Expose WTAM Coo Coo Club Ritual

Radio

Vol. XV

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No. 13



Experiences of "Harmony Girls"; Old Hand Saw Is New Radio Star; KWKH in Photos; Index to Women's Programs; Wiring "Straight-8"; How to Operate the Christmas Set

DEAF "HEAR" JAZZ OF PAUL ASH BAND

FAMOUS CHICAGO AURIST MAKING INVESTIGATION

Fans Unable to Receive Other Programs
Can Enjoy Syncopation of McVickers Orchestra

CHICAGO.—"Jazz music for the deaf!" Will this be an announcement on Radio programs of the future? Is it possible that those without hearing are to have the pleasures of music?

These questions are raised by an unique investigation being conducted by a famous Chicago aurist in cooperation with Paul Ash, noted jazz leader and Radio star of Westinghouse Station KYW here. The renowned car specialist—who forblds use of his name until his experiments are completed—became interested in the subject when shown a number of letters received by Paul Ash from his "fans" who attend his jazz shows at McVicker's theater.

Hears Ash But Not Opera

Attend in Jazz shows at Mevicer's theater.

Hears Ash Brit Not Opera

Miss Mabel M. Bedford, 2129 W. Twenty-first street, Chicago, one of the writers, said that although she is deaf she "hears" Faul 'Ash's jazz band at the theater. She explained that it is the only sound she could hear. Opera performances fail to reach her.

Confirming this phenomenon there came another letter from Miss Ellen Carlson, 4659 Sheridan road, Chicago, in which she also tells of enjoying Ash's jazz music although deaf. Several other similar reports have been received and ushers at the theater say that a score or more of apparently deaf persons are seen there every day.

every day.

Ash is of the opinion that there are certain jazz strains which set up vibrations which are "felt" by the deaf.

HOLLYWOOD USES MOBILE STATIONS

Three Main Broadcasters Have Portable Short Wave Sets for Unique Programs

HOLLYWOOD, Calif.—The three main Hollywood broadcasters, KFWE, KNX and KMTR, are now each equipped with, a portable short wave broadcast set. KFWB owns and operates mobile Station 6XBR, operating with 250 watts power on 108 meters. This transmitter is mounted in a regular bus chassis and body and is about the most complete installation of its kind that has been attempted anywhera.

its klud that has been attempted anywhere.

KNX was the first station on the air in these parts with 6XA doing the short wave broadcasting on 110 meters, 100 watts power, and KMTR is now supplying entertainment from various points in conjunction with its 6XAB, on. 106 meters, 100 watts. Both 6XA and 6XAB are mounted in passenger automobiles.
6XA and KNX have broadcast all the major football games from the Los Angeles Coliseum this fall and winter while 6XER will soon be on the air with many novel stunts of the kind that only a movie studio can furnish.

WEAF Is Swamped by Requests for Pictures

Photographs of Capitol Family Are in Big Demand

NEW YORK—Since Major Edward Bowes announced recently that photographs of the Capitol WEAF "family" would be available, thousands of requests have been pouring in through the mail. As it is impossible to comply with the great number of requests on hand immediately, the major assures his enthusiastic listoners that these will be taken care of within the next few weeks. Requests are being filled in the order of their receipt and additional clerical help has been engaged to faoilitate the mailing of the photographs.

Husbands Can Now Check

Husbands Can Now Check
Up on Their Brides' Biscuits
CINCINNATI—A cooking school vla
Radio has been inaugurated by the Crosley WLW broadcasting station under the
direction of Mrs. Rahph El. Auch, dietician.
Hints on the art of cooking and some
recipes are broadcast every Wednesday
afternoon at 3:30 o'clock. Letters have
been received from men as well as women,
which shows there are a lot of the male
sex interested in the culinary art. Perhaps some of the husbands are checking
up their brides' stories of Tood preparation.

MYSTERY MAID OF HOOT OWL FROLICS



ANITA NIETO, COVER GIRL, STAR AT KYW

OY, mischievous Anita Nieto graces the cover of Radio Digest this week. Like her? Who wouldut! Besides being a microphone habitue of Westinghouse Station KYW, Chicago, Anita is starring in The Daughter of Rosie O'Grady," a light musical comedy now placing the S.R.O. sign in front of the box office most every evening. In the show she is one of the four specialty girls, and it is her job to show the public the "Charleston," as it is supposed to be done.

"Enigma" has thousands of KGW listen-ers trying to guess her identity, and so far she has completely battled the best of them. But her secret will soon be dis-closed.

them. But her sected with closed in Enigma' will cease to be mysterious after the annual Hoot Owl Hungari, next Friday night, January 8, which will take the form of a dinner and a sample Hoot Owl frolic. During the course of the Eungari, Enigma: will be unmasked and the listener who has guessed her identity will receive a handsome and appropriate prize.

PORTLAND, Ore—The smiling lady with the laughing eyes under her foreboding mask is none other than "Enigma," the Hoot Owl Mystery Maid.

CONTENTS

Radio Diest, Illianziatel, Volume XV, Number 18, sublithed Chiene, Illianis, Islamry 2, 1938, Poblished weekly by Radio Direct Poblishing, Co. (Innerprented), 518 N. Destron Street, Chicago Illianis, Subseriptio rokes yearly, Eive Dollars; Foreign Postage One Dollar additional; single copies Ter. Cents, English as second class matter at the post office at Chiego, Illinois, under the Act of March 3, 1879.

All the Live News of Radio			1	to 1
Harmony Girls Have Been on KYW Staff for Fiv	e Years			
Hand Saw and Pitchfork Join Radio Chorus				
Ritual for WTAM Coo Coo Club Candidates				
'Iron Man of the South' Maintains KWKH				
Women's Page; Index to Women's Programs				1
Advance Programs for the Week			13	to 2
An Evening at Home with the Listener In; a Ch when to listen in for stations	art in Bas	itern Time, :	howing	2
Editorials, Indi-Gest and Condensed by Dielectr	io			2
Installation and Care of the Christmas Set, Par necting Accessories, by John G. Ryan	II—Loud	Speakers a	nd Cou-	2
Straight-8: Outside Aerial Tuned R.F. Super, Pa Jacques Fournier	rt III—T	he Wiring, h	y	
Applied A.B.C. Principles of Radio Reception, Par by Carl Patterson	rt III—Inc	reasing the	Volume,	2
Directory of Radiophone Broadcasting Stations,	Part II			,8

Looking Ahead

Swarthy Muscovites Patrol the Streets and Highways of the Little Republic Called Georgia, just below the red border line of Russia. But patriots keep in touch with their president through secret Radio receiving stations always in contact with the temporary capital in Paris. See the next Radio Digest.

All the Long Horns in Texas Do Not Belong to Cattle. Some of them belong to people and some of the best of them are heard through the ether ranges of KPRC, at Houston. Texas, the Lone Star state, is not limited in the number of stars who may be heard on the air, as you may discover in the next Radio Digest.

"Now I Lay Me Down to Sleep." but first set the dials for the bedtime story. Whoever can begin to estimate the full importance of the dream daddies, the uncles, the big brothers and the story ladies in the lives of the little folks of today? It's the subject of a feature in the next issue of this magazine.

"Enigma," Mystery Maid of the KGW Hoot Owls, will be stripped of her mask and shown face to face with the readers of next week's Radio Digest. The great revelation and unveiling will take place at the annual Hungari in the KGW studio in Portland next Friday night. Other secrets of the order, fully illustrated, will also be published in these pages.

J. Harris Rogers of Hyattaville, Md., writes in the next issue of Radio Digest. He will tell of his work with underground aerials for reception and transmission. He is the pioneer in this field of research and Radio Digest being the sponsor of these aerials for B. C. L. use, is most glad to have the eminent doctor contribute.

New ABC Series for Beginners will start next week. The articles are written by Milo Gurney, famous in the Radio world for his Miloplex receivers and his series last summer on tuned bridge hook-ups. In this remarkable series the public was given its first insight into the developments now found in many of our standard sets. Read Gurney's ABC's!

Newsstands Don't Always Have One Left

WHEN YOU WANT

Radio Digest

YOU WANT IT!

BE SURE OF YOUR WEEKLY COPY BY SUBSCRIBING NOW

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Address	

SILENT NIGHT FIGHT ON IN LOS ANGELES

STATION KFI OPPOSES ANY SPECIAL DX PERIOD

Question Becomes Live Dispute Between Fans and Broadcasters; Agitation Is Growing in Detroit

Is Growing in Detroit

LOS ANGELES.—The silent night question for Los Angeles is again a live one. Several off the stations observe silent night but no two of them the same night, while four stations do not observe silent nights or silent periods.

After long and careful consideration, ICPI finally made public their attitude on the question when they announced that KFI was against a silent night, At the same time, in a news release, KFI tipped its "microphone hat" to WIBO. Chicago, in recognition of that latter station advising Chicago fans when KFI was coming in good. Many of the fans feel that KFI is delighted to have a silent night in other parts of the country but unwilling to sacrifice anything for the local fans, a line of reasoning that is hard to follow. Many feel that KFI should occasionally doff its aerial derby to the local listeners, who outnumber all the distant listeners two to one, instead of following a "public be damned" policy as it has been accused of doing in the past.

Los Angeles needs a local silent period just as Chicago, or any other congested place does. At any rate the agitation for a silent night refuses to die and it may result in a boycott of those stations who refuse to accede to the demands of the disteners.

Three Detroit Stations Keep Busy DETROIT.—Advocation for a silent night in Detroit is growing here among the Radio listeners, to aid them in getting distant stations without local interference. At the present time three stations, WCX, WJR and WGHP, do not observe silent night at least once a week. WCX and WJR use the same transmitting station, a 5,000-watt equipment, but have the separate calls.

SHORT WAVES

- By Marcella -

Well, well, here we are again. How did you like our first appearance? Several of the ladies have written already. You'd be surprised to learn what they wanted to know. Maybe the notes below will give you an idea. Some of them were asked. Others I just added to make it interesting.

Others I just added to make it interesting.

D. R. P. Coats, the most popular announcer in Canada, need not receive love notes. Cross him off the list, girl friends, for he's married, and say, the stork visited the Coats family just recently and left the cutest baby boy. Yes, Junior is broadcasting, but in a less pleasant voice than that of his genial father.

Of course you Quaker mothers (and maybe a few misses, too) remember "Sunny Jim" of WFI, Philadelphia? Not long ago, a year or thereabouts, he traveled west to Hollywood. To the movies? Yes, but to write scenarios—not to act. Then he became "fed up" on Hollywood and went back to Philly. Home wasn't just the same, so back to sunny California went Sunny Jim. KNX now claims him and his children's stories.

Which one of you sent the Gold Duest.

Which one of you sent the Gold Dust Twins of WEAF that box of paper roses? And you put a note in the box, saying, "With love," Well, it was a kind thought, anyway, for the two boys tell une that they wore the roses in their hair the night the box arrived. Did you see the roses?

Nate Caldwell, Eddie Squires, Jacques Cartler, J. Andrew White and Norman Erokenshire are still free and footloose. All are eligible. Think Harold Hough of WBAP is, too, but he may be fooling me. George Hay, Graham McNamée, Joseph Barnett, Bob Emery, G. C. Afrioux and Gene Rouse are in double harness. Write 'em, anyway. Their wives don't caremuch!

Funny how I can't help but think of good looking men. Take Paul Greene of WSAI, Cincinnati, for example. Good looking, well dressed, nice voice, pleasant manners—and look at the wonderful education in auction bridge he's getting. Why, all that experience ought to make it so that Mrs. Greene would take homo the bridge prize every time.

What deep secret would you like to know shout your favorite broadcast star? Drop me a note, girls, and I'll do my best to answer it here.

MAROELLA.

IMPLORE CONGRESS TO AID RADIO

OLD COUNTRY MUSIC TO FLOOD AMERICA

SET INTERNATIONAL WEEK JAN. 24-30 FOR TESTS

Distant Station Hunters to Satisfy Appetites Searching for London, Paris,
Berlin and Madrid

Berlin and Madrid

It is safe to predict that qulet will reign in 5,000,000 American homes during the week starting January 24, when America will be listening in for European programs and millions of people in Europea programs and millions of people in Europea will be straining their ears to hear American broadcasts during international Raddoweek, at which time the stations of two continents will conduct tests on overseas reception and transmission.

According to the plans made by 400 broadcasters in conference at Washington all American and Canadian stations and those of Mexico and Cuba will be silent each night of the week from 11 to 12 p. m. eastern time, 10 to 11 p. m. central time, 9 to 10 p. m. mountain time and 8 to 9 p. m. pacific time. This will enable listeners on this continent to tune in berhaps, European programs that will be broadcast from England between 4 and 5 a. m., and from other foreign countries at similar hours. Darkness will reign between Europe and the listeners on the Pacific coast.

Great Achievements Forecast Complete arrangements have been made etween the broadcaster's of America and

Pacific coast.

Great Achievements Forecast
Complete arrangements have been made, between the broadcasters of America and the broadcasters of twenty foreign countries who will unite and cooperate in the tests. According to predictions, the 1926 international tests will far surpass those of prevlous years in both achievements and quality of programs offered.

Capt. P. Bockersley of the British Broadcasting company, operators of stations in Emgland, has announced that programs of exceptional excellence will be presented. Despite the fact that British stations will go on the air at 4 a. m., their time, the most popular Radio stars of the country will be assembled, to appear on the programs. American artists who are in England at the time will be asked to go before the microphone for the entertalmment of their fellow countrymen.

Broallant Programs on Schedule

he entertainment of their follow countrymen.

Excellent Programs on Schedule
American and Canadian stations are
arranging for the greatest programs of
their existence, and undoubtedly every
leading star in, the United States and
Canada will broadcast some time during
the week.

In its effort to serve the Radio audience,
Radio Digest will carry the complete advance programs of the European stations
as well as those of the United States and
Canada for the test week, so that all listers,
wave lengths and detailed programs of
the stations will also be given, so that
any station picked up can be identified,
Special items of interest and pictures of
European stars and stations will be featured as well in that week's issue.

Observations will be made of the results obtained in all parts of the world
in an, effort to improve a regular international exchange of programs, and it is
thought probable that in the future similar concerted efforts will be made at more
frequent intervals than once each year.

'Blanketing' Still Is Puzzle to Scientists

Bureau and Stations Search for Cause of Dead Spaces

WASHINGTON. — Recent complaints from listeners in different parts of New York state that various distant stations were shut out for several nights has led to renewed activity by the bureau of standards and the bureau of navigation in their efforts to solve the mysteries of such blanketing. As yet no satisfactory explanation of these dead spots, which are found all over the country, has been advanced. Some of the larger stations, notably WGY, Schenectady, are cooperating with the government agencies in this ing with the government agencies in this

ing with the government agencies in this search.

Due, perhaps, to mineral deposits in the ground, holes in the air, or magnetic influences, the Radio waves are frequently shut off from certain sections of the country, sometimes, permanently, sometimes temporarily and intermittently. Washington, D. C. listeners cannot get Baltimore, although they hear Philadelphia beyond with ease, and the same situation exists in other parts of the country, although it is rare at sea.

International Test Programs

OMPLETE, exclusive and special programs for the week of January 24 to 30, inclusive, for every European broadcasting station participating in the international tests, will appear in advance in Radio Digest, edition of January 23. Pictures and stories relating to European stations will appear as well in this special issue. Radio Digest staff correspondents in Great Britain and Continental Europe will give American listeners the best information obtainable anywhere on the international tests. Wave lengths, hours, descriptions in detail of each number to be broadcast by European stations—all this and more will be found in the January 23 issue of Radio Digest. Be sure to reserve a copy at your newsstand. The special International Week issue will be in great demand.

OPERATES 5,000-WATT STATION



The very attractive young lady shown above is not operating a telephone switchboard, but is manipulating the control board of the Los Angeles broadcasting station, RFI. Sie is Miss Norma Shearer, probably the first woman in the world to run the controls of a 5,000-wait station, and from the transmission obtained it is evident "she know of a 5,000-wait station, and from the transmission obtained it is evident "she know or a station will be a capable competitor in Miss Petronila Trimbur, organized at Station Willy, who is taking quite an interest and is becoming very proficient in the mechanics of the control panel of the Crosley studio at Cincinnati.

Radio Detective Car Finds **Odd Interference Causes**

WASHINGTON, D. C.—The new "detective" motor ear in the service of the
Radio section of the department of commerce, which was designed to look into
various causes of interference, has found
some interesting cases, according to reports received. One cause of interference
was found to be the motor in an lec
machine. Another was a bell-ringing machine at the telephone exchange and a
third the poor bonding of electric rails.

Test Direction Finder

PORT ARTHUR, Ont.—The first test of Radio direction finding on the Great Lakes was completed recently. Equipment was installed on the steamer Gieneagles, of the Great Lakes Transportation company, as a test.

Make Several Changes in

Station WEAF Personnel
NEW YORK J. A. Holman, formerly
manager of broadcasting for the American
Telephone and Telegraph company, has
taken an appointment on the staff of the
commercial engineer of the some organization. G. F. McClelland, formerly manager of programs, becomes manager of
broadcasting and F. S. Spring, formerly
in charge of office management, becomes
assistant manager of broadcasting.

Navy Spurs Communication
WASHINGTON.—To insure an increase
in the efficiency of aircraft communications, orders have been. Issued by the
navy department to all Radio-equipped
aircraft that they must attempt communication with bilps, shore or other aircraft at least once during each flight.

DIRE NEED OF **CONTROL FOR AIR INDUSTRY**

Necessity for Legislation to Govern Ether Traffic Is Strongly Emphasized

Hard Battle Is Promised

Attitude of Congress in Past Years Holds Little Hope Without Help of Radio Fans

WASHINGTON.-Following the many recommendations of the fourth national Radio conference for the administration of broadcasting, the need for legislation of broadcasting, the need for legislation giving the secretary of commerce authority to regulate Radio has been greatly emphasized by developments throughout the country by stations already operating and prospective broadcasters who wish to be on solid ground before the industry is placed under rigid control.

Senator C. C. Dill of Washington and Representative Wallace White, Jr., of Maine have recently introduced Radio regulation bills in the upper and lower houses of congress, but it is evident that the enactment of legislation along this line will not be as easy as most people expect and predict.

the enactment of legislation along this line will not be as easy as most people expect and predict.

Would Give Hoover More Power There is little doubt, however, that legislation of some form or other extending the power of the secretary of cominered in regulating Radio will be adopted. Whether it will be the kind of legislation desired by Secretary Hoover and the Radio industry its another matter; although the bills recently introduced follow in a general way the recommendations of the conference.

The bills also correspond in the main to bills introduced in congress last year, but not much encouragement can be derived by the users of Radio from the manner in which the law-makers received and disposed of the measures at that time, thow extensive and far-reaching the regulation will be has not been indicated, but one thing for certain is that the Radio industry itself as well as the fans has recognized the necessity for, and sought legislation providing for, its own regulation.

Definite Control Crying Need

The announcement that no additional stations would be licensed except under unusual conditions has led several disappointed applicants to purchase small stations would be licensed except under unusual conditions has led several disappointed applicants to purchase small stations have applied for permission to increase their power with the intention of remodeling them later and increasing their power. This will not be permitted. A number of small stations have applied for permission to increase their power with the function in the industry is needed and that definite control must be established.

Dill Bill Rives Power and Appeal The bill introduced by Senator Dill gives the secretury of commerce complete and absolute power over the established.

Dill Bill Gives Power and Appeal
The bill introduced by Senator Dill
gives the secretary of commerce complete
and absolute power over the establishment of Radio stations in the United
States, but prohibits him from exercising
right of censorship. It provides for the
formation of a commission of five meinbers to which the secretary of commerce
may refer questions for report or for final
action. It also prohibits rebroadcasting
by one station of the program of another
station without the permission of the station from which the broadcast originated.
All actions of the secretary or the commission would be subject to appeal in the
courts within the District of Columbia
or the district in which the aggrieved
party resides.

party resides.

party resides.

White Bill Differs Somewhat

Representative White's bill is in form and substance similar to the bill of last year but has been modified in that it does not contain a provision for fees, does not authorize the establishment of an advisory committee, and centains a section dealing with monopoly.

(Continued on page 27)

"Harmony Girls" on KYW Staff Five Years



Hand Saw and Pitchfork Join Radio Chorus



By H. P. Brown

By H. P. Brown

THESE are the busy days for the goddess. Muse. Never before was the whole world so deeply seethed in her art. Children of men are hard put to devise new and unusual modes of producing the songs and harmonies demanded by Radio. The music of the spheres is depending on the planet Earth to carry the air—and she's doing it. The air vibrates and throbs from Greenwich east to Greenwich east. What is it all coming to? Nobody even dares guess. Everything is employed that can be turned into a semblance of musical rhythm. Give the orchestra leader a corn cob and tomorrow he will have it made into a flut and you will be charmed by the music he will get out of it. Immortal Shakespeare wrote it in a book for all time that one cannot make a silk purse of a sow's ear. He reckoned not with the versatility of these modern.

loose on the job and woe to the mamma pig's auditory appendages. Milady in every land would soon be wearing them suspended by slender gold chains from her elbow.

Some lesser person than Shakespeare created the lasting phrase that one cannot make a whistle from the same porcine's tail. But it has been done. Yes, indeed, it has been done. Radio did it. Fred Rochester, press agent de luxe of one of the famous packing house firms in Chicago, snapped his fingers when a visitor quoted the phrase to him as one of the impossibilities of the great Union stock yards. In a few hours a porker had given up its nice curly fly swatter and the ivory joints had been converted into a tooter with vents capable of emitting a scale of notes and that very night ten thousand listeners over KYW heard it over the air.

Imagine how shocked the great bard of Avon would have been if any one had suggested that his incomparable Romeo and Juliet ever could by any manner of means have found expression through so menial an implement as a three-tined pitchfork! Well, that's been done, too. It took Charles Gounod, the great composer, to convert the romantic tragedy to opera, and it took Arben Sime of Beardstown, Wis, to make a fiddle of a three-tined pitchfork—a fiddle capable of rendering selections from the opera. And Arben Sime did it over WLS, the Sears-Roebuck station, Chicago.

You would, be interested in Mr. Sime's development of the idea, as the story goes:

Sime, it seems, in his usual happy manner was whistling away as he hustled about the chamber duties for the family cow. Suddenly Bossy switched her tail at a buzzing fly, missed and the terminal strands of her antenna tangled around the tines of Mr. Sime's pitchfork Mr. Sime never ceased his whistling as he pulled the pitchfork taut to release, it. The friction of the sliding strands over the tines emitted a sound resembling the lush notes of a bull fiddle. The cow gazed around with a murmur of surprise. It sounded like a bovine duet with a whistling (Continued on page 29)

When Tou

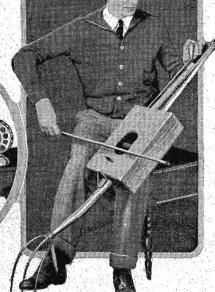
When Toufo Moaubaid strikes "Oud," his Syrian harp (right center), you get the real Oriental nusic. Arben Sime (right), and his pitchoid, fiddle with which he first entertained Wisconsin farmers and later played over Wis, Chicago. Paul McKinstry and his soprane saw, often saw at KHMS, Hot Springs, Ark-can-SAW.



It takes a lot of wind to heave that Big Bertha sax (extremo left) but Helen McGreary is the gal who can do it as they do in Cleveland. Allen P. MacManigal (center) clinking the WBAO chimes at Columbus. Preston Graves (right) at the Trianou celeste, Chicago.







WTAM Coo Coo Club Candidates Sign Here-



"COO COO-00-00"
Present sets! Thumbs on dials! On your marks! Go! Whoa! Hold that 389.4 meters! Listen! You are now within the sacred precincts of the Coo Coo club, Radio Station WTAM, Cleveland, Ohio. It is Saturday night and the Royal Coo Coo calls the hour of nine o'clock. Honorable Ev Jones, High Cockalorum of the Coo Coo Coop, is on the air. All Coo Coo eggs will scramble together when he speaks. Attention, you initiates. Sever yourselves from all surroundings. Let no rational thought disturb your minds for you are about to join the ancient and honorable order of Coo Coos. Harken only to the little electrons as they leap and play over the WTAM antenna at the command of the High Cockalorum. Are you sufficiently dizzy? Then let the Coo Coo Intelligence Test be Applied. Answer this in six words, either "yes" or "no." 100 COO-00-00.

Assuming it to be an axiom that no mat-

Assuming it to be an axiom that no matter how hard he hits them, Babe Ruth can always smash a row of vacuum tubes with a sledge hammer, how long would it take Red Grange to run 90 yards of white and blue bunting to make an American flag?

If the answer is wrong it is quite correct for even if it should be right it would be entirely wrong. This is true because no matter how far Red Grange would run the American flag never runs.

Now that you have mastered this perfect example of Coo Coolerency you are hatched. You are no longer eggs but little Coo Coos with pin feathers which you will use judiciously to stick around for the next degree and to fight off the great dangers that now surround you.

you will use judiciously to suck around for the next degree and to fight off the great dangers that now surround you.

Do not move. Genevieve is near. She will protect you from her seven Chesterland Cave Women. You can hear them. You can see them—at the top of this page and there, there about eight inches below the upraised club of the cave woman on the left is Ev Himself, calm and serene, as you should always strive to be in the face of danger. Control yourself. Do not shake and tremble at that saxophone barrage. Big Bertha is not here tonight. She is on page five.

Sit down. The danger is past. Genevieve and her cave women have gone back to their weird caves in Chesterland. You may rest in repose as the memories of the syncopation still patter on your ear drums. Ev is going to read. He has telegrams, cablegrams. Here is one from London, England:

"Dear Coo Coos—

cablegrams. Here is one from London, England:
"Dear Coo Coos—
"Baron Top and I were just trying out our new crystal set here in Windsor castle when suddenly Joe Ferte of the Coo Coo club, WTAM, Cleveland, came banging in like a house afire. It was wonderful. We got every word of it and I

"Genevieve's Cave Women," Coo Coo syncopators who prowl through the air from the Willard Battery company station, WTAM, at Cleveland, O. Their native haunts are the Chesterland Caves, near that city. Below is Ev Jones, Chief Cockalorum of the Coo Coo club, which convenes at the WTAM coop every Saturday night at the hour of the bath. Any Radio listener who can demonstrate his cooccobility is eligible to join and must start in as a Coo Coo Egg.

could even hear it all the way upstairs when I ran to get the queen to listen in. Please ask Joe to sing that old fayorite 'Comin' for the Rye.' The boys in the back room have asked for it. Regards."

That might seem a little previous as Joe hasn't been on the air yet tonight. But it all goes to show how fast these ether waves travel, Isn't it—well and it's just in its

infancy too! Everybody wants to know if Joe isn't the silver-masked tenor. But you must not tell. That is one of the deepest secrets of the Coo Coo club. Guard it as you would guard your very life. He may be and again he may not be. You will never be able to find out as long as you live.

Catherine Townley plays his accompaniments. Ask her. Maybe she can find out from Joe when he isn't looking just like Art Herske, the announcer did. But don't ask Art for art's sake because a broadcast announcer is always a clam and knows how to keep his mouth shut.

You must be tired standing. Sit down for you are

nouncer is always a clam and knows how to keep his mouth shut.

You must be tired standing. Sit down for you are almost Coo Coo. Look where the little pin feathers were just a short time ago. They are all gone now. You must be cold. Here is an ether wave. Put it on. It will help keep you warm and you will look more respectable and besides you are about to pass through another ordeal. But after it is over you will find yourself richer by sixty, a hundred, maybe a thousand plunks. It's the Dixie Banjo Trio. You know who they are, Jack Marvin, Charles Davies and George Caznitzki. Czarnitzki? Well, you see Jack and Charley do the plunking and they take George along to get the czar-nitz-ki out of the banjosephs.

After all, what is a Coo Coo? I sit not a canary? Jean, Owen and Rayniond Roinbury of Madison, Wisconsin have a line of evidence. Here is a letter which they wrote to Ev just recently:

"We have a canary which stopped singing sometime ago, following its tenth birthday anniversary. Last Saturday, while you were broadcasting your regular Saturday night Coo Coo program, he startled us by beginning to sing with the orchestra and continuing until you signed off. He waited patiently during all announcements."

There is nothing in the dictionary to answer the proposition of the Madison

signed off. He waited patiently during all announcements."

There is nothing in the dictionary to answer the proposition of the Madison children which is all the more remarkable because there is nothing in the encyclopedia about it either. It becomes more complicated as you consider it from the various angles. Something should be and very likely will be done when Ev seeks the complete solution by turning on both the hot and cold for a tepid medium at the close of this evening's ablution.

Thus, it may appear that in spite of everything that you are or are not and notwithstanding everything that you ought not to be and after all that you have gone through from the beginning to Zion City, Ill., you may never, never be a Coo Coo, but a canary.

Your only hope may be your despair and that is that you may become a Coo Coo canary. And now we are signing off just slightly off.



"Iron Man of the South" Maintains KWKH



These fingers (above) make "Dizzy Fingers" dizzier at KWKH. They belong to Miss Louise Strong. Happy Mattle Mae Rudy and her peppy uke (center) and Fernand Braud (right) whose hands and feet never rest while near a plane. The dailty danseuse at lower right is Miss Mary Gillespie.

E HAVE been having a lot of fun with the big butter and egg men. Maybe we have been spreading it on a little too thick and boiling them a little too hard. What would we do without them? What would the people around Council Bluffs do without the big oil man who put in Radio Station KOLL? It's the big men who are always doing the big things for their communities.

When the first music laden waves began to flood over the country and the people, great and small, began to stick up their aerials like straws in the ice cream soda glass to such the music out of the air, folks around Shreveport, La., licked their ears; so to speak, and looked around hungrily for some big butter and egg man to come forward.

