

4-17-26

#### OFFICIAL BALLOT No. 4

#### Announcers' Contest

RADIO DIGEST THIRD ANNUAL GOLD CUP AWARD

GOLD CUP AWARD Editor, Radio Digest, 510 North Dearborn Street, Chicago, Ill.

Please credit this ballot to:

(An	nouncer's Name)	Stat	ion(Call Lett	OPS)
	Signed	19050110020	***************************************	104416845874123814444444
	Address		######################################	
	City	5	State	

### **ONLY SEVENTY-EIGHT** NAMES IN CUP RACE!

LISTENERS HAVE WIDE SE LECTION IN 1926 AWARD

Who Will Be World's Champion Announcer This Year? Three Cups on Prize List

Seventy-eight favorite announcers, two of whom have voluntarily withdrawn, have been nominated by admiring listennave been nominated by admiring listeners to participate in the third annual Radio Digest Gold Cup Award for the world's most popular announcer. The two vithdrawn on their or nitiative, are orge Hay and Graha of the 1924 and 1921.

Stablish a precede they anned for the wind of the light and the stablish a precede they anned for the stablish and the stablish and

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Announcer	Station
Konecky, Eugene	WO A W
Junkin, George	KMOY
Lane, Frank	KVOO
Locke, C. B	WRAD
way, Earl E	TZATA
Malin, Donald	WIT C
Markham, G. E	W LS
McArthur, Peter	WGY
McNamee, Graham (See	W OC
Nelson, Ted	Tootnote)
Palmer, Lester	WMCA
Rouse Gene	WOAW
Rouse, Gene	WOAW
Randall, Clyde R	WSMB
Ryan, A. W	CNRO
Ryan, Quin A	WGN
Ryan, George S	KDKA
Reid, Louis	WJZ
Turce, D. M	WOPD
Swanson, Gus	WOAW
Schilling, John T.	WHD
Squires, Eddie	WIAY
Stace, W. C	WLW

## NOMINATION CERTIFICATE

Announcers' Contest

Radio Digest Third Annual GOLD COR AWARD

GOLD CUP AWARD Editor, Radio Digest, 510 North Dearborn Street, Chicago, Ill.

I nominate.

(Broadcasting Station

Address.....

Announcer Station ..WLW Sullivan, Jerry.....WQJ Scroggin, G. G..... KFEQ Shannon, Spike.....KDKA Thompson, Roy F.....WFBG
Tomy (Chief) C. D....WCX
Tison, Walter....WGHB Tyson, E. L.... ...WWJ Turner, Hobb......KFKX Wolfreese, Andy.....WOI Wall, W. C. WAPI Wetzell, Maurice WOOD

(Graham McNamee and George D. Hay winners of the two previous Gold Cup Awards, have withdrawn from further participation in the cup awards, hence their names appear only for record in the above list. Do not send ballots marked with votes for either of these two announcers, as the votes will not be credited to anyone, but will be thrown out.-Editor's Note.)

A recent morning devotional service from KLDS, Independence, Mo., brought over a thousand cards and letters from

CONTENTS

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### WHIS PERING PIANIST YELLS AT IMITATORS FEELS FLATTERED; ALSO

"BURNIED UP," HE SAYS

Art Gillham Calls Attention to Pioneering Efforts-Wants Listeners to
Know Who Is Who

NEW YORK.— Art Gillham, the Whispering Pianist of Radio, arrived in New York recently, and brought with him a grievance that he picked up on his recent tour of the South and the Middle West.

West.

"Imitation may be the sincerest for flattery," says J Mr. Gillham when I go into a tov yn and me that I am imitat in and so, it just burns

Art Gillham he dio audiere s

fidential, wh covered long old Drake he in December

20

sary to shout int Gillham Te He was the first arti-songs in such a low standing in the studi-not hear what was bein e start May, 192 on his first tour of stat, and to date has broadcas, ferent stations.

ferent stations.

Lambdin Kay, well-known announcer Station WSB, the Atlanta Journal, fi called Art Gillham "The Whisper Pianist" in an article on February 1924. Since then this billing has bused. Mr.\* Gillham's style has been successful that it has given rise to maimitators of his style. One artist, I Gillham claims, has even gone so far to lift word for word the type of coversation Art uses in his introduction.

#### Carnegie Tech Will O er Six-Week Course in 1 adio

PITTSBURGH.—As a result of the demand that has been developing during the past few years, a course in Radio communication, it is announced, is included in the plans for the summer session this year at the Carnegie Institute of Technology here. The college will give a six weeks' course from June 28 to August 6.

### oking Ahead

Oldest City Extends Welcome Through WCOA.

Women's Page: Index to Women's Programs...

WOAW Encourages Community Interest.....

"A Step On the Stairs," Radio Digest Prize Mystery Story, Eighth Installment, by Robert J. Casey....

An Evening at Home with the Listener In: A Chart in Eastern Time, showing when to listen in for stations.

Editorials, Indi-Gest and Condensed by Dielectric.

story of Radiophone Broadcasting Stations, Part V (Revised).

The Super-Torodyne, An Improved 8-Tube Super, Part II—Front and Top Sub Panel Assembly, by Professor J. E. Owen.

v to Stop Blooping and Man-Made Static, Part X—Portable Receiver for Locating Interference.....

the tangled depths of a F1 odds to rescue beauty in Fullerton beginning in

All the Live News of Radio.....

Advance Programs...

ler's Views.

New York News Whippets leads them into e they contend aga ist extreme oit by Hugh

Big Double

#### NEILANS FIND SALLY AND MAKE HER MIK

ARSHALL Neilan and his wife, Blanche Sweet, were looking for Mike when they sauntered for Mike when they sauntered well-known Los Angeles ballnonths ago. They sat watch'rl of dancers sweep past
t at the same moment
ted on a frolicksome
hlonde curls bobbed
rious head, whose
ling eves made ling eyes made

## OLIVER LODGE INVENTS "N" SET

#### **NEWS BRIEFS FROM** THE BROADCASTERS

NO AIR TIME LOST BY WPG INSTALLING SUPER SET

Dornberger's Replaces Coon-Sanders Orchestra at KYW-WEAN Has American Legion Program

WPG, municipal station of Atlantic City, N. J., is making an installation of a 5,000-watt superstation without interrupting its broadcasting service. No time on the air will be lost in transferring from the old 500-watt equipment to the new.

"The Phantom Violin," the ghostly old master who ever and anon comes to the WGN, Chicago, studio from the land of the shades, was heard there again last week. His identity is being kept secret, and his program usually includes popular favorites as well as classics.

Charles Dornberger's orchestra has taken the place of Coon-Sanders orchestra at the Congress hotel while the latter group of musicians, known for their broadcasts from KYW, goes on its annual

round the Town with WDAF" is a ure added to the Kansas City Saturday nights from 8 to time. The feature is al pickups from Kansas ers and dining rooms.

> and American Legion ll be given on Thurs, at 7:30 p. m. Eastern WEAN, Shepard Stores, Music and addresses by mmander R. B. Little-Commander J. P. Harti-Executive Committeewill be featured.

How to plant flowers and shrubs about your home this spring is told by WOC, Davenport, every Wednesday evening at 9:00 and Friday at 7:30 p.m. Central time.

#### BACH, 91 YEARS OLD, IS HÓNORED BY WSÓE

MILWAUKEE. - When Christopher Bach, Milwaukee's own composer, wrote his three operas and twenty overtures, little did he realize that the time would come when he would sit at the fireplace in his own home and hear selections compared the six and delicated to his coning over the air and dedicated to himself on his birthday.

WSOE, the School of Engineering station, here, recently gave a special program in commemoration of the ninety-first birthday of this famous composer. The program featured the music written by Mr. Bach.

