrisburg, Pa. 230.6m-1300kc. 20 watts.
John S. Skane. Tues, Thurs, 9-12 midnight. Fri,
7:45-9:15 pm. Sun, 9:15-11 pm. Eastern.
WHBH, Culver, Ind. 222.1m-1350kc. 100 watts. Culver
Millitary Academy. Announcer, Charles C. Mather.
Mon, 8:30 pm, Sat, 7:15 pm. Central.
WHBI, Ft. Wayne, Ind. 234.2m-1250kc. 50 watts.
Lauer Auto company.
WHBK, Ellsworth, Maine. 230.6m-1300. 10 watts.
Lauer Auto company.
WHBK, Ellsworth, Maine.
WHBL, Logansport, Ind. 215.7m-1390kc. 50 watts.
Franklin St. Garage, Inc.
WHBM, Chicago, Ill. 215.7m-1390kc. 20 watts.
C. L.
Carrell. (Portable).
WHBN, St. Petersburg, Fla. 238m-1260kc. 10 watts.
First Avenue Methodist church.
WHBP, Johnstown, Pa. 256.3m-1170kc. 10 watts.
First Avenue Methodist church.
WHBQ, Memphis, Tenn. 232.4m-1290kc. 50 watts.
Men's Fellowship class. St. John's M. E. church.
Announcer, Dr. George L. Powers. Slogan, "Wed, 8Bet Quartet." Wed, 8-9 pm, music. Sun, 9:4510:45 am, 11, 7:45 pm, services. Central.
WHBU, Anderson, Ind. 218.8m-1370kc. 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,
Daily ex Sun, 9-9:30 am, 12-12:30 pm.
Wed, Fri,
Daily ex Sun, 9-9:30 am, 12-12:30 pm.
Wed, Fri,
D. R. Klenzle. Mon, evening.
WHDI, Minneapolls, Minn. 277.6m-1080kc.
Wh. R. Bass. Mon, 8-9 pm. Wed, Fri, 9-10 pm.
Central.
WHEC, Rochester, N. Y. 258.5m-1160kc. 100 watts.
Hickson Electric company. Inc. Announcer, Maurice

Wm. Hood Dunwoody Industrial Institute. Announcer, M. R. Bass. Mon. 8-9 pm. Wed, Fri, 9-10 pm. Central.

WHEC, Rochester, N. Y. 258.5m-1160kc. 100 watts. Hickson Electric company, Inc. Announcer, Maurice Clark. Slogan, "With Hickson Elec. Co." Daily ex Sun, 5:30-6 pm, triwlight program; 6:30-7 orchestra. Eastern.

WHK, Clereland, Ohio. 272.6m-1100kc. 250 watts. Radio Atr. Service Corp., Winton Hotel. Slogan, "Cleveland, the Convention City." Daily ex Sun, 6:36-7:30 pm. Thurs, 7:39-9 pm, musicale. Sun, 10:30 am, service; 6:15-7:15, 7:45-8:30, Bible lecture; 8:30-10, music. Eastern.

WHN, New York, N. Y. 360m-833kc. 500 watts. Loew's State Broadcasting Station. Announcer, N. Loew's State Broadcasting Station. Announcer, N. T. Grandlund. Slogan, "The Voice of the Great White Way." Daily ex Sun, 12-1 pm, 2:15-3:16, 3:45-5:30, 6:30-12 midnight. Sun, 3-6 pm, 9:30-12. Eastern.

WHO, Des Moines, Ia. 526m-570kc. 5,000 watts. Bankers Life Co. Announcer, N. Dean Cole. Daily ex Sun, 9:45 am, 12 m, 2 pm, markets, weather. Mon, Tues, Thurs, Life, 7:30-9 pm. Weds 6:30-7:30 pm, 7:30-9, 9-10, 10-11:30. Fri, 11-12 mid. Mon, Tues, Thurs, 11-12 midnight. Sun, 11 am, 1 mn, 7:30-8:30-8:30-12 whth Chicago, III. 238m-1260kc, 399.8m-750kc. 2500

Bankers Life Co. namouncer, N. Dean Cole. Dally ex Sun, 9:45 am, 12 m, 2 pm, markets, weather. Mon, Tues, Thurs, Frl., 7:30-9 pm. Weds 6:30-7:30 pm, 7:30-9, 9-10, 10-11:30, Frl., 11-12 mid. Mon, Tues, Thurs, 11-12 mid. mid. Frl., 11-12 mid. Mon, Tues, Thurs, 11-12 mid. mid. Sun, 11 am, 1 pm, 7:30-8:30. Central.