A local newspaper, first to notice these symptoms and fired with zeal to perform a community service, volunteered to fill the role. But printer's ink is not butter and some rolls take a lot of butter. So it was rather a strain, perhaps, to pay salaries, buy paper and ink, keep up the interest on the bonds and maintain a Radio station on the pennies from the news stands, subscriptions and advertising revenue.

Just at the climax of this rather delicate situation, there loomed on the horizon one of those bic com-

news stands, subscriptions and advertising revenue. Just at the climax of this rather delicate situation, there loomed on the horizon one of those big community men. He was not a butter and egg man. Hardly; he was of much more durable substance. Indeed, he was none other than the Big Iron Man of the South, Mr. W. K. Henderson, president of the W. K. Henderson Iron Works and Supply company, Shreveport, La.

Shreveport, La.
Did you ever try financing a broadcasting station?





Imitation

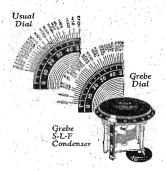
Grebe
Binocular Coils
Reg. U. S. Pet. Off.
and
Low-Wave
Extension
Circuits



The high-wave reception range of the Grebe dial (B)—from 550 down to 240 meters—equals the practical tuning range of the usual receiver. The low-wave range of the Grebe dial (A) provides additional reception down to 150 meters.



Grebe "Colortone"





Flexible Unit Control



"Take the lead and set an example of diligent toil."

-Confucius

Much toil and great diligence have made the Synchrophase worthy of first rank in radio receivers.



-the Sincerest Flattery

LAST year Grebe developed the fieldless Binocular Coils and S-L-F (straight line frequency) Condensers.

These Grebe developments have now been adopted on a number of other receivers.

This year Grebe has devised the Low-Wave Extension Circuits, "Colortone," and Flexible Unit Control. It will be interesting to see how soon these, too, are added to other sets.

In buying a Grebe Synchrophase now, you will have advances in radio construction, such as other receivers will probably show next season.

Ask your dealer to demonstrate all these Grebe developments.

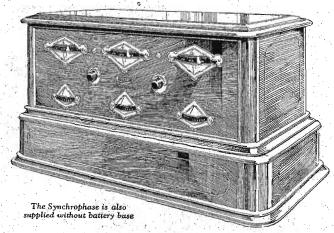
A. H. Grebe & Co., Inc., 109 West 57th Street, New York

Factory: Richmond Hill, N. Y.

Western Branch: 443 So. San Pedro Street, Los Angeles, Cal.

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





All Grebe apparatus is covered by patents granted and pending.

NEWS BRIEFS FROM THE BROADCASTERS

VENETIAN TRIO IS FEATURE WEDNESDAY AT WLW

Foreign Students of Palmer Scho WOC to Broadcast During Inter-national Week Test

Starting with the first Saturday in January, WBZ, Springfield, will be on the air regularly every Saturday evening from 6:30 until 10 p.m. eastern time.

The Venetlan trio, an instrumental group composed of three attractive young women, Ann MacDonald, plannist; Verona Ziehler, violinist, and Genevieve Mead, cellist, will make its Radio debut from WLW, Cincinnati, Wednesday evening, January 6, at 10 p. m. central time.

During the international tests this month foreign students attending the Palmer School of Chiropractic will send brief messages to their countrymen, through WOC, Davenport. These one-minute talks will be given in French, Flemish, German, Polish, Danish, Norwegian, Spanish, Marathi and Japanese.

The use of Radio as an agent to reach children with the message of safety will be inaugurated January 2 at 7:30 p. m. central time through station WLW, Cin-cinnati, John Fry, chalmau of the pedes-trian conmittee of the Cincinnati Automobile club, is arranging for the talks.

The Rochester Little Symphony orches-The Hochester Little Sympnony orcnes-tra was broadcast recently by WGY. Schenectady, and WHAM, Rochester, in a new hook-up between these two stations. Radio artists of Rochester will now be able to reach a greater audience.

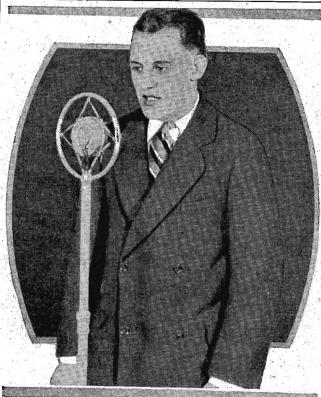
Monday afternoons are set aside for the broadcasting of Oreste's Queensland or-(Continued on page 24)

TALLEST CORN IS IN IOWA, CLAIMS WOC



Station WOC, Palmer School at Davenport, Iowa, broadensts regularly to the whole listening world to the to the whole listening world to the to the state "Where the Tall Corn Growe," Some aspersions were east at this boast. So the station put on a national contest and now claims Towa is the state where the "Tallest" corn grows. This 18-foot stalk was grown near Davenport, last year. Dr. B. J. Palmer, owner of WOC, top of ladder; Miss Evangeline Beetiger, hostess, center, and "Aunt Jane" at the foot.

"RED" HAS CHAT WITH "MIKE"



"Red Grange," football's greatest here, present idel of the sport world, and envy of finance, is not only the griddron's greatest performer but recently proved he has a natural indrophone voice when he talked for the Near Hast Relief. He spoke over WHAF and was heard clearly from six or more stations on the chain, spreading his voice distinctly to nearly every part of the continent. His voice is said to carry a vivid impression of his personality.

THEN PROHIBITION | Hockey Broadcasts Are

And Contortionist Should Live Summary of Each Period Is Put Longer Life Than TightRope Walker

ROSTON Residue 1

Rope Walker

SAN FRANCISCO.—A man staggering up the street, hands fiapping, with a wild look in his eye, may not be the victim of a bootlegger; for times have changed since broadcasting came.

On the contrary he may only be a tired business man following the advice of Hugh Barrett Dobbs, Radlo health talker over KGO, here.

"Stagger like a drunk once in a while!" advised Dobbs in a recent talk to Pacific Coast listeners. "Too many of us are forgetting how to relax," he continued. "We are living with tight muscles. We grab and hang onto everything—food, street cars, money, life. Knotted muscles and tense nerwes keep us from relaxing.
"The drunken man and the baby are perfect examples of relaxation. The former staggers around, knees and elbows loose, muscles flapping. However unpleasant the sight, he is giving his body a chance to rest and his nerves to quiet."

Station Changes

Three new stations have been admitted to the broadcasting circle. These are: WJAX, Jacksonville, Florida, 1,000 watts, 386.9 meters; WJPB, Buffalo, N. Y., 50 watts, 218.8 meters, and WJBQ, Lewisburg, Pa., 100 watts, 211.1 meters.

San Diego, California, hopes to get a license for the 500-watt station being erected in this city. The new station, which is located on the roof of the Grant hotel, will be one of the best equipped broadcasters on the coast.

A new call has been heard from Wich-tia, Kansas, recently. The letters KFH have taken the place of WEAH. The 500-watt station at Cedar Rapids, Jowa, originally WKAA, now uses the call let-ters KWCR. The Haverford College Radio club station, WABQ of Haverford, Pa., goes on the air this month with a new 750-watt equipment.

IS NOT HEALTHY? Popular with Listeners

BOSTON.—Frank Ryan, the hocky voice of Westinghouse Station WBZ heard weekly from the Boston Arena, was again on the air recently when he broadcast a running description of the Boston Bruins and St. Patricks (of Toronto) hockey game direct from Boston's famous ice palace.

pelace.

Next on the schedule is the Boston Bruins versus the Pittsburghs, on January 5. This also will, be broadcast via WHZ. The game is called at 8 p. m., eastern time.

The performances of the professional puck chasers as described on the WBZ wave by this well-known sports writer are attracting interest in all parts of the country, particularly in Canada, the home of this fine winter sport.

SYDNEY TRADES HALL **ERECTS OWN STATION**

Build Set at Lowest Cost of Any On Southern Island

WASHINGTON, D. C.—The first organization of its kind to possess a broadcasting station, the Sydney Trades hall, has just had its set completed by local builders, at what is claimed to be materially below the cost of any other station in Australia, says Trade Commissioner E. G. Babbitt of Sydney, Australia. The builders claim that the saving effected is the result of the use of locally manufactured material. Licensed for an input power of 1;500 watts on a wave length of 280 meters, the circuit used was a "driver" system, so as to reduce interference as much as possible. The maximum possible power of the station is about 4,000 watts.

Police to Use Radio
VICTORIA, B. C.—The police of this
city, plan to install a Radio transmitting
station at police headquarters and to
equip two new patrol cars with transmitters. This would provide for direct
communication in case of emergency.

VENEZUELA FANS TO HAVE RADIO STATION

Marin Marin Strain Strain

SOUTH AMERICAN COUNTRY WILL COPY U.S. STYLE

as to Broadcast on 400 Meters Daily Programs of Native Music and Jazz

CARACAS, Venezuela,—Venezuela, one of the progressive South American republics that have had to depend upon other countries, notably the United States, for their Radio entertainment, is to have its own broadcasting station. The Venezuelean Radio company, a specially formed operating organization similar to the British Broadcasting company, is to have full charge of the erection and operation of this South American republic, and is also acknowledged to be the center of the musical and news circles.

U.S. Will Hear

musical and news circles.

"U.S. Will Hear
It is planned to have the station in operation toward the beginning of February, 1928. A wave length of 400 meters has been chosen, which is advantageous to American fans as well, since they, too, may hear the broadcasts from Caracas, as they plok up those of Mexico City, and of Porto Rico.

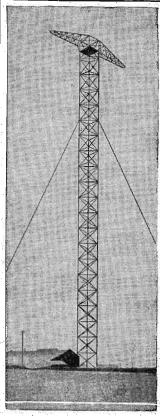
From the studios of the station, specially prepared programs, which will include classical and dance music, orchestras and bands, and concerts and solos, will be broadcast daily.

Retransmission Also

broadcast daily.

Refransmission Also
Besides the musical programs, news items and market reports, other information of interest to Venezueleans will be included. However, so as to provide as great a variety as possible, selected programs from the leading broadcasting stations in the United States will be picked up and rebroadcast by the Caracus station. In this manner, even the smallest receiving sets will get the benefit of long-distance receptions from the North American stations.

WILL HELP BRITAIN IN OVERSEAS TESTS



The Marconi Beam Radio station at Dor-chester is completed and will get its first real tests during the international broad-cast week, starting January 24. Great 400-foot steel masts, as shown above, with cross-sams at the top on which the sta-tlon's aerial and counterpoise are strung, are placed at intervals of 600 feet. for a distinct sufficient of the station sufficient building at base houses both the transmitting equipment and studio.

RADIO 'RITHMETIC



NO storage-battery radio is complete without a

RECTIGON



T O recharge three or six-cell radio "A" or automobile batteries merely adjust "snap" terminals as shown above. Very simple.



T O recharge one or two-cell radio "A" batteries with a Rectigon, merely adjust "snap" terminals as shown above. Takes but a moment.



T O recharge eleven to fortyeight-cell "B" batteries merely adjust "snap" terminals as shown here. (An instruction sheet packed with every Rectigon.)

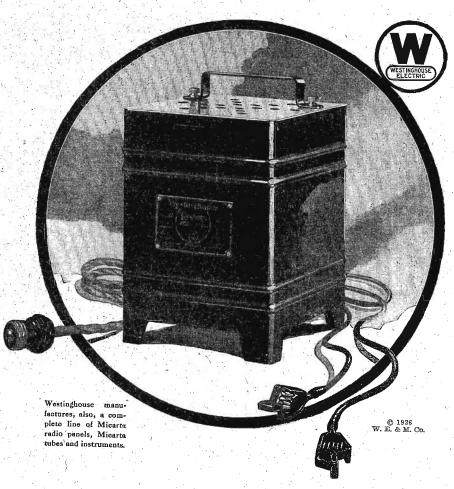
T HERE'S no muss or fuss with a Rectigon. No acids, no chemicals, no moving parts and no noise.

QUESTION:

What's the Difference Between Good and Poor Radio Reception?

ANSWER:

A RECTIGON!



THAT'S a real answer to the oft-repeated question, "What's the matter with my set?" Ask any owner of a Westinghouse Rectigon. There are radio fans by the thousands to tell you there's no better, surer way to keep your batteries full of pep than with a Rectigon.

WESTINGHOUSE ELECTRIC & MANUFACTURING CO.

The Westinghouse Rectigon Battery Charger

TELLS WOMEN HOW TO MAKE ROLY POLY

BETTY CROCKER DESCRIBES VARIETY OF DESSERTS

Cranberry Steamed Pudding and Other Fruit Dishes Discussed by Famous Food Specialist

Have you hord, and do you reclaimly listen for Betty Creeker's and do you reclaimly listen for Betty Creeker's as home food so this Grower is malionably known as a home food specialist who is broadensting from a dozen of the country's largest stations. By special arrangement Radio Digest has secured a series of exclusive articles by Miss Croeker dealing with her current Kadio clais. These broadensts are mided shrough current was also series and the series of t

The cranberry role of the pudding is in the cating, but it is seldom difficult to persuade anyone to eat desserts. The cranberry role poly is a good, substantial dessert and one that will fit in well with various dishes to make a perfect meal.

We are all fond of sweets. Sometimes too much so. It is often a temptation to the housewife to make many ples and rich, heavy desserts just because she is sure of the welcome they will receive. It is nice to please everybody, but the housewife to the welcome they will receive. It is nice to please everybody, but the housewife has other things to think of when she is preparing desserts. She must consider the food value and the cost. We need some sweets in our diet. In the five food groups from which we should select the foods to make up balanced meals, we have one group of sweets.

Dessert Has Food Value

Because the dessert is agreeable and pleasing to the taste, it is often considered as an extra and not as real food. Many times the dessert is made up of eggs, milk, gelatin, nuts, sugar and whipped cream. In such a dessert we have body building food equivalent to a serving of steak, and more calories than a whole lunch would count. Such a heavy dessert on top of a big meal taxes the digestive organs. If expensive meats and vogetables have been used in the meal, the dessert should be a simple one. However, the simple, cheap dessert need not be plain and unattractive. It is often more appetizing than expensive sweets.

Two cups Gold Medal flour, 4 teaspoons baking powder, one-half teaspoons salt, 2 tablespoons butter, three-quarter cup milk, 4 cups cranberries, 2½ cups sugar, 1 cup water.

Method: 1. Cook together the cranberries, sugar and water. 2. Make a biscut.

water.

Method: 1. Cook together the cranberries, sugar and water. 2. Make a biscuit dough of the other ingredients. 3. Roll. the dough to three-quarter inch in thickness. 4. Spread three-fourths cup of the cooked cranberries on the dough Do not use the juice. 5. Roll up into a roll. 6. Place in a pan and steam one-half hour. 7. When done, slice and serve with a hot sauce.

Twhen done, slice and serve with a hot sauce.

How to Make Sauce

For the sauce, measure the cooked cranberries not used in the pudding. Combine one cup of juice and one cup of cranberries with 1 tablespoon flour. Cook until slightly thickened. Serve hot over the pudding. This amount will serve ten.

Roly poly is an old, old-fashioned pudding. This amount will serve ten.

Roly poly is an old, old-fashioned pudding. Our grandmothers made more steamed puddings than we do. This particular roly poly may be made with almost any kind of fruit. Canned peaches or apricots are delicious in place of the cranberries. A sauce may be made out of syrup in which the fruit was canned, or the pudding may be served with whipped cream. Stewed, dried apricots also make a good filling. Grapes, canned berries, apples or apple sour cany be used for the filling, with a plain vanilla or lemon sauce, if there is no extra fruit fuice. Very often I find a bit of left-over cooked or canned fruit that is just enough to make into a good roly poly. In the spring a cherry roly poly made of fresh cherries is delicious. In that case, do not cook the cherries that are used in the pudding, but cook enough for the sauce.

Dowager Queen Alexandra

Dowager Queen Alexandra
Was Early Wireless User
With the recent death of Dowager
Queen Alexandra, Radio lost one of its
first and most loyal supporters.
D. Mazotto, an Italian writer, in an
early book on wireless mentions that in
1838, Alexandra, then Queen of England,
kept in communication from her residence,
Oshorne House, with the then Prince of
Wales, now King of England, while the
was abound the royal yacht "Osborne,
when it was anchored in Cowes Bay close
by, or when it was in the open sea on excursions.

GIVES ADVICE TO YOUNG WOMEN



Assistant Attorney General Mrs. Manel Willebrandt, leading woman harrister of the United States, is shown above as she gave a short Radio talk over Station WOAP, Washington, D. C., on the work of the national Y. W. C. A. She told liow young women could fit themselves for higher talings in public life by making use of the teachings afforded by that institution.

Index to Women's Programs | The control of the

Fastern Central Mountain Pacific	11 a.m. 10 a.m. 9 a.m. 8 a.m. WHT (399:8) Women's club.
Saturday, January 2 Enttern Contral Montain Pacific 200 a.m. 8200 a.m. 730 a.m. 650 a.m. WW (302.7) Ecoloph's diomer. WHY (302.7) Ecoloph's diomer. WHY (302.8) Women's cube. WOM (302.8) Household hibts. 10.m. 12.m. 11 10.m. 12.m. 12.m. 12.m. 130 10.m. 12.m. 130 10.m. 12.m. 130 10.m. 130 10.	11 a.m. 10 a.m. 9 a.m. 8 a.m. WHT (S938) Women's club. WYTC (528) Women's program. 11:30 10:30 9:30 8:30 11:30 10:30 9:30 8:30 11:45 10:45 9-45 8:45 11:45 10:45 9-45 9-45 10:45 9-45 10:45 9-45 10:45 9-45 10:45 9-45 10:45 9-45 10:45 9-45 10:45 9-45 10:45 9-45 10:45 9-45 10:45 9-45 10:45 9-45 10:45 9-45 10:45 9-45 10:45 9-45 10:45 9-45 10:45 9-45 10:45 9-45 10:45 9-45 10:45 10:45 9-45 10:4
II ID 9 8	KFAB (340,7) Home Economics.
WHT (399.8) Women's club.	WDAF (365.6) Betty Crocker home service.
WGN (302.8) Household lithts.	WALT (302.0) Detry Crocker neme service. 12 a. 11
WQJ (447.5) Fairyland Through n Picture Frame.	Welfere.
KMA (252) Domestic science topics.	Welfare, 12:30 p. m. 11:30 18:30 9:30 18:30 9:30 WGN, (302.8) Discussion of fashlone, 12:35 18:35 10:35 9:35 KTW (388 Table talk, 11:45 10:45 8:45 18:
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WGN (392.8) Discussion of fashions. 12:35 11:35 10:35 9:35 KYW (536) Table talk. 4 3 2	1 12.n. 11 10
KJR (384.4) Tonight's dinner.	8.PO (428.3) Sewing talk, 3 2 1 12 n.
KJR (384.4) Tonight's dinner. Monday, January 4 Eastern Central Mountain Paiethe 9:30 a. m. 8:30 a. m. 7:30 a. m. 6:30 a. m. 10 8 7 10 8 7 10 9 8 7	WCCO (416.4) Woman's hour. WCC (438.6) Homo Managemant schedulo, Aunt
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WWJ (352.7) Tonight's dinner.	Jane. WQJ (447.6) More Popular Puddings. Hooked Rugs and How to Make Them. 4:30 2:30 1:30 VI.W. (422.3) Cooking school, hints. WLW (422.3) Cooking school, hints.
WJZ (454.3) Women's hour.	4:30 3:30 2:30 1:30
10:45 9:45 8:45 7:45	5 4 3 2
WFI (395) Gold Medal talk, Betty Crocker.	What Q (447,5) Recipes: 2 WEAQ (447,5) Recipes: 2 KEPOA (454.3) Totay's recipes. 4 KLX (508.2) Women's hour. KLMA (252) Domestic science (alk. 10.2) LOGO (280.2) Color and Dot in House Docuration. Mid-Whiter Hints for the Sick.
WEAR (389.4) Home service talk.	KFOA (454.3) Today's recipes. KLX (508.2) Women's hour.
WHT (399.8) Women's club. WNYO (526) Women's program.	KMA (252) Domestic science talk.
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3 2 12 n. WCCO (416,4) Women's hour.	and Frozen Dainties. 12:30 p. m. 11:30 16:30 9:30
WSOE (246) Cooking chats.	WGN (302.8) Discussion of fashions. 12:35 p. m. 11:35 10:35 9:35
WIP (508.2) Market hints for housewives. WOC (483.6) Home Management schedule, Aunt	KYW (536) Table talks.
WOJ (447.5) Meat and Vegetable Sauces.	KPO (428.3) Domestic science.
WOJ (447.5) Meat and Vegetable Sauces.	WGY (379.5) Division of Income.
NJR (8847) Homo helps. 3 KJR (8847) Homo helps. 5 KFOA (464.3) Today's recips. KLAS (308.2) Women's hour. KTAH (240) Women's club notes.	WOC (488.6) Home Management schedule, Aunt
KLX (508.2) Women's hour.	WQJ (147.5) Wise Buying When Saving at Home. Your Home.
Tuesday January 5	your Home. 5 4 3 2
Tuesday, January 5 Eastern Central Mountain Pacific 9-30 a.m. 8:30 a.m. 7:30 a.m. 8:30 a.m. WWJ (352.7) Tonight's dinner. 10 9 8 7 KDRA (309.1) Domestic Science and Arts for the	KFOA (454.3) Home helps. KSD (545.1) Women's Hour. 3:30 4:30 3:30 2:30 KOA (322.4) Housewives matthee.
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WJZ (454.3) Women's hour. WRC (468.5) Women's hour.	7 6 5 4
10:45 9:45 8:45 7:45	KFMQ (290.8) Women's club talks.
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WMCA (349.7) Home makers' hour. 11:35 10:35 9:35 8:35	9:30 a.m. 8:30 a.m. 7:30 a.m. 6:30 a.m.
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12 noon 11 10	II 10 9 8 WHT (339.8) Women's club
WGY (379.5) Home Hygiene and Care of the Sick. WLIT (395) Household helps and hints.	11:15 10:15 \9:15 8:15 WTIC (475:9) Protysear fashion talk
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WQJ (447.5) The Mah Jong Supper. Purchasing on	11:45 9:45 8:45
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ROA (322.4) Culinary hints. 6:15 5:15 4:15 8:15	12:30 p. m. 11:30 10:30 9:30 WGN (102.8) Discussion of feeblane
KOA (322.4) Answertes matthes. 80 A (332.4) Cultiers plants. 815 S 16 4:15 8:15 KOA (322.4) Fashlon review. FPOA (454.3) Teday's reclus. 8:30 7.30 6:30 5:30 KGO (301) As a Woman Thinkth. Wednesday, January 6 Eastern Central Mountain Pacific	12:35 11:35 10:35 9:35
KFOA (454.3) Today's recipe. 8:30 7:30 6:30 5:30	12.35
KGO (861) As a Woman Thinketh.	WOAW (526) Sunshine Sunday dinner menu. 3 2 p. m. 1 p. m. 12 n.
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	KJR (384.4) Homo belps. 5:30 4:30 3:30 2:30
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10 9 8 7 WIP (508.2) Menu. WJZ (454.3) Women's hour.	IOA (323.4) Housewives matinee.
.10 9 8 7 WIP (508.2) Menu, WJZ. (454.3) Women's hour, WRC (468.5) Women's hour, 10.45 9.45 8.45 7:45	WFAA (475.9) Women's hour.
WWJ (332.7) Toolshu's dinner. 10 9 8 7 WIP (508.2) Menu 8 7 WIZ (453.3) Wenner's hour. 10 845 845 845 7.45 WEAF (450.8) 19 46 845 7.45 WEAF (450.9) Home service talk, Betty Crocker. WTAG (258) Talk to Housewires.	-5:30 4322.4) Housewives matince. WFAA (475.9) Women's hour. 6 5 4 KOA (322.4) Cultnery hints. 6:15 5:16 4:15 KOA (322.4) Fashion review.

WOMAN IS DIRECTOR OF TOURIST BUREAU

MISS NINA BAKER TO GIVE RADIO TRAVEL SERVICE

Up-to-the-Minute Information on Roads and Tours to be Broadcast Over Station WBBM

CHICAGO.—So far has woman traveled from having her place be the home that now she has even become dictator of the open highway! Miss Nina Baker is only 25 years old, but she is a recognized authority on motor travel information anywhere in the United States.

Radio appealed to Miss Baker as the most satisfactory and comprehensive way of conducting an up-to-the-minute travel, service and accordingly she is now directing the only Radio tourist bureau in the world.

of conducting an up-to-the-minute travel, service and accordingly she is now directing the only Radio tourist bureau in the world.

This clearing house of automobile travel information is the Stewart-Warner tourist bureau and will be broadcast over WBBM, Chicago. WBBM operates on a 266 meter wave length. Branch stations of the bureau will be established in 52 cities. Radio talks will be given over WBBM several times a week by Miss Bakor and other authorative spenkers. The shortest route to Florida, the best way to 'California, how to drive to Quebec and Montreal for winter sports and similar trips will be given in helpful detail over the air. Every phase of motor traveling will be considered: how to dress, keeping physicially fit while motoring, traffic laws in the different states, weather forecasts, where to camp and how to estimate the cost of your trip.

More than this, the bureau broadcasts an invitation for all their listeners who plan trips to send in for free road maps and charts and any special information which they may want. No charge is made for any phase of the bureau's service. Miss Baker is relying partly on her audience to give the benefit of their motor experience and tell of any unusual or particularly successful trips they have made. Affiliations have been established with more than 2,000 motor clubs, chambers of commerce, garages, hotels, resort and other travel information bureaus, whose resources will be available for tourists applying to the bureau.

Club Women Will Hear Minnesota Federation

Music, Art and Literature to Feature WCCO Programs

MINNEAPOLIS:—On Thursday, January S, and the second Thursday of each month thereafter, 3,000,000 club women of America will tune in the Gold Medal station, WCCO, Minneapolis-St. Paul, through which the Fine Arts department of the Minnesota Federation of Women's clubs will broadcast a series of programs. The programs will commence at 4:30 p. m. central time, and January 8 art will be the feature tople. February 19 the program will pertain to literature, and on March 12 a correlated program of music, art and literature will be broadcast.

This series of broadcasts, the first ever attempted by the Minnesota Federation of Women's clubs, has been arranged by Mrs. Harry S. Godfrey of Minneapolis, vice-chairman of the Fine Arts department of the General Federation of Women's clubs, and Mrs. A. A. Passer of Olivia, Minn, chairman of the Fine Arts department of the Minnesota federation.

Mrs. Max Obendorfer of Chicago chair. MINNEAPOLIS .- On Thursday, January

tion.
Mrs. Max Obendorfer of Chicago, chair-Mrs. Max Obendorfer of Chicago, chairman of the Musical committee of the General federation, is urging that club women all over the nation make it a point to hear the programs, and is hoping that similar ones will be arranged at a later date by other state federations. The Minnesota series will probably lead to the cooperating of different federations for the exchange of programs.

Woman Saved by Radio in

Northern Part of Canada OTTAWA, Canada.—"Woman Saved by Radio" is the headline in Canadian news-papers which recently caught the public eye. The woman, living far from civili-zation, in Canada's northland, had fallen sertowsiv III.

artion, in Canada's northland, had fallen seriously ill.

The priest of the small community, unable to cope with the case himself, thurried to Edmonton, Alberta. There a doctor was procured and told the symptoms as found by the priest. The method of treatment was broadcast through a local station.

The message was picked up by two receivers in the wilderness where the woman lay near death's door. The doctor's instructions were followed and the patient is reported to be recovering rapidly.

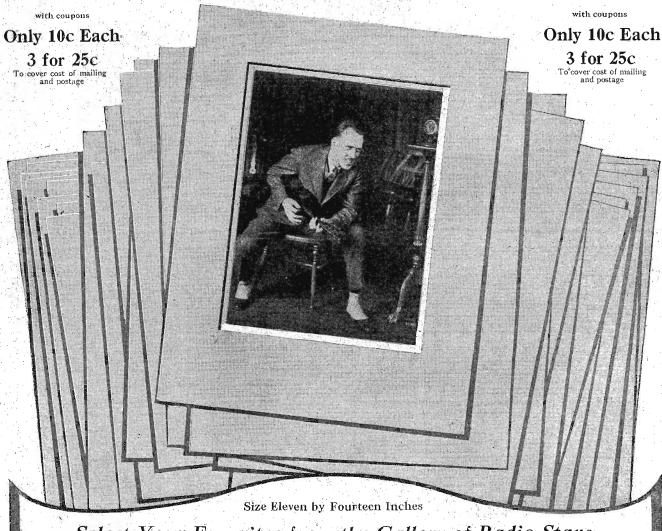
Photogravures of Your Favorite Artists GALLERY OF RADIO STARS

Suitable for Framing or Placing in Your Album

BY SPECIAL arrangement, Radio Digest is able to offer its readers a great op-portunity to secure fine photogravures of their favorite Radio stars at practically

no cost. Radio fans will be able now, by this very special offer, to have pictures of their favorite artists and announcers before them when they listen in.