A feature of the program was the cello selections by Hugo Bach, a son of the composer, while many of the Bach overtures were played by Pestalozzi's string quartet. Al Nitz, musical director of WSOE, and Katherine Kies Hardtke, pianist, also participated.

A tribute to the composer was paid by F. A. Vaughn, manager of the station, while telegrams from many parts of the country were received congratulating Mr. Bach on his birthday.

## FAMOUS ENGLISHMAN CLAIMS **NEW RECEIVER CANNOT BLOOP**

Device Is Product of Three Years' Laboratory Experiments—Does Not Rely on Tuned Aerial -Circuit Details Are Kept Secret

By A. C. Blackall

LONDON, Eng.—A problem which has completely baffled Radio experts the world over for years past—how to do away with the howler or "blooper"—has been completely solved by Sir Oliver Lodge, the world-famous physicist and Radio pioneer.

Sir Oliver's epoch-making discovery will ensure perfect reception without aerial tuning, and will thus avoid the use of regeneration. It will not add to the cost of new sets, but will mean the alteration

Sir Oliver has been working on his grea invention in secret for nearly three year in his laboratory at Egham, Surrey Briefly, his discovery consists of a se which cannot be made to bloop.

Eliminates Tuning He Invented
The change by which this result has been brought about is a comparatively small one, but it is not a change that can easily be incorporated in existing receivers, as these sets are relying on a tuned aerial and must howl when there is to

much regeneration.

Sir Oliver, who introduced tuning to the world, and thus made Radio communication possible without choos, has now taken it away again. By dispensing altogether with the tuned aerial he has abol-

ished blooping.

When Sir Oliver filed papers on his new invention he found, as so often happens, that another man had been working along almost precisely the same lines—a Mr. Melinski. He approached Sir Oliver, and the two are now working as partners, with the interesting result that Mr. Melinski has evolved a supplementary patent of great value.

Invention Will Cheapen Receivers

Sir Oliver's great discovery is k as the "N" circuit. The first set under the new principle is still in of perfection. All tests have been a one tube set.

The invention may not be capplication to crystal sets. On a set only one control—that of system—is required. The "e replaces reaction is control

As regeneration, couple As regeneration, couple'd with tification involves a roya' aty of \$5



MUZIO'S SOPRANO VOICE IS LIKED

Claudio Muzio is one soprano listeners can tune in without fear. They have heard her many times over the air, the most recent occasion being her appearance over the WEAF chain in an Atwater Kent hour. Her chief work is that of leading soprano for the Chicago Civic Opera ompany.



Coy, shy Irene Downing, above, is a much applauded pianist and organist who delights the Crosley WLW audience with her ability. Her artistry is a regular feature of the Cincinnati superpower station.

The feature will continue throughout

KTNT, the Calliaphone station at Musdence club for lonesome men and women of all ages. Excerpts from the letters are read over the air nightly at 9:30 p. m. Central time.

#### WCAU Entertains British Guiana

PHILADELPHIA.—Georgetown, Deme rara, British Guiana, reports successful reception of WCAU, Philadelphia. Besides hearing the Philadelphia station, the listener heard WMBF, Miami, Fla., and relayed WMBF's program to several friends through the Georgetown tele-phone exchange.



## Hugh Fullerton Big Rabbit"

HE Big Rabbit ??????? Hugh Fullerton, famous author, sports expert. and magazine writer hits a new and broader stride in a brand new love story with a powerful romantic theme which will begin in next week's

Radio Digest.

It's a story of the South, but quite different in treatment than anything ever written before of this land of romance. The Big Rabbit deals with negro fanatical superstition, bringing out tragedy and

comedy by turns. Fullerton shows he understands emotions that rise higher than the shouts of the bleachers. He shows that a New York news hound has the same instincts in a maze of alleys or a Florida jungle and can stick to a trail that seems hopelessly baffling. And with love waiting there as an added incentive

Imagine the thrills. There's a leap and a jump on every page, with the life of a beautiful Georgia peach in the balance.

Yes, you'll agree that Hugh Fullerton has a place in the purely fiction field when you read this story which will be found only in Radio Digest. Do not miss the opening chapters in the next issue, April 24.

It won't be long now, until Lorraine Allen, above, is graduated from the University of Arkansas, for she's a senior. Her talent at the piano of KUOA, Fayetteville. Ark., has earned for her the title of "Queen of the Ivories,"

in England, the elimination of regenera-tion will lead to cheaper receivers, as the

other device can be dispensed with. The "N" circuit is simple and cap

of construction by any fan.
Sir Oliver's definite claim for the invention is that it eliminates regeneration control and makes blooping impossible, but at the same time retains the feedback effect, so that the detector tube works with maximum efficiency.

The many tests that have taken place

leave no room for doubt that the device for which everybody is in search has be found. The users of the new set must prepared to make very delicate adjument, and this may be rather trying.

Sir Oliver states that he will sho make known the results of his work

## "Welcome to Pensacola," WCOA

"ONDERFUL CITY of Advantages" Sends Mayor and City Treasurer to Washington When Other Appeals for Wave Allotment Fail. Public Servant Likes Job-Labors for Love.

ture on broadcasting apparatus. All was set for the purchase of a station in October, when it was found that Secretary Hoover had no available wave lengths to allot. The city commissioners were staggered for the moment, but they did not

give up.

The story is well told by Celia Myrover Robinson's magazine, Florida On the Gulf, as follows:

"So Mayor J. Harvey Bayliss and City Clerk John E. Frenkel made a trip to Atlanta, and there met W. Van Nostrand, Jr., supervisor of Radio for the southeastern district, who accompanied them to Washington, where the Florida representatives, Senator Duncan U. Fletcher and Congressman J.

H. Smithwick helped them to get in confer-ence with the powers that be. Permission was granted to the city of Pensacola then to install WCOA-one of the finest broadcasting stations est broadcasting stations in the United States, which three times a week will tell the world about Pensacola, "Wonderful City of Advantages." The magazine itself thrills with the arden of the state of dor of youth and at the same time breathes a dignity worthy of the oldest city in the United

"M ONDAYS, Wednesdays and Fridays, if you will listen, you will hear Pensacola calling . . . to tell the world of this wonderful city of opportunities—a city with the largest naval air training school in the world, the only modern fortifications on the Gulf coast, old and historic forts, the purest water in the United States, the biggest red snapper business in the world and the best port in the South.

"It will tell about the advantages of Escambia county, which has had the greatest increase in farms during

the past few years of any county in Florida; where one man cleared \$2,100 in Satsuma oranges on two and one-half acres of land last fall; where anything in the world may be grown; where the rainfall is plentiful and summer or winter life is a joy."

WCOA took the air during the early part of last

WCOA took the air during the early part of last February, on a 222 meter wave length. It is well equipped with the very latest improvements and makes the most of its 500 watts power.

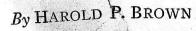
Mr. Frenkel volunteered as public servant to sponsor the station as a city institution. He not only assumed responsibility for its physical well being, but he took charge of the programs. Having a good voice himself, he has not neglected the musical phase of the broadcasting. Others than Mr. Frenkel have taken loc pride in their station and volunteered cooperation with talent so that the entertainments have been diversified and universally interesting with never a dull program

since the opening.

The studio has been carefully constructed with an eye to the artistic as well as the acoustic. The draperies are of a light gray corduroy velvet, plaited and decorated with fringe and tassels. The ceiling is finished in the style of Louis XVI. This is emphasized by the great crystal chandelier, five tiers deep, which scintilates to the four corners of the room. At

one end of the room against the gray background is a plaque with the WCOA letters standing out in clear relief in the dim light. The furniture is finished in burnt-orange and blue with a deep floss rug of blue to match. The piano is a Bald-win Artist Grand.