WHT, Chicago, Ill. 238m-1260kc, 399.8m-750kc, 2500 watts. Wriley Bidg. Announcer, Patrick Henry Barnes, Dally 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, 7-13 am, Sun, 12-11:30 pm, Paul Rader. Central.

WIAD, Philadelphia, Pa. 249.9m-1200kc, 100 watts. Howard R. Miller. Slogan, "The Voice from the Birthplace of Liberty." Tues, Fri, 9 pm. Eastern. WIAS, Burlington, Ia. 254.1m-1130ke, 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. 236.1m-1270kc, 100 watts. The Capital Times. Announcer, Trevor Griffiths. Slogan, "Four Lakes City." Mon, Wed, 8:45-10 pm. Fri, 3:45-19:30 pm. Sat, 12:01-2 am. Central.

WIBG, Elkins Park, Pa. 222.1m-1350kc, 50 watts. St. Paul's Protestant Episcopal church. Announcer, Stuart C. Mahaney. One Monday a month Agontz Forum speaks. Sun, 10:45 am, 2:45 pm. Eastern.

WIBH, New Bedford, Mass. 209.7m-1430kc, 30 watts. Elite Radio Stores. Announcer, J. T. Moriarty. Slogan, "The Voice of New Bedford." Daily ex Sun, 12-1:30 pm. Sun, 1-3 pm. Eastern.

WIBH, New Bedrord, Mass. 209.7m-1430kc, 50 watts. Frederick B. Zittell, Jr.

WIBG, Chicago, Ill. 215-7m-1390kc, 50 watts. C. L. Carrell. (Portable).

WBM Chicago, Ill. 215-7m-1390kc, 50 watts. C. L. Carrell. (Portable).

WBM Chicago, Ill. 215-7m-1390kc, 50 watts. Prown Service; 2-4 pm, concert; 6-8, 10-12. Central.

WIBL, Weirton, W. V. 245.8m-120kc, 50 watts. Tri-State Radio Co. Announcer, Wayne Meyers. Daily ex Sun, 2-3 pm. Battern.

WHSP, Henderson, N. C. 265m-1140kc, 500 watts. New Jersey National Guard.

WHSP, Henderson

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.

WJAK, Kokomo, Ind. 254.1m-1180kc. 50 watts. Clifford L. White. Slogan, "The Radio Parson." Daily ex Sun, 12 noon, news. Sat, 6 pm, Sunday school lesson. Central.

WJAM, Cedar Rapids, Iowa. 267.7m-1120kc. 100 watts. D. M. Perham Tues, Thurs, Sat, 7-10 pm, Sun, 4 pm, vesper service. Central.

WJAM, Providence, R. I. 305.9m-980kc. 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, Frl. 10:45 am, household hints. Mon, 7:30-11 pm. Tues, 7:30-10 pm. Wed, 7:30-10:30 pm, Thurs, 7:45-11 pm. Frl, 7:30-10 pm, 11-12. Sun, 7:20-10:15 pm. Bastern.

WJAS, Pittsburgh, Pa. 275.1m-1090kc. 500 watts. Pittsburgh Radio Supply House. Pickering's Studio. Announcer, Bryan McDonald. Slogan, "World's Jolliest Aerial Station." Daily ex Sun, 7-8 pm, dinner concert; 8-11. Sun, 2 pm. Eastern.