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



Select Your Favorites from the Gallery of Radio Stars

CHECK YOUR CHOICE

- □ Wendell Hall, king of ukulele ditties
 □ Graham McNamee, 1925 Gold Cup announcer

- ☐ Graham McNamee, 1925 Gold Cup announcer
 ☐ Jack Little, popular wandering balladist
 ☐ Paul Small, who won fame through Radio
 ☐ Coon-Sanders "Nighthawks" at KYW
 ☐ George Hay, 1924 Gold Cup announcer
 ☐ Harmony Girls, Edith Carpenter, Grace Ingram
 ☐ Ford and Glenn, Lullaby Boys of WLS
 ☐ "Roxy" Rothafel of WEAF chain fame
 ☐ The Hired Hand, famous "Substitute Announcer"
 of WBAP
 ☐ Reitt and Einch, popular songesters

□ Britt and Finch, popular songsters □ Britt and Finch, popular songsters □ Bob Emery, Big Brother of WEEI □ "SBII" W. G. Hay, ex-KFKX, now of WLIB □ Happiness Boys, jovial singers of WEAP □ Lambdiu Kay, "Little Colonel" of WSB □ Lee Fitzpatrick, "Merry Old Chief," WJR □ Henry Field, 1925 Gold Cup runner-up □ Al Carney, organ favorite at WHT □ Aunt Jane, Ladles' advisor at WOC □ Vincent Lopez, No. 1 Pennsylvania orchestra

CHECK YOUR CHOICE

- CHECK YOUR CHOICE

 E. L. Tyson, pleasing voice of WWJ
 S. W. Barnett, ex-WOC, now WBAL
 Art Gillham, "The Whispering Plantst."

 Paul Greene, announcer at WSAI, "bridge voice"

 Harry Ehrhart, "Dream Daddy" of WLIT

 Correll and Gosden of "Kinky Kids Parade"
 fame, at WEBH and other stations

 Norman Brokenshire, popular at WRC, WJZ

 Indiana Male Quartet, popular at WEBH
 Jane Novak, Blues Singer of Twin Chies, WCCO

 Jean Sargeut, the original, now at WHT
 Raiph Emerson, popular organist at WLS

 Edna Adams; "Sweetheart of the Air" at KPRC
 Pat Barnes, vaudeville aunouncer at WHT
 R. V. Haller of KGW Hoot Owls fame
 Henry L. Dixon, ukulele wizard of KYW

 Quin Ryan, WGN's Uncle Walt and sports anmouncer

 "Willie the Wesper," Ernest Rogers, WSB

 Walter Wilson, "Uncle Bob" of KYW

If your favorites are not in this list send in a request to have them included in the Gallery of Radio Stars.

CHECK YOUR CHOICE

- CHECK YOUR CHOICE
 Jack Chapman of Drake hotel repute
 Ray-O-Vac Twins, known country-wide
 Art Linick, KYW's Mrs. Schlagenhauer
 Fred Hamm, of WTAS, now WLIB fame
 Meyer Davis' Le Paradis orchestra of WRC
 "Senator" Schultz, WLW's illiterate comic
 "Uncle John!" Daggett of KHJ
 D. R. P. Coats, 1925 Silver Cup announcer
 Gene Rouse, WOAW's popular announcer
 Freda Sanker, WKRC jazz orchestra director
 Irish Ruth Pavey, KOA's invisible stage beauty
 Queen Titania, star of KHJ Fairyland

COUPON No. 2.

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 mail-

ing and postage.

Three consecutively numbered coupons entitles the holder to three photogravures when accompanied by twenty-five cents.

RADIO DIGEST PUBLISHING CO.

ADVANCE PROGRAMS FOR THE WEEK

Saturday, January 2

Headliners Today

hFO (143-5) pane messes, panel panel

Saturday, silent night for: CFAC, CFCA, CNRA, CNRC, CNRE, CNRM, CNRR, CNRT, CNRY, CRRW, KFDM, KFEQ, KFX, KFUO, KFX, KYDM, KFWO, KFX, KYUO, KFX, KXX, KMA, KOAC, KOB, KOP, KSAC, KSO, KTAB, KWSC, WBAL, WBAP, WAOD, WCAP, WOAU, WCX, WDOD, WEAO, WCAP, WHIB, WHIN, WHO, WHO, WRAM, WTAG, WTIC, WWJ.

WDOD. WEAO, WEBJ, WEBW. WEEL WGCP, WIST, WAST, WAAD, WHAZ, WHIS, WHN, WHN, WHO. WIP. WAST, WAAD, WAAS, WOAH, WOI, WOS. WRVA, WIAG, WOA, WOA, WOS. WRVA, WAST, WAST

10:39-11, Strlekland's orchestra. WGHB. Clearwater, Fla. (286), 6:30-7:30 p. ms. Fen-way hotel orchestra, dinner music, 8:30-9:30, Caroline, Loe and her Spanish guitar; Al Silfae and his orches-tra; 11:45-1 a. m., WGHB Radio Kambiars midnight froile.

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

wuß. Buffalo, N. Y. (319), 2:30 p. m., WGR's aftermost program.

WGY, Schoestady, N. Y. (379.5), 7:30 p. m., dinner program, Omnadaga hotel, WEBL also; 2:25. New Zork Philibarmoute cooloty student symptomy, series, WZC, Philibarmoute cooloty student symptomy, series, WZC, Philibarmoute cooloty student symptomy, with the program of the

Victor Reserving orchestra; 11:30. Joudinatel's Metry old chief.

WIZ. New Yerk. N. Y. (454:3), 1 p. m. Irvin harmar Sincherbooker Grill orchestra; 8:35. Evaluation, violiniat, Keith McLend, accompanist; 4:30. Michael, violiniat, Keith McLend, accompanist; 4:30. Michael, violiniat, Keith McLend, accompanist; 4:30. Michael, violiniat, Keith McLend, accompanist; 4:30. Republication, violiniat, Real McLend, accompanist; 4:30. Paul Spacht; Moulin Bourge orchestra; 10:30, Paul Spacht; Moulin Bourge orchestra; 10:30, P. m. daily almanac; Stanley theater param resitat; Accadis care concert orchestra; 2. Arcadis care oncert orchestra; 4:30, Ed Matthews dance orchestra; 7:30, Benjamin Pranklin body companit company, 9-10, musicale, Sunrive Point, Davedopment company, 9-10, musicale, Sunrive Verk, N. Y. (240:7), 0-6:30 p. m., Olout Vall and his Motted McLendistra (1558), 2558

Alpin orebestra (MYC, New York, N. Y. (526), 7-7:30 p. m., dance program; 8-10:30, symphonic program; 8-10:30, symphonic (10.0, Philadelphia, Pa. (508.2), l. a. m., organ re-tellat; 12, 60den Crystal it ar room crobestra; 4:45, organ re-tellat; 7:30, Candelori's concest orthestra.

organ rectal; 7:30. Candenot's concest orchestra.

90 R, Nawak, N. J. (68.5.), 3:15-4. Dm. 24t's Casino fea music; 6:15-8:30. "Words Often Misyonometed", 6:30-7, Jacreuse Jacobs Holel Shelton, orsemble; 7:30-8. Van's Collegtans.

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98 Jan's Collegt

harmonic scelety, WJZ, WGY: 10:30, Crandell's urday Nighters; 12. Spanish Village orchestra, WTA6. Wercester, Mags. (268), 10:30 a. m., ms selections; 12:05-2; lunchoon music, WTAG orch director Will. Hardy; 5:15, Twickle Tyrinkle ncheon music, WTAG orchestra, 5:15, Twinkle Twinkle store

teller.

WTAM. Cieveland. Ohlo. (388.4), 12:10-1:15 p. m.,
Anath. Wyte's Goddun Photsant orthestra: 8-7. Carl
Rupp and his Ender Medical Cortestra: 8-8:45. Guy
Lowinberdo and his Royal mandatans: \$45.45, groundmusic: 9-12. Coc Cos club.

WWJ. Detreit, Mich. (352.7), 9:30 s. m., "Coulcht's
Dinner" and talk by woman's editor; 12:95. Jules
Richi's Hotel Statter occhestra: 3, Dotroit News
orchastra.

KY, Winnipeg, Man. (384.4), S. p. m., "Contemporary Book Reviews", Prof. W. T. Alison; 9, concert. Royal Alexandria hotel; 11. Eveready hour of popular music, Earle C. Hill's Capitol theater orchestra.

music, Earle C. Hill's Caultol theeter orchestra.
KFKX. Hattlins. Nebr. (288.3), 5:39 p. mo. dinner
convert. EDITO.

Convert. EDITO.

Convert. (198.3), 198.30 p. mo. jubilee singcra. Mrs. Jobe Todes.

KFVE. University Gity, Mo. (249), 9:15 p. m., "Amusement. Earlew. Tomains Pleiding: Jones night, Gene
Mr. (198.3), 10d populations, Mo. (441), 8 p. m., organ requost program.

"She travels fastest who travels alone!" paraphrases Ina Rains, the young dramatic soprano, above. This brilliant young singer, barely out of her teens, has gained her reputation through Radio work at ROA, Denver, and is determined to become a grand opera singer of note. She is shown here as Santuzza from "Cavalleria Ruteana."

High Lights of the Week

THE YOUNG artist will have a chance to broadcast Saturday during the program of the New York Philharmoute society which may be lieard from WJZ, WRC, and WGY. All these students have shown unusual promises. The Little Colonel of WSB promises that the hired help will put on a mighty fine skylark this same evening.

WSB promises that the hired help will put on a mighty fine skylark this same evening.

Albert Spalding, violinist, is the Atwater Kent artist to be heard from WEAF and chain Sunday. The Sunday twilight program at WBAP will be given by the Sacred Harp Singers singing original sacred harp songs. This Sunday marks the beginning of the symphony concerts at KGW. Portland. The Chevrolet Little symphony makes its debut.

WCAU promises a rlot of fun and laughter Monday evening whem Will Morrissey and Midget Miller do their famous "At the Party." These two coinedlains can make even an announcer laugh. Radio stations are becoming more and more centers where community organizations meet. Monday evening the Albany community chorus meets at WGY, Schenectady.

"Literary Values in Recent Books," is the subject of the new course opening Tuesday night at WBZ, Springfield. Prof. Emmons Rogers, associate head of the Department of English at the Massachusetts. Institute of

Technology, will give the fans some idea of the literary value of new books. Friends of Mrs. Schlagenhauer. will enjoy the announcing of Art Linick during the midnight revue at KFW, Chicago.

Wednesday night the Venetian tric makes its first appearance at WLW, Cincinnati. This will be the first Dayton group to broadcast. Earlier in the evening this station will broadcast the baskefball game between the Y. M. C. A. Wildcats and Kenyon college.

college.

The immortal lines of "Macbeth" will go out over the ether Thursday evening, when the KGO players give the first of a series of dramatic masterpieces. The players have formerly confined themselves almost entirely to light operas and comedy skits. Their success has been so great that they will now undertake more serious productions.

productions.

Traditional Jewish music sung for hundreds of years in the Jewish synagogues will be broadcast Friday night, by the choir of Har Sinai Tennple, from WBAL, Baltimore. Motorists will, perhaps, be interested in the ten minute talk at KOAC, the new call of the Corvallis, Oregon station, this same evening on "Cold Weather Suggestions for the Automobile Driver," by Prof. W. J. Gilmour.

KMA. Shenandesh, lewa (232), 11:39-12:39, noonday rural program; garden talk, Earl E. May; nouse; Gonnestic science timuly tonics, June B. Cane; etc., donnestic science timuly organ recital, Wm. Howito, 15-year-old organic timuly recital control of the contro

Guartet. Wika, reader; old-fashioned tric; malpuartet. WkAF. Milwaukee, Wis. (261), 10-11 p. m., Heini Osamundson, soprano; Laon Grieb, tenor; Soland Ditter, planist; Novelty Hawaiian orchestra. Soland Ditter, Wils. Chicage, Ill. (302.8), 7-8 p. m., dinner concurt, Fred Hamm and bis Liberty orchestra. Correl and Gogolon; 12-1 a. m., Jack Chapman's Blackstone hotel.

Der German Des Grander Frei German Grander Gra

KGW TO GIVE SYMPHONY CONCERTS



Saturday, January 2

nrchestra; Capitol theater musical program; WOK mixed courred, Remma Sinda, unent; Bob Mostreja, manufactured, Remma Sinda, unent; Bob Mostreja, plantis; Illi Hay, bass. Hay, unent; Bob Mostreja, plantis; Illi Hay, bass. WOQ, Kansas £ity, Mo. (278), 8-9 p. m., misical program; Bol Hayland, and the second control of the control of the

Mountain Time Stations

KOA, Denver, Colo. (322.4), 12:15 p. m., Rialto thoater musicals, 9, dance program, Harmony Peerless orchestra.

KOA. Daven, Colo. (322-4), 1215 D. m., Rishto theader contents. P. dance program, Earmony Peerless of Pacific Time Stations

KFOA, Sealtle, Wash. (484-3), 8:30-0:30 p. m., program; 9:30-1:30, Kotled Harkness and his ordestra. KFON, Long Beach, Murchian Calif. (322-4), 6-6:30 p. m., orean reclaid at Brayinor's basister; 7:30-3. Long Beach Murchian Calif. (322-4), 6-6:30 p. m., orean reclaid at Brayinor's basister; 7:30-3. Long Beach Murchian Calif. (322-4), 6-6:30 p. m., orean reclaid at Brayinor's basister; 7:30-3. Long Beach Murchian Calif. (322-4), 6-6:30 p. m., orean reclaid at Brayinor's basister; 7:30-3. Long Beach Murchian Calif. (322-4), 6-6:30 p. m., orean reclaid at Brayinor's basister; 7:30-3. Long Beach Murchian Calif. (322-4), 6-6:30 p. m., orean reclaid at Brayinor's B

ther; 6:15, travel talk, W. F. Alder; 5:30-7, Atorsier Kent-concert orchestra; 7, talk on tenset life, Harry W. McSpadden; 7:30-8, Wurlitzer place jorgan studios; 1-10, KRN feature program; 10-11, Ray West's Ambassador hotel dance orchestra; 11:2-2 m., Holly-stalk places; 1-2-2 m., Holly-stalk places; 1-2

KTAB, Oakland, Callf. (240), 0-9:80 a. m., praye service, Rev. E. L. Spaulding.

tenor: 11:10. Watchtower orchestra: 9. I. B. S. A. choral singers; 9:05. Watchtower violin choir; 9:15. Bible letters, Judge Buttherford; 9:15. choral singers; 9:05. Watchtower violin choir; 9:15. Bible letters, Judge Buttherford; 9:15. choral singers; 9:35. Watchtower, violin choir; 10:05. a. m. church services; 7 p. m., Copley Pinnsa orchestra; Prance Polecti, common choir; 7:20. Capito theater gang, WaEF; 9:15. Atwace Kent hour; WAEF, 6:30. dinner consert. William Pan hote; 7:20. Capito theater gang, WaEF; 9:15. Atwace Kent hour; VAEF, 6:30. dinner consert. William Pan program, Capitot flucture, WAEF, 9:15-10:15. Atwace Kent hour; 20:10. (468.5), 11. a. m., services; 4 p. m., services; 24 p. m., services; 24 p. m., services; 25 p. m., Soly of the Soul's Spiritual Growth; 5:40. clark, "The Inspired Milliamater; 6:43. Charonee Seamon; Botel WGAU, Philadelphia, Pn. (278), 6:35 p. m., Soly of the Soul's Spiritual Growth; 5:40. clark, "The Inspired Milliamater; 6:43. Charonee Seamon; Botel WGAU, Philadelphia, Pn. (278), 6:35 p. m., Soly of the Soul's Spiritual Growth; 5:40. clark, "The Inspired Milliamater; 6:43. Charone Seamon; Botel WGAU, Philadelphia, Pn. (278), 6:30 p. m., Souly of the Soul's Spiritual Growth; 5:40. clark, "The Inspired Milliamater; 6:43. Charone Seamon; Botel WGAU, Philadelphia, Pn. (278), 6:30 p. m., Souly of the Soul's Spiritual Growth; 5:40. clark, "The Inspired Milliamater; 6:45. Charone Seamon; Botel Charles, Rox Rerbert F. Lafamm, prasiding; Vallay, "Wallay, Wallay, Wallay

wide hotel quartet, 11:15. Strand theater organ recital.

WHM New York, 121. V. 36:12.), 12:30-1 p. ..., LexEndeaver program; 34. A. (34:24.), 12:30-1 p. ..., LexEndeaver program; 34. A. (34:24.), 12:30-1 p. ..., Lexites; 5-5:30. Rusoland dance orchenstra; 7:30-9:45.

Roforcu orchestra; 12:12:30 a. m., Harty Ritchman and
WHP. Philadelphia, Pa. (360.2.), 4. m., "Making
Humans Whole, "religious talk, Professor Arthur
Holmes; 7:15. services, Holy Trinity church, Rev.
Floyd W. Tomkins, D. D.; 9:30. Ben Stad and his
WHAR, Providence, B. 1. (35:9.), 3. p. m., concert,
Providence festival chorus from Albee theater; 7:20.

Capitol theater family; 9:15. Auwater Kent Radio hour.

WLIT, Philadelphia, Pa. (384.5), 2. p. m., Arcadia

WHU, Philadelphia, Pa. (384.5), 2. p. m., Arcadia

WHU, Philadelphia, Pa. (384.5), 2. p. m., Arcadia

WHU, New York, N. Y. (288), 8:10 p. m., Peullst

choristers; sermon, Rev. Francis Lyons; benediction,

WHO, New York, N. Y. (289.), 8:10, m. P. (28), 8:10,

F. Joomes' Homers, 7'-230. Ernic Golden and Mis

Holel McAlpin string ensemble,

Holel McAlpin string ensemble,

Bethamy face Zeller; 8:30-8:30, 10:001 Vali and his

WHO, Roy Celler; 8:30-8:30, 10:001 Vali and his

Holel McAlpin string ensemble,

Bethamy face Zeller; 8:30-8:30, 10:001 Vali and his

WHAR, Provester, Mass. (268), 4-5:30, n. m., address,

Dr. S. Parkes Cadman, Bedford branch Y. M. C. Ac
Bethamy face description, 10:00 durar branch or Markey,

WHAR, Provester, Mass. (168), 4-5:30, n. m., address,

Dr. S. Parkes Cadman, Bedford branch Y. M. C. Ac
Betham's Selection of Carlot, 11:15, 11:

Central Time Stations

Raibh Farrell: 9. Stone church chorus-choir; Robert Miller, organist; Holen Bootunar, soprano; Story of KMA, Shenandosh, Iswa (252), 4-5 p. m., vesper service, mules and talk, G. H. Van Houtan, men's second training and talk, G. H. Van Houtan, men's second training and talk, G. H. Van Houtan, men's second training and talk, G. H. Van Houtan, men's second training and talk, G. H. Van Houtan, men's second training and talk, G. H. Van Houtan, men's second training and talk, G. H. Van Houtan, men's second training and the second training and trai

Ligon Shift and crenestra.

With Chicago, Ill. (320, 23), 12 m. Upda Welt comics;

108 Calleago, Ill. (320, 23), 12 m. Upda Welt comics;

108 Calleago, Ill. (320, 23), 12 m. Upda Welt comics;

108 Calleago, 12 m. Calleago, 13 m. Calleago, 14 m. Calleago,

WCAU COMEDIANS GIVE "AT PARTY"

Sunday, January 3

WKAF, Milwaukee, Wis. (251), 4-6 p. m., Gene Mammond's Tune Tinkers, popular dance tunes; Corbet colored male quartet; Robert F. Hall, announcer and

wills, Chicago, Hil. (392.8); 3-5 p. m., Chicago Phili-harmonic orchestra; 7-8:15, Fed Hanum and his Lib-erty orchestra; Edward Benedict, organization of the entry orchestra; Edward Benedict, organization Brown Church in the Vale; Halph Emercon, organizati, Little Brown church chold; will choose the control of the control of the con-clusion of the control of the control of the con-clusion of the control of the control of the con-clusion of the control of the control of the con-trol of the control of the control of the con-trol of the control of the control of the con-trol of the control of the control of the con-trol of the control of the control of the con-trol of the control of the control of the con-trol of the control of the control of the con-trol of the control of the control of the con-trol of the control of the control of the con-trol of the control of the control of the con-trol of the control of the control of the con-trol of the control of the control of the con-trol of the control of the control of the con-trol of the con-trol of the control of the con-trol of the con-trol of the control of the con-trol of the con-

Presbyterian church, Dr. Krederick MeMillan, pastor; 8:30, the H. & S. Pogue company concert, Walter Eaborger, director.

Will B. Chiesgo and the Carlo and Maldon and States, and the Carlo and Maldon Stister, concert program; 7:40-9, services, Fifth Church of Christ Scientist; 9-17. Trianen orchestra, Bell Lamon, Woodhow, theatro orchestra, Fifth Church of Christ Scientist; 9-17. Trianen orchestra, Bell Lamon, Woodhow, theatro orchestra, Carlo and Maldon and Maldon and Carlo and Ca pi George Allen, tenor; Bob Mokreis, pianist, Hay, bass. Kansas City, Mo. (278), 11 a. m.-12:30 p. m., ocs; 7-7-45, sarrios.

Bill Hay, bass

WOQ, Kanasa City, Mo, (278), 11 a. m. 12:30 p. m.,
services; 7-7:45, services;

WOJ, Kanasa City, Mo, (278), 13 a. m., services;

Wol, Chicago, III. (447.5), 9:30-11:30 a. m., service,
wol, Chicago, III. (447.5), 9:30-11:30 a. m., service,
and services. Papple's church. Dr. Traston Bradiuy
musical program, Jorry Sullivan, director; string,
tric: Sheppard Lavine, tenor: Helen Roed, accompanist; Sal-18, Rajho Williams and his Ratinbo Gardenstring the service of the service of the service tone; Gerrude Wolf Quentin, sopring; Carl Bertschinger, planist; Kunneth Sierling, bartione; GrasoWallace, sopring, Ohio. (326), 2.45-4.30 p. m., address;
Wallace, sopring, Ohio. (326), 2.45-4.30 p. m., address;
Wallace, sopring, Ohio. (326), 2.45-4.30 p. m., address;
Ur. S. Patros: Cadonan, pastor of Central Congregational church; 7:45, W&AI chime concert, Robert
Badgley; S. Sermouter-Press-Radio Biblio service
815-312, Auwrater Kant Radio hour, Wisha, Albert
Badgley; S. Sermouter-Press-Radio Biblio service
815-312, Auwrater Kant Radio hour, Wisha, Albert
Rough and Salama Culp, director.
WSB. Atlanta, Ga. (428.3), 5 p. m., sacred concert.
WSB. Atlanta, Ga. (428.3), 5 p. m., sacred concert.
WSB. Atlanta, Ga. (428.3), 5 p. m., sacred concert.
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WSB. Atlanta, Ga. (428.3), 5 p. m., sacred concert.
WSB. Atlanta, Ga. (428.3), 5 p. m., sacred concert.
WSB. Atlanta, Ga. (428.3), 1 a. m., First Rapids
church, Rev. Dr. H. H. Bintham.
KFXF, Colerado Springs, Cele. (230), 7:30-9 p. m.,
First Michaelist church services a. m., service, First
Baptist church, Dr. A. H. C. Morse, pastor; 3 p. m.,
music, hour, organ recital, First, Baptist church, Ur.
W. Gusber; 7:35, service, First Baptist church.

Pacific Time Stations

KFI, Los Angeles, Calif. (467), 10 a. m., morning
services; 11. Third Church of Christ, Seathist; 7,
new Comments and Chall Mitchedyt, director; Dick Barton,
KFON, Long Baech, Calif. (128.4), 6-6:30 p.

hour, Mary Christine Albin trio, Yasbel Bowen, so-prano; 3, program; 10, Pachard Six orchestra, Bill-prano; 3, program; 10, Pachard Six orchestra, Bill-stolotis, and Gard, Hitamori, director; Dick Barrico, Solotis, and Gard, 11, 122, 124, 6-6:30 p. m., organ rectal, Bruyton's theater; 8-5, service, First Church KPM, Hollywood, Callf. (222, 9-11) p. m., Werner Brothers movie (rolle, California Blue Boys; Emma Kimani sprana; Pesgy Akthews, litues singers, First Perspircian church Ror. William Kirk Guthrle, minister; 3:30 p. m., KgO Little Symphony orchestra; Arthur S. Garbett, interpretative writer; Margaret Arthur S. Garbett, interpretative writer; Margaret Rev. William Kirk. KGW. Porliand. Orc. (491.5), 10:55-12 mood, services; 1:23-9, services; 3-10, connect, Chrovolte Little Sym-Rev. Milliam Kirk. KGW. porliand. Orc. (491.5), 10:55-12 mood, services; 1:23-9, services; 3-10, connect, Chrovolte Little Sym-Logiston's Arcade confeteria carchestra, Jack Cron-tal Church St. (191.5), 10:55-12 mood, services; 1:23-9, services; 3-10, connect, Chrovolte Little Sym-Logiston's Arcade confeteria carchestra, Jack Cron-shourch St. (191.5), program, Martin Music company; Rubi, Pittl, soprano; John Martin, concert pisnist. KJR, Seaffle, Wath., (384.4), 11-12:50 p.m., Emparis, Development, Sparpur strine quarter; Mrs. Montgomery Lynch organist; 17:30-9, First M. E. church. Dr. J. Ralph Masco, pastor; 9-10:30, Paget Sound Sav-lusy and the service of the control of the con-panist; 5-0, p.m., p.m., p.m. Pirt. Pres-byterian church; 2-4, p. m., L. A. Park board pro-cram; 5-6, p.m., organ process of the con-rest of the con-rect constitute of the con-panist; 5-0, p.m., organ process of the con-rect con-sensity of the con-panist; 5-0, p.m., organ process of the con-rect con-sensity of the con-panist; 5-0, p.m., organ process of the con-cert corchestra. Cruss Trobbe, director; 8-25, Palmo-concert orchestra.

Monday, January 4

Headliners Today

Headliners Today

Eastern Central Mountain Pacific Sp. M. Sp. M.

Eastern Time Stations

KNC, Toronto, Can. (356.9), CKNC little sympheny orchestra, Churles E. Bodluy, director; Verdi mixed vocal quartet, Madeline Bell, soprano; Ella McQuillan.



contrains; Lawrence DoRos, temor; Edgar; Smith bease, WAHG, Richmend Hill, N. Y. (315,6), 12 n. 12:30 p. m., Grebo malines (tto); 7:30-5, opera initiature, "Hansel and Greely." Maude Mason, planist; 8-8:30, Symchropher Hills, "Sold Smith, 12 n. 12:30 p. m., Green, 12 n. 12 n.

duets.

BZ. Springfield, Mass. (333.1), 6:30 p. m., Little
Symphony orchestra; 7:30, Hotel Lebor ensemble; 8.
Capitol theater orchestra; 8:36, Henry Jewett,
Shakesperian reader; 9, Aleppo Drum corps; 9:20,
muste.

Capitol measer
Shakasprian reader; 3, Aleppo Drum corps; 9:30, Shakasprian reader; 3, Aleppo Drum corps; 9:30, WCAE, Pittsburch, Ps. (461.3), 3 p. m., program, Loew's Aldino theater; 6:30, dinner concert; William Penn hote; 7:30, Sunahine Gid; 8, Nixon orichestra; 9, concert, Allin 3, Elli; 10, grand opers; 11, program of the Corps; 11, program of the Corps; 11, program of the Corps; 12, program of the Corps; 12, program opers; 13, program opers; 14, program opers; 14, program opers; 15, program opers; 15, program opers; 16, program opers;

Miller comedy akti, "At the Prary"; 10, Lestic Cy w Lann, Chinesa barttone; 10:30, Parodians dance archestra.

Lann, Chinesa barttone; 10:30, Parodians dance creative.

Book-Cadillac hotel; 8 p. m., studio programs.

Tower beath exercises, size through WEEL, WCAP; 10:45-11:56.

Betty Crocker Gold Medal Flour Hono Service Talk: 11:30-11:30, www. p. 10:45-11:56.

"Woman in the Nows," Florence Smith Vilnosti; 10:45-12.

"Woman in the Nows," Florence Smith Vilnosti; 2:30-4:30, Covernment club meeting, Mrs. Goorge E. Owen; president; 4:30-4:55, Sarciew of Current Art Exhibitions." (Went) Programs of Current Art Exhibitions." (Roy Berry; 5-7, Chiner munic, Hotel Waindr-Astorist, Gary Schilling, sportano; 7:30-3.

"Lallishy Lady" (New Section of Current Art Exhibitions." (New Section of Talants and Current Art Exhibitions." (New Section of Talants) (New Sectio

WCAP, WTAG; 11-12, Ben Berule and bis orchestra direct from Hotel Rosevett.
WEEI, Beston Mass; 634-59, 8:45 s. m., health exorcisor; 8 s. m., Happy Havalins and his orchestra; - ling Young; Men for Bushness bite; H. N. Rasby; 8, E. B. Rideout, meteorologist; 8:15, Alpha Ludlestrio; 8:45, health talk, WEAF; A. and P. Gypsies, WEAF; 10, Scotty Holmes and his orchestra; Imperial Martinab band.

8, E., B. Ridesot, meteorologist, 3:15, Alpha Ladtes (10), 3:45, health talk WhAF, A. and P. Goysles, WEAF, 10. Sectory Holmes and his orchestra: Imtitle 3:45, health talk WhAF, A. and P. Goysles, WEAF, 10. Sectory Holmes and his orchestra: ImWEAF, Philadelphia, Pa. (34.5), 10:50, 2. m., solog; 1 p. m., Tea Room ensemble; 4:45, feshlon feature; 6:30, Bellevue Strutford cencert orchestra; 7, Bellevue Strutford cencert orchestra; 7, Bellevue Strutford dones orchestra. (315.6), 10:11 a. m., timely talks; 15ec. Cohen, pinnist; Dorolty Herzig, interior decorator; fashlons, Lillian Resan; 1:30-2 p. m., Fanille Daries, soprano; Inex Giglio, planist; 3:315, 40-40. Presider city of the control of the contro

Wordly, Philadelphia, His interpretations of the popular classics are unusually fine.

Swange entertainers: 8-8-05, "Storage Enterios." H.