At .eft are members of 13th Coast Artillery band heard over WCOA. Below is a corner of studio as it appeared on opening night. In lower corner John E. Frenkel, public servant.



see about that," said

Fayl, 'ss (above) as he
ed for W 'ashington for a
e length.
That's why you
are able now to hear Ania O.
Villar (right) six g over w COA.

R. JOHN E. FRENKEL of Pensacola, Florida, is public servant who likes his job so well he isn't satisfied with an ordinary day's work. He officiates as city treasurer and city clerk and after office hours conducts the municipal broadcasting station, WCOA, on his own time.

Don McLellan, city editor of the Pensacola News, says he has been trying to catch Mr. Frenkel at a moment of leisure for the past three months and hasn't succeeded yet. The busy man dashes away from his grapefruit and cereal to be at the city hall when the doors open. He buries his nose in the ledgers until noon, then sends out for coffee and

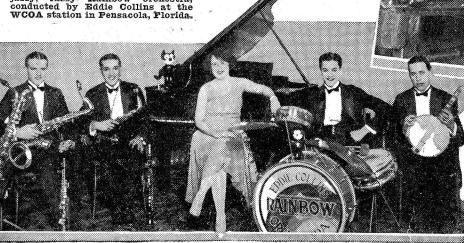
sandwiches and between sips and bites, answers questions from a line of waiting citizens, snatching moments here and there to fill out marriage licenses for blushing applicants.

With Pensacola caught on the crest of the Florida boom, there is no end of work keeping up the city records and making official note of the big real estate deals and new subdivision openings. Pensacola is one of the big cities of the state and has been doing its full share to keep the west coast on an even keel with the east coast.

Along in autumn of last year, it was discovered that Pensacola had no he air realms. This was at once considered a matter for grave concern. The city fathers pondered over the matter and sent for litera-

One of the best known musical features of the WCOA station is the 13th Coast Artillery band from Fort Barrancas. It goes on the air from WCOA twice each month. Then, among the regulars, comes Eddie Collins and his Rainbow orchestra. Miss Anita O. Villar is one of the staff artists who has endeared her voice to a very large audience of listeners. (Continued on page 20)





## WOAW Radiates Brotherhood

OMAHA Station Reaches Out Friendly Hand to All Listeners and Brings Them Together in Air Fraternity. Rev. R. R. Brown Has Radio Congregation Embracing 500,000 Members.

EW broadcasting stations in the United States are so located that they may be heard regularly from coast to coast. One of these stations, however, is WOAW of Omaha. Even through the heat resistor months the WOAW programs are reported back from both coasts. Thus the fundamental purpose of the establishment of the station is achieved.

mental purpose of the establishment of the station is achieved.

Be it known that WOAW is the official mouthpiece of the great faternal order, Woodmen of the World, and is located on that fraternity's skyscraper building in the heart of Omaha.

"World in the globared as much in the last faw WOAW

"Nothing has changed so much in the last few years as the social life of the people," said President William A. Fraser of Texas, as he sat in the WOAW studio revising a speech he had prepared for broadcasting. He is one of those unusual big men who seem to spring up characteristically from the Texas soil. And he has been affectionately titled by his fellow workers "Big Bill Fraser," which seems to please him better than the title of president.

please him better than the title of president.

"With our daughters and sisters growing up to become business women," continued Big Bill, "and with the multiplicity of evening attractions including the automobile, movies, supper clubs and dinner dances taking up the hours of leisure, the home lives have been greatly altered. The kitchenette and the family hotel have taken the places of millions of family homes. The old-time neighborliness and community life seemed to be disappearing.

"All this was not conducive to fraternal growth and so we decided we would take our order to the people through the Radio. Through the Radio we find a great uniting force between vast numbers of people. They meet and become acquainted through the medium of the air. They may never actually see each other physically but they hear the voices and they feel a union of interests in many ways. They are experiencing a reawakening of spiritual interest through our religious services. They enjoy the same amusements and have their Radio clubs."

When Donald B. McMillan, the Arctic explorer, was frozen in on his ship the Bowdoin, eleven degrees

When Donald B. McMillan, the Arctic explorer, was frozen in on his ship the Bowdoin, eleven degrees from the North Pole, about 5,000 miles from Omaha, he sent a Radio message to WOAW saying, "Deeply appreciate your Radio chapel service in behalf of my men shut in near the Pole. Will listen for you again." This was considered one of the very essences of fraternalism through service to fellow men.

ternalism through service to fellow men.

Among the feature activities of Radiophone WOAW, are the World Radio Congregation, and the Bible Study Hour. Every Sunday morning, at 9 a. m., Central Standard time, Reverend R. R. Brown, pastor of WOAW's Radio church, conducts a full service program from the studio of WOAW. His listeners are everywhere, of all types, and each of the members of the congregation is presented with a beautiful certificate, engraved, colored, and signed, upon proof of good character and regular Radio receiving of the services. The outstanding fact of the

Rev. R. R. Brown (below) who conducts church and chapel services from the Woodmen Radio station, said to have the largest congregation in the world. Arthur Randall (right) pianist.



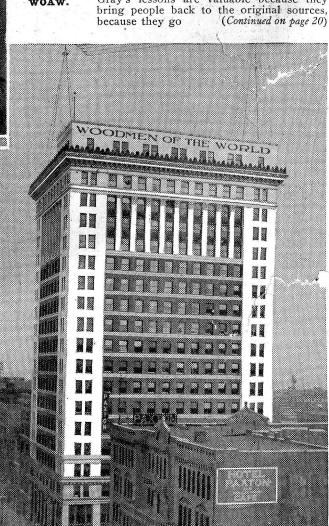


Radio congregation is its interdenominational sect. Reverend Brown is a man selected by Mr. Fraser for his personal integrity and his ability to appear to a varied, cosmopolitan audience. Reverend Brown is one of the most popular preachers in the world. It is impossible to keep account of all the hundreds of gifts which find their way into the studio, from country-fresh eggs to a beautiful new touring car for his trips to rural districts to preach to enthusivastic Radio fans in person.

Mrs. Carl R. Gray conducts the I sible

Radio fans in person.

Mrs. Carl R. Gray conducts the I 3ible Study hour each Sunday at 6 p. m. She, too, conveys to her listeners, the religious idea. But, not as a preacher, not as a controversialist. Her message is that of the scholar, reflective, calm, interpretative, through research and investigation. Mrs. Gray's lessons are valuable because they bring people back to the original sources, because they go (Continued on page 20)



#### **MEAT PIES PROVIDE** CHEAP, SAVORY DISH

ARE TASTY AND DELICIOUS AND YET ECONOMICAL

Miss Betty Crocker Gives Recipe for Dish That Answers Demands of Diet and Pocketbook

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

#### By Betty Crocker

NE reason why meat is such a popular food is because it leaves one with a sure feeling of satisfac-People who are accustomed to eat tion. People who are accustomed to eat considerable meat and are, for some reason or another, deprived of it, are not at all satisfied with other foods. They feel that there is something lacking. There are several reasons for this feeling. First of all, we like the flavor of meat because it is stimulating and appetizing. Furthermore, meat digests more slowly than some other foods. Because of the fact that it remains in the stomach for a longer time, it gives one a comfortable, well fed feeling that is lacking when the diet is made up of foods that do not stay by.

During the war time, we talked a great

During the war time, we talked a great deal about meat extenders. The idea of deal about meat extenders. The idea of a meat extender is to extend or spread the meat flavor so that it flavors other foods and thus satisfies the desire for meat alough only a small amount of meat itself served. Gold Medal meat pie is a good left over dish in which left over meat may be used. It is an economical dish as it is prepared with a cheap cut of meat and it makes a little bit of meat go a long way.