WJAX, Jacksonville, Fla. 336-8pm-890kc. 1000 watts. City of Jacksonville, Fla. 336-8pm-890kc. 1000 watts. Zenith Radio Corp. Announcer, E. F. McDonald, Jr. Wed, Sat, 9-2 am. Thurs, 10-12 midnight. Sun, 7-9 pm. Central.

WJBA, Joliet, Ill. 206.8m-1460kc. 50 watts. D. H. Lentz, Jr. Tues, Thurs, Sat, 7-12 midnight. Central.

Sat, 9-2 am. Thurs, 10-12 midnight. Sun, 7-9 pm. Central.

WiBA, Joliet, Ill. 206.8m-1460kc. 50 watts. D. H. Lentz, Jr. Tues, Thurs, Sat, 7-12 midnight. Central.

WiBB, St. Petersburg, Fla. 254.1m-1180kc. 10 watts. L. W. McClung.

WiBC, I. Salle, Ill. 234.2m-1280kc. 100 watts. Hummer Furniture Co. Announcer, Harry Halpin. Daily ex Sun, 12:30-1 pm. Mon, 8-11 pm. Central.

WiBC, Charlotte, N. C. 223.7m-1340kc. 10 watts. Interstate Radio, Inc.

WiBI, Red Bank, N. J. 218.8m-1370kc. 250 watts. Robert S. Johnson.

WiBK, Tpslanti, Mich. 232.4m-1290kc. 10 watts. Ernest F. Goodwin.

WiBL, Decatur, Ill. 270.1m-1110kc. 500 watts. William Gushard Dry Goods Co. Announcer, H. B. Rickards. Mon, Wed, Sat, 9:30-11 pm. Central.

WiBP, Buffalo, N. Y. 218.8m-1370kc. 50 watts. Seneca Mon, Wed, Sat, 9:30-11 pm. Central.

WiBP, Buffalo, N. Y. 218.8m-1370kc. 50 watts. Seneca control Control School.

WiBQ, Lewisburg, Pa. 211.1m-1420kc. 100 watts. Bucknell University. Slogan, "In the Heart of the Keystone State."

WiDD. Moosehert. Ill. 370.2m-810kc. 1.000 watts.

neil University. Siogan, "In the Heart of the Keystone State."

WJJD, Moosehert, III. 370.2m-810kc. 1,000 watts. Loyal Order of Moose station. Announcer, Jack Nelson. Slogan, "The Call of the Moose." Daily ex. Sun, Mon, 12-1 pn, 2-3; 4-5 pm, children's program; 6-7 pm, 10-11, 12:30-2 am. Sun, 7:45-8:40 am, services; 9:45-11 am, services; 3-4. Central.

WJR, Pontiac, Mich. 516.9m-580kc. 5,000 watts. Jewett. Radio and Phonograph Co. Slogan, "Where Joy Reigns." Announcer, Lee 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. 405.2m-740kc. 5,000 watts. R. C. A. Announcer, J. Lewis Reid. Tues, Thurs, Fri, 7:30-11:30 pm, concert. Sun, 8:15-10:30 pm. Eastern.

R. C. A. Announcer, J. Lewis Reid. Tues, Thurs, Fri, 7:30-11:30 pm, concert. Sun, 8:15-10:30 pm. Eastern.

WIZ, New York, N. Y. 454.8m-660kc. 5,000 watts. R. C. A. Announcer, Milton J. Cross. Daily ex Sun, 10-11 am, 1-2 pm, 4-6, entertainment; 7-11:30 pm, special program. Sun, 11-1 pm, church services; 2:30-5 pm, 7-10:30 pm. Eastern.

WKAF, Milwaukee, Wis. 260.7m-1150kc. 500 watts. Kesselman-O'Driscoll-Hotel Antilers. Announcer, Robert F. Hall Co. Mon, Wed, Fri, 10-11 pm; Thurs, 8:30-10 pm. Sat, 8:30-10 pm; 11:30-1 am. Sun, 4-6 pm. Central.