Swonge, Sod-5-30, Roseland dance orchastra: 8-30-10-10-30, Shanley's orchostra: 10-30-11, Fitchilly club orchestra: 11-11-30, Cotton club orchostra: 11-30-12, Silver Silpner orchestra: 12-12-39, a. m., Ted Lewis WP, Philadelphia, Pa. (508-2), 64-5, a. m., start the day right exercise; 7, setting-up exercises; 1 p. in., Gimbel Tea Reom orchestra: 3, give club of Westeyan (Jimbel Tea Reom orchestra: 13, 91-12), WP, Philadelphia, Pa. (508-2), 64-5, a. m., start the day right exercise; 7, setting-up exercises; 1 p. in., Gimbel Tea Reom orchestra: 3, give club of Westeyan (Jimbel Tea Reom orchestra: 13, 91-12-10), WP, Philadelphia, Pa. (508-2), 64-5, a. m., start the day right exercise; 7, setting-up exercises; 1 p. in., Gimbel Tea Reom orchester; 3, give club of Westeyan (Jimbel Tea Reom orchester; 3, program; 8 wIAR; Providence, R. 1, (395-9), 10 a. m., Mrs. Weed of the Housewire Radio exchange; 13-5, program; 8 wIAR; Providence, R. 1, (395-9), 10 a. m., Mrs. Weed of the Housewire Radio exchange; 13-5, program; 8 wIAR; Providence, R. 1, (395-9), 10 a. m., Mrs. Weed of the Housewire Radio exchange; 13-5, program; 8 wIAR; Providence, R. 1, (395-9), 10 a. m., Mrs. Weed of the Housewire Radio exchange; 13-5, program; 8 wIAR; Providence, R. 1, (395-9), 10 a. m., Mrs. Weed of the Housewire Radio exchange; 13-5, program; 8 wIAR; Providence, R. 1, (395-9), 10 a. m., Mrs. Weed of the Housewire Radio exchange; 13-5, program; 8 wIAR; Providence, R. 1, (395-9), 10 a. m., Mrs. Weed of the Housewire Radio exchange; 13-5, program; 8 wIAR; Providence, R. 1, (395-9), 10 a. m., Mrs. Weed of the Housewire Radio exchange; 13-5, program; 8 wIAR; Providence, R. 1, (395-9), 10 a. m., Mrs. Weed of the Housewire Radio exchange; 13-5, program; 13-30, 10 a. m., Mrs. Weed of the Housewire Radio program; 13-30-12, program; 13-30-12, program; 13-30-12, program; 13-30-12, program; 13-30-12, program; 13-30-1

MRSO. Lansing. Mich. (285.5), 6-7 p. m., dinner conpart. Speed Wagoo Screnaders; Gold Standard ensemble.;

WRVA, Richmond, Va. (285, 7.30 p. m., children's
program; 8:05, Allee Stawbrt. soloist; 8:10, Mrs.

program; 8:05, Allee Stawbrt. soloist; 8:10, Mrs.

solitist; 8:15, Clara Wado, bandoist; 8:10, Mrs.

solitist; 8:15, Clara Wado, bandoist; 8:30, Helen
Beoth, soloist; 8:35, Anna Delgrande, soloist; 8:40,

chorus; 8:45, Pereza Birl. soloist; 9, Myrde Barris,

solitist; 8:15, Clara Wado, bandoist; 8:30, Helen
Beoth, soloist; 8:34, chorus; 9:56, colot, Lonies

Frances; Lillian Ketler; 9:35, Clara Wade, bandoist;

Mr. Bale, soloist; 9:34, chorus; 9:56, colot, Lonies

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Mr. Bale, soloist; 9:34, chorus; 9:56, rolot, Lonies

Frances; Lillian Ketler; 9:35, Clara Wade, bandoist;

Mr. Bale, well of the soloist;

Mr. B

ALBERT SPALDING, VIOLINIST, ATWATER K

Index to Popular Concerts

Saturday, January 2

Eastern. Gentral Mountain Pacific

7.30 p. m. 6:30 p. m. 5:30 p. m. 4:30 p. m.
WFAA. WBBM, WEAF, WENR, WGBS, WLS, WMAQ, KFAB, KPRC, WBBM, WENR, WGN, WLS, WMBB, WREO. KEVE KEWB, KNX, KTHS, WBBM, WMBB, WOK, WOJ, WBC. 12 11 10 KNX KOIL, KPO, KPRC, WBBM, WLS, WOAW, WOL, WQJ. 12 m. 12 m. 11 10 KPWB. WDAF, WBBM, WEBH, WENR, WOK. WQJ, WSAI. KNX, WBBM, WENE, WQJ.

Sunday, January 3

Eastern Central Mountain Pacific
p. m. 8 p. m. 7 p. m. 6 p. m. WBBM, WMBB. KEWB

Monday, January 4

Eastern Control Mountain Pacific
7 p. m. 6 p. m. 5 p. m. 4 p. m.
WEBM, WFAA. WOAW.
8 7 6 5 wgbs. WEAU, WEAS, WGR, WKRC, WOK. 7 REAL WGR, WRIC, WMCA, WOAW, WOK.

Tuesday, January 5
Eastern Central Mountain Eastern Central Mountain Paoine
7 p. m. 6 p. m. 5 p. m. 4 p. m.
WMICA, WOAW WBBM, WEAR, 7 6
WBBM, WEAR, WBZ, WSB, 10
WBBM, WMBB, WOAW, 8

Eastern Central Mountain Pasific
11 p. m. 10 p. m. 9 p. m. 8 p. m.
KFVE KFWB KNX, WBBM, WHT, WMBB,
WOK, WQJ. KFWB, WQJ 12 m.

Wednesday, January 6
Eastern Central Mountain Pacific
8 p. m. 7 p.m. 6 p. m. 5 p. m.
KFNF, WAHG, WEBJ, WEEI, WMCA. WBBM, WEBJ, WGCP, WNYC. KFAB, KPRC, WBBM, WGCP, WHO, WMBB. LI 10 KGW, KPO, KWSC, KYW, WBBM, WHN, WMBB, WOK, WQJ, WSC, KYW, WBBM, WBB, WK, WQJ, WSAL, KYW, WOK, WQJ; WSAI.

1 a. m. 12 m. 11

KNX, KYW. WBBM, WHT, WOK, WQJ.

2 1 a. m. 12 m.

KFWB. KNX, WBBM, WOK. WQJ.

Thursday, January 7
Eastern Central Mountain Pacific 8
B m. 7 p. m. 6 p. m. 5 p. m.
WCAE WEAF WIAE, WEIC WOC. WSAL WEBM WHAD. KMA, WBBM, WEEL, WHAD, WHN, WMBB, WMC, WNYC, WOAW, WSOE. KHJ. KMA, KYW, WBBM, WMBB, WOK. WQJ.

12 m. 11 KOLJ. WEBM. WDAF. WEAA.

WICRC. WOC. WOK. WQJ.

18 m. 12 m. 11 d0

KFVB, KBJ. WHT. WCK. WQJ.

KNX. WQJ. 1a. m. 12 m. 11

Friday, January 8

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



The organist on the Tuesday program of WRC, Washington, D. C., will be Gertrude Smallwood, above, who plays both the organ and plane at this station. Sarra Enbenstein, right is the dramatic director at WOAW, Omaha.

Rich: 3-4 p. m., "Meat and Vegetable Sauces", Helen Harrington Downing; musical pregram, Braille music club; Daisy Isbester, president; planu solos, violinist and readers.

WSAI, Cincinnati, Ohio (328), 19-12 p. m., community program, assisted by Community Symphony orchestra

program. assisted by Community Symphony orchestra and soloists.

SBI, Atlanta, Ga. (428.3). S. D. m., outertainment; 10:45, enicetainment. (222.8), 6:30 p. m., Beasley Smith, and his orchesida; 7, bedlime story, 7:30, commonly program, Pitz Freebystein church; 10. Vito M. Pellettleri and his orchesica. (burch; 10. Vito M. Pellettleri and his orchesica. Signification correspondence coarse lectures. Mishau Mott-Router-Stilner; 2 program, 2 program,

Peramount theater; 6-9. Oddon Raulo Dealers proRFAC. Colorado Springs; Colo. (250), 8:30 p. m.;
"musical selections: 8:459. decademat latik; 9-10:30,
dance program, Warner Siono's Columbians.
ROA, Donew. Colo: (322.4), 12:15 p. m., Rialio
finator musicalis; 6:30, dinner colment. Brown Palaco
standamen's boor; S. Raulo instruction to conversational
Spanish; Prof. Amanda Lopez Knecht; musical interlute. KOA orchestra, satisfing soloists; 9, Radio
lustruction in auction bridge; 9:30, brogram, June
King, constatio, Abbie Canse, planish; Samino Door;
Roary". "Sweet Little Woman of Mine".
ROB, State College, N. M. (34:6), 7:30-8:30 p. m.;
"Results of Extension Activities," W. L. Elser: "The
Ideal School." Prof. Charles D. Bodhamor; musical
program, Margaret Backer, director.

"Results of Extension Activities," W. L. Diser, "The Ideal School," Perf. Charles D. Bohannon; musted program, Aurerare Banker, director.

Pacific Time Stations
KFI, 'Us Angeles, Galif. (467), 5:30 n. m., Examinor musters program, 6, Nichiky Doinses, Calif. (367), Seeting program, 7, Nichiky Doinses, Calif. (368), Seeting program, 1, Leila 18-bohl, plantets, 8, Druy, Leifington, Lenot: Margaret, Jahnston, stolhilst, p. poogram, valuet M. Marphy, KFOA, Seattle, Wesh. (453, 3), 6:46-8:16 p. m., Sherman, Clay and company, program, 18:30-10, Times, standio program. (2014), 18:30-10, 18:30-1

"Shall We Too Ericky Radio," Mrs. Howard L. Terry; Atton. 4781-480. On: 461-51. 7-15 n. m. chapital editure exorcises: 12.39-1.30 n. m., Rose City Irlo; 6-7, dinner concert; 3-9, concert; 3-10, concert. H.R. Scattle, Wash. (384-44), 10:30-11:30 n. m., Cornish ethodo, "Halping the Children with Thair Allowshood, "Laping the Children with Thair Allowshood, "Laping the Children with Thair Allowshood, "Allowshood, "Reduction of Prepare for Tonighti's Dinner," Bernice Reddington; 7-8-30, Sears, Rochuel; and company studio proferam; 8:30-10, represent; (10-11, Gordon Killbourne and his contestra.

program; exceeding program; (0-11, Gordon Acidottee program; exceeding program; (0-11, Gordon Acidottee program; (0-11, Gordon Acidottee program; (0-11, Gordon Acidottee) progr



company program: 9-10. Ward Heater company program: 19-11, Goodrich Silvertown Cord orrhestra; Lilyan May Chailenger, contralto; 11-12. Ray West's Coconnut Grero orchestra. Contralto; 11-12. Ray West's Coconnut Grero orchestra. Code, Gevenilla, Ore. (290.2), 7:20-p. m., selections; 7:30, matricultum, question bax: 7-30, "Home Curing Press, A. W. Olfwer, S. Newsmalbs Instructions for Section of Company of the Company of the

Waldenar Lind and the States restaurant orchestra.

KRP. Parthand, Ore. (212), 2320-339, m., musted program, Haulin Erndes; association, Mrs. Fred Olson, director; 6. children's program.

KTAB. Oklaind, Calif. (240), 9-9:30 a. m., prayer service, Rev. E. L. Shanidher; 4-5, women's club motes; 5-10; program.

notes; S-10; Program, veguun osaues in Company.

WSC, Pullman, Wash. (348.6), 7:30-9 p. in., Preda

WSC, Pullman, Wash. (348.6), 7:30-9 p. in., Preda

Shopherd, violinist. Butliting an Efficient Corcer.'

Chieves. C. D. Calogeries. "January. Form Solination," R. M. Turaer; readings, Cloish Cooper.

Tuesday, January 5

Headliners Today Eastern Central Mountain Pacific 7:30 p. m. 6:36 p. m. 5:30 p. m. 4:30 p. m.

WBZ (3	33.1) Literatur	o copyso.	
В	7	6	5
WTIC C	475.9) Travolor	s' symphonic es	nsemble
8:30	7 :30	6:30	5-30
WEAF ((491.5). WEEL	(348:6), WGR	(910) NCA
(461.3	WEAP (46)	3.5), WIAR (3)	15 9) WTA
-(268)	WCCO (418), WOC (483.6	Cold Du
Twins.		,, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	y Crotta Dia
	(399.8) Zoelle	r's Melodicia	
WJZ 14	54 8) WRC (468.5) Edison	hour
9:30	8.30	7:30	8:30
KPRC ((296 9) Grabian	Lycoum trio.	0.20
10	D.	8	7
	(374.8) Old-th		,
11:10	10:10	9:10	B:10
EVW (536) Midnight	0.10	0.10
11	10	revue.	8
	585.4) Evening	of home	۰
11.05	10:15	9:15	8:15
TITLE A	274 01 1 100 11	-n nanalilaa	,6113

WSUI, WTAM.

Eastern Time Stations

WAHG, Richmond Hill, N. Y. (315.6), 12-12:30 p. m.,
Joe Zipunernan, planist.
WBAL, Battliners, Md. (246), 8:35-7:45 p. m., WBAL

string 4rio, Philip Jeffroy, planist, Arthur Morgan,
violinist, Franc Aulice, cellist, John Wilborn, trans.

Monday, January 4

botal Statler archestra; 3. Détroit News orchestra; 5. dinner cancert; 5. News orchestra and soloists.

Central Time Stations

CKY, Winnesse, Man. (38.44), 7. D. m., university lecture; 8:30, "concert, Winnesse; Home Weifare society: In rows, Asterogram, 10. Denne Weifare society: In rows, Asterogram, 7:30 m., farmer; Anich procean; farm tibosofy, Cy Adams; "Control or San Jose Scale", J. G. Barnett; Locking boak over 1025", Chis M. Oblim: "Knowing Windows On Sandows Over 1025", Chis M. Oblim: "Knowing Windows On Sandows Over 1025", Chis M. Oblim: "Knowing Windows Over 1025", Chis M. Obl

hour, 7:30, Malon, Gunn's Toxas Ramblers; 3:30, atudic cenects.

KSAC, Manhattan, Kans. (340.7), 9-9:35 s. m., music inspirutional culls, angiveliural prince, callishmics; 9:35-10:25, readings, berkyard gusell, usestlon lossy planning control of the control of

I. Threckmosten.

K. D., St. Louis, Mo. (545.1), 7 p. m., "Fur Hour", Irish congs, Margaret Nolan, songaran p. reelal, 18. K. D., St. Louis, Mo. (545.1), 7 p. m., "Fur Hour", Irish congs, Margaret Nolan, songaran p. reelal, 18. K. D., 18. Louis, 18. Lou

U. S. Infontry band, Fort Somling, Lar Junos, conductor.

GAFN, Some City, Mr. (58.58), 6-7 p. mg., Tell-mag.

GAFN, Mary dialect scadings, C. M. Ragan; mustiTrianno ensemble; 5-9-20, classical norgans, StoriRadio orchestra; Mrs. A. G. Stammard, vocal solicit;
11:45-1. Carl Nordberg: Plantation players;
selections, Ted Somy on Fantages theater organ.

GPBP, Chattanogy, Tom. (259), 6-39-7, n.m., -wren.

ANN. WOJ.

Aller J. Trell theater: 7-8, Heal Patten orchestrs; work, spends of the control of th

Stoot contains, Forting concert or creating, Virtuan to MWA62, Chicage 111. (447-5). 12:20 p. in. Junior Assertation of Commerce: 1. Radio Farm school; 2, shutt-in program; 4. Multiers in Council; 4:30, "Fotbles of the Moment," Mrs. Graham; 4:40, Glenn Dillard; Gunns School of Musin; 5, children's genes, Glenn Adams; 5:15. Toors-Turry time; 6, Chicago Glenn Adams; 5:15. Toors-Turry time; 6, Chicago Glen, School, Chicago Glenn, Chicago Gl

Bandall's Royal Fontenelle nrchestrs; 9, de lute prefirm Demonstre, towe (43.8), 124:15-20-5 m.

600 Met. Ho. Box Man Wonte; in His Pits." Prof.
John M. Ervard; 3-3:30, honce management schedule,
Aunt, Jane; 5-35-6, chimies.

10:1.5, Dairy Production—Questions and Answers,
10:1.5, Dairy Production and Answers,
10:1.5, Dairy Production—Questions and Answers,
10:1.5, Dairy Production—Questions and Answers,
10:1

TER KENT ARTIST THROUGH WEAF CHAIN



DANCING

7. Ballovius Stattford dance orderers. S. 30. and Dust Twins; 9. Erecady bour; 10:30. Uncest Lower orderestri. W. S. 40. April 10:30. Duri 10:30. Uncest Lower orderestri. S. 40. April 10:30. Duri 10:30. Uncest Lower orderestri. S. 40. April 10:30. Duri 10:30

7-45-3:45. musical program; Marion McPall Kaye, 87-35. (George Boles, pisnia; James Wilkinson, barlion): George Boles, pisnia; James Wilkinson, barlion; George Boles, Boles,

McGes: 5:20. American pomolegical program address. "Orchard Cover Crops," Harvid B. Taker 530 didner program, Reed 'Hamaker's Harvid B. Taker 530 didner program, Reed 'Hamaker's Harvid B. Geward Kerter, 1:30. address. "The Drame," Prof. Edward Kerrett Haiter 7:45, methne band, WRG; 8:30; Edsten thorn. W2Z; 9:30, Radio Four quarter; 10. "The 10:30. Wy Spaces Tupman's Hotel Marjower orchestra, WRG. Prof. 10:30, W. Spaces Tupman's Hotel Marjower orchestra, WRG. The Hamiltonian Company of the Walland Com

content which is a second of the content which is a second of the

Index to Farmers' Programs

Farmer Dinner Concerts Daily Except Sunday KFNF, 12:15-1:35 (central time). KSO, 12 (central time). WLS, 12 (central time).

Talks

Talks

Talks

Saturday, January 2

Estern Central Mountain Pacific 13th m. (2:15 p. m. 11:15 a.m. (0:15 a.m. 10:15 a.m. (0:15 a.m. (

WFAA (475.9) Sounday hour for farmers MOUNDRAY, JAINTARY 4

Eastern Central Mountain Pacific 1:15 p. m. 1:15 a. m. 10:15 a. m. 10:15 a. m.
WEAO (223.0) Timely Economic Information for the Farmer WOC (433.6) What the Hog Man Wants in His Pirs. | The Fermer | The

12:15 p. m.	11:15 a. m.	10:15 a. m.	8:15 a. m.
10:15 p. m.	11:15 a. m.	10:15 a. m.	
10:15 p. m.	12:15 p. m.	10:15 a. m.	
10:15 p. m.	12:15 p. m.	10:15 p. m.	
10:15 p. m.	12:15 p. m.	12:15 p. m.	
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WWI, Dotroit, Nich. (352.7), 9:39 a. m., Tonight's Dinner"; talk pyromonan editor; 12:05, Jules Klain's Hotel State ordinests, editor; 12:05, Jules Klain's Rotel State ordinests, editor; 18:05, Jules Klain's Guner concert; 8, concert, WEAR, News ordinestra; 6, dinner concert; 8, concert, WEAR, News ordinestra; 6, dinner concert; 8, concert, Wear, FAF, Shemandoah, lowa. (256), concert, Purtle Brutlers, Tarkio, Mo. (431), 6:39 n. m., morning KLOS, independence, Mo. (441), 6:39 n. m., morning Carlot, March Carlot, Mar

Friday, January 8

Eastern Central Mountain Pacific
1159 p.m. 12:15 p.m. 11:150 a.m. 10:15 a.m.
12:15 p.m. 12:15 p.m. 11:150 a.m. 10:15 a.m.
17:35 12:35 11:35

EXAC (240.7) Tile Billion Dellar Eansas Crop.
Breaking In the Young Borse. 10:45
17:45 12:45 11:45 10:45

WOLGO (4101.4) 12:68 Konding, lesson IV—Boncy
WOCCO (4101.4) 12:68 Konding, lesson IV—Boncy
10:130 - 9:30 9:30 8:30 7:30 as Food. 10:30 9:30 8:30 7:30 KWSC (348.9) Brooder Houses and Equipment for Young Cricks.

Markets and Weather Daily Except Sunday

Eastern Central Mountain Paoine 9:30 a. m. 8:30 a. m. 7:30 a. m. 6:30 a. m. 6:30 a. m. WCAA (475.9) markets. WOAW (626) markets. 10:45 9:45 8:45 WCCO (475.9) merkets. WMC (499.7) weather, markets. WMC (499.7) youther, markets.

11 10 (499.7) youther, markets.

11 10 WBAF (475.0) markets, quotations.

WS (440.9) wouther, hog.

11 15 915 915 816

WAG (288) markets, westler.

11 15 915 915 830

KFKX (288.3) westler, fruit, regetables.

WEAR (383.4) markets, westler.

11 45 0145 915 815

VAAW (384.4) Livestock, butter, cggs.

12 noon 11 a.m., 10 a.m. WAAW (384.4) Livestock, butter, eggs.

12 non 10 in. m. 10 in. m. 9 a. m.

KDBA (30.5) was therefore in the state, grain,

WEAR (38.5) was there, states, grain,

WEAR (39.5) was there, markets.

WEAR (39.5) in the state of the stat NFAA (470.9) markets.
ip. m. 12 noon 11 a. m. 10 n. m.
WBAP (475.9) markets.
WHT (400) fruit, weather.
WOS (450.9) 1188168, weather.
WOS (450.9) 1188168, weather.
LTIB. m. 1230 p. m. 1130 a. m. 10330 a. m.
WFAA (475.9) markets.
WFAA (475.9) markets. WFAA (475.5) murities, with the control of the cont A 130 Northern, markets, FKK (283.5) livestock, wool.
WCCO (418.4) markets,
WCX (517) stock and grein.
4:30 3:30 2:30 1:30
WE3.R (389.4) markets, weather.
WFAA (475.5) markets,
WFAA (475.6) markets,
WBAS (399.8) markets, weather, road reports,
WBAS (399.8) markets. 9 8 8 6 6 WAAW (384.4) Marketgrams and telks.

talks, music; 7-7:30, farm iniks; 7:30-9, orchestra and sonas.

KTHS, Hot Springs, Ark. (374,8), 9-10 p. m., old time fudding, French harn; cantest and country specialise, Mount Ion entertainments, Tom Baltwin, directions, 10:15, 10:

ALBANY COMMUNITY CHORUS AT WGY

Tuesday, January 5

Wledman sisters, colestial bells: Dorothy Bull, so-prano; Ralph Bull, tener; Arthur Rendfall, elarline; Newcomer and Stewert, cornelist; Mrs. Wedekuld and Miss Wedekuld, vosal ducis, Mrs. Schaefer and Miss Wedekuld, and the state of the state of the state of the WOOD in the state of the state of the state of the Constant Dick Lone; A pation, tillo; 2. covernment problems, league of vomen roters; 3:05, the world of books; M. A. Bellows; 4. readers; dub. Eleanor Poohler; 5:30, children shour; 6:15, dinner concert. Emmel. Long's Golden Procession of the state of the Brandel Long's Golden Procession of the state of the 9:9:30, bridge; lesson, WEAF: 9:30, musical pro-gram for Crane company and Duro Pump and Manu-facturing company.

WDAF, Kanasa City, Mo. (365.6), 3:30-4:30 p. m. The, Star's string trio; 0-7, Toll-ine-a-story lady address; Radio plano lesson. Maddeller Littlefield muste, Trianon Ensemble; 11:45, Plantatton players Eddle Kuhn's Kanasa City athielic club orchestra WDOD, Chattanooga, Tonn. (256), 0-9:30 p. m., bridge

Semes. Vinacanusus, 1um. (cob), 9-9:30 0. m., blidge games.

WEBH, Chicago, Ill. (370.2), 7-8 p. m., dinner concert, Marino dining room, Edgewater Reich Hotel Orlole orchesita; sopremo solo, Katherine Eordes, plano solo, dinner sololedons, Edgewater Beach Hotel Orlole orchestra; musical bits, Belabon and Katz's Uptown theselt; 11:19:30, dance selections; voat choruses, Mark Pisher; Edgewater Beach Hotel, Orlole orchestra; musical bits, Belabon and Katz's Uptown theselt; 11:19:30, dance selections; voat choruses, Mark Pisher; Edgewater Beach Hotel, Orlole orchestra; special numbers, Flox May and Eadf, Nay Rougnos, papedia numbers, John Petrown, John Pet

WEBW. Beloit. Wis. (263), 8 p. m., concert hour; organ selections; plano numbers; male quartet, vocal sole; volin selections.

West scheetlos: International Control of the Control of the Control of Contro

oninet; 8-8. Bankers Life trie, Hishen Elemincham, director; 11-12, Bankers Life Little Symphonic orchestra.

WHT. Chicago, III. (399.8), 10 a. m., Jenn Sarsent's proctam, women's compliance of the process of the pro

uance program, Drake and Blackstone hotels dance orchestras.

WLS. Chicago, III. (394.6), 12 m. Ford and Glenn; 6:30 n. m. Rajap Emerson, organist; 7, lullaby time, Ford and Glenn; 7:15, Armour's glee club.

WLW. Grinimant, Ohio (422.8), 7:80 a. m., hoolthful exercises, William Stradiuan, Y. M. C. A.; 8, morning devolutes, suspices of the Parkway J. M. C. A.; 13:60 p m., rollagious service, morning devolutes, suspices of the Parkway J. M. C. A.; 13:60 p m., rollagious service, proposed and the clinical commencer of the Parkway J. M. C. A.; 13:60 pm., rollagious service, upolis of the Clinical Commencer of the Clinical Clinical Clinical Commencer of the Clinical Clinical

Farm.
WMAQ, Chicago, III. (447.5), 12:45 p. m., Radio farn school; 2: Shut-in program; 4, Red Cross-home nursing talk; 4:45, Columbia School of 'mutic; 6, Chicagh theator organ recitat; 6:30, Motel LaSalle, orchestra 8, book talk, Harry Honson; 8:20, musical invoram 8:40, travel talk, Clara E, Lauxhiln; 9, lecture, U of Chicago; 9:20 announced.

of Chicago; 9:20 announced.

MBB, Chicago, III, (250), 7-8 p. m., Triainon duo, Gonoviere Burnham, program and talk on finance; 9-11, Trianon orchestra, Doil Lampe, Woodlawn theater orrhestra, Armin P. Hand, Scotty Weith and Madison Sisters, 81 Berg, popular program.

OAW, Omata, No. (262), 1235 p. m., Jady's string orchestra; 6, classical; 6:06, Jady's string outleter; 10:09. Horb Felforman and his Omadala orchestra; 12, Riairo alaro.

12. Rialto alaron.

OG. Davenperi, lowe (483.8), 12:15-12:25 p. m.,
"Various Poultry Diseases," Prof. A. G. Phillips
2-3:30, home mainspencet, Anul Jane; 3:45-6, chlimes
8:39-5:19, sandman; 7-7:10, educational farm talk
8:39-5:19, sandman; 7-7:10, educational farm talk
WEAF, 8-9:30, uput Twins, WEAF, 8-9, Evrocardy hour
WEAF, 8-9:30, with B. J. Joint 1:11, Jouennett Brewton World' With B. J. Joint 1:11, Jouennett Brewreading; Harry X. Morcet, tenor; Harvid W. Puls
bartiono.

readings; Haffy A. access. bartione.

701, Ames, lowa (270), 12 m., "Good Equipment Makes a Good Farm Better", O. A. Bosserman; 12:45, "Animal Hisbandry—Questions and Answers", Prof. H. H. Kildee.

mal Hissonary—discission and Answers, 7901. B. II. K. Klides.

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II. K. Klides.

II. K. Klides.

III. K. Klides

WOJ. Chicago. III. (447.5). 11-12 m., home economics program, Helen Harrinston Devaning; "Novilities for Spring", Lillian Bussell; 3-b m., "The Man Jong Supper", Helen Harrington Dewning; "Purchasing on the Installment Plan", Jano Strockett, "Furchasing on the Installment Plan", Jano Strockett, "Functial trio; Everett Mitchell, battonot, 16-1 a. n. Rajba Williams and his Ralabo Gardans orchestra: Funcial trio; Everett Mitchell, battonot, 16-1 a. n. Rajba Bose Vanderboech, apprano and planist; Hal Lansing and his use; Everett Ople, character reader; Bett Davis; Mertill Cardor, battlene; Will Rosster; Brundage and Kramer, harmony duo; Ila Shannabrock, soprano; Dave Kapp; Rome Vincent, boy Darlone; Rollingswort and Aliamore, guitar duo; grids; 1-2. Rollingswort and Rollingswort an

Skylarks:

VSA1, Cinolnasti, Ohio (\$28), 5-80 p. m., twilight
musicale; 8-30, Davis saxophone ecicite, WEAF: 7.

Mables and Carew orchester; Reuben Lawson, director;
8. Evercady Hour of music, WEAF; 9-9:30, Radio
auchion Dridge, WEAF: 9.80, music program; Hawding

Brothers frolls, direction Charile Wellman, 11-12, Hottwood Roof baltroom ordicatra. KGO. Oskidad, Galif. (361-2), 45-30 p. m., cancert orchestra. Hotel St. Francis: 5-30, "As a Woman Thinketh", Louise Landis: 6-7, dinner concert, Baldroom Thinketh," Louise Landis: 6-7, dinner concert, Baldroom LaFarras and bits concert orchestra; Margarat O'Dea. contraito: 9-930, Eastin Kent, tener; Louise Marlesu, planaist; 8-30, Aucdion Bridge feature; 10-11. Hotel St. Frincis dance music: Girtin Duelo; California KGW. Portland, Orc. (491-5), 12:39-1:30 p. m., Rose City tric; 6-7, dinner concert; 7-45-8, talk; 8-10, educational program; Auction Bridge felsons: style Ktl., Loa Angeles; Calif. (407-2), ed. D. m., Leithton's Arcade cafeleria orchestra, Jack Cronshaw, leader; 6:30-7-30 p. m., Hukory story, Ford. Retroes; veekly Killian.

Wednesday, January 6

Headliners Today 6:30

Eastern Time Stations

selections, Municipal band; Prof. Manolo-Titol, conductor.