#### WORLD'S GREATEST WOMAN WRITER



At home, Dr. Selma Lagerloef, famous Swedish woman known as the world's fore-most woman writer and winner of the Nobel prize, is just the same as any other woman. She is an ardent listener and has several Radio receivers in use at her beautiful home at Vaermland, Sweden.

spoils our desire to try those particular dishes. Usually the economical dishes sound uninteresting but that is not always true. Meat pie fills all of these requirements and yet is by no means an uninteresting dish. It is so tasty and delicious that I make it often because I like it and because every one likes to eat it. It is a satisfaction to have a dish you really like to make and serve which will at the same time answer all the demands of the diet and the pocketbook. This is the recipe:

One small onion, 4 stalks celery, 6 tablespoons meat drippings, 2 pounds of beef or veal, a cheap cut, 2 teaspoons salt, ½ teaspoon pepper, 1 cup cooked macaroni (about ½ cup uncooked), 2 cups cooked diced carrots, 2 cups peas, 5 tablespoons Gold Medal flour. A baking powder biscuit dough is made of 2 cups Gold Medal m akes a little bit of meat go a long way.
The mere mention of meat extenders spoons baking powder, 1 teaspoon salt, an d economical dishes sometimes rather

""" to be a little bit of meat go a long way.
The mere mention of meat extenders spoons baking powder, 1 teaspoon salt, an d economical dishes sometimes rather

Method: Dice and brown the onion and celery in 1 tablespoon of meat drippings. Add the meat and sear well. Cover with Add the meat and sear well. Cover with water. Add salt and pepper and let simmer until tender. Remove meat from liquid and cut in small pieces. Add cooked macroni, carrots and peas. Make a gravy by combining 5 tablespoons of the meat drippings with 5 tablespoons of flour. Mix to a paste and cook well. Add the liquid from the meat and cook 10 minutes. Place the meat and vegetable mixture in a buttered baking dish. Cover with gravy. Make the baking powder biscuit dough, roll out and cut with a biscuit cutter. Place biscuits on top of meat and gravy. Bake 20 minutes in a hot oven, 450°F. This amount will make ten servings.

Some of the fat may be cut from the

Some of the fat may be cut from the meat for the drippings, or you may use other meat drippings. If there is very (Continued on page 17)

#### SHORT WAVES

- By Marcella

Ann would know more of her favorite announcer, George Hay of WSM. Is he married? Any family? Or what have you? Speaking from a long acquaintanceship, Ann, I can truthfully say that he is—married. If you are still interested, read on. Family? I think so, but don't know how big. He is a tall, gangling, goodnatured philosopher around thirty years old. His hair is dark brown, complexion sallow and his eyes—funny I can't recall the color after having "looked into them wistfully" so often—are greenish-gray, I think. One of the highest tributes I can pay him, exclusive of telling you that he won the Radio Digest Gold Cup Award in 1924 is to say that he is a good novel. in 1924, is to say that he is a good newspaper man. He writes as interestingly as he announces, and his little feature stories and sketches always contain that inimitable twang of personality that means George Hay.

Who are "Sam 'n' Henry" ask not less than a score of listeners, who range, I should judge from their letters, all the way from grand old Civil War vets to ultra-modern sheiks and shebas. Marcella knows, 'deed I do, but I'm bound by an awful oath not to give them away. That would spoil the whole act. It's the mystery of their identity that gives you about half the "kick" you get from their programs, and I wouldn't cause you to lose that for the world. No, sirree, especially not after Quin A. Ryan, WGN's smiling director, has threatened to tell the world who I am if I let the "cat out of the bag" about Sam and his "genneman fren." Doan argue wiff de genneman ... doan argue wiff 'im.

I hereby offer a reward of one sweet cookie to the young or old boy or girl friend who can give me last-minute and definite information concerning the total disappearance of Gene Rouse, ex-WOAW. He is wanted on the air by many good friends, but poor Marcella doesn't know where to begin to start. Come on, Gene, make them quit writing me!

(Continued on page 17)

#### WOMEN'S PROGRAMS INDEX

Saturday, April 17

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

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

11 10 9 8

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

WHT (399.8m-750kc) Women's club, Jean Sargent,
12 n. 11 10

WGN (302.8m-990kc) Household hints.

WQJ (447.5m-670kc) Home Economics program;
"Fruit Salads." Character readings.
12:30 p.m. 11:30 10:30 9:30

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

KYW (595.4m-560kc) Table talk.

1 12 n. 11

KGW (591.5m-610kc) Household helps, shopping uide. Saturday, April 17 

Monday, April 19 Eastern Central Mountain 9:30 a. m. 8:30 a. m. 7:30 a. m. WWJ (352.7m-850kc) Tonight's dinner. 9:30 a. m. 8:30 a. m. 7:30 a. m. 6:30 a. m.

WWJ (352.7m-850kc) Tonight's dimer.

10 9 WTAG (268m-1120kc) Marjorie Woodman, nurse.

10:50 9:50 3:50 7:50

WMC (499.7m-600kc) Home economics discussion,

Miss Kitty,

11 9 8 WEAR (389.4m-770kc) Home service talk,

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

11:30 9:30 8:30

WTIC (475.9m-630kc) Housewife's forum.

11:45 9:45 9:45 6:45

WCCO (416.4m-720kc) "The Cakes Crowning

Glory," Betty Crocker. WDAF (365.6m-880kc),

WHT (399.8m-750kc) WJAR (305.9m-980kc)

Home service talk, Betty Crocker.

12 n. 11

WGN (302.8m-990kc) Home Economics program.

"Tropical Nuts," Maude Jacobs. "Baking,"

Cleve Carney.

WSWS (275.8m-1090kc), Style shop.

12:30 p. m. 11:30 10:30 9:30

WEBH (370.2m-810kc) Fashion and household talks.

12:35 11:35 10:35 9:35

Flower society.
WSOE (246m-1220ke) Cooking chats. WIP (508.2m-500kc) Market hints for housewives.
WJZ (454.3m-660kc), "Your Daily Menu," Mrs.
J. Heath. WJZ (454.3m-660kc), "Your Daily Menu," Mrs. J. Heath.
WOC (483.6m-620kc) Home management schedule, Aunt Jane.
WJJ (447.5m-670kc) "Educating the Taste of Finicky Folks," Helen Downing. "The Care of the Skin and Hair," Madame Huntingford. 4:15
WJZ (454.8m-660kc) Flower Making Course, Doris Clark.
4:25 3:25 1:25 Work Office Course, Developing Service.
425 425 3.25 1:25
WIZ (454.3m-660kc) Shopping service.
5 4 3
KMOX (280.2m1070kc), Housewives' hour.
WOI (270.1m-1110kc) "A Sure Supply of Garden Cut Flowers After Midsumer."
5:15 4:15
KYW (535.4m-560kc) "Chasing a Pot Roast with a Bow and Arrow," John Cutting. Eastern Central Mountain Pacific 9 p. m. 8 p. m. 7 p. m. 6 p. m. WHA (535.4m-560kc), "How Play Educates Children," E. Hoyt. 12:15 a. m. 11:15 10:15 9:15 KGO (361.2m-830kc) "Foods, a Necessary Factor," Dr. W. Lucas. Tuesday, April 20

Eastern Central Mountain Pacific 9:30 a. m. 8:30 a. m. 7:30 a. m. 6:30 a. m. WWJ (352.7m.850kc) Tonight's dinner. (0 9 8 7 KDKA (309.1m.970kc) Domestic Science. Arts for the Housewife.
WIP (508.2m.590kc) Menu, Anna Scott. 10:45 7:45
WTAG (268m-1120kc) Talks to Mothers, Rosebelle Jacobus. 10 9 8 WEAR (389.4m-770kc) Home service talk. WHT (399.8m-750kc) Women's club, Jean Sargent, WMCA (340.7m-880kc) Home makers' hour. 11:30 10:30 9:30 WOI (270m-110kc) "Use of Family Leisure." Ruth Lindquist. "Canned Goods," Ruetta Blinks. 