WKAQ, San Juan, Porto Rico. 340.7m-880kc. 500 watts. Radio Corporation of Porto Rico. Announcer, Josquin Augusty. Slogan, "The Island of Enchantment, Where the World's Best Coffee Grows." Wed, 8-10 pm, band. Thurs, 8:30-10 pm, Rialto theater orchestra. Fri, 9-10 pm, Porto Rican Atheneum, talks. Intercolonial. WKAR, East Lansing, Mich. 285.5m-1050kc. 1,000 watts. Michigan State College. Announcer, Jim Gamble. Mon, Wed, Fri, 7-9 pm. Tues, Thurs, 7-8 pm. Sat, 12:30-2 am. Eastern. WKAY. Laconia, N. H. 223.7m-1340kc. 50 watts. Laconia Radio Club. Fri, evening concerts. Sun, 10:30 am; 6:30 pm. Eastern.

WKAY, Laconia, N. H. 223.7m-1340kc. 50 watts. Laconia Radio Club. Fri, evening concerts. Sun, 10:30 am; 6:30 pm. Eastern.

WKAB, Johlet, Ill. 214.2m-1400kc. 100 watts. Sanders Brothers. Wed, 6:30-8:30 pm. Thurs, Sun, 8:30-12 midnight. Central.

WKBE, Webster, Mass. 230.6m-1300kc. 100 watts. K. & B. Electric Co. Mon, 8-12 midnight. Eastern. Loarrell. (Portable.)

WBNY, New York, N. Y. 209.7m-1430kc. 500 watts. Shirley Katz.

WKRC, Cincinnati, Ohio. 422.3m-710kc and 325.9m-920kc, alternate months. 1,000 watts. Kodel Radio Corp. Announcer, Eugene S. Mittendorf. Mon, 6:15-7 pm, 8-10, 12-1 am. Central.

WKY, Oklaboma City, Okla. 275.1m-1090kc. 100 watts. E. C. Hull, H. S. Richards. Daily ex Sun, 9 am, 100, 12-1 am. Tentral.

WKA, C. Lincinnati, Ohio. 422.3m-710kc. 100 watts. C. L. Carrell. H. S. Richards. Daily ex Sun, 9 am, 2 noo, 2:30 pm, markets, weather; 7-8:30, music. Sun, 11 am,

WLAL, Tulsa, Okla. 249.9m-1200kc. 100 watts. First Christian church. Announcer, R. W. Burkhart. Slo-gan, "The Voice of the Church." Sat, 7:30 pm, Bible class. Wed, 9:30 pm. Sun, 7:30 pm, church. Central.

class. Wed, 9:30 pm. Sun, 7:30 pm, church. Central. WLAP, Louisville, Ky. 275.1m-1090kc. 20 watts. W. V. Jordon. Tues, Fri, 9:20-10 pm. Central. WLBL, Stevens Point, Wis. 277.6m-1080kc. 500 watts. Wisconsin Dept. of Markets. Slogan, "Wisconsin, Land of Beautiful Lakes." Daily ex Sun, 8:45 am, 9:45, 10:45, 11:45, 12:30 pm, 1:45, markets. Tues, Thurs, 8 pm. Mon, Fri, 6 pm. Central. WLIB, Chicago, Ill. 302.8m-990kc. 2,500 watts. Liberty Magazine. Announcer, Bill Hay. Daily ex Sun, Mon, 7-8 pm, 11-1 am. Sun, 5-6 pm. Central.

Mon, 4-8 ph, 11-1 and Sui, 3-9 ph. Centar.

WLIT, Philadelphia, Pa. 394.5m-760kc. 500 watts. Lit.

Bros. Announcer, Harry E. Ehrhart. Club, "Moning Glory." Daily ex Sun, 12:02 pm, music; 2, music, Mon, 4:30 pm, 7:30, 8, 10. Tues, 11 am. Wed, Thurs, 4:30 pm, Wed, 7:30 pm, 8, 10, 11. Fri, 7:30 pm, 8:45, 10. Eastern.

7:30 pm, 8:45, 10. Eastern.