Ministry of the Manology of the Ma

Index to Classical Concerts

Saturday, January 2 Eastern Central Mountain Paoine 6 p.m. 5 p.m. 4 p.m. 3 p.m. WCX, WEAF, WMCA, WREO. KGO, HYW, WEAR, WENR, WMAQ, WNYC, WOAW, WOK, WRC. RDRA, KFWF, KOLL, KSD, KYW, WBBR, WON, WBB, WNC, WSD, KYW, WBBR, WNC, WSD, WSD, WSD, WLW, WLW, WOND, WSI, WSOB 10 KS, KYW, WEAF, WHAA, WHO, WOLD, WSI, WSOB KGO, 12 m WOAW. o n Sunday, January 3.

Eastern Central Meuntain Pacific 60.7m. 5 p. m. 4 p. m. 5 p. m. 77.20

WCAE, WCAIL, WEAF, WEAR, WEEI, WJAR, WYLAG, WW. WEAR, WGB, WGCF, WKAQ, WILS, WGB, WGCF, WKAQ, WILS, WGB, WGCF, WKAQ, WILS, WGB, WGCF, WKAQ, WGL, WGB, WGCF, ENX.

Monday, January 4

Enstern Central Meountain Pasing

8.p. 8.p. 4p. mx. 8p. m.

KGO. WCX. WEAF, WMCA, WREO. WWJ.

KMA. WCCO. WEAF, WEAF, WHAD, WJR,

WOAW, WOK. RENE KSD. WBBR, WBZ, WCAU, WCX, WHAR, WHI, WJAR, WLW, WMBB, WIAG, WIC WTIC.

90 8 KHJ, KTRC, WBBR, WCCO,
WBZ, WCAE, WEEL, WHAD, WHO, WJAR,
WLW, WORD, WOS.

10 9 8 7 10 2 8 8 7 WCCO, WEAF, WHAD, WJAR, WOAW, WSUL, WIAG.

10

KGW. KHJ, KMA, KSD. KTHS, KWSC, WHN, WSAI. WSAI.
12 m | 11 | 10 |
KGW, WBAP, WSAI.
1 a. m. | 12 m | 11 |
KHJ. Tuesday, January 5

Eastern Central Mountain Pealse

®p. mcx. Wear, Wada, Waleo, WWJ.

70 KMA WEAR WELL WOBS. WHAD,
WWW. WMAA, WOAW, WOX, WOB, WIIO,
WWW. WWI. 88 7 6 8 KFNF. KSD, KYW. WEZ. WGAE, WCAU, WCAY, WEAR, WEEI, WGR, WHAR, WHT. WLS, WMBB, WQJ, WRC, WTIC.

WTAG.

RFAH. KPPOM KPMG. 8

RFAH. KPPOM KPMG. KPXA. KNX. KPRC.

RFAH. WAGE. WGGO. WAAP. WEAT. WEET,

RZW. WAGA. WGG. WSAI. WSGE.

WTAG.

RGO, RHJ. KMA. KPW. WSAI.

12m 11

RW. KWA. WSAI.

8

KPO, KYW. WHO, WMG. Wednesday, January 6 Eastern Central Mountain Paolifo
6 p. m. 5 pi. m. 4 pi. m. 3 p. m.
WCX, WEAF, WMCA, WREO, WWJ.
RGO, WEAR, WHAD, WJR, WMAQ, WOK, RÓO, WEAR, WHAD, WIR, WMAG, WOK, WTIC.

RENE KIPRC, KRB), KTWE WHZ, W. S.

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WHZ, Thursday, January 7 Eastern Central Mountain Pacific 6 p. m. 5 p. m. 4 p. m. 3 p. m. WBZ. WCX, WEAF, WIP, WMCA, WBEO, WWJ. WWJ. WEED, WASCA, WEED, WASCA, WEED, WEED, WEER, WORS, WHAD, WIR, WMAG, WOAW, WOK, WWJ.

EW WBBR, WEZ, WG, WCC, WCX, WEAR, WEST, WGR, WGY, WHAR, WHIT, WIS, WLW, WMBB, WOAW, WQJ, WTAG, WTIC. WIS. WLW. WMBB, WOAW, WQJ. WTAG, WTIG. WTAG, WTIG. WBAP, WGAE, WCAU, WCD, WGAE, WGAE, WGR WIAR, WHAS, WJAR, WNTG, WGC, WGRD, WRC, WASI, WSB, WTAG, WSB, WTAG, WTAG Friday, January 8

Eastern Central Mountain Pacific

6 p. m. 5 p. m. 4 p. m. 3 p. m.

KGO, WCX, WMCA, WREO, WWJ. 4 KGO, WEBJ, WGY, WHAD, WJR, WMAQ, WOAW, WOR, WOR, WTIC. WOAW, WOE, WOE, WTIG.

KYW. WAHG, WEZ, WCAU, WCX.
WEEL, WHT, WLS, WOAU, WCX.

KPOM. KENP. KPOA, WOO, WH, KSD.
KYW. WHAP, WEZ, WCAU, WDAF,
WHAD, WJAR, WMAQ, WMCA, WSAI,

WHAD, WJAR, WMAQ, WMCA, WSAI,

WHAD, WYAR, WMAQ, WMCA, WSAI, 10.00 KFAB, KEDM, ROA, WCCO, WHAD, WMAQ. KEMX, KH, 10.00 KFAB, KMX, KP, 10.00 KFAB, KMX, KP, 10.00 KFAB, KMX, KP, 10.00 KFAB, 10.00 WSB Atlants, 6s. (428.3), 8 p. m., Lyon and King De Luxo concert; 10:15, Motropolitan these atlate. WSUI. Iswa City, Iswa (483.8), 12:39 m. tenor sales. C. Esco Obermann; "Development of Taient for Art", Norman C. Moler.

Mountain Time Stations

CFAC, Calgary, Csin. (435.8), 8.9 p. m., ladies' concert trio, Gladys Webb Foster, director. CNRR, Regina, Cnn. (476), 8.0, m., bedting story, classical music, Ronnie Bell and Ethel Bloomer.

classical music. Ronnie Bell and Ethel Bloomer.

KFWA, Ogden, Utah (281), 4-5 p. m., organ reigial,
Paramount unseer; 6-5, Oeden Radio deasters program.

KFAF, Calorate Sarians, Cale. (290), 8:30-10 p. m.,
Froeman Dust Absorber mentical program.

KOA, meneye, Cale. (222.4), 12:15 p. m., Risito thenKOA, meneye, Cale. (222.4), 12:15 p. m., Risito thenkoa, Calorate Sarians, Cale. (202.4), 12:15 p. m., Risito thenkoa, Calorate Sarians, Cale. (202.4), 12:15 p. m., Risito thenkoa, Calorate Sarians, Calorate

Pacific Time Stations

(F), Les Angeles, Calif. (487), 5:30 p. m., Examiner matinco program: 6, Nightly Doingag; 6:15, "Seeling Cullifornia"; 5:30, Vest Pocket concert; 7, special sonosored program; 8, Los Angeles Examiner program; 9, dance masic, Mabelle Hetti and her Dine Bird band; 10, Packard halld hour; Birlly Hall, Charles Cole, Marton Boogar, Mithelin Hardy, Bobble Gross. cote, marion Boogat, Madelin Hardy, Bobbie Gross. KFOA, Seattle, Wash. (454.3), 6:45-8:15 p. m., Hopper-Relly company, 8:30-9:30, Times studio program; 9:30-11:30, orchestra.

11:30, orchestra. KFON, Long Beach, Calif. (232:4), 6-6:30 p. m., organ rectal, Brayton's theater; 8-9, program arranged by Wm. Conrad Mills; 9-11, Long Beach Apro club Hi-

Wen. Conrad. Mills; 9-11, Long Beach are club Hi-Jinks.
KFWB. Hellywead. Callf. (252), 5-5 p. m., children's hour. Big Brother of KFWB; 7, heelth talk, Dr. W. I. Schuster; 7-15, microphone brevittes; 3-9, program, MacDonald-Dodon Tire company; June Pursell, popular songs; Frank Stever, bartione; 9-10. Joe Maritin's Studio Six dence orchesters; 10-11, Warner

Walter Biddick; 10-I1, Don Clark's Biltmore hotel

Welter Biddick; 10-11, Don Clark's Biltmore botal dance oxchestra.

KR: Seattle, Wash, (384.4), 16:30-11:30 a. m., "Planning a Financial Program for the Home." Inc. M. (1998) and the Home of Control of the Home of Planning a Financial Program for the Home. Inc. M. (1998) and the Home of Control o

DEBUT OF VENETIAN TRIO FROM WLW

Wednesday, January 6

wnyc, New Yerk, N. Y. (526), 6:29-6:30 p. m., plano selections; 6:30-7, elementary Spanish lessens; 7-7:33, davanced Spanish lessens; 7-8:33, davanced Spanish lessens; 7-8:35, damed program; 30:20-10:30, lecture of the control of t

Meyer Davi'r Le Paradis bund: 9, WkU's rootin on the control c

Central Time Stations

gram; 10. Roxy and his Gans.

CKY, Winnipeg, Man. (384.4), 7:30 D. m., program, Canadian National Railway, CNRW.

ORIV. Winnipeg, Man. (384.4), 7:30 D. m., bedcorrelatin; Said, Romand (384.4), 7:30 D. m., bedcorrelatin; S:40, Romand W. Gibsen, plannia; Emite Mignace, violinist; Say Barnes, reader; W. Dwidson Thouson, baritone; 10. Fort Garry hotel, revine Pluman Kill, and the Correlating of the Correlation of the Correlatio

Sharpsburg, and Campbell.

Sharpsburg, and Campbell.

KYNS, Hot Springs, Ark. (374.8), 9-10-p. m., vergatilly concort, New Arlington hotel orderstra suid onsemble; 10-10-10-15. Southerners Majestic hotel dance on concort. New Arlington hotel orderstra suid onsemble; 10-10-10-15. Southerners Majestic hotel dance of the concording the c

WHAD, Milwaukee, Wit. (275), 11 a. m., planologue, Andy Hertel; the Housewife; 4 p. m., "With the Humorists," John R. Wolfe; Ars, Marle Wolss, plania; Linda Hering, saxophene; 6:10-7, Arthur Richter orsanists, 10:30-11:30, popular dance hits, Dexter's Wicconsin and Elser's Creole roof orchestras; 11:30-21:30 a. m., Edmond Fiche, organists.

WHAS, Louisville, Ky. (399.8), 1-2 p. m., concert, Burney Rupo orchéstra; 3-5:30, organ recliat, Mr., Myrile Fulks Zahn; 4-5, musicai solections; readings; 7-39-9, concert, Jako Soligman and his Kentucky Wight Owls.

rell and Gosden and the Humming Birds; 12-1, dance program, Drake and Blackstone dance orthestras. WLS, Chicago, III. (344.6), 12 m., Ford and Glenn; 6:30 p. m., 'Ralph Emerton, organist; 7, lullaby time, Ford and Glenn; 7:15, WLS studio trie, 7:43, Rode; 18-18, WLS thater; 9:15, concert quinter; 6:5, Ceans College Fillipno string ordestra; 11-2, WLS Circus, WLS Clova band. WLW, Clinicanti, Ohio (422.3), 7:30 m. m., healthful enercies, William Stradman, Y.M. C. A.; 8, murrates, which was a stradman, and the stradman of t

7.30.0 Forse Soulin, 4-9, musers solections; readings; 7.30.0 Forse Soulin, 4-9, musers solections; readings; 7.30.1 February 2018. The Market Souline State Souline State State State Souline State S Peggy, the attractive bettime story teller at WOE, Newark, is Marquerite Muller at WOE, Newark, is Marquerite Muller her stories because they are full of adventures. Robert E. Saxe, tenor, above, will sing during the 9:30 p. m. Pacific time program at KGO, Oakland. The Venetian trio, which makes its Radio debut January 6, at WLW, Cincinnati, includes the pretty young lady at the left, Anna MacDonald, Planist.

W180. Chicago III. (220) 2-4 n. s. suu-im program; Jack Sprint, and the Carl Subar consession. Ted Florito, plants; Victor Youne, Dan Research Ted Florito, plants; Victor Youne, Dan Research Ted Florito, Hayes, saxophoniar; Home Economics. Grace Yieli Gray; 6-8, Walter Person, popular American ballads; Dorothy Eas, suprano; Earl Raymond Birclow, plants; Dorothy Eas, suprano; Earl Raymond Birclow, plants; Dorothy Eastern Committee, Carlon, Car

concert, William Duning; 7, dinner hour concert, Hotel Gibson, Robert Visconti, director; 7,39, talk, ropresentative of Farm Radio concelt; 7,40, Hotel Gibson concert; 3:15, basketball, from gymnesium of Central Parkway X, M. C. A.-Y, M. C. A. Wildeats vs. Kenyon college; 10, the Venetian trio; 10:20, reading, Charles Medica; 10:30, inturnal of classics by Mu Phi Dadion scorrity, College of Music of Cincinnait; 11, Johanna Crosse; 11:40, planologs, Carl Bunberger; 12, crgan solutions, Johanna Grosse.

12, cryan softetions, Johanna Crosso.

WhAQ, Chiego, III. (447,5), 13:45 p. m., Radio farm school: 1, Chiesco Association of Commarco unchaor: 2, Shut-in program; 4, recipes, 0, B., Illier; 4:30, Cosmopolitan School of music: 6, Chicago theater crean recital; 6, 30, Geograms Paulimen; story lady; 8, lecture, Northwestern university; 8:30, musical program; 9, WMAQ players.

WMBB, Chicago, III. (250), 7-8 p. m., Trianen duo; M. Matthews, contratto; program and talk on fluance; Dell Lamps, Woodlawn; theat let orchesits, Armetrs, Dell Lamps, Woodlawn; theat let orchesits, Armetrs, Dell Lamps, Hongare, Caro, Billic Allen Hoff, Sootty Weiss and Madison Stiers, popular program.

popular program.

WOAW, Omaha, Neb. (526), 12:45 p. m., Phyllis Grisvyold, organist; 1:10, Alamite dairy service.

WOC, Davenport, Iswa (48.6), 12:13:12:35 p. m.,
Lussoms from Cow Test Associations, Prof. C. H.
Virginia Reven's colored entertainers, 0:10, EvoluSwindell, organist; 10:11/ musical program, Virginia
Raven's Colored entertainers, 0:10, EvoluSwindell, organist; 10:11/ musical program, Virginia
Raven's Colored entertainers.

Swindell, organist; 10-11; musleal program, Vizinia Braven's colored enterialnost.

WOL. Ames, Iowa (270), 12 m., "The Paramen' Hired Swinders and Control of the Control o

and cancert program; latk; 8-10, choral sincers; C. H.
Gallery." Bitth pyramid isotores; Tho Grand
Gallery." Wol., Chiengo, III. (447.5); .11-12 m., home economics
program, Holen Harrington Downing; Fish dinner
unens. for Fridge, Frank Wendt; "Child Welfare".
Lona E. Sadler; 3-4 p. m., 'Moor Expulsar PudLona E. Sadler; 3-4 p. m., 'Moor Expulsar
Lona E. Sadler; Sadler

Mountain Time Stations

Mountain Time Stations
CFAC, Calagary, Canada (435.3), 3-9 p. m., studio procFAC, in the control of the contr

Pacific Time Stations

Facinc Ime Stations

KFI, tos Angeles, Calif. (407), 5:30 p. m., Los Angeles
Examiner matines program; 6:30, Vest. Pocket concert;
7. Nick Harris detective stories; 7:20, waterd pragram, Frank Barry, tenor; William MacDongall, Scotch
comedian; Stark Sisters, harmony duetties; 8, program, Ventura Refung company; 9, program, L. A.
Chestra, 10, Buty Patchés and Patrick-Liersh orchestra; 10, Buty Patrick and Patrick-Liersh or-

comedian: Stark Sisters, harmony duetitist; 8, program, Venitian Berhing company, 9, program, L. A. KPOA, Seattle, Wash, (435.3), 6:45-35, program, S. A. KPOA, Seattle, Wash, (435.3), 6:45-35-15 p. m., Shorman, Clay and company, studio program; 5:30-10, TROM, London General, 1224.0, 6:63 p. m., orange and rectal, Brayton's theater; 8-9, Press-Telegram program arranged by L. D. Frey. 6-60 p. m., children's gram arranged by L. D. Frey. 6-60 p. m., children's program arranged by L. D. Frey. 6-60 p. m., children's program, check-heal Coffee company, Maswoll Muscoff Coffee string quartet; Charles Beachamp, teher; 9, 10 program, Check-heal Coffee company, Maswoll Muscoff Coffee thing quartet; Charles Beachamp, teher; 9, 10 program, Western Pacific Securities company, Hook direction Charles Wellman, 11-12, Bullywood Recf ballroom orchestra. (36:9), 11:30-1, m., kindeen, Commingham, sopramo; 4-5:30, concert orchestra, Hotel Commingham, sopramo; 4-5:30, fils a. m., phyrical Lindanty band; 10-11, concert.

KHJ, Lee Angeles, Califf, (46:5), 11:5 a. m., phyrical Lindanty band; 10-11, concert.

KHJ, Lee Angeles, Califf, (46:5), 6-3:50 p. m., Leighton's Arcade confectors: Plexy, Wigney Girls of the Commingham, Mickey Welfam, seven lyvenines; Plexy, Wigney Girls Girls, Venitor Commingham, Mickey Welfam, Seven lyvenines; Plexy, Wigney Girls Girls, Venitor Charles, Venitor Commingham, Mickey Welfam, Seven lyvenines; Plexy, Wigney Girls Girls, Venitor Charles, Venitor C

Thursday, January 7

Headliners Today Eastern Contral Mountain Pacific 8 p. m. 7 p. m. 6 p. m. 5 p. m. 7 p. m. 6 p. m. 5 p. m. 7 p. m. 6 p. m. 7 p. \text{VFLAS - (399.8)} Sylvan trio. \(\text{NN} \) (326.0) \(\text{Iya} \) Erosson, concert cellist. \(\text{Iya} \) (326.0) \(\text{Iya} \) Erosson, concert cellist. \(\text{Iya} \) (326.2) \(\text{Iya} \) (326.2)

Traile Outlook for Canada, 1926, "A. O. Dawsen, WAHG, Richmeid Hill, N. Y. (315.6), 12-1230 p. m., Grobo matines trib.

Grobo matines trib.

Grobo matines trib.

Md. (246), 6.15-6.45 p. m., dildered programs from and Fairy Lene, Ednack Knox, soprano; 6:45-7:45; WBAL dinner orchestra, Robert Inla, conductor; 3-10, Indiam for tributer or tributer.

Tuturer.

Tuturer.

Hall, Tulliam tributer orchestra, Robert Inla, contacter; 3-10, Alica Merch, contrallo; Herry Rosenherter, barttene.

WBBR, New York, N. Y. (27.6), 8 p. m. Hawatian quartet; 8:10, Alica Merthl, suprana; 8:20, Sunday, society of the supranal state of the supranal state

Bulck company, Charles B. Hetor's St, James theater orchestra:

WGAE, Pittsburgh, Pa. (461.3), 3 p. m., program Losev's Aldme theater; 4.30, Surstiller Girl; 6.33, diffrance concert, William Prein, bulch; 7.30, children's programmer, Constitution of the Constitution

selecter viding. by Prof. Dolltile: 10, Sesqui Hour;
Parodians daues orchestre; 11:30, Chio Cadix

Berrat, Mich. (516.9), 0 p. m., dinner concert,
K. Cedillea hotel. 8, studio program. 7F. New York. N. (491.5), 6:5-2 m. m.,
Wer Health Exercise 13:5, Olariar extension talk;
Wer Health Exercise 13:5, Olariar extension talk;
John St. Concerns of the Control of the Concerns of the

orchestra; 8:30-9, "Footiight and Lamplight," Olives Sayder; 9:10, Near East roprgam with St. Mark's singers and mile octet; 10:30-11:30, Warderbitt, here! McGP, New Yerk, N. Y. (252), 3-3:15 p. m., Pilvias Rosa Geizer, concert planist; 3:10-3:15, Mirror recervation and latest new times; 3:16-3:30, Mirland Rosa Geizer, concert planist; 3:10-3:15, Mirror recervation and latest new times; 3:16-3:30, Mirland Rosa Geizer, concert planist; 3:50-4:105, Harold Gleen, whister; 4:50-4:20, Sampa Fain and Artin Dunn; 4:20-4:30, Bert Distrant, somes; 4:50-4:05, Harold Gleen, whister; 4:50-4:20, Sampa Fain and Artin Dunn; 4:20-4:30, Bert Distrant, somes; 4:50-4:05, Harold Gleen, planisteger; 5:45-5, Bert Dixon, barilone; 9-0-30, Sirickland's orchesters; 5:30-4:45, Fore Robenberg, 7:45, Fo

AN EVENING AT HOME WITH THE LISTENER IN IN EASTERN TIME

		2 (1)	Town 1 de	1,14	7 17 7		5 5 d s	10 1 10	11.2
Call	Loration	Met.	Saturday	Sunday	Menday	Tuesday	Wednesday	Thursday	Friday
T9 FCN	Fort Bragg, N. C Calgary, Alta	435 434.5	Silent 12:00- 2:00	5:00 7:00 Silent	Silent	Silent Silent	Silent	8:00-9:55 10:00-11:00	Silent
KAC		516.9	11:00 - 1:00 7:30-11:00	9:80-10:80 Silent	9:80-11:30 Silent	9:30-10:00 7:30-11:00	8:00-16:00 Silent	11:00- 1:00 7:30-11:00	10:00- 1:00 Silent
KNC	Toronto, Ont	356.9 384.4	8:00-12:00 9:00-12:00	Silent 8:00-11:00	8:00-11:00 9:00- 1:00	Silent Silent	Silent 8:30-12:00	Silent 9:30-12:00	Silent Silent
KY NRO	Ottawa, Ont	434.5	8:30 - 1:30	Silent	Silent	Silent 10:24-11:54	8:30-1:30	Silent	Silent
YL :	Mexico City, Mex Pittsburgh, Pa	480 309.1	Silent 6:15- 9:55	10:24-11:54 4:008:45	6:15- 9:55	6:15-12:30	Silent 6:15- 9:55	6:15-12:30	10:24-11:54 6:15- 9:55
FAB.	Lincoln, Near	340.7 315.6	6:30-10:30 Silent	5:00-6:00 9:00-10:00	6:38-11:30 Silent	6:30-11:30 9:00-11:30	6:30-11:30 Sileni	Silent	6:30-11:30 9:00-11:30
(F)	Les Angeles, Callf.	467	9:00: 6:00 Silent	7:00- 2:00	9:00-2:00 10:00-12:00	9:00- 2:00 Silent	9:00-2:00 10:00-12:00	9:00- 2:00	9:00- 2:00
FKX FMQ	Hastings, Nebr Fayetteville, Ark	268.3 299.8	Silent	Silent	Silent	8:30- 9:30	9:00-10:00	Silent	10:00-12:00 Silent
FMX	Northfield, Minn Shenandoah, Ia	937 256	Silent 8:00-9:00	8:00- 9:00 7:30-10:00	Silent 8:00-9:00	10:30-11:00 8:00- 9:00	8:00- 9:00	Silent 8:00-9:00	11:00-12:00 8:00- 9:30
FUA	Senttle, Wash	454.8 545.1	11:30 - 2:30 Silent	Stlent . 9:15-10:15	9:45- 1:00 9:00-10:00	0:45- 1:00 Silent	9:45- 1:00 10:15-11:15	Silent	9:45- 2:30 Silent
FVE	St. Louis, Mo Univ'ty City, Mo.		10:15-11:15	Silent	10:15-11:15	10:15-11:15	10:15-11:15	Silent	10:15-11:15
FWB	Hollywood, Calif Oakland, Calif	252 361.2	10:45- 8:00 11:00- 8:00 0:00- 8:00	6:30-11:30	9:00- 1:00	10:00- 3:00 9:00- 2:00	10:00- 3:00 9:00-10:00	10:00- 1:00	9:00-11:00
(HJ	Pertiand, Ore	491.5	0:00- 3:00 9:00- 2:00	10:25- 1:00 9:30- 1:00	9:00-12:00 Silent	9:00 - 3:00 9:30 - 2:00	9:00- 2:00 9:00- 2:00	9:00-11:00	12:00- 1:80 9:30- 3:00
CIAF	Los Angeles, Calif. Sintipok, Minn Seattle, Wash	421	Silent 11:30 1:00	2.00 4.00	8:00-9:00	Silent 11:30- 1:00	8:00- 9:00	Silent 11:30- 3:00	8 -00- Q -00
LDS	Seattle, Wash Independence, Mo.	440.9	Silent	9:00-10:00	Silent	9:00-10:00	: Silent .	9:00-10:00	Silent
t.X	Oakland, Calif	5U8.2	9:15 5:00	Silent 5:00- 1:30	0:15- 3:00	Silent. 9:15-8:00	9:15- 2:00	Silent	9:15- 8:00
NX:	Hollywood, Calif Denver, Colo	322.4	9:15 - 5:00 11:00 - 1:00 Silent	5:00-10:45 Silent	8:30-11:00 9:30-10:30	3:30-10:30 Stlent	9:15 2:00 8:30 1:00	9:15- 2:00 8:80- 9:80	8:30-11:00
OIL	State College, N.M. Council Bluffs, Ia		7:15- 4:00	8:00- 1:00	7:30- 3:00	7:15- 1:00 9:15- 2:00	Silent 7:15- 8:15	7:30- 1:00	Silent 8:30- 1:00 9:30- 2:00
PO	San Francisco, Cal	428.3	9:35- 3:00 8:30- 1:00	8:00- 1:00 8:30-11:30	9:40 - 2:00 9:30-11:00	8:30-10:30	7:15- 8:15 9:15- 2:00 8:30- 1:00	9:15- 2:00 8:30- 1:00	Stlent
SD	Houston, Texas St. Louis, Mo Salt Lake City, Ut		7:45-11:00	7:15-10:15 11:00-1:00	7:55-12:00 10:00- 1:00	7:55-11:00 11:001:00	8:00-10:00 10:00- 1:00	7:85-11:00 10:00-1:00	8:30-10:00 11:00-1:00
TAB:	Caklend Callf	240	Silent	10:45- 2:00 10:15-12:80	11:00- 1:00 Slient	11:00-1:00 11:00-12:00	Silent		11:00- 1:00 Bilent
TEL	Les Angeles, Calif Scattle, Wash	1300.0	Silent	19-10- 9-10	10.00-11.00	11:00-12:00	Silent	Silent	10:00- 3:00
TH8	Hot Springs, Ark	374.8	9:30-10:30	10:00-12:30 Silent	Stlent	9:30-10:30	10:00-12:00 Silent	9:30-10:30	10:00-12:00 Silent
WKH		281	10:00- 1:60	Silent	11:00- 4:00	10:00- 1:00	Silent	9:00-10:00	Silent
WSC YW	Chicago, Ill	535.4	Silent 8:00-11:00		10:30-12:00 Silent	8:00-1:30	10:30-12:00 8:00- 2:30	Silent 8:00-1:30	10:30-12:00 8:00- 2:30
AA WX	Radio, Va	. 434.5	8:00-11:00 8:30-11:00	Silent .	7:45- 8:00 Silent	Silent	7:25- 8:40 8:30-11:00	7:45- 8:00 Stlent	7:45- 8:00 Stlent
VAH Q	Havana, Cuba Richmond, N. Y	315.6	12:00- 2:00 Silent	Silent	8:00- 2:00 6:45-10:00	Silent 7:30 - 3:30	7:30-12:00 Silent	Stlent 6:15-16:00	8:00-11:00 5:30- 6:00
YBAP	Fort Worth, Tex	475.9	8:30- 9:30	6:30-7:30 6:00-1:00 11:00-12:00	7:00- 1:00 10:00-11:00	7:00-11:45 Silent	7:00 - 1:00 9:00-10:00	7:00-11:45 8:309:30	7:00-11:45 Silent
VBAR VBBM			9:00- 2:00	9:00- 3:00	7:00- 8:00	9:00- 1:00	0:00- 3:00	9:00- 1:00	9:00-11:00
VBBR VBCN	Staten Island, N. Y		8:00-10:00 10:00- 2:00	9:00-10:15 6:00-1:00	8:00- 9:00 Silent	Silent 10:00- 2:00	Stlant	8:00 - 0:00 10:00 - 3:00	Bllent 10:00- 2:00
NBZ.	Chicago, Ill	333.1	Silent	8:00- 9:00	6:30,11:05 0:30-12:00	6:30-10:02 8:00-11:00	8:30-10:00	6:30-10:00 9:00-11:00	8:30-11:00 8:00-0:30
VCAE VCAP	Springfield, Mass. Pittsburgh, Pa Washington, D. C	468.5	8:30- 9:30 Silent	4:00-10:15	6:00-11:00	S(lent	7:00-11:00 6:45-12:00	Silent : 6:30-11:00	7:00-12:00
V CAU	Philadelphia, Fa	278	Silent	5:20-10:00 9:00-11:30	Silent	9:00-11:30	Silent	9:00-11:30	Silent
VCCO	Minn-St. P., Minn	416.4	7:15-12:05 6:00- 7:00	5:10: 9:15 Silent	7:30-11:00 6:00- 9:00	7:15-10:30 6:00-11:00	8:00- 1:80 6:00- 9:00	8:00-12:05 0:00- 9:00	7:15-12:05 6:00-11:00
VCX VDAF	Kansas City, Me	365.6	7:00- 2:00	5:00-: 5:45	7:00 - 2:00	7:00 - 2:00 8:80 - 9:30	7.00 0.00	7:00- 2:00	7:00 - 2:00
PEAF	Providence, R. I	440.9	Silent 6:00-12:00	Silent 2:00-10:15	Silent 6:00-12:00	6:00-12:00	6:00-12:00	81lent 6:00-12:00	Silent 6:00-12:00
VEAD	Columbus, Ohlo	293.9 389.4	7:00- 1:00 8:00- 1:30	Silent 7:00-10:15		Silent 7:00-10:00	8:00- 8:00 7:00- 8:00	8:00-9:00 7:00-11:00	Silent 7:00-11:0
VEBJ	Chlenge, Ill	370.2	8:00 1:30 Slient	0:00-10:00 Silent	Silent	8:00- 1:00 8:00- 9:00	3:00-1:00 8:00-10:00	8:00- 1:30 Silent	8:00 - 1:00 7:00 - 9:00
MEEL	Boston, Mass	348.8	Silent .	7:20-10:20	8:30-10:00	8:00-11:00	8:00-10:00	00:11-00:8	8:30-11:0
VENR VFAA	Chicago, III	266	7:00 - 3:00 9:30 - 1:00	7:30-12:30	7:30-10:30	7:00-11:00	7:00 - 3:00 Stlent	7:30 1:00	7:00- 3:0 7:30-10:30
WFBH	New York, N. Y	272.6	11:30- 2:00	7:80- 8:80	11:30- 2:00 Stient	8:00-12:00	Silent	8:00-11:00	11:30- 2:00
WGB8		315.6		8:00+ 9:00	7:00- 7:15		6:00- 8:30		Silent 0:30-\1:0
WECP	New York, N. 1	278	Silent	8:00-11:15	8:00-11:00	Silent	8:00-11:15	Silent	8:00-11:0
VGES VGHB	Oak Park, III Clearwater, Fla	250	11:30 - 8:00 6:00 - 1:00	Silent	Silent 6:00-1:00 7:00-9:00	11:30- 8:00 6:00- 1:00	11:30 - 3:00 6:00 - 1:00	6:00-1:00	11:80- 3:00 6:00- 1:00
WEN	Detroit Mich	. 270	Silent 7:30-12:00	Silent 3:00-10:15	Silent	1,7:30-12:00	7:30-12:00	7:30-12:00	7:30-11:0
WGR	Buffalo, N. Y	319	Silent	7:45-10:15 6:30-10:00	9 20 1 00	8:00-11:00 7:00-11:00	8:00-1:00 Silent	8:00-11:00 6:45-11:30	8:45- 1:0 7:15-10:30
AHW	Chicago, III	535.4	Silent	Silent	8:30-10:00	Silent	8:30-10:00	Silent	8:30-10:00
WHAT	Atlantic City, N. J	. 2/3	Silent 7:30-10:30	4:15- 5:15 7:50- 1:15 5:00- 8:00	9:00-11:00	7:30- 1:10	11:30- 1:00 Silent	7:30-11:00	9:30-11:0 7:80-1:1
WHAS	Louisville, Ky	399.8	8:30-10:00 Silent	Silent	0.00-19-00	8:80-10:30 Silent	8:30-10:00 Silent	8:80-10:00 Stlent	8:30-10:0
WHB	Kansas City, Mo Naw Yerk, N. Y	365.6		9:00 - 2:00 5:00 - 5:30	8:00-9:00	Silent	8:00- 9:00	9:00-11:30	8:00- 0:0
W H M	Das Moines, 18	. 526	Silent	8:30-9:30	8:30-1:00	8:30 - 1:00	7 80- 1:00	8:30- 1:00	8:30- 1:0
WHT WIBO	Chicago, III Chicago, III Philadelphia, Pa.	899.8 226	7:00-9:0	7:00-1:00	Bilent	8:00 - 2:00 7:00 - 4:00	7:00- 4:00	7:00- 4:00	7:00- 3:0
WIP WIAR	Providence R I	305.9	8:00-12:0	7:30 10:10	Silent	8:00~ 1:00 7:30-10:00		8:00-1:00 8:00-11:00	Silent 8:00-12:0
WJAS	Pittshurgh, Pa	. 275.3 522.4	7:00-12:00	SHont	7:00-12:00 Stlent		7:00-12:00 Silent	7:00-12:00	7:00-12:0 Silent
WIAZ	Meeseheart, III Pontiac, Mich		7:00-1:00	9:45-11:00	Silent	7:00-2:00	7:00 - 2:00	11:00 - 1:00 7:00 - 2:00 7:00 - 12:00	7:00- 2:0
WIR	New York, N. Y	405.2	Silent	8:15: 9:15	Silent	8:30-11:1	Silont	8:80-10:00	8:45- 9:4
WJZ WKAG	New York, N. Y I San Juan, P. R	454.3	7:00-11:3	Silent	8:15- 9:15	Silent	7:09-9:00	7:30-9:00	8:00-9:0
WKAI WKRO	Rilansing, Mich	285,	12:30- 2:0	7:45-12:00	7:00-8:00	Silent 11:00- 1:00 8:00- 2:00	8:00- 9:15 9:00-11:40	9 00-11 00	7:00-8:0
WLIB	Chicago, Ill	302.8	8:00-1:0		Silent	8:00- 2:00	8:00 - 2:00 7:30-11:00	11 8-00- 2:00	8:00-2:0
WLIT WLS	Philadelphia, Pa. Chicago, Ill	344 8	1 8 45- 2 B	7:80 - 8:5		8:00-9:0	8:00-12:30	8:00-9:55 8:00-1:00	7:30-11:0 8:00-12:3
WLW WLW	Cincinnati, O New York, N. Y	422.5	8:00-10:0 Silent	7:00 8:0	8:00-10:0	0 8:00- 9:00	Silent	8:00-10:00	Silont
WMA	K Lockport, N. Y	265.	7:30-10:0	7:30 8:30 Stlent	8:00-10:0	9:00-11:1:	7:30-10:00 9:00-10:45	8:00-12:00	9:00-10:0
	Chiengo, III	447.	1 8 00 11:3	8:00-11:3	3 - Silent	8:00-11:3	8:00-11:30	8:00-11:30	8:00-11:3
WMB WMC	Momphis, Tenn	400	8:30-10:3	Silent	9-20-70-20	8:30-1:0	Silent	8:30-10:80	8:30-1:0
WHE				0 3:00 9:3	9:00-12:0	0 8:00-10:0	3:00-10:00	8:00-10:00	3:00-10:0
WNYO	New York, N. Y	526	7:00-10:3 Silent	9:00-11:0 8:45- 9:4	0 7:35-10:3 5 Silent	9:30-10:3	0 9:30-10:31	7:35-10:35 Silent	7:30-10:3 9:30-10:3
WOAL	4 awconcob g. lon	n. 1282.		10:00-11:0 0 10:00-11:0	0 10:00-11:0	0 10:00-11:0	0 10:00-11:00	7:00-11:00 7:00-11:00	10:00-11:0
WOA	Trenton, N. J	526	Silent	9:30-11:3	0 Stlent	Silent	Silent	Silent	Silent
WOC	Davenpert, la	488.			6 7:00- 2:0	7:30-12:1	7:30-11:00 0 11:00- 2:0		7:30-10:4
WOO	Philadelphia, Pa	508.	2 Silent	7:30-8:3	n 6:00-7:0	0 7:30 8:3	0 7:80-12:0	0 7:80-8:30	7:80-12:0
WOR WOR	Newark, N. J	- 405.	2 6:15-8:3	0 Silent	6:15- 9:3	9:00-10:0 0 6:15- 7:3	0 6:15-10:0	8:00-10:00 6:15- 7:30	6:16-7:3
WOR WOR	Jefferson City, M	0. 440:	9 Silent	9:00-10:0	0 9:00-11:0	9:30-11:0 Silent	9:00-11:0	0 Silent	9:00-11:0
WPQ WQJ	Atlantic City, N.	J 298.	8 7:00-12:0	0 4:15-12:0	0 7:00-12:0		0 Silent	7:00-12:00	7:00-12:0 8:00-3:0
WRC	Chicago, Ill	3, 468.	5 7:00-11:3	0 Stlent	Silent	7:00-11:0	0 Silent	7:00-11:00	Stient
WRE	D Lansing, Mich Tarrytown, N. Y.	273	9:00-11:8	0 8:00-11:3			0 9:00-11:8		9:00-11:3
WSAI		325.		5 8:45-11:1 6 8:30-10:1		0 7 80-11 3		0 8:00-11:00 0 9:00- 1:00	Silent
WSB	Nashville, Толп	282.	8:15-12:0	0 8:80-9:3	0 8:00-12:0	0 Silent	8:00-12:0	O Silent	Silent
	B New Orleans, La.	483.	9:30-11:5 Silent	10:15-10:4	9:30-13:3 5 8:30-10:0	0 Silent	9:80-11:3 Silent	Silent	Silent
WSW	10WE CITY, IE								
WSUI	Worcester, Mass M Cleveland, O	320	6.00-19.0	7:00-9:1	6:00-12:0	6:00- 7:0	0 6:00-12:0	0 6:00-7:0	