## Wednesday, April 21

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

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

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

WEAF (491.5m-610kc) WFI (394.5m-760kc) Gold Medal service talk, Betty Crocker.

WHAG (268m-1120kc) Talk to Housewives, Mrs. Lydia Flanders. 11

11 10 9 8

WHT (399.8m-750kc) Women's club, Jean Sargent. 11:45 9:45 9:45 8:45

WCCO (416.4m-720kc) "Spring Styles in Menus," Betty Crocker.

WDAF (365.6m-820kc) WHT (399.8m-750kc), WJAR (305.9m-980kc) Home service talk, Betty Crocker.

Eastern Central Mountain Pacific 12 noon 11 a. m. 10 a. m. 9 a. m. WGN (302.8m-990kc) Household hints. WQJ (447.5m-670kc) Home Economics program, "Why Babies Cry," Lena Sadler; "More About the Pressure Cooker," H. West. "Corrective Diets for Spring Fever," Marie Johnson. 12:10 p. m. 11:10 (0:10 9:10 WSWS (275.8m-1090kc), "Counsel for Housewytes." 12:30 11:30 10:30 9:30 WEBH (370.2m-810kc) Fashion and household

Thursday, April 22
Eastern Central Mountain Pacific
9:30 a. m. 8:30 a. m. 7:30 a. m. 6:30 a. m.
WWJ (352.7m-80ko) Tonight's dinner. WWJ (532.7m-\$508c) Tonight's dimer. 7

WIP (508.2m-5908c) Menu talk. 10:45 9:45 8:45 7:45

WTAG (268m-1120kc) Marjorie Woodman, nurse. 10:30 9:50 Ms. 10:40 7:50

WMC (499.7m-6008c) Home economics discussion, Miss Kitty. 10 9 8

WEAR (491.5m-6108c) Talks, cookery lecture. WEAR (389.4m-7708c) Home service talk. 11:30 9:30 8:30 8:30

WHT (399.4m-7508c) Women's club, Jean Sargent. WOI (270m-11108c) "Laundry Equipment," Mirian Rapp. "The Shoe Family." 12 n. 12 n. 10 10 9 10:30 9:30 8:30

WGN (302.8m-9908c) Household hints. WQJ (447.5m-6708c) "Ready-to-Serve Meats," Erna Bertrams. "Cooking Talk," Bertha Harris. 12:30 p. m. 11:30 10:30 9:30 8:30

WEBH (370.2m-8108c) Household and fashion talks. 12:35 11:35 10:35 9:35 4 3 3 2p.m. Ip.m.
WJZ (454.3m-660kc) Heath.
WOC (483.6m-620kc) Home management schedule,

Aunt Jane.

WQJ (447.5m-670kc) "A Yellow and White Lunchcon," Helen Downing. "The Style Trend for Summer," Lillian Krauter.

KFAB (340.7m-880kc) "The University and the Home."
WTIC (475.9m-630kc) Housewives' forum.
WDAF (365.6m-820kc), WEAR (389.4m-770kc),
WJAR (305.9m-980kc), Betty Crocker's Home service talk.
11.45 [0:45] 9:45 [3:45]
WCCO (416.4m-720kc) "Gold Medal Dishes Men Like," Betty Crocker.
12 n. 11 [0] 9
WGN (302.8m-990kc) Household hints.
WQJ (447.5m-670kc) Sunday Dinner Menu, Ted Wilmes.
12:15 p. m. 11:15 [0:15] 9:15 Wilmes. 12:15 p. m. 11:15 10:15 KYW (535.4m-560kc) Meat talk. 9:15 12:30 11:30 10:30 9:30 WEBH (370.2m-810kc) Household and fashion talks.

VGN (302.8m-990ke) Discussion of fashions.

12:35 10:35 9:35

KYW (535.4m-560ke) Table talk, 1:45 10:45

WOAW (526m-570ke) Sunshine Sunday dinner menu. WCCO (416.4m-720kc) "How I Plant My Seeds." 3:15 Plant My Seeds." 1:15 Plant My Seeds." 4 3 3.15 Plant My Seeds." 1:15 Plant My Seed WJZ (454.3m-660kc) "You'r Daily Menu," Mrs. J. Heath. "They Are Wearing," Suzanne Brown. WOC (483.6m-620kc) Home Management, Aunt Jane.
WGJ (447.5m-670kc) Home Economics program.
"Dinners for Housecleaning Week," Helen WQJ (447.5m-670kc) Home Economics program.

"Dinners for Housecleaning Week," Helen
Downins. Electric Refrigeration. "Fifty is the
Danger Mark," Catherine Spengler.

4:25 3:25 2:25 1:25
WIZ (454.8m-660kc) "Solving Candy Problems."

4:30 2:30 1:30
WFAA (475.9m-630kc) Homemakers program.

WMAQ (447.5m-670kc) Fobbles of the Moment.

5 4 1:5 3:15
WMAQ (447.5m-670kc) Housewives matinee.

6:15 4:30 3:30 2:30
KOA (322.4m-930kc) Housewives matinee.

6:15 5:15 4:15 3:15
KOA (322.4m-930kc) Fashion review.

10:30 9:30 8:30
KWSC (348.6m-860kc) "Color in a Girl's Room."

Gladys Gallop.

KMOX (280.2m-1070kc) Housewives' hour.

## ie TAIRS

Synopsis of Preceding Chapters

Synopsis of Preceding Chapters

In the first four episodes of "A step on the Stairs," which are now available for 25 cents in a special reprint, we find a group of a dozen members of the Turner family in the hunt-room of the old Turner manse. They are nerve-strained and very jumpy as the result of a number of weird incidents connected with the attempted seance whereby Peleg Turner, the last of the house to die, attempts to speak from beyond the grave through a Radio loud speaker and tell them who killed his brother. Jeremiah. Ardwyn, the lawyer, presides. Mary Williams seems to be involved in most of the strange events, and the finger of suspicion is pointed at her by Aunt Helen, a gabby old widow; Cousin William companion to Aunt Helen; Hazel Stanton, a girl whose relation to the family does not seem entirely clear, and Henry Graves who offers his protection by marriage. His offer is spurred. In the last episode John Carton, apparently Mary's accepted lover, appears in the room after the others have left for refreshments in another part of the house. Mary had fainted when she thought she felt the corpse of Peleg Turner entering the room through the front door, supposed to be barred except for the passage of the dead bodies of Turners going to their final resting place. Ardwyn left to get be a sedative. Hari Singh, the East Indian service of the party. The servant lets Carton out a side door of the crime, is about to be trapped by other members of the party. The servant lets Carton out a side door of the crime, is about to be trapped by other members of the party. The servant lets Carton out a side door of the crime, is about to be trapped by other members does not be a subjection of the crime, is about to be trapped by other members of the party. The servant lets Carton out a side door of the party. The servant lets Carton out a side door of the crime, is about to be trapped by one had a sudden to the subjection of the party. The servant lets Carton out a side door of the party. The servant lets Carton of him

#### CHAPTER FIFTEEN

The Itinerant Corpse

HE bewildered men and women who ranged against the rear wall of the hunt-room with their hands in the air and their glassy eyes turned full into the searchlight would have been hard put to decide whether this place of horrors was more forbidding in the unpubed shedow. forbidding in the unplumbed shadows or in fearful brightness such as this. Every face was ghostly in the light that fell upon them through the door whence had been carried the bodies of the dead Turners in their century-old parade to the graveyard. Highlights stood out boldly. But back in the corners the fearsome shadows were still undispersed—a little blacker, perhaps, a little more terrifying than before terrifying than before.

Men were moving in the snow beyond

the front door—state troopers in uni-form, a city policeman or two, and deliberate, squarely carved men in over-coats who looked as if they might be detectives. Inside the room in the twilight at the edge of the glare moved a trooper captain and a lieutenant. Their interest seemed to be centered on two figures in the foreground—Henry Graves and a roughly dressed stranger who stood

"Has Mr. Everett come yet?" inquired

Has Mr. Everett come yet. Industry the captain.