WLS, Chicago, III. 344.6m-870kc. 5,000 watts. Sears, Roebuck & Co. Slogan, "World's Largest Store." Dally ex Sun, 9 am, 11, markets; 12-1 pm, music; 2, markets; 3-4, homemakers' hour. Dally ex Sun, Sat, 6-6:40, supper program; 6:40, organ. Tues, 7, lullaby time; 7:20, music. Wed, 7-12 midnight. Turs, 7 pm, 7:20. Fri, 7-12 midnight. Sat, 7-12 midnight. Sun, 6 pm, prelude; 7-7:55, WLS Little Brown church. Central.

WLSI, Providence, R. I. 440.9m-680kc. 500 watts. Dutee W. Flint, Inc.

Dutee W. Flint, Inc.

WLTS, Chicago, Ill. 258.5m-1160kc. 100 watts. Lane Technical High School. Fri, 1-2 pm. Central.

WLW, Cincinnati, Ohio. 422.3m-710kc. 5,000 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 Sat, Sun, 7:45 am, morning devotions; 8, exercises; 12:15, program; 3, 4, reports. Mon, Tues, 8-10 pm. Wed, Thurs, 10-12 midnight. Sun, 9:30 am, 11, 7:30 pm, 8:30. Central.

WLWL, New York, N. Y. 288.3m-1040kc. 1,500 watts. The Paulist League. Announcer, James F. Cronin. Slogan, "For God and Country." Mon, Wed, Thurs, 9 pm. Sun, 8 pm. Eastern. (Note—The fourth part of the directory will appear

(Note-The fourth part of the directory will appear

GESHMAN GRESHMAN Another Sensation!

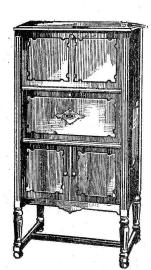
MODEL 6-F-1 New and Improved FRESHMAN MASTERPIECE

The World's Greatest Radio Receiving Set

Freshman's latest sensation, illustrated here, has a real appeal to the women of the home. It is built of five-ply genuine mahogany; a handsome piece of furniture that fits in any corner of any sized room. It is compact and comparatively small, giving it preference over clumsy consoles. Contains an especially large tone chamber,

With Built-in Loud Speaker of Great Volume and Superb Tone

When not used as a radio, this console can be entirely closed. The top is stationary and provides an attractive resting place for vases and other ornaments. Spacious compartments afford ample room for all batteries, etc.—not a single wire being visible.

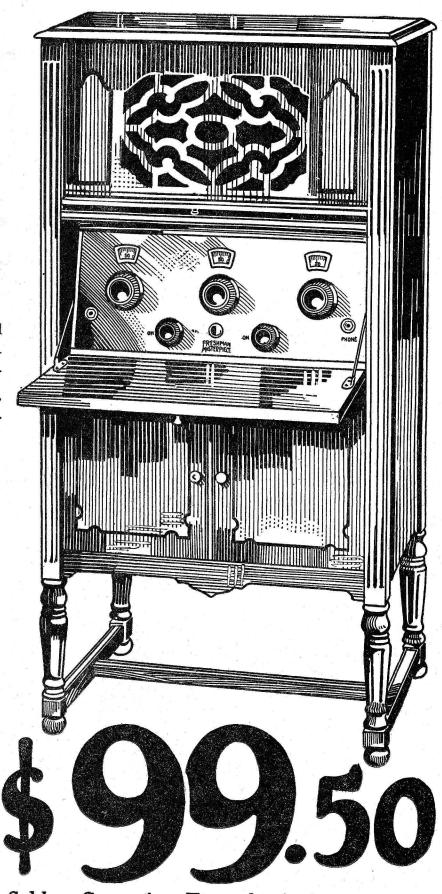


The Radio Receiver Women Have Been Waiting For

Here you see Model 6-F-1 entirely closed—real furniture for which no home is too pretentious and none too modest to afford.

Write for free illustrated booklet, describing this handsome console in detail.

CHAS. FRESHMAN CO., INC.
Freshman Building
Preshman Building
Rew York
Chicago



Sold on Convenient Terms by Authorized Freshman Dealers, Who Also Install and Service Them.