Providence, R. I. (305.9), 1.05 p. m., Joe mara and his Twin Elm orchestra; 8, Robert W. s Hudson-Essex orchestra; 9, Cliquet Club

Providence, R. I. (309-3), 190-30, m., soc mars and his Twin Elm orricestra; S. Robert W. F's Hudsen-Basser ordestra; 9, Cliquet Club constitution of the Constitution of the Constitution Fortier of the Constitution of the Constitution of the mitty; B. Jean Colideate's Nerondors; solution, Jean Colideate's Victor Recording orchestra, strone ballroom

18 M. Metsger, Buttst; Radialor quartet; vocat Richmend, Va. (256), S.15 p. m., program, club of Wilmington, N. C; orchestra; S.30, s; 8:465, quartet; 9, speaker; 0:10, 'dolinist; plane solog; 9:30, ensemble singing; 9:40, or-n, quartet; 10, orchestra, features; 11, Carry Me to, Old Virginon.

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www. Defreif. Nich. (332.7). (1930. n. m., "Totalit's Denner, situate of the control of the cont

KYW: 10:30-11:10, Conn-sanons Original visions of the constraints of the constraint of the constraint of the constraint of the constraints of the

Brewn, soprancy Mrs. Crow, contrallo; G. R. Snarrow, tenor Mrs. L. J. Hire, plants; Rierbert Hendriks, WGGO. Minneapulle St. Peul, Minn, (416-4); 12 m. cencerat, Donaldson's orbestria; 2, p. m., arong the muscleins, R. A. Ballows; 2:30, afternoon concert; 4 roader's cith. Eleanor Peeliner, 50:00 ehilitorus (vol. 1978); 10:00, hard of the Mrs. Concert, 1978; 10:00, hard concert, 1978; 10:00, travel talk, national director travel bureaus; 10:30, dance pourtan, Octoff theasts orderists, WEAF; 10:00, travel talk, national director travel bureaus; 10:30, dance pourtan, Octoff theasts orderists, Weaf, 10:30, dance pourtan, Octoff theasts orderists, Weaf, 10:30, dance pourtan, Octoff theasts orderists, Weaf, 10:30, dance for the state of the s

KGO PLAYERS GO IN FOR TRAGEDY

Thursday, January 7

WGN. Chicago, 'III. (302.8), 7-7:30 n. m., setting-un-ctor-less; 11:11:39, household binas; 11:30-12 m., fasibinus; 12:40-2:30, honohem concert, Drake concert chescuble, Huckstono string unitet; 2:30, Joyan and Flaid ten room or-desira; 4:30-5, organ recital, Rd-ward Benedict; 5:30-5:57, Skeezt time; 3:30-7, dinner concert, Drake concert ensemble and Blackstone string unitet; 3:30 Circuns; 10:40-40, organ recital, Rd-ward Benedict; 5:30-5:57, Skeezt time; 3:30-7, dinner concert, Drake concert ensemble and Blackstone string unitet; 3:40-40, organ recital, Rd-ward Benedict; 5:30-5:57, Skeezt time; 3:30-7, dinner concert, Drake Chapter, and Blackstone hatel methants. WGST, Atlanta, Ga. (270), -7-8 p. m., Walter C. Herbert, barlance; "Preparation for College Wars," Blagh WAD, Milwaukee, Wis. (275, 11 e. m., planologue, Andry Mortel; 4 p. m., Mrs. Perne Molloy Hansen, vocalist; 12, WGST, Atlanta, Ga. (270), -7-8 p. m., planologue, Mrs. WGST, Atlanta, Ga. (270), -7-8 p. m., planologue; MGST, WGST, W

wido. Des Meines, lewa (329), 7.39-8 n. m., Raleish quintet; 8-9, Bankers Life trio, Behen Birmingham, director; 11-12. Bankers Life ittle Birmingham, director; 11-12. Bankers Life ittle Birmingham, director; 11-12. Bankers Life ittle Birmingham, with the second Luck Cirl, studio features; 11 specialists From studio; 12 p. m., Al Carnoy's contillmentary organ hour; 1-2, special studios and the second continuous con

Coleman's Arcadiania, chance programs; 11-16-12-20, Albert Nitz, tenor. Ethel Breins, soprana.

W.118, Chicago, Ill. (202.3), 7-8 p. m., dinast concert; 11-121 protects by Free Manna and the Marcey of chance of the Manna and Blackstone hold dance or feet street of the Manna and Blackstone hold dance or feet street of the Manna and Blackstone hold dance of the Manna and Marcey of the Ma

uusis; 9 Silverion Cord otenesus, ouerpu announditedor.
WSE, Atlanta, Ga. (428.3), 8 p. m., Dr. Charlos A.
Shieldon, Jr., organist; 10:45, Numally militature symphony orchestra.
WSUI, lowa Gily, lowa (483.6), 12:36 m. organ recital Abra. Presion G. Coast, popular physics address.

Mountain Time Stations
GFAG, Galgary, Ganada (435.8), 7 p. m., bedtimo stars:
9-11, Canadan National Rallway's program, Gladrs
Webb Foster, director: Mrs. A. Wadden, soprano,
ONRO, Galgary, Ganada (435.8), 7 p. m., bedtime story;

KFI, Los Angeles, Calif. (467), 5:30 p. ns., Los Angeles Examinor matines program; 6:30, Vest. Pocket con-cert; 7, U. of Southern Californic program; 8, Packard Six orchestra, Bill Hennessy and Chet Mittendorf, directors; Dick Barton, 300ist; 9, 80uibern California music company program; 10, L. A. Examiner pro-cram

Long Beach, Calif. (232.4), 0-6:30 p. m. recttal, Brayton's theater, 7:30-9, Long Beach

KFON, Long Beach, Calif. (282.4), 6-6:30 p. morgan rectial. Bragtor's theater; 7:30-9. Long Beach Attenticipal band.

Control of the Control

Aunt Mary; 9, CNRW orchestre; Mabel V. Wadden,
KFWA Coden, Utah (261), 4-5 n. m., organ reclisal,
Paramount theater; 5-6, Ogden Radio dealers program
KFKF, Colerade Sprines, Cole. (250), 9-19-39; libermary Gardens dance program; 19-30, mathee for houseWAA Deaver, Cole. (250), 19-19-39; libermary Gardens dance program; 19-30, mathee for housewives; 4, cultinary bints; 415, frashion review; 0-30,
dinnor concert, Brown Palace string orchestra, Howard
Thiloston, director.

Pacific Time Stations

Fig. 18-4, 19-4,

orchestra.

WBAL, Balltimore, Md. (246), 9-10 p. m., musical program, cloir, Har Simai Temple, Jewish music.

WBZ, Springheid, Mass. (333, 1), 6:39 p. m., Little Symphony orchestra, KDKA; 7:30. "Apprendiction of Music." Porl, John A. O'Shing: S, Betwin J. McKhelly and, his orchestra; S:30. Motel Vendome concert; 9, Whatdopoundail: ohio; 10:30, McEngley's Slinging or Whatdopoundail: ohio; 10:30, McEngley's Slinging or

and, his orchestra; \$3.30. Hole! Vendone cemert; \$9. Whatdoyouculli, club; 10.050, McEnelly \$8. Shiring or with Vendone Vendon

society 8:39, Gorman's Jolly Bakers; 9, Hehmer har-mony hour; 11, Providence Bilimbre dance ordication, 17B, Pontiao, Mith. (516.9), 7 p. m., Jean Gold-Kette's Tette symphony orchestra; soloists; 7:30-Arctie-Condon trio; 8, Summerfield and Hecht pre-

Wather N. Y. Teigram, Wather N. Teigram, Jacobs Bore, Sheltur coscuible, T.15-8, Jacquos Jacobs Bore, Sheltur coscuible, WRC, Washington, D. C. (468.5), 19 a. m., women's hour, WIZ, 12 m., organ recital, Otto Beck; 1 p. n., Mayer Davis New Willard hutel oreleasts; 3-30, concert, U. S. Marlie bund, William H. Santolmann, leader; S. Hotel Lafayette trio. Page 1, and dinner cuncert, Substantia, Mich. (285.5), 6-7 p. m., dinner cuncert, Speed-Wagon serenders; Gold Standard engenths.

W8EO, Lansing, Mish. (285.5), 6-7 p. m., dinner guncert, Speec-Wagon secunders; Oold Skindard ensemble.

W7AG, Worester, Mass. (268), 10:30 s. m., musical

M7AG, Worester, Mass. (268), 10:30 s. m., musical

M7AG, Worester Mass. (268), 10:30 s. m., musical

M7AG, Worester Mass. (268), 10:30 s. m., musical

M7AG, Worester Mass. (268), 10:30 s. m., musical

M7AG, Warder County, M7AG ordenstra; 3-5, 6az danasari

M7AG, M7AG; 7:45, methodales of sincerch, Mota B.

W7AG, WAGS, 7:45, methodales of sincerch, Mota B.

W7AG, M7AG; 7:45, methodales of sincerch, M6AG, M7AG,

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wwi. Detroit. Mich. (352.7). 7.30-8 a. m., setting-un-excreles, R. J. Horior, 9:29. "Contight's Diame": Station revenue; R. J. Horior, 9:29. "Contight's Diame": Station revenue; R. J. Horior, 9:29. "Contight's Diame": Station revenue; S. News, orchestra and solotist; 9, dance program.

Central Time Stations

KFMQ. Fayettevillo, Ark. (229.8), 7:30 p. m., busilestically continue, and the program of the program

STATIONS IN ORDER OF WAVE LENGTHS USED

ı	Meters Call					
ı	217.3 WOK		305.9 WJAR		406 WBAR	468.5 WRC
ł	226 WBBM		309.1 KDKA	361.2 WHN	410.7 CKAC	475.9 WBAP
ı	226 WIBO		315.6 KFDM	365.6 WDAF	416.4 WCCO	475.9 W.TIC
ı	240 KFVE	278 KOIL		365.6 WHB	421 KIAF	475.9 WFAA
ı	240 KTAB	278 WCAU	315.6 WGBS	370.2 WEBH	422.3 WLW	480 CYL
٠	240 WOAX	278 WGBU	319 WGR	370.2 WJJD	422.3 WKRC	483.6 WOC
ı	246 WBAL	278 WOQ	319 WSMB	374.8 KTHS	428.3 WSB	483.6 WSUI
ı	250 WGES	280.2 WNAC	322.4 KOA	379.5 WGY	428.3 KPO	491.5 KGW
ı	250 WMBB	282.8 WOAN	322.4 WJAZ		434.5 CNRO	491.5 WEAR
	252 KFWB	282.8 WSM	325.9 WSAI	384.4 CKY	434.5 NAA	499.7 WMC
Į	252 WGCP	285.5 WKAR	333.1 WBZ	384.4 KJR	434.5 CFCN	508.2 KLX
ľ	265.6 WMAK	285.5 WREO	336.9 KNX	384.4 WMBF	435 AT9	508.2 WIP
L	266 KFNF	288.3 KFKX	337 KFMX		440.9 KLDS	508.2 WOO
l	266 WBCN	288.3 WLWL	340.7 KFAB	389.4 WTAM	440.9 WDWF	516.9 CJCA
ı	266 WGHB	293.9 KTBI	340.7 WKAQ		440.9 WOS	.516.9 WCX
ı	268 WTAG	293.9 WEAO	340.7 WMCA	394.5 WLIT	447.5 WMAQ	516.9 WJR
H	270 WGHP	296.9 KPRC	344.6 WCBD	394.5 WOAL	447.5 WQJ	526 WHO
ı	272,6 WBBR	299.8 KFMQ	344.6 WLS	399.8 WHAS	454.3 KFOA	526 WNYC
k	273 KWKH	299.8 KSL	348.6 KOB	399.8 WHT	454.3 WJZ	526 WOAW
Н	.272.6 WEBJ	299.8 WPG	348.6 KWSC	400 PWX	455 KTW	535.4 KYW
ı	272.6 WFBH	302.8 WGN	348.6 WEEI	405.2 KHJ	461.3 WCAE	535.4 WHA
IJ	273 WRW	302.8 WLIB	352.7 WWJ	405,2 WJY	467 KFI	545.1 KFUO
П	275 WHAD	305.9 KTCL	356.9 CKNC	1405.2 WOR	168.5 WCAP	545.1 KSD

273 - WRW | 302.8 WILB | 302.7 WWJ | 405.2 WJY | 467 KFI | 545.1 KFU | 545.1 KFU | 545.2 WJK | 545.2 W

Headliners Today

Eastern Corbrid Mentalis Partie

638 9. m. 5.30 n. 4.30 n. 3.30 p.m.

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Friday, slient right for: OFAC, CHIC, CKNC, CKY, CHIC, CARC, CHRM, CNRO, CNRR, CNRW, KFEQ, KFMC, Gladys KFUO, KFWA, KKF, K&O, KLDS, KOS, KPRC, KUOM, PWX, WAFO, WBBR, WCAD, WGBO, KUOM, PWX, WAFO, WBBR, WCAD, WGBC, WGB, WGBY, WHAZ, WIF, WJAZ,

orchestra, Frank Joster, Lower and George Ackerly, cornelsts.

WHAR, Atlantic City, N. J. (275), 2 b. m., Seastde hotel triots, Seastde hotel quarter; 11:15, Strand hotel triots, Seastde hotel quarter; 11:15, Strand with the organic rectaint. Y. (361.2), 7:130 n. m. Harry Whites organic rectaint. Y. (361.2), 7:130 n. m. Harry Whites organic rectaint. Y. (361.2), 7:130 n. m. Harry Whites organic rectaints, Seast organic rectaints, Seast organic rectaints, Seast organic rectaints, 10:10-11.

Blichman and his enterations; 7:30-8, Meldod, club orchestra; 8:30-9, Pitrolity; club orchestra; 10:20-11.

Raseland dance orchustra; 11:11:130, Charrynn ofrecestra; 11:30-12.

Bornologie orchestra; 3: artist rectaint, Frank Ostebay, studio; 3:30, "Luciest Excavations in Mesupotantia—Ur, Kish and Kitziuk," Dr. Chartes Chieru; 6:10, Bourlaumin Franklin concept orchestra; 7: Julich Wily's WJAR, Providence, R. I. (365.9), 10 a. m., Mrs. Wood of the Housewires Radio cuchange; 1:05, Woodstock orgentations; 7:30, children's stories; 7:45, musloci program; 8:20, speaker, auspices of R. I. Modical

Radio Digest

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241

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Vol. XV

Saturday, January 2, 1926

We Resolve

IT IS the beginning of a new year. We ponder over our misdeeds and mistakes of 1925 and wonder what we can do to improve ourselves for the untarnished span of twelve months about to begin. Let us think. Ah, we have it!

We shall be more careful to write applause to statice that the corresponding the place of the place.

ushink. Ah, we have it!

We shall be more careful to write applause to stations when their programs have been especially pleasing. Last year, we know, we were a little unresponsive. Pure carelessness on our part. But we shall endeavor to do better. In fact, we shall place a stack of penny postcards right in the drawer of our console-cabinet. Then when a pleasing number has been rendered we shall listen for the name of the artist or organization having given it, and immediately scribble off a few lines complimenting the individual or group for whatever it was we liked. Even a scribble is better than nothing.

And another one! We thought we were fairly good members of the invisible audience, but upon reviewing ourselves, perhaps there are a few deficiencies. We haven't sent a telegram to a station or its artists for better than six months. And that is the best form of applause we can give them, waiting there in the sound-proof studios. We shall remember that when our fancy is particularly pleased, to dash off a telegram to the pleasing parties.

And we hereby resolve not to use the phrasc "Program coming in fine." That's rather trite nowadays, so we'll attempt to get a little more originality.

Of course, we never allow OUR set to radiate and cause trouble for our neighbors who are also enthusiastic listeners, but then we'll be a little more careful during 1926. It may have been that a few times during the past year we have allowed our set to oscillate a trifle too lustily. We shall stop this nuisance by beginning right at home. Maybe John Doe, across the street, will make the same resolution.

We'll, we'll! We aren't so criticism-proof ourselves. We were just about to begin discussing the terrible announcing and soprano evils, coupled with the disgraceful vinterstation interference and harmonic emission, but we guess we will do a little reforming ourselves first of all.

The Day of Real Radio Dawns

The Day of Real Radio Dawns

The day of real Radio entertainment dawns. This
statement may seem surprising to many of us who
have enjoyed broadcasting thoroughly for several
years or more, but let us explain. The character of
program talent is not up for discussion. The romance
of Radio may lie in searching for distant stations and
hearing announcers thousands of miles away give their
stations' call letters, but the primary and fundamental
reason for broadcasting's existence is in the entertainment and service it renders.

Does your receiver function so reliably that, you can
set your dials to previously, logged numbers, turn on

Does your receiver function so reliably that you can set your dials to previously, logged numbers, turn on the filament switch and hear the program you desire?

That is what we are coming to. Progressive set manufacturers are building their sets with that purpose in mind. Broadcasting stations are increasing their power and the department of commerce is doing all it can to clear the ether so that this goal may be reached.

Read over the account.

Read over the programs, pick the station whose an

Read over the programs, pick the station whose announced entertainment or service is what you want to hear, adjust the set and stay there. Of course you may want to shift around a bit and hear bits of several stations' programs. There may be a number of things you desire to hear. Then you can arrange your evening's tuning to suit your individual taste.

One stumbling block in the path of completing the picture is the lack of punctuality of broadcasting stations. If artists were made to appear at their scheduled times and sing their scheduled songs, the advance programs of the stations would be worth ten times their present value. However, we all know that there aren't ten statious in North America that hold rigidly to their previously announced schedules. There is lack of punctuality and lack of eare in adhering to their obligation to the public.

But regardless, 1925 has made advances. The romance of Radio is succumbing to the day of real Radio entertainment.

Radio entertainment.

RADIO INDI-GEST

The Raving (I'm sorry-I apologize)

Once upon a midnight dreary
As I wandered, weak and weary,
O'er the dials and the switches
of my super-heterodyne—
Suddenly there came a rapping As of someone gently tapping Gently tapping on a boiler in the bottom of a mine.

Then it gathered up impetus,
And I said, "I'll have to get thisIt may be Butte, or Colorado,
or far-off Singapore."
Then the rheostats I twisted,
While the aerial insisted It was bringing in a station that I had not had before.

While I listened so intently
To a sound that evidently
Was traveling through the ether
just to make the listeners sore,
I came to the conclusion
That the terrible confusion
Was gol darn hectic static—
only that and nothing more.

The Night Herd. While I listened so intently

Do It Some More

Do it some more

Dear Indi: Dumb Dick came over to our house last night to hear his first Radio concert. He clapped his hands quite vigorously after the first selection and went home peeved because they wouldn't play an encore for him.

EDDIE'S SON.

I think I heard him last night. But he has changed his manner of applause. When the music was at its best he would give a long shrill whistle and at times he sounded like he was spinning a clacker.

Ace High?

The following clipping was taken from a phamphlet issued by one of the Pacific coast stations, giving the names of the contestants in an auction bridge game on tho wire:

the wire:

"Miss Annie B. Shelhy of Portland, Oregon—
who stands high in bridge circles in Portland,
and who is widely known in the profession on
the Pacific coast."

Shades of '49 and thereabouts! And echoes of a number of shots that sang out through the night and over
the Mississippi river from old side-wheelers, following
somebody standing high in a game with an extra ace.
None of those thousand-and-one "Colonels" would have
wanted to be widely known as a professional, but, of
course, that was poker.

Listen to the Birdie

Dear Indi: Two chattering macaws, whose sense of propriety is not all that could be desired, have been responsible for the broadcasting by Station WRC of a picturesque flow of profanity on several occasions during the past year, along with the Latin-American concerts from the patho of the Pan-American Union building. Fortunately, however, for the listeners in the Junted States, the birds know but one language, Portuguese, and confine their swearing to their native tongue.

You know, Mike, Portuguese is a very beautiful language, and the powers of expression are unlimited. WRC may be vieing with KOA's series in conversational Spanish, and as the cuss words of, a foreign language are easiest to learn, they are starting at the absolute zero.

Keep Your Ear on 'Em

Keep Your Lar on Lin

Dear Indi: Maybe you noticed that some learned professor up at WSUI at Iowa City the other night remarked, "As I stand in front of this wonderful micrometer tonight....." What will they broadcast with will

W. K.

With such a close guard it will probably be with fear and trembling.

A Letter About Bees and Sees

A Letter About Bees and Sees

Dear Indy—Th dealer frum whicht i bot mi bee
baterys now sais comma they are short but that which i
wanted to no is why coodent he hav of just as leved
solde tew me th rite length when i tolde him th sise
of mi raydeo or which shood i do about cush him out
an evrythin i cood say tew him if henew his oats
which is a sayin i use meanin he has zero coupelin
arithmetik period anser in ur colum soas magie can no
thatya are a hog fer runin enythin whicht a hie clasriter like me send tew u fer nuthin soas u dont haf
tew think up nuthin that will be a wow.

KING.

George, Ehea, Third Trombone, et al, just see what we must fall back on when you don't come through with your weekly work-savers. Glad you had to read this. Serves you right. To King, we must answer that bee haterys may be lengthened by the use of a see batery or by putting them in front of a steam roller. Distorted, flat notes come from the set if the latter method is used.

Not a Mint Spy

Dear Sir: An article on the kinks page not long ago
described a "Pie Pan Antenna." What kind of pie
is that, custard or just plain raspberries? I. M. AIR.