"Coming," boomed a voice from the doorway. "What have we got, so far?" A man in civilian clothing but apparently high in authority slipped into the

"Hard to say just what we have got," replied the captain. "There's 'Doggy' French out there in front but I can't tell yet just how many of our customers are victims and how many principals."
"Bring the trouble-light in out of the car," suggested Everett. "It's got thirty

wire on it-ought to reach easily.

trooper carried out the order. He laid the wire close to a corner of the doorway and hung the lamp to a corner of the fireplace and turned it on.
"That'll do," observed Everett cheer-

fully. "Captain, your men will take the posts assigned to them. Ask the two federal men to step in here and we'll close the door. It's too chilly for any comfort."

In a moment, before the wide-eyed spectators could guess how it had been

## By ROBERT J. CASEY

Radio Dramatization by FRED SMITH

Illustrations by HILMER C. OLSON

done, the front door had swung shut once more as if to close out its hideous secrets. Two oaken bars lay across it, incontrovertible evidence that it had never been opened. But from somewhere beneath it wound a green wire, the lamp cord that furnished the battery current for the light on the mantlepiece.

SEARCH the company for weapons, Captain Phelps," directed Everett. And he stood eyeing the crowd critically as this ceremony was in prog-

"No weapons," the captain reported.
"I took the pistols from 'Doggy' and his

rook the pistois from Doggy and his pal right after we broke in here."
"Good," said Everett. "Put the cuffs on them and we'll take an inventory...
Ladies and gentlemen you may lower your hands but please remain standing for o moment... Lieutenant Cass, would you mind looking under the table and seeing what's going on thore Some seeing what's going on there. . . Something's moving. . . "

"A man," returned the lieutenant.
Ie's crawling out under his own steam.

"My head is bloody but unbowed," declared the mystery under the table. "Name's Tolliver—or was before I got soaked on the head. Sorry I wasn't up

to welcome the gendarmes."
Tolliver straightened himself, clinging to the edge of the table for support. "Who hit you?" Everett inquired.

"Some prowler in the dark,"
Tolliver told him. "I don't
know just who. But I won't bother to guess now that you've slipped the irons onto Henry Graves. He'll do on any

indictment from arson to mur-"If I had hit you I'd have killed you, you big-mouthed boob," countered Graves ener-

book," countered Graves energetically.
"That's enough of that,
'Doggy,'" Everett broke in.
"And you, Tolliver, who

are you?"
"Everybody asks "Everybody asks me that," Tolliver observed cheerfully. "I'm Maurice Tolliver. That's all there is to it. I came here like a sap without any alias. I stayed here the same way while everybody in the place went cuckoo. And somebody hit me on the head. . By the way. . . This any use to you?" He held out a white me

He held out a white packet which Everett

seized quickly with a sudden ejaculation.

"Where did you get that?" he demanded.

"Down on the floor where I was asleep. When I came to the hovs were digging boys were digging something out of the fireplace and setting fireplace and setting it to one side. Little boxes with hinged tops. I opened one and those packets were inside. ..."
"Well, Mr. Tolliver," Everett said judicially, "That is a packet of cocaine. It completes our evi-

completes our evidence... And I think you will agree with me it makes it doubly imperative that we find out what has been going on here.'

"Here I am," taunted Mary. "Help me doun." Whereupon Tolliver dis-covered her for the first time since the light had been turned on. "Why she's up there on the gun rack," he laughed.

S FOR that you'd better ask Mr. Ardwyn, the gentleman over there near the door. He was in charge of these proceedings until Graves or somebody choked him off."
"We may wait a minute or two until

Mr. Ardwyn feels more like himself.'

Ardwyn stepped forward unsteadily.
"There is no need for delay," he said. "I am attorney for the Turner estate. I was Peleg Turner's counsel during his life. And I called this meeting tonight as I had been directed to do by my client in my last conference with him. I know very few of these people here but I think that all of them—not ex-cluding Henry Graves there—can be identified readily as Mr. Turner's relatives." Everett nodded.

"I knew in advance that there was to be such a meeting," he said. "I feel as you do that we should be safe in taking for granted the innocence of every man and woman in this room. But we have to make investigations.

"These troopers are here—I am here—under orders of the federal narcotic bureau of Portsmouth. It has been evident to us for some time that a cocaine smuggling ring has maintained a headquarters near this house, if not in it. We were warned that they intended to move their supply tonight and I suspect that they were handicapped by your seance. At any rate their attempt to call off the coast guard with a fake SOS did not succeed. So much for that. What we should like to know now is just how many of your party were in this room when the doors were locked."

"We started as twelve-not including Hari Singh who probably will be found standing guard with a shot gun just, outside the hall door. One of our number disappeared and was found out in front with a broken head. That left eleven of us, but when I attempted to count heads in the dark I found thirteen.

teen."

"Funny," replied Everett. "One of the thirteen probably was 'Doggy' French's pal 'Jim.' Then, counting 'Doggy' in his role of Henry Graves as you knew him there ought to be eleven of you standing up there. And I can count only nine."

"You might count me as ten," laughed

a voice from somewhere behind the federal operative.

"Mary Williams," ejaculated Ardwyn.
"I had forgotten her,"
"Where is she?" puzzled Everett.

"Help me down."
Whereupon Tolliver discovered her for the first time since the light

had turned on.
"Why she's up there on the gun rack,"

he laughed.
"Just where I was when Henry Graves

was looking for me," she announced. "Take this pistol, somebody, and help me down.' Henry Graves went white as he looked

at her but he made no comment. The troopers lifted the girl from the rack to

troopers lifted the girl from the rack to the floor and Everett, after an admiring glance, went on with his count.

"Even with this lady accounted for we are two short," he said. "We should muster thirteen including the two prisoners, or eleven without them."

"There's a man unconscious here against the wall," reported Captain Phelps. And as if his words had recalled a forgotten experience Aunt Helen

Helps. And as it his words had recalled a forgotten experience Aunt Helen Holmes began to gasp.

"It slipped my mind," she gasped. "I didn't tell you in the excitement an' all. But there was a corpse lying right there at my feet while all this fighting was going on. That was the thirteenth guest. A corpse..."

A sudden hush came over the company. The nerve weary guests felt as it the finding of a mere corpse would prove an anticlimax after the terrors of the

an anticlimax after the terrors of the an anticlimax after the terrors of the night. The policemen, well ware of the hight. The policemen, well ware of the character of the men they dealt with, knew that sudden death hovered perpetually over houses in which they rested. Captain Cass and Lieutenant Phelps made a hasty search behind chairs and in darkened corners until a sudden halfery from Ardwyn drew them to the recess in the wall against which he leaned. "There is the corner gentlemen" he

"There is the corpse, gentlemen," he said. "Turn it over in the light. . . what?" His calm voice rose to a sudden hysterical shriek. . .
"It can't be! It can't be!" he repeated

dazedly.
"This is the body of Peleg Turner!"

#### CHAPTER SIXTEEN

The Step

RE you sure that's Peleg Tur-

RE you sure that's Peleg Turner?" asked Everett."

"There can't be any doubt of it," declared Ardwyn in an awed whisper. "You don't have to take my word for it. Most of these people here would know. And out there in the hallway is Hari Singh, his servant."

"Hari Singh would be the best witness," decided Everett quietly. "He isn't so likely to be hysterical. And John Carton is out there somewhere. Ask him to come in here."

come in here."

There was a delay of only a moment while an eternity settled on the shoul-ders of Frederick Ardwyn and bent him forward, suddenly an old man. Presently the doors opened and Hari Singh, shot-gun in hand, stepped across the threshold closely followed by John Carton,

"The Sahib Peleg Turner," he gasped incredulously. "And dead. . ."
"Dead? Yes," snapped Everett. "How did you expect to find him? Alive?"

"Who am I to say who have never tried death?" shrugged Hari Singh. "I shall remember always the Sahib Peleg Turner as alive. And death seems so permanent."

"What about it, John?" inquired Everett of young Carton who stood gazing in horrified fixity at the corpse.



"That is undoubtedly my Uncle Peleg," he said tremulously. "We came too late." "But how does it come that he is here?" pursued Ardwyn. "How could they have

pursued Ardwyn. "How could they have brought him here even if they could have had any purpose in doing it?"

"The front door, Mr. Ardwyn," John Carton told him after a plain struggle with his grief. "Peleg Turner came back into this house the same way he went out of it... Through the front door."

"But the door was locked."

ES. . . Locked and barred. I know all that. But it isn't like other doors. One of the Turners was a doors. One of the Turners was a Tory spy and he built the thing as an emergency exit. I discovered the secret the night after Uncle Jeremiah was killed. The whole frame swings in or out of the wall on a pivot hinge. The locks don't mean anything. The legend should have kept anybody from attempting to tamper with it. And now poor old Uncle Peleg comes back through it."

"Then the ghouls who did this thing must still be here," declared Ardwyn with sudden fire. "Who did it?"

"Do you recognize any of these people,

"Do you recognize any of these people, John?" asked Everett.
"Yes, nearly all of them," replied Carres, hearly and of them, replied Carton. "You got two of the worst of them when you put the cuffs on Graves and Jim Teufel. The bulk of the others aren't crooks. . . Hypocrites, perhaps, but not crooks."

"This one on the floor," suddenly inter-rupted Capt. Cass. "I thought it was Gus Marks. But it isn't. This fellow hasn't

"No," said Carton as he leaned over the prostrate figure. "That's not Gus.
"Gus is upstairs waiting for the doctor or the coroner. Hari Singh hit him with the butt of a shotgun when he broke out through the front door earlier in the evening. His pame at this party was Milford. ning. His name at this party was Milford Jones."

Capt. Cass turned the face of the uncon-

Capt. Cass turned the face of the unconscious figure toward the light and aroused a chorus of startled comment.

"I) know him, too," observed John Carton. "This is my sanctimonious Cousin William Caryl and far be it from me to express the hope that wheever put him

out did a good job of it."

Everett suddenly turned from the prostrate William and raised an ear toward the hall door.

"Who's that coming down the stairs now?" he demanded. "Anybody up there besides Gus Marks?"

OR perhaps the tenth time since the old mantel clock had announced midnight a blanketing silence fell over the room. And once more came the echo of the step on the stairs. A creaking indefinable footstep. I followed as always by the tapping that slowly spelled out the fateful message—SOS.

"There are no stairs in that end of the house," John Carton announced suddenly.
"Those sounds originate right here in this

"Those sounds originate right here in this oom. . . Has anybody bothered to open that old cupboard at the end?"

The eyes of the company suddenly shifted and a trooper leaped across the room to the great walnut armoire that Carton's words seemed to have conjured

out of the shadows.
"Stand back everybody while I open the door," commanded the trooper. "No telling what we may find in here." And he drew his pistol as he gingerly turned the key and threw back the front panel on its creaking hinges.

Out onto the floor dropped a reeling gray bundle.

"A man," breathed Mary Williams.

"The man Millis was telling me about," cried Hari Singh. "The man in the gray overcoat who came from the sea."

"If this is another member of the gang

"If this is another member of the gang we have him," reported the captain. seems to be about half smothered."

seems to be about half smothered."
"He's not a member of the gang, Capt. Cass," replied Everett. "That's Tommy Mitchell of the Portsmouth narcotic squad... Frow did he get in there?"
"I guess I locked him in," confessed Mary Williams in a thin startled voice.
"I guess I locked him in."

How did Mary Williams lock Mitchell, a man, in the cupboard and why? How did Peleg Turner's body get into the hunt-room? Who brought it there? The mysterious happenings are approach ing a thrilling climax in next week's installment.

#### Roy F. Thompson Is Named To Succeed Walter Greevy

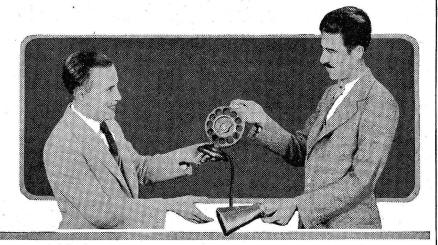
ALTOONA, Pa. — Roy F. Thompson, known to thousands of Radio fans throughout the country as "R. T.," has been named by the directors of the Gable-Tribune Station WFGB, director and general manager of the station as successor to the late Walter S. Greevy. Mr. Greevy was also a director of the National Association of Broadcasters.

Mr. Thompson, prior to his new appointment, was very active in Radio work, not only as chief announcer at the station but he has also appeared on the programs as a vocalist.

#### Charlie Wellman of KFWB Has New KWKH TURNS PIRATE Lingo, Perfected for Microphone Use

Hollywood Announcer Gains Greater Clearness and Is Able to Speak Faster and Remain Distinct Due to His System of Using Only "Mike Words"

HARLIE Wellman, manager of the Warner Brothers station, KFWB, at Hollywood, is generally conceded to be one of the best and popular announcers in the West. Exceptionally



Charlie Wellman, left, manager and announcer of KFWB, who has cultivated his "Radio talk," is here swapping his microphone with William Beaudine, famous movie director, for a megaphone.

fluent in speech, he is at all times distinctly audible and easily gets rid of 150 words per minute while many others in his line of endeavor struggle with about the microphone.

When asked a question he would pause a distinct the microphone. one-third that number.

Mr. Wellman, an enthusiastic and un-

tiring Radio student, does not make any claim to extraordinary culture, but declares his success in announcing is due

to a system of his own, the result of keen observation and constant practice.

Everyone acquainted with the rudiments of Radio is aware that certain sounds do not carry as well as others over the air—the soprano voice, for example —also that certain sounds and words are easily and frequently mistaken for others with sometimes laughable and embarrass ing results.

Carefully taking these facts into consideration, about one year ago, Mr. Well-man decided to experiment and at last thinks he has the basis for a successful system of announcing for Radio. Like the answer to a conundrum, it is very easy when told, and the plan is so simple it is strange it has never been thought of

In speaking before the microphone he uses only three tones of his voice. These three have been selected after long and continual practice as being particularly suited to the mike and of the few tones used that will not blast when spoken, regardless of the volume used. He is also very careful not to employ words that

rate or sound harsh over the air. WDAF, who would Called upon frequently for impromptu pencil and return.

deliberately and not answer until he had framed a reply in his mind that was air proof. The result is that when in the studio, no matter what the occasion, by sheer force of habit appropriate words

come rolling off his tongue.

In Hollywood he is known as the "Man Who Talks Radio"—and what kind of a language is that?

#### STATION WDAF SHOWS MUSIC MEMORIES LAG

#### Less Than Half of Papers Above Fifty Per Cent

KANSAS CITY, Mo.—WDAF, the Kansas City Star's station here, stumbled upon something in a recent program when a music memory contest was presented which developed that almost half of those who wrote in fell below a grade of 50 per cent.

per cent.
Twelve standard numbers were played by the Radio orchestra. The announcer introduced the selections by number only, inviting listeners to jot down the title, composer and country. Then, if they cared to, they might mail their "examination papers" to the "schoolmarm" at WDAF, who would grade them with a red

## AND HIJACKS ZENITH

#### SHREVEPORT JOINS WJAZ ON CANADIAN WAVE

Issues Defy to Department of Commerce After Petition for Increased Power Is Denied

WASHINGTON.—Fire has broken out in a new place among broadcasters who are dissatisfied with the wave length as-signed them by the department of commerce and who have taken the law into their own hands and selected an air chan-

nel more to their liking.