CONTRACTOR CONTRACTOR PRO

News of the Week



Condensed BY DIELECTRIC

Some of the finest programs, so far as musical entertainment is concerned, comprise the dinner hour concerts. There is usually a variety of selections within the range of classic or semi-classic compositions. WWJ, Detroit, provided a pleasing program to be enjoyed at the time easterners were seated at their dinners, but it had a discordant note in it in the shape of jazzing a really exquisite number—Kamennoi-Ostrow, by Rubenstein. Is this the result of a paucity of ideas in jazz composers, or a deliberate attempt to attain the impossible: transform sublime melodies to mere syncopation?

Turning to WOAW, Omaha, the other evening, listeners were given a program of orchestral music chosen from the lighter repertoire, and rendered with good intonation, which left a very favorable impression. So far, I have found no reason to complain in the slightest degree of the announcing from this station; it follows the numbers without delay and lacks nothing in distinctness. Wish all were so.

In many of the programs arranged by Station WBBM, Chicago, there is much to applaud, both in text and presentation. Of especial interest was the playing of Miriam Hadley, violinist, whose work bore evidences of training and inherent musicianship. One of Miss Hadley's numbers was composed by that king of violinists, Fritz Kreisler, and not even lie could have criticized her interpretation. Encore.

When you come to reconsider the offerings of music by the masters, performed by leading artists, that are obtainable this winter as compared with any previous year in broadcasting, you must admit our good fortune. Station W1Z, New York, is the medium through which Radio audiences are permitted to listen to one of the best cultural features now on the air in the Lewissohn chamber music series. These artists need no apologies. Listeners are informed of the salient musical features of each composition and composer preceding each number, which is so interestingly and clearly given as to impress even the most casual listener. Classical music is thus securing new adherents.

There is still a lure to Florida for those who can never expect to go there and reap a fortune, and it is in the Radio programs broadcast by several stations that this exists. Station WJAX, located in Jackson-ville, presented one of Arthur Hammerstein's stars in a group of numbers that proved his wisdom in selecting singers. The playing of "Dixie Ditties" by the Gage orchestra was another number of merit.

One did not have to be from Ireland to appreciate a program broadcast from WGN, Chicago, recently when Quin Ryan, the popular announcer, took the Radio audience over the Emerald Isle on "Mother Machrees Magie Carpet." It was beyond doubt, the most interesting travelogue that we have heard on the air. Ryan's description of the quaint and picturesque spots was superb. During the speaking, a musical background was provided by an orchestra playing "Mother Machree." The tour was interspersed with vocal selections of old Irish melodies, and altogether provided one of the most delightful hours we have spent before the dials. We would like to have some more.

Not a Mint Spy

Dear Sir: An article on the kinks page not long ago described a "Ple Pan Antenna." What kind of ple is that, custard or just plain raspberries?

Trying to get through locals using this antenna we came to the conclusion that the pie was full of "jam."

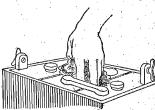
In its first public concert of the season, the United States Marine band carried pleasure to a much greater audience, however big that may have been, than sat in Washington to hear it. That concert was broadcast by Station WRC of the capital city. One never tires came to the conclusion that the pie was full of "jam."

Installation and Care of the Christmas Set

Part II—Loud Speakers and Accessory Connections

By John G. Ryan

A T THIS time there are two types of loud speakers: one being the familiar variety with a horn, and the other being a comparatively new type called the cone speaker. There is very little to choose between these two models, as the horn type has been developed to a high stage of perfection, while the cone type is still in the development stage. The cone type will probably be better than the horn eventually, but this season the purchaser finds little to choose between them. veen them. If a loud speaker did not accompany



as much volume on local stations, and a medium size speaker will do.

18 Battery Bliminator
11 may he that you would prefer to use the B battery eliminator Instead of B batteries of the usual kind, and you will find that there are about twenty makes on the market from which to choose. The point of most importance in connection with the purchase of a B battery eliminator is that it be able to furnish sufficient power for the set which you have. Unfortunately, there are far too many eliminators which cannot under any circumstances supply more than enough current for about three tubes. The manufacturers of these units do not tell you this in their advertising, and it is only when one has connected up such a unit, and finds that it will not work, and then calls in a Radio man, that the truth is learned. If possible, get your local dealer to demonstrate the B eliminator which he carries, on a set which contains the same number of tubes as your set, and have him tune in various statiens, so that you can be sure that the tone quality will be satisfactory.

Make Connections Bight

Figure 3—709 of storage battery should be cleaned occasionally with cloth dipped in ammonia water.

the receiving set given you for Christmas, the writer would suggest that in purchasing a loud speaker you do not try to go by price alone, as the speaker in the last article, all receivers, with the purchasing a loud speaker you do not try to go by price alone, as the speaker in the last article, all receivers, with the purchasing a loud speaker you do not try to go by price alone, as the speaker is a poor one the voice and music cannot come out with anything like true fidelity to the original rendition into the microphone. If you have a large receiver, such as the super-heterodyne, it would be most advisable to get a type of speaker with a large reproducing unit, so that it will be able to handle the unusually great volume of power which this type of receiver delivers. Smaller, sets, such as the three tube regenerative identified as A plus is connected to this

terminal; the other terminal is, of course, connected to the binding post on the receiver which is labeled A minus.

Presuming that you have two B battery units of 45 volts, which may be either dry cell or storage battery, the minus terminal on one of them is to be connected to the binding post on the set, B minus. The other terminal on this

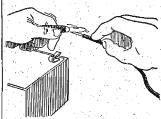


Figure 4—Battery and antenna con-nections are made by outting off insulation and soraping the wire bright.

bright.

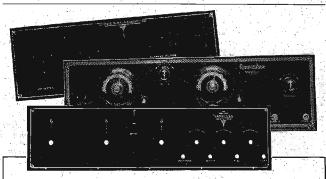
B battery unit, which is the plus, is to be connected to the minus forminal on the second, and is also to be connected to the receiver binding post B plus 45. The remaining terminal on the second B battery goes to the binding post B plus 90. It is probable that the receiver will have two more binding posts for a C battery, in which case the minus terminal of the battery goes to the binding post identified as C minus on the set, and the second terminal on the battery is to be connected to the C plus binding post.

Three Speaker Connections
There are three possible ways in which
the loud speaker can be connected to the
receiver. In the majority of cases there There are three possible ways in which the loud speaker can be connocted to the receiver. In the majority of cases there are one or two jacks in the front panel of the set, and the loud speaker cord must be provided with a small unit called a phone plug. You will notice that one of the two wires in the loud speaker cord has a tracer thread woven into the covering. The manufacturer of the loud speaker has marked one of the cords in this way as he knows it will be better that his speaker is so connected that the cord with the tracer thread connects to the battery instead of to the last tube.

Of course you have no way of telling which speaker terminal is to be connected to which side of the phone plug so that the manufacturer of your set has included this point in the instruction book. If there is no paragraph covering this point, it will be necessary to connect these speaker terminals and try it, and then try reversing them, to see whether the reproduction is better the other way.

A number of manufacturers have given up the jack idea on the front panel, and now provide two small lacks inside the speaker cord can be inserted. One of these is usually labeled so that you can tell which is to receive the terminal with the tracer thread. The third possible method is to provide hinding posts within the set and close to the binding posts of connection to the batteries, and here, also, the manufacturer has probably labeled the speaker binding posts, so that you will not go wrong when connecting this accessory.

(Continued on page 24)



VERI CHROMED Formica Panels for Famous Kits

FINELY decorated complete panels of Formica are being of-I fered through dealers to set builders who are putting together some of the better known kits.

There are now available panels for Bremer-Tully Counterphase, Nameless, and No. 1; two sizes of Best's Superheterodyne, 7x20 and 7x26; and the Four Tube Browning Drake receiver of the National Company.

The dealer who sells you your kit can supply one of these handsome Formica panels that will enable you to build a set as fine as any manufacturer's product. Or write us direct and we will tell you where you can get them.

> THE FORMICA INSULATION COMPANY 4667 Spring Grove Avenue, Cincinnati, Ohio





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ANN ARBOR, MICHIGAN

Double Strength, Better Quality, No. Fading, Some Results of 50 Kw. Tests

G. E. Engineer Tells of Reports on Power Tests Conducted by Broad-caster to Aid Department of Commerce in Furthering the Cause of Good Radio

By C. J. Young

Radio Engineer of General Electric Co. Radio Engineer of General Electric Co.

OW that several schedules of superpower broadcasting have been transmitted the following statement by the Radio engineers of the General Electric company, will be of considerable interest to those who are following this recent development. Careful conclusions are given based on the first tests which were carried out at the request of the United States department of commerce. The data on the more recent transmissions is not yet sufficiently digested to be included now.

How Letters Were Classified

How Letters Were Classified

Fifteen hundred letters selected at random have been carefully recorded by dividing them into groups following them have been carefully recorded by dividing them into groups following them have been carefully recorded by dividing them into groups following them have been carefully recorded by dividing them into groups following the method suggested by the department of commerce. All stationerits of signal strength, for example, were separated into three groups according to whether they reported the 50 km, equal to the 2.5 km, the 50 km, twice the 2.5 km, or the 50 km signal more than twice the 2.5 km, or the 50 km signal more than twice the 2.5 km, or the 50 km signal more than twice the 2.5 km, or the 50 km signal more than twice the 2.5 km, or the 50 km signal more than twice the 2.5 km, or the 50 km signal more than twice the 2.5 km, or the 50 km signal more than twice the 2.5 km, or the 50 km signal more than twice the 2.5 km, or the 50 km signal more than twice the 2.5 km, or the 50 km signal more than twice the 2.5 km, or the 50 km signal more than twice the 2.5 km. or the 50 km signal more than twice the 2.5 km. or the 50 km signal more than twice the 2.5 km. Or the 50 km signal more than twice the 2.5 km. or the 50 km signal more than twice the 2.5 km. or the 50 km signal more than the 2.5 km. or the 50 km signal more than twice the 2.5 km. or the 50 km signal more than twice the 2.5 km. or the 50 km signal more than the 2.5 km. or the 50 km signal more than twice the 2.5 km. or the 50 km signal more than twice the 2.5 km. or the 50 km signal more than the 2.5 km. or the 2.5 km How Letters Were Classified

Fifteen hundred letters selected at random have been carefully recorded by dividing them into groups following the method suggested by the department of commerce. All statements of signal strength, for example, were separated into three groups according to whether they reported the 50 kw. equal to the 2.5 kw., the 50 kw. twice the 2.5 kw., or the 50 kw. signal more than twice the 2.5 kw. Quality reports were grouped so as to separate those reporting the 50 kw. better, those reporting the 50 kw, duality better, and those reporting equal quality. Fading, sharpness of tuning, and the answers to the other questions were divided in a similar way. Then all the letters in each croup were counted and averages taken to show the true general feeling of the public in each case.

In drawing conclusions from such a test it must be remembered that there are enaturally many conflicting reports. Some

Movie fans all over the United States within range of WEZ's signals are having sport in tuning in the series of motion picture talks being broadcast through the Westinghouse New England station by George M. A. Fecke, president of the Motion Picture corporation and a well-qualified expert. Mr. Fecke tells how pictures are made and produced, together with describing "on location" work.

The return to the air of H. V. Kaltenborn of the Brooklyn Daily Eagle, whose weekly talks are scheduled at WOR every Monday evening at 8, p. m., castern thne, has brought forth a wave of approval. Mr. Kultenborn is especially well known to Rudio listoners, thousands of whom deem his current topic lecture vitally interesting and a liberal education on world events interpreted into every-day English.

YOUR CHRISTMAS SET

(Continued from page 23)

The filament switch on the front panel should now be turned to the "off" position, and the tubes can be inserted in their sockets. The next step is to furnithe switch to the "on" position and the tubes should light. If they do not, it is probable that there is a small knob on the front of the set which must be turned to the right, which will cause the fila-

listeners may have peculiarly bad locations and others good ones, so that their observations conflict with the average. But the average is nevertheless, the best index of the general satisfaction with the transmission.

Most of the letters state that the superpower was more than twice as loud as the ordinary power and a number have been received where the Increase was ten to one.

one.

Thirty per cent of the reports say that there is no enoice between the two in quality, and the remainder are fairly evenly split in favor of one or the other transmission. transmission.

Fading is shown to have had much less

RIEFS FROM STATIONS

(Continued from page 3)

chestra at WOR, Newark. The genind dance impresario promises to include in this program every request that reaches him from WOR listeners.

Detroit's evening high schools contributed to the Friday program of WWI last week. Bands, orchestras, giee clubs, male functed and fifty voices were heard recently at WTAM when Handel's "Messiah" was given by Cleveland's Weish choir. This large broadcast undertaking was directed by W. A. Hughes.

WHAD, Milwaukee, has planned a series, of "You Can't Stump Us" programs, with Bill Benning's orchestra furnishing the music. The programs include anything in instrumental music that the aidlonce may call a for.

The children's features of WBAL, Baltimore, will be directed by Hazel Knox who is a well-known singer and children's serietrainer. On New Year's Day she arranged a special program of children's stories for the New Year.

Mary Ann Dentler, leading man, of the stranged a special program of children's stories for the New Year.

Mary Ann Dentler, leading man, of the stage success, "Aloma of the South Seas," now playing in Philadelphia, accompanied by their Hawaiian orchestra of six pieces, recently paid a visit to studio. WLIT.

Move fans all over the United States within range of WER's signals are having sport in tuning in the series of motion picture talks being broadcast through the Westinghouse New England station by George M. A. Fecke, president of the Mestinghouse New England station by George M. A. Fecke, president of the Mestinghouse New England station by George M. A. Fecke, president of the Mestinghouse A mand and produced, together with describing on location" work.

Tuning a receiver is something on incitate the first article, according to which you was a different or incitate the first and the control of the set on which the surface in the first article, and the surface in the first article, and the surface in the first article and the surface in the first article and the surface in the first article and the surface in a meter about once a month to be sure it is supplying sufficient pressure or voltage.

(CONCLUSION)

ADVANCE PROGRAMS

(Continued from page 21)

Friday, January 8

time music. Mershall Field fee room exchester: 4:20-5, organ recitals. Edward Benedict: 5:20-5:37. Skeect Lime; 6:30-7, dinner concert. Dasko concert onsemble and Blackstone string quintet; 8-9, hour of music. Druke concert and recold strike; 9-10, hour of music. Druke concert and recold strike; 9-10, hour of music. Druke concert and recold strike; 9-10, hour of music. Blackstone dance ordestration. Jack Chapman and Blackstone dance ordestration. Jack Chapman and Blackstone dance ordestration. Jack Chapman and Blackstone dance ordestration. Jack Blackstone program. Seeeney Radio trio; 7-9, Sweeney Radio critectic, diem Drukell Strikes; popular sensa; Ramone Feyre, plaints US Watkins; popular sensa; Ramone Feyre, plaints US Watkins; popular sensa; WHAD, Mileswake, Wis. (275, 11 a. m., planologue, Andr. Hertel; Chas. R. Allen, harmonica; 5:15-7 p. m., Arthur Richter, organist; 7, Bill Juhre's Radio cartoon, Arthur Richter, organist; 7, Bill Juhre's Radio cartoon which was also been sensated by the sensate of the

www.americanradiohistory.com

director; readings; 7:30-9, concert, Louisville Munic, and, Raddo company, Gesie Kilingman, director; Sera King, solo planist; Crill Service taik, O. A. Beckman, W10, Des Meines, Iewa (326), 7:30-9 p. in., 15 Cavalry Copt. Physics of the Copt. Th

Heelsher, fenor, 74 Barnes, tener; Helen Rauli, planic; Hust O'Huro's orrhestra; 12, 2nd Jarnes and Al W180, Chicago, ill. (225); 2-4; p. m., shut-lin program; Jack Sprat, and the Carl Subree ornebatts. Trel Hottlo, planists; Victor Young, Dan Russo, vicilinist; Verman Barnes, Bernomer, Gerree Vall, plantst; Victor Young, Dan Russo, vicilinist; Verman Gray, 'ed., waller promise Economics, Gerree Vall, plantst; Joe North, bertine; Shepherd Levine, tener; Phorence Ostonan; Ray Kolfach, bartiones; Feebra Nelson, plans Ostonan; Ray Kolfach, bartiones; Feebra Nelson, plantst Control, WAF. Milway, Plantst; Joe North, bartiones; Mechael Swedish, tsuor: Mrs. St. Dresson, plantst-composer; Albert Nitz, tener; Rotter, bartione; Michael Swedish, tsuor: Mrs. St. Dresson, plantst-composer; Albert Nitz, tener; Mt. Dr. S. Dresson, plantst-composer; Albert Nitz, tener; Gordon, Mt. S. Dr. S

observates, William Stradinan, V. M. C. A. 3, normobservates, William Stradinan, V. M. C. A. 3, normparticles, and the stradinant of the strategy of the s

WE SOLD 4000 SETS

Had 4000 Favorable Reports Before We Felt Justified to Say



Quality Radio Apparatus

Now we invite you to go to your Apex Dealer who will be glad to make a personal demonstration for you in your home or in his store. A demonstration will prove to you that Apex Radio Receivers will give you everything you can possibly wish for in a radio re-ceiver from the standpoint of selectivity, clarity, volume, distance and attractiveness of design.

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The APEX Utility Radio The APEX Entertainer (Loud Speaker) 22.50

The APEX Console Entertainer 27.50 Upon request we will gladly mail you descriptive folder.

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Education or Experience
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that you merely study from books and
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Send Right Away for My.Big FREE Book and Special Offer of 2 Big Extra Courses
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ELECTRICAL SCHOOL H. C. LEWIS, President Established 1899 1300-10 W. Harrison St., Dept. 1281, Chicago FILL IN AND MAIL THIS

SUCCESS COUPON

H. C. LEWIS, President COYNE ELECTRICAL SCHOOL 1300-10 W. Harrison St. Dept. 1281, Chicago, Illinois

Dear H. C.—You can just bet I want one of three big handsome FREE 12x15 books with 151 actual photographs of electrical operations and shop seems, printed in two colors. Send it quick, before the supply is exhausted. Be sure to tell me all about Special Offer of 2 Big Extra Courses.

100				5		ļ. P
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	400	1000			Address	
	.**		200		Address	i

Straight-8: Outside Aerial Tuned R.F. Super

Part III—The Wiring

By A. Christen and Jacques Fournier

B EFORE starting the description of the actual wiring of this receiver, we wish to call your attention to two small errors which have occurred in the previous articles on this set, so that you can correct them before proceeding further.

further.

On page 26 of the December 19 issue, the coil L-5 was listed as having 25 turns, whereas 11 should have but 12. While this value is not critical and vacuum tube 2 oscillates just as well with 25 turns, wind on but 12, if you have not already made your coils. As these coils are shipped by McConnell and the Sickles company, the number of turns will be correct.

company, the manner correct.

On figure 5, which appeared on page 25 of the December 26 tssue, the holes for the bracket mounting screws are shown as being 113/16 inches apart, and should be 1½ inches. Blue print templates, which are available, are correct on this point, and need not be changed.

Wiring the Set

and need not be changed.

Wiring the Set
As a preliminary operation to the actual wiring, solder a 4-inch piece of flexible wire to each of the four terminals on each of the four terminals on each of the three Victoreen colls that are under the sub hase.

1. A long wire is put in from the right front terminal of socket 5, across to left, down through hole in front of 2, to the loft to the hole to left of 7 and forward to left front terminal on 8.

2. Where this wire passes the right front terminals on 2, 3 and 4, connect to those terminals, and where it passes the left front post on 7, connect to that post.

Figure 10

each of the three Victoreen coils that are under the sub hase.

1. A long wire is put in from the right front terminal of socket 5, across to left, down through hole in front of 2, to the loft to the hole to left of 7 and forward to left front terminals on 2, 3 and 4, connect to those terminals, and where it passes the left front post on 7, connect to that bost.

3. The rear right post on 6 must be connected to wire at the point where lead is taken off to socket 4.

4. A wire is run from left front post on 1, down through sub base and back to —B binding post. Where it crosses wire 1, solder to that wire. Connect —B hifding post and —A.

5. The potentioneters are just inside the brackets on the front panel and the fright terminal of switch to A+ binding post.

Topo a wire from right terminal of switch to A+ binding post.

Topo a wire from right terminal of rheostat above when left terminal of switch to A+ binding post.

Topo a wire from right terminal of rheostat above switch to right reminal of rheostat above switch to right reminal of rheostat above switch to right reminal of rheost

of switch. From right terminal of Amperite hetween condensors drop wire through and down to wire 6. From left terminal of potentiometer to left, run wire up and back to rear Amperite, its right terminal, and, where this passes under right terminal of front Amperite, run wire up through sub base to it.

8. From the left terminal

through sub base to it.

8. From the left terminal of rheostat above switch at right end, run a wire hack and to the left to the rear left post on socket 6. From this same point run a wire up and then back to the F terminal on the Victoreen coil at front right request of sub base. corner of sub base.

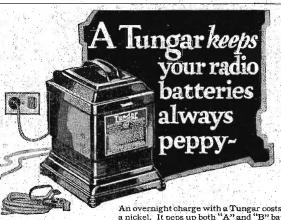
9. A wire is to be put in from rear right corner post of socket 5, across to left and down through hole behind socket 3, then forward and down to the right terminal of the 10-ohm rheostat at lower center of front panel. Where this wire passes rear right posts of sockets 3 and 4, connect to those posts.

10. From right terminal of rheostat above jacks run a wire diagonally across under sub base to rear right post on socket 2.

11. Connect left terminal of Amperite in center to right front post on socket 1;

(Continued on page 26)

(Continued on page 26)



The new Tungar charges any make and size of storage battery: ra-dio." A" and auto bat-teries, and "B" batter-les as high as 96 volts in series.

East of Rockies Two ampere size \$18.00 Five ampere size \$28.00 An overnight charge with a Tungar costs about a nickel. It peps up both "A" and "B" batteries and keeps your radio set at its full-toned best.

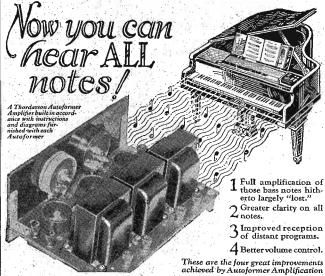
Tungar - the original bulb charger - is noiseless. It contains no substance which will spoil furnishings. Just clip it to your set and plug it into the house current. It can't blow out Radiotrons if the battery is left hooked to the set while charging,

Use a Tungar - the charger that needs no



Merchandise Division General Electric Company, Bridgeport, Conn.

GENERAL ELEC



Deepest Bass to Highest Treble Brought Out Clearly

The Thordarson Autoformer is not "another transformer." It is an all-frequency amplifier, an entirely new instrument developed and built only by Thordarson. Autoformer Amplication is step-up impedance coupled with capacities and resistances. Write for fully descriptive literature. Autoformers, \$5

All Frequency Amplifier

Send for the Autoformer Hook-up Bulletin

THORDARSON ELECTRIC MANUFACTURING CO. THE CHIEF OF THE PROPERTY OF T



KINGHAM

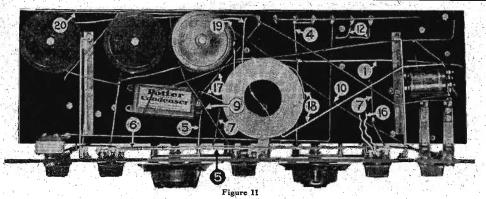


Figure 11

STRAIGHT-8 SUPER-HET

(Continued from page 25)
connect left terminal of Amperite by socket 8 to right front post of that socket and rear Amperite's left terminal to right front post on socket 7.

12. The outer end of the 10-turn coil (L-1) mounted close to the binding posts is to drop through sub base to the ground binding post and the inner end goes to the antenna post.

13. Considering now the jack mounted close to the top of the panel, and mounted frame upwards, run a wire from the second terminal, down and back, and then to left to outer end of coll L-2, mounted frame upwards, run a wire from the second terminal, down and back, and then to left to outer end of coll L-2, mounted frame upwards, run a wire from the second terminal of the condenser put in a sign post.

13. The condenser in front of L-1 and L-2 is C-1 in diagram, figure 4. The top terminal on the Jack is to be connected to the stator terminal at lower right side of this condenser. Another wire from this stator terminal goes back to rear left post on socket 1.

15. The bottom terminal of jack connects, by wire going downward and to left, to rotor post of condenser C-1, on rear frame, and wire continues to left and forward, then down between front edge of sub base connect a piece of fiexble wire for making connection to a C battory.

P post of Victoreen coil on top of sub base, by wire going down and back to rear left post on socket 5.

22. Run wire from flexible lead on + post of third Victoreen coil (below socket 5) to left to E+90 binding post. Connect the flexible leads from the + posts of Victoreen coils 1 and 2 to this wire. From the + post of Victoreen unit on sub base, drop a wire down through sub base and back to this longer wire.

23. The flexible wire from F post on second Victoreen goes straight forward and down to center terminal of right potentiometer. Connect the flexible leads of F posts on Victoreens 1 and 3 to this wire.

potentiometer. Connect the flexible leads of F posts on Victoreens 1 and 3 to this wire.

24. Connect G post of Victoreen on sub base to the right end of Daven Leakandenser and then connect left end of Leakandenser to right front corner post of socket 6.

25. Left front corner post of 6 is to be connected by a long wire below sub base and then up through it to the P terminal and Meloformer on sub base. The small Erla fixed condenser is to be connected from this same post on socket 6 to right front post on socket 7.

26. The variable condenser to right is C-2 and its rotor terminal on rear connects to right front post on socket 2.

Lis stator post at upper left side connects to front left post on socket 2.

27. Then put in a wire from B+ post on Meloformer on sub base, down through

hole and across to right to B+45 binding

hole and across to right to B+45 binding post.

28. The G terminal on this Meloformer connects to G post (rear left) on socket

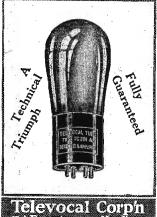
7. The F— post on Meloformer connects by wire through sub base to F— on Meloformer underneath and a short length of flexible wire is also to be soldered to F— of upper Meloformer to connect to C battery minus.

29. Through sub base connect rear right post on socket 7 to upper terminal of four spring jack, which, incidentally, is mounted frame upwards.

30. The second terminal of this jack connects to P of Meloformer on bracket and third terminal goes to B+ of Meloformer.

31. Connect rear right post on socket 8 to frame terminal of single spring jack, (Continued on page 28)





Used by John G. Ryan in the "Simplest Possible" Super



Qualitone Super Kit

USING the Qualitone Kit in the Simplest Possible Super-heterodyne described in Radio Digest, makes unnecessary any changes in the diagram and insures perfect operation on completion of the wiring. Each part fits into place as shown in Mr. Ryan's layouts.

Kit includes three long wave transformers, one filter coupler and one oscillator coupler, with complete set of blueprint instructions, all packed in sturdy SEALED carton. Genuine Bakelite and silk covered wire employed throughout.

Mail orders filled promptly on receipt of check or money order.

Can be used in 7 or 8 tube supers and the Hetero-flex described in Radio Digest of August 1st.

QUALITONE RADIO CORP. 4600 LINCOLN AVE. CHICAGO, ILL.

KARAS Parts Are Intended Only for the Few Who Demand Finest Quality and Workmanship

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I takes many manufacturers to supply the tremendous demand for condensers and transformers in this vast radio market of ours. If all home set foulders were ready to pay the price proportion of them would necessarily be disappointed—the Karas factory could not begin to take care of all Karas parts are designed and built for the select few—you builders who want the utmost in quality, in quiet operation, in appearance, You who take pride in your workmanship—whose sets havo is the envy of all your radio friends.

Just as water quickly finds its level, so did Karas Hamonik Transformers and Orthometric Condensers quickly find the exclusive market for which they were intended.

THE KAHAS HARMONIK "ALL-STAGE" RATIO AUDIO FREQUENCY TRANSFORMER Price 3? each. Shipped direct where dealers cannot supply, each is a few casts pestage paid to postman on receipt. Parcel past is prepaid where purpose the applies, wherever and however purched.

The most skillful radio set builders the country over discovered Karas Harmonik Transformers soon after they were placed on the market in 1924. When Karas Orthometric Condensers appeared a year later they were snapped up far too quickly for our own comfort. Perhaps it was because they were the first to meet the demand for a Straight Frequency Line tuning instrument. More likely it was because of the envisible reputation created the year before by Karas Harmonik Transformers. At any rate, it was months before we could fully supply the insistent, clamorous demand that came to us from all sides.

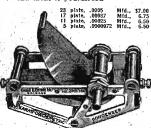
WE begin to think now that the number of set builders who want number of set builders who want have been seen that Money Can.

Buy" Eset that Money Can.

Buy "Best that Money Can.

In many places, good dealers who wanted a stock of Karas products could wanted a stock of Karas products could to find them in your are still unable to find them in your dealer that we are now able to lake care of his requirements. Or, if you wish to get Karas parts in the quickest possible time, we will be glad to send them to you, direct.

23 plate 10005



THE KARAS ORTHOMETRIC (STRAIGHT FRE-QUENCY LINE) CONDENSER

Prices and sizes above. Shipped direct where dealers cannot supply. No money in advance. Pay the postman price plus a few cents postage. Or send exhibit order and we prepay parcel post. 30-day Menoy Back, Guarantee.

However, you buy Karas Harmonik Transformers or Orthometric Condensers, you do not run the least risk of their not performing up to your highest expectations. If there is the slightest cause for disappointment during a thirty days' test, you are invited two whom you bought them, or to us if you buy direct. Your money will be promptly refunded without question or quibble. Karas radio parts are the pride of an organization that has been making precision electrical apparatus for more than thirty years. We believe we are making the finest transformers and condensers possible to produce and we are glad to back them up with this, the strongest guarantee we know how to write.