According to reports to the department of commerce, Station KWKH, owned by the W. K. Henderson Iron Works and Supply company, at Shreveport, La., has followed the example of WJAZ, owned by E. F. McDonald, Jr., and is operating on 329.5 meters, which is assigned exclusively to Canadian stations.

#### Both Sides Confident

At the present time there is pending in the Chicago courts a suit against Mr. McDonald for violation of the law in operating on 329.5 meters without authority. The case hinges on the right of the department of commerce to assign wave lengths to stations. A decision is ex-pected on the case within a short time. Legal advisers of the department are confident the case will be won by the government. Mr. McDonald expresses himself as equally confident that the government

will lose.

Before it decided to take matters into its own hands, KWKH operated on 261 meters, with around fourteen other stations. Dissatisfied with its channel, KWKH officials applied to the department KWKH officials applied to the department of commerce for permission to increase its power. The request was denied on the ground that, with higher power, KWKH would drown out the other stations on 261 meters. The inevitable result, according to department of commerce offiicals, would have been that the other stations also would have likewise increased their power in an effort to drown out KWKH. out KWKH.

Await Chicago Decision

No action will be taken on the Shreveport case by the department of commerce
until a decision is made on the Chicago
case. If the department wins in Chicago,
it will almost automatically decide the
case against the Shreveport station. On the other hand, if the department loses in Chicago, it may attempt to reopen the subject by fighting the case over again in the Louisiana courts.

Chief Radio Supervisor W. D. Terrell takes a philosophical view of the situa-

tion.

"If all the bad actors go ahead and operate on 329.5 meters," said he, "It would solve a big problem for us. We could ask the Canadian government to release that wave length and give them another in exchange for it."

To which all the "bad actors" would then shift, no doubt.

Serious as the situation may appear.

Serious as the situation may appear, department of commerce officials believe it will work itself out satisfactorily. In the event of failure to win in the courts, it is believed that congress will take the attitude that additional legislation is absolutely imperative and pass some kind of

## \$500 in Gold

FOR THE SOLUTION OF

## "a Step On the Stairs"

#### REPRINTS NOW AVAILABLE

O MANY people are attempting to win part of the \$500 in Gold prizes which are being offered for solutions to "A Step On the Stairs," a reprint of the first four installments has been printed and installments has been printed and may be had for the nominal charge of twenty-five cents, in coin or stamps, to cover the cost of handling. Address your order to the Mystery Story Editor, care of Radio Digest. The chosen stations, which are broadcasting "A Step On the Stairs," in Radio play form, are given on page eleven. The days and the hours are

eleven. The days and the hours are listed.

#### THE PRIZES

The prizes are seventeen in number. First prize is \$250; second prize is \$100; third to seventeenth prizes inclusive, are \$10 each. In the event of a tie for any prize offered, a prize identical in all respects with that tied for will be awarded to each tying

#### HOW TO WIN A PRIZE

Nine installments of Mr. Casey's story will be published consecutively each week. The first appeared in the February 27 issue. His tenth and final installment will not appear until the prize winning solutions have been selected by the judges. The solution nearest correct, that is, nearest to unraveling the mystery accurately, will win. The method of preparing the solution—its neatness, legibility, etc.—shall be considered.

#### RULES OF CONTEST

1. Solutions must be received not later than midnight of Saturday, May 1. The ninth installment of the story will appear in the April 24 issue. The author's intended and final chapter will appear in the May 15 issue, together with the announcement of the winners' names.

2. The contest is open to everyone except employes of Radio Digest and their families.

3. Contestants pay no fee and need not be subscribers to Radio Digest. Solutions, however, must be written upon one side of paper.

4. The decision of the judges, to be named later, will be final.

#### Moose Call and Paper Join Hands at WJJD

#### Three Old-Timers of Reunite WDAP Fame

CHICAGO.—A local newspaper, the Chicago Evening Post, and the Loyal Order of Moose station, WJJD, recently have effected a cooperative connection which brings three old-time Radio figures back together again.

In the old days of Chicago broadcasting, MDAP, Board of Trade station on the Drake hotel, was a popular favorite and one of the then few stations in the city. Jack Nelson was director, Ralph Shugart was announcer and Paul G. Neal was engineer.

Messrs. Nelson and Shugart became director-announcer and engineer, respectively, of the Moose Station WJJD, when it was built. Mr. Neal recently left Sta-tion WGN, formerly WDAP, to become technical editor of the weekly Post Radio

So with the newspaper and WJJD joining hands, the three men are once more associated in their work.

#### Testing Radio Torpedoes

PARIS.—Secret experiments are being made at present in France of an invention by which it is claimed that the flight air torpedoes can be controlled by Radio.

## BROADCAST PROGRAMS IN ADVANCE

#### Saturday, April 17

Headliners Today

Hawaiian orchestra.

11:10

10:10

KGO (361.2m-830kc) "The County of Luxembourg," performance.

12 m. 11

KYW (535.4m-550kc) Congress Carnival.

12:15 a.m. 11:45

KGO (361.2m-830kc) "A Step On the Stairs," mystery serial.

2 1 a.m. 12 m. 11

KFI (467m-640kc) Frolic.

Saturday, silent night for: CNRA, CNRC, CNRE, CNRM, CNRR, CNRT, CNRV, CNRW, KFKU, KFUO, KFXF, KMA, KOAC, KOB, KSAC, KSO, KTAB, KUOA, KWSC, WABQ, WAIU, WBAL, WCAL, WCX, WDOD, WEAO, WEBJ, WEBW, WEMC, WGBF, WGCP, WGHP, WGST, WHAD, WHAZ, WHN, WHO, WIP, WJAR, WKAR, WLIT, WWWL, WMAZ, WOS, WRVA, WTAG, WTIC, WWJ.

Eastern Time Stations

CNRO, Ottawa, Can. (435.8m-688kc), 8 p. m., Chateau
Laurier dinner concert orchestra; 9, studio program;
old-time favorite ballads, Orpheus singers; Blissa Williamson, soprano; Myrlah Kendall, pianist; Chateau
Laurier dance crchestra.
KDKA, Pittsburgh, Pa. (309.1m-970kc), 6:30 p. m.,
Westinghouse band; 8:30, Westinghouse band; Mary
Louise Jeffrey, planist; Earl Igenner, tenor.

WAHG, Richmond Hill, N. Y. (315.6m-954kc), 12 m.,
novelty program.

WAHG, Richmond Hill, N. Y. (315.6m-954kc), 12 m., novelty program.
WBBR, New York, N. Y. (272.6m-1100kc), 8 p. m., Carl Park, violinist; 8:20, Fred Franz, tenor.
WBZ, Springfield, Mass. (333.1m-900kc), 6:45 p. m., Hotel Kimball dance; 7, Capitol theater orneistra; 7:30, Dr. D. M. Staley, reader; 7:45, Repertory theater concert; 8:15, "Too Many Brothers"; 9:15, Gertrude Cotter, contraito; 9:30, Sylvia Glasser, pianist; 9:45, William Flood, tenor.

Flood, tenor.

WCAE, Pittsburgh, Pa. (461.3m-650ke), 6:30 p. m.,
dinner concert, William Penn hotel; 8:15, Youngstown artists.
WCX, Detroit, Mich. (516.9m-580kc), 6-7 p. m., Gold-

kette ensemble.

WEAF, New York, N. Y. (491.5m-610kc), 4 p. m.,-12
midnight, Vincent Lopez and his orchestra; special WEAR, Cleveland, Ohio (389.4m-770kc), 7 p. m., Hotel Statler concert orchestra; 12, Wormack's Singing syn-

WEAR, Cleveland, Ohio (389.4m-770kc), 7 p. m., Hotel Statler concert orchestra; 12