KARAS ELECTRIC COMPANY

4048 North Rockwell Street

Applied ABC Principles of Radio Receivers

Part III—Increasing the Volume

By Carl Patterson

WHETHER your set is of the tuned rendyne, the incoming program must eventually get to, the tube known as the detector. It is the sole purpose of this detector tube to unload the voice and music from the carrier wave, which is used to bring it into your receiver. Presuming that the first two tubes of a tuned radio frequency set are being operated correctly, and that the switching arrangements provided, have been adjusted so that the proper train gets in without interference, we are ready to unload the carge of entertainment. The detector accomplishes this by separating the carrier wave, from the sound waves, and then losing the carrier wave, as it is no longer of any importance. The sound waves at the output binding posts of our receiver, are very faint, and while they could be heard with a pair of head receiver, are very faint, and while they could be heard with a pair of head receiver, are very faint, and while they could be heard with a pair of head receiver, are very faint, and while they could be heard with a pair of head receiver, are very faint, and while they could be heard with a pair of head receiver, are very faint, and while they could be heard of the propose of strengthening or modifying these faint variations. The writer calls them variations. The writer calls them variations because as sounds vary in the wires, they constitute only electrical impulses of varying strength according to the number of times per second that the constitute only electrical myniges of varying strength according to the number of times per second that the constitute only electrical receiver, and the variations are fed, into a device which the Radio man calls an audio frequency transformer. It is the purpose of this unit to raise the pressure behind the actual electricity it is the purpose of this unit to raise the pressure behind the actual electricity it is the purpose of this unit to raise the pressure behind the actual electricity it is the purpose of this unit to raise the pressure behind the actual electricity it is th

The Heart

of the circuit 4 No. 170 R.F. Transformers at

\$7.00 each. 1 No. 150 Oscilla-tor Coil at \$5.50.

Should use of aerial be

preferred to loop, the Victoreen No. 160 Antenna Coupler is required at \$3.50 extra.

determined by its ability to handle either very low notes of a frequency of but 16 to 20 per second or the high notes of a plano which have a variation rate of 9,000 per second: This is far from easy, and very few speakers will handle notes with a frequency below 200 anywhere near as well as they do those motes around 1,000.

With but one or two exceptions, all of the speakers on the market catempt to accomplish their purpose by providing one or two small iron cores wound with fine wire which are called magnets with a flat disk of metal very close to one end of these cores called the diaphragm. This a flat disk of metal very close to one end of these cores called the diaphragm. This may be seen the frequency over the range mentioned above in accordance with the frequency of the impulses passing through the colls or magnets, which are connected to the output of our receiver.

Types of Speakers

At this point the manufacturer of the loud speaker has his choice of placing a horn in front of the diaphragm or connecting the diaphragem or connecting the d

and it is difficult to find a material for the cone which will not vary with the weather.

There are a few types of speakers which ido not use a diaphragm, but you can take it for granted that 98 per cent of them do. While a speaker may handle notes of practically any frequency very well, provided they are not too streng, there are a great many that will not handle a great volume of energy. The purchaser of a speaker must, thorefore, look out for both tone quality and the speaker's ability to handle great volume. It was stated that the storage A bat-

BIG PRICE REDUCTION



of tubes. That means satisfaction and enjoyment for you.

Build your own 'Victoreen'

You can secure complete parts to build the "Victoreen" from your dealer for between \$50.00 and \$75.00, depending on the quality of material

Victoreen Air Core Transformers are more than matched—they are actually tuned to guaranteed precision of 1/3 of 1%—a Victoreen feature.

Either UV 199 or 201A tubes may

be used—another Victoreen feature.
"B" Battery consumption is remark-

ably low-8-10 Milliamps, with Potentiometer at negative side—less than some three tube sets consume.

Range—clarity—volume—selectiv—ease of operation—that's what you get in a Victoreen Super Heterodyne.

Ask your dealer for a free folder and hook-up of the Victoreen set or write directly to us. Your dealer can supply you with all necessary parts.

THE GEORGE W. WALKER CO. 6509 Carnegie Avenue BRANCHES IN PRINCIPAL CITIES Cleveland, Ohio

Fultone Loud Speaker has conclusively proven to the radio world that a reproducer could be made and sold at \$6.50 which would handle music or speech in volume as perfectly as any speaker at any price. The horn is solid, non-ringing and wide-throated enough to handle the powerful reproduction from superheatoredyne or reflex. The adjustable displication permits matching Fultone to any receiver and "B" battery voltage. Either speaker or unit will be shipped on a satisfaction or money back basis on receipt of price if money order or currency. The coupon is provide for your convenience in ordering if your dealer cannot supply you.

\$6⁵⁰

large diaphragm and bobbins of vvy nickel-plated case through the ans of a special key. The poli-ces are not made from a solid ce of iron but are assembled from laminations of carefully chosen

Use on Your Phonograph Edison Adapter 250 Columbia or Pathe 200 Brunswick 300

HALL & WELLS, Inc.



This unit is the secret behind the un-paralleled success of Fultone Speaker, fine whre are protected from injury by a e back of which adjustment is made by

Tear Off, Fill in, Mail Now

ADDRESS.

CITY AND STATE.

STRAIGHT-8 SUPER-HET

(Continued from page 26).

Connect rear left post to G on Meloformer

32. Connect bottom terminals of both jacks together and continue wire through bracket to right, and back to B+90 bind-

Ing post.

33. Solder one end of a 5-Inch piece of flexible whre to the front left post on socket 7 for connection to + post of a

(CONTINUED NEXT ISSUE)

ADVANCE PROGRAMS

(Continued from page 24)

Friday, January 8

WORD. Batavia, III. (275), 7-8 pr m., Webster hotel Irio and Italio study club: 9-8:45, recital, Rudloph Magnus, tonor; 9:45, a talk to young men, Alexander

when the state of the state of

Dr. Joseph Complexes and Compl

ordiestra. FWA, Ogden, Utah (26!), 4-5 p. m., organ recital. Paramount thoater; 5-6, Ogden Radio dealers pro-

Paramount theater; 5-9, Ugeen, Radio occasion por Radio Bource, Cole, (822-4), 125 fb. pr. Ribid theater magicale; 3:15, exercises; 2:30, mattines for house-wires; 4, cultinary hints; 4:15, fashion reviews; 6:40, dimner omeert, Brown Palace utring orchestra, Howard Tillotson, furecart; 7:30, Sunday sechael Isson, re-Tillotson, furecart; 7:30, Sunday sechael Isson, re-durid, unkited, Mrs. Bernice W. Doughly, superanc-Jame Ballanthen, contraint; Rayden Massey, tenor and Dr. Cornoline Delley, bartone; accomponial, Royce E. Milleren; Instrumental program, KoA orchester; Sidney Shapbard, violatist, talk, "Our Twenteen Con-tary Cith."

Type Girl.

Pacific Time Stations

KFI, Los Angeles, Calif. (487), 5:30 p. m. Los Angeles

Etzaninor maltine piporariu; 6:39, Veek Pocket cuncert; 7, L. A. Examiner program; 8. Asolian organ,
Dan L. McFarland; 9. All American string cunrets

9:39, program, Muinqi Motore; joke contoit; 15,
Ray West's Alexandria hotel orderstan, John 26 Groot.

KFOA, Seartia, Wash, (454.3), 12.30-1.30 p. m., program, 4.515, Wash, F. Hoffman's orchostrat today's recinc 6.645, Bloffman content orchostrat 5.646-20. (KFOA), Long Beach, Calif. (232.4), 0.6530 p. m., organically a support of the content of th

dfrance concert; 7. Auflusta-Bose von France Concert; 7. Auflusta-Bose von France Concert Conc

Company, w. Mach. (384.4), 10:30-11:20 a. m. "Whate R. Sealtte, Wash. (384.4), 10:30-11:20 a. m. "Whate R. Sealter, Bachelder tric, 1-2:30 m., 15st Intelligencer program, organ rectait; "What to Frenare for Tonign's Dinner." Senice Redington; S.30-10, Past Intelligencer program: 10-11, Gordon Kilbourne and

moneour program, organ recital; "What to Prepare for Tonight's Dinner," Insertices Realingury, \$500.10, For Inserting the Control of the Cont

ne Grounds". Prof. A. L. Peck; 3-9. musical gran. Francisco, Galif. (426.3), 7 '5.03 S. m. Roberts; 12.05-12.45 p. m. phogram. Insulton unical control of the control of th

The Reader's View

Less Classical Music

I think that less classical music would improve broadcasting about 75 per cent. Popular music and old-time music is best by far. Not necessarily jazz, but music that everyone likes. When a station broad-casts old-time music or music that is good, they receive more applause from Radio fans than when they broadcast classical

music. As to sopranos singing classical music, I would rather hear coyotes howling, and baritone classical is not much better. It doesn't matter what station is, broadcasting or what kind of a set you are using, you cannot understand more than half of the classical singing. All of the classical songs have names that have no meaning, most of them are French or Spanish names.—L. F. W. Conway Springs, Kan.

Priend of Small Stations

Priend of Small Stations
In your number of December 19. I note the complaint of F. W. K., Portland, Ore, in the column headed, "The Reader's View." What kind of a set must he have to say that it is freak reception for a station of 100 watts or less to reach far? I have three sets and I consistently pick up 100-watt stations and less at a distance of from 100 miles to over 1,000 miles. Some of the programs broadcast by those small-town stations have it all over some of the large ones and are worth going after. Station WREC of Coldwater, Mis-

slasippi, is but 10 watts and 1.300 miles from me. I have received them many times and they are good. Their slogan is, "The Most Powerful 10-Watt "Station in the World."
I make it my business to try every night for small stations in Wisconsin and Michigan, because the spirit in those community programs is great; the clubby feeling and the desire to always put over the best that is in them is characteristic of the small station.—C. E. J., Boston, Mass.

Agrees With E. L. S.

Agrees With E. L. S.

I have noticed, and so have a number of my friends, that a station will broadcast four or five numbers before the announcer will give the station's call letters. One would think it was a secret. I do not mean that this is true of all announcers, for some of them are very good, but I do believe that about 75 per cent of them could improve in this manner. I want to say that I heartily agree with E. L. S. of St. Louis, on what he has to say in regard to this matter in your issue of December 19.—0. F. Jr., Dallas, Texas.

Challenges E. S. L.'s Remark

Challenges E. S. L. 'S Remark
I noticed in your issue of December 10,
where E. S. L., St. Louis, suggested that
the announcer simply give the call letters
and city.
In reply to this, I wish to say that I
wonder if E. S. L., thinks Radio broad
casting stations can be maintained and
continue to operate just for fun.
Let me suggest that if all persons who
are of the same opinion as E. S. L. do not
want to give the station any method of

compensating itself for the pleasure, entertainment and instruction it gives the Radio public free of charge or don't want to hear the announcer identify himself and his employers, they can tune in somewhere else.

E. S. L. should, with equal consistency, suggest that all of the newspapers and magazines dispense with advertisement—V. O. B. Little Rock, Ark.

A Treat to Hear Call Letters

A Treat to Hear Call Letters

We have noticed that many times the announcers do not give their station between numbers. In some instance, this yearing we waited six numbers, and finally gave up and listened to someone else. Through your Radio Digest we thought perhaps this could be corrected, for, to us, it is as much of a treat to know the station as to hear a good program.—Mr. and Mrs. C. C. M. Kansas City, Mo.

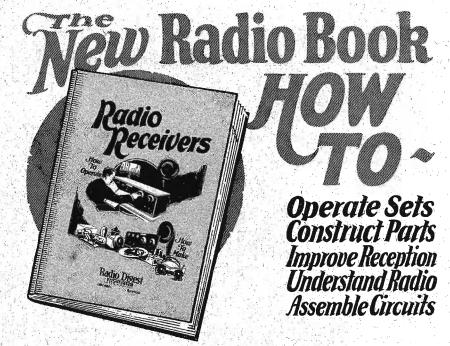
Too Many Stations

Too Many Stations

What is to be done with so many broadcasting stations crowded together, butting in on each other's programs? It is very disgusting to try and listen to a program with the highest type of receiver, have a good program, and some other station, break' in and spoil it all. Don't you think if cach state was allowed, say about three stations, then we could all enjoy ourselves? I know it is a prefty big problem to adjust at once, but it looks like something is going to have to be done.

—M. S. R., Orchard, Coto.

A counterpoise should preferably be as long as, or a little longer than, the acrial.



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 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.

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Chicago, Ill. Enclosed find five dollars fo Radio Digost including FREI Book called "Radio Receivers	the New 124 Page Radio
to Make."	
ADDRESS	en e
CITY	STATE

CORK WASHER WILL KEEP DIALS AS SET

The least jar caused by a passing truck will often cause a signal to fade out be-cause a tuner, variometer or condenser turns too freely. To remedy this, make cork washer by cutting a thin slice off



CORK WASHER THAT FITS BE-TWEEN DIAL & PANEL



of a cork and make a hole through the center about ¼ inch in diameter. Take off the dial and slip the cork washer over the sbaft and replace the dial so that it presses a bit against the cork washer. Of course the washer should be thin enough so that the dial almost touches the panel. The washer will now hold the dial so that it cannot turn too easily, yet still easily enough to permit of easy tuning.—Ben Inkman, West Allis, Wis.

KYW "HARMONY GIRLS"

(Continued from page 4)

(Continued from page 4)
week a beautifully worded letter of appreciation, signing herself as "Pearl Button." An enamored young man from a village in Scotland, sent them a letter asking for a picture after hearing them over the air. Thousands of letters have come to the Harmony Girls from every state in the Union, also Alaska and the Canadian provinces.

How did they meet? Well it was just

Cylinder Gasket Ground

Often times a person who wants a good ground for sending or receiving does not feel satisfied with results from the water pipe, and would like to use copper sheets. One can get a good substitute in this way. From a local garage get several brass or copper auto gaskets used in

AUTOMOBILE ENGINE GASKETS



Comments of the second

packing between the cylinder head and the block.

Most garages are glad to get rid of old ones. Solder them together as shown and bury them deep in damp earth. There is far more surface and better conductivity on these than on ordinary water pipe. Twenty-five or thirty of those make an ideal ground for a transmitter.—Vernon Jaynes, Parkersburg, Jowa.

of the saw. This has become so well recognized that today we can scarcely classify it as a novel musical instrument. In the picture you see Paul McKinistry at KTHS, Hot Springs, Ark., with a soprano saw, its hind foot clasped between his knees and its nose pinched between the fingers of his left hand. A musical saw always is happy in this position and sings at its best in response to the bow scratching its back. Seriously, the music is sweet and extremely flexible. Radio listeners have often mistaken it for the human voice.

Now we come to one of the most down

(Continued from page 4)

Week a beautifully worded letter of appreciation, signing herself as "Pearl Button." An enamored young man from a willage in Scotland sent them a, letter asking for a pleture after hearing them over the air. Thousands of letters have come to one of the most down-rounder air. Thousands of letters have come to the Harmony Girls from every state in the Union, also Alaska and the Canadian provinces.

How did they meet? Well it was just about the time of their beginning on the KYW. Both happened to be in a Chicago music publisher's studio. They were trying-out songs and by accident their voices were blended together. Everybody was astonished at their peculiar affinity of tone. It seemed that never in the world cuild there ever have been two voices more perfectly attuned to each other. Immediately they were christened the "Harmony Girls," guided by fate, it seemed, to this alliance. Miss Ingram was born and reared in Chicago and Miss Carpentor comes from Marietta, Ohlo.

HAND SAW IS NEW STAR (Continued from page 5)

secompaniment. Forthwith came the great iden.

Mr. Sime looked on his pitchfork with new respect. Around the middle of the handle he built a box ten by thirteen inches, the back of birch and the rest of it to fill. At the neck of the handle he cut a two finch slot through which he inserted a guilar tuning key. Then came the regular violin bridge and the attachment of a steel "B! string of a guitar. Simple, don't you think? And it has the built-in pitch.

But all of these new instruments are not of the barnyard brand. The common hand saw has been discovered to possess musical talent. Feel its teeth and it will bite, tickle its back and it will sing. No-body until recently ever credited the saw with any audible expression other than an infinite capacity to lead the read chorus at a suorer's haw.

Ent there is voltant timber in the voice whether it comes to you in the ballroom.

or through the loud speaker in your par-

So the Muse with her eight sisters must so the musy. Be it the ten stringed Oud from Syria or Paul Spechts' newly invented vibraphone at WJY, the dance must go on with a fabric of sound that clothes the earth with music.

'IRON MAN OF SOUTH'

(Continued from page 7)

(Continued from page 1) grand plane jump through a barrel hoop forward and backward.

When it comes to toe broadcasting one of the classiest little Dixie dancers in the world makes the KWKH studio her home and her name is Miss Mary Gillespie. When she is not tripping daintly over airy nothings she finds self expression to the delight of others through the saxophone. Sometimes she takes her artistic tootsies on vaudeville tours and has been across the continent a couple of times.

The world craze over syncopation had its incubation in the South. The South still holds the crown and in Shreveport they have Phil Prierson and T. B. McGehee, who vocalize it 32,9 per cent pure. The

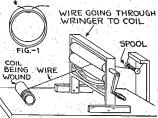
still holds the crown and in Shreveport they have Phil Trierson and T. B. McGehee, who vocalize it 99.9 per cent pure. The one-tenth of one per cent is just as good as the rest. Requests for special numbers by Mirs. Charles F. Cockrell, one of the sweet singers of KWKIH, keep her dated so far shead she never has to worry about what she is going to sing. Her able accompanist is Mirs. Sylvan Turner.

All the people for hundreds of miles around are deeply grateful to the Big Iron Mann of the South for maintaining so useful and entertaining a Radiophone station as KWKIH. It provides them with what they want the way they want it and they do not have to depend on bringing in programs from a distance and possibly not precisely in line with their own community tastes. Furthermore that Louisians station is a credit to the state and there is no question it has stimulated a vast amount of interest in Shreveport, as evidenced by the mountains of applause letters that have been received.

WRINGER IS USED IN WINDING TIGHT COIL

The method shown in the drawing does not need much explanation. In one sketch is shown how to fasten the ends of the coils by putting two small holes in the tubing. Securing the wire this way prevents it from slipping. The other sketch

END OF WIRE



CROSLEY

Powel Crosley, Junior has always done the unexpected.

His Announcement of December 26th was no exception to that rule.

RADIO



Interference Eliminator No Radio Set Complete Without It

Improved Results

with Tube or Crystal Try entirely at my risk the wonderful improvement this inexpensive little device will make in the reception of your



Postpaid If you are not results you get your dollar back

STEINITE LABORATORIES. 161 Radio Bldg., ATCHISON, KANSAS

Old Tubes Made Good As New

THIS latest Laboratory product will recondition any old, run-down, even
worthless tubes, as long as the filament
still lights. Makes them as good as new in a
few minutes time. Costs but few conts
more vary of the costs but few conts
more vary operates or either and control of the
Volta Model No. 20 for UV-2014 (C-2014), sec. and
all similar types. Model No. 10 for UV-198 (C-209,
otc.) and all similar types. Sound to do the work on our

Money-Back Guarantee

py chescitally reducated if desired results full.

The black Reconditioner pays for itself in one teems of the pays of the black Reconditioner pays for itself in one teems of the pays on musty restorting felends' and neighbors' old tubes. You cannot until on this speelal shurt-lime introductory price. Sent Postpaid directions on receipt of \$3.55 (\$3.55 in Canada and foreign countries of the pays of

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Questions and Answers

Western Electric Super-Hets
WEM, Wyaconda, Mo.
Can you give me the address of the
parties from whom I might get information relative to the Western Electric
super-heterodynes?

super-heterodynes?

A.—The Northern Electric company (Montreal or Toronto, Canada) and the Western Electric company (New York, Chicago, etc.) manufacture this set but it is not procurable in the United States. The Western super, however, is on sale to the public in Canada, and you might address: your inquiry to the Toronto or Montreal effices of the Northern Electric company.

Making Freshman Regenerative
HHP, Flint, Mich.
I have a Freshman five-tube set. Would you please instruct me how to change it over to make it regenerative without radiating?
A.—All tuned radio frequency receivers are essentially regenerative, and it is only through inserting losses or intentional oscillation stopping devices that they are kept from radiating.
In the Freshman set, we believe a capacity effect is introduced through placing the inductances close to the variable condensers. If true, then moving them further away from the condensers would allow more regeneration to be in effect. However, we do not feel that this is wise as the manufacturers of the receiver no as the manufacturers of the receiver no doubt have placed the coils at the most advantageous position.

Connection Breaks; Adds Volume

ALW, Quantico, Va.

Enclosed find 50 cents. My ground wire breke recently and I found I could get along just as well without it. Why?

Another one that puzzles me is the fact that the connection to the binding post on the first audio transformer broke away from the F— (secondary) and I find the volume much greater than before. My set is a Freed Eisemann neutrodyne which I assembled myself. Why do I get more volume?

A—This result very often prevalls wherein a poor ground connection is installed, if you will rebuild your ground connection, being certain that it is well made, we believe you will notice a decided improvement.

Your further question, regarding the climination of the grid return upon your first audio is evidence that when connected you are overloading your tubes. This can occur through not using standard tubes—but primarily is scansed through burning your audio tubes too bright.

Radiating Radiola Super-Hets
DMK. Sheridan, Wyo.
I am writing you in regard to very poor
Radio conditions in this city this fall.
The writer has had an Atwater Kent set
in use here for the past three seasons.
The first season the conditions were excellent. Last fall and winter they were not
quite so good, but were pleasing, but so
far this winter the conditions have been
extremely poor, so bad in fact that unless
they change for the better, Radio will
have become se that no one will care to
listen in.

have become se that no one will care to listen in.

After reading the article, "How Badly Does Your Receiver Reradiate?" and especially the pargaraph concerning the use of an aerial in place of the conventional loop on the super-heterodyne, we have been inquiring around among owners of the Radiola supers and have found that the local dealer has been installing every super sold using an outdoor antenna. He

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PATENTS. Booklet free. Highest references. Beg results. WATSON E. COLEMAN, Patent Lawyer 644 G Street, Washington, D. C.

POSITIONS WANTED

Experienced radio operator, licensed first-class, desires position in broadcast station, or radio telegraph work. Box G, Radio Digest.

RADIO

Long Distance Radio 22.95. Lambert's newest crystal success. No tubes. No batteries. No grief. Always ready. Works 600 miles. Fully guaranteed. We pay postage. Order direct from this ad. Leon Lambert. Wichita, Kansas.

TELEGRAPHY

Telegraphy—Both Morse and Wireless taught thoroughly. Big salarles. Wonder-ful opportunities. Expenses low; chance to earn part. School established fifty years. Catalog free, Dodge's Institute, Sixth St., Valparaiso, Ind.

DIRECTIONS FOR REQUESTING INFORMATION

The Questions and Answers department offers service to Radio Digest subscribers without charge and, to those not subscribers, the same service with a charge of 50c for each letter requiring up to three answers or diagrams. We feel that this policy is necessary for the protection and best interests of our regular readers, as the volume of correspondence to this department has increased to such an extent that it is almost impossible to give our subscribers' letters adequate attention nor a complete answer. To those who have long been newsstand readers this may, at first, seem an injustice but a little thought on the matter will show that this is the only possible solution of what has been, to the technical department, a very perplexing and difficult problem. We ask that the following suggestions be read carrefully before writing:

1—Search carefully the back issues which you have, as the point in question has probably been covered several times before.

2—The book, "Radio Receivers," given free with each yearly subscription (when received by Radio Digest direct with full remittance of 55, contains the answers to the majority of the questions asked. If you have this book, go through it thoroughly and it is probable that you will find the solution of your problem.

3-Letters for this department should be kept separate from all correspondence to other depart-ments and on other subjects.

4-Questions should be written on one side of paper only and each sheet should bear the sender's name and address. All letters should be accompanied by a self-addressed stamped envelope of standard businessed ness size.

5-Unsigned (or anonymous) let-ters cannot be answered, either in

laughs at the statement that his installa-tions may be the cause of the poor Radio receiving conditions, and states that the super service man told them to use the outside wire wherever customers desired more volume on account of being at such great distance from the broadcasting sta-tions.

tions. He said that the installations were being made by wrapping the antenna lead-in around the regular loop and that this would overcome any possible chance to let the super squeal or howl. The writer notices, however, that when tuned in on a perfect reception, it is very easy to observe that some receiver is being tuned in, by the noise. This is easily determined to be the turning of dials. Then the music

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Stations gladly put on numbers you request. We print
bers you request. We print
Declar leads, that rev. ATTEN-

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Enjoy perfect reception regard less of weather conditions. Th Static Eliminator—the newest an most startling thing in Radio-cuts out practically all stati

without loss of volume!
And in addition it will help in-crease selectivity, tune out local-stations, sharpen signals, remove noises, lessen interference and prevent re-radiation!

special cards that get ATTEN.
TION. Applaud your favorites.
FREE LOG with 1st
Ordor

Radio Digest or by letter, nor can those without address.

6-No comparative statements on advertised apparatus will be given except as to efficiency in some particular circuit.

7-Drawing diagrams on a separate sheet of paper will save time and enable us to give all questions more attention.

8-Write each question as a separate paragraph.

9-Keep a copy of your letter and diagrams, to which we can refer without re-drawing.

10-The names and addresses of the writers of letters published will not be released except with the writer's permission.

11—We want to be of assistance to you in your difficulties, but are sometimes limited because of the length and time required for the proper consideration of the questions asked. Therefore, please make your letters brief.

or voice will disappear as if drawn right away from my set, and a noise (resem-bling a growl) comes through so badly that the set has to be shut off.

-In your"B" Supply Unit use Potter Condensers

DON'T TRY TO TUNE BY GUESS

KNOW where to place your dials for each station in America.

KNOW what station you receive without watting announcement.

You can do both with RADEX

Send 25c Coin or Stamps

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FREE LOG

Quality cards. High grade printing. All the rage. 100—\$1.45 200—\$1.95; 500—\$2.45. Money refunded if not delighted Send No. Money and FRES Log. Order No. Radio Printers; Dept. 3211, Marcango, III RADIO CATALOG

ARE YOU THE MAN

to be first in your town to sell and denomizate POWEROLA, the famous 50 tools NOO-BATTERY ELECTRIC ONCERT AND THE STATE OF THE STATE OF

Are You the Man Who Sees Opportun-ities Ahead for Real Money Making?

You, Too, Can Make Powerola Send \$1.00 for wiring designs showing parts used and how to make any set or circuit (one to eight tubes) operate satisfactorily from A.C. or D.C.

POWEROLA RADIO CORP.
Dept. R.D., 1845 Broadway New York

Kindly advise me if there is any way to cause the local super agency to install these sets as they are intended.

A.—Your letter is of unusual interest as it brings to the front an opportunity for Radio Digest to make the statement that, without exception, it is impossible (to date) to produce a Radio receiver which will not radiate, irrespective of type, kind, color or creed.

We do not mean by this statement that a receiver cannot be noutralized so that the amount of radiation will not annoy other listeners, but we do mean exactly that all receivers will in a greater or less degree radiate.

that all receivers will In a greater or less degree radiate.

The reason for this was very clearly explained by Milo Gurney in a series of articles which were published in Radio Digest during April and June of 1925. It was further stated by Doctor Hull of the Radio Frequency laboratories that total elimination of radiation was impossible.

sible.

Referring to the Radiola super-bet in particular, it is true that antenna reception would provide greater signal strength, and likewise true that it would, in direct ratio, increase this receiver's ability to radiate. This is true because the nature of a super employs oscillation, while regeneration into the loop as they use it is but additive to the antenna when it is connected to the loop. A regenerative loop is not near the offender as an outdoor antenna. antenna.
Please understand that we are not inter-

Flease understand that we are not interested in a controversy, but we are interested in promulgating some of Radio's fundamental truths. You may rest assured that all super-heterodynes connected to antennas, as you indicate, are radiating offenders.

offenders.

We know of no way, except perhaps a "necktle" party, to make your local super agency install the Radiolas as they should be installed.

\$1.50 for Your Old Radio Tubes

regardless make or condition toward purchase of each new standard \$2.50 tube. Fositively guaranteed. We do no sell re-built or bootleg tubes. Agents Wanted.

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Demand for high pay radio men is so
great that a big Kansas City wholesale
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the radio business for themselves and
make \$80 to \$200 a week without any
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Send today for free catalog and amazing
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Corrected Every Week-Part II

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, scrially continuously on the next to last page. Letters must reach Radio Digest's office not later than one week from date of issue corrected. Readers are not limited to correcting one station, but such corrections must be verified by the stations themselves, and NOT by comparison to other so-called accurate Radio directories or lists. Verifications must accompany corrections. Turn in corrections for as many stations as you can find—if you can find errors! Use separate sheet of paper for each station submitted and place name and address on each sheet. In case of tie, duplicate awards will be made. Asterisks have been placed in front of corrected. listings and new stations in order to distinguish them.

United States (Cont'd)

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Ave. Baptist Chursch. Dally ex Sun, 9-39 am. prayer
services. Mon. Thoma. Thurs. 241, 8-10 pm. Wedd, 9KT81, Los Angeles. Cailf. 293, meters. 750 watts.
Bibb last of Los Angeles. Announcer. M. E. Carrier.
Ann. 8-10 pm. Tree. 9Market Commission of Comm

certs. Sun, 11-12:30 pm, church services; 9-10 pm, classic; 10-11:30, frolic, classical. Central. KTNT, Muscatine, Ia. 256 meters, 500 watts. N.

The new C-H Socket for the UX tubes. Same one piece, double-grip, SII.-VER plated contacts used in the standard C-H Socket with the ORANGE shell. Heatproof Thermoplas base. Genuine low-loss construction and attractive appearance.



The original radio switch; —with the long life mechanism outlasts the set. Easy to mount, only one hole needed, and adjustable to all panel thickness. Can also be used in new batteryless set.

In Radio especially—

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WHEN your radio set goes wrong, just as you are comfortably settled before the fireplace expecting to spend a great evening, it is annoying.

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GOOD parts of good material and carefully built are insurance against such annoyances.

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There is no jumping, no back lush; and no sticking.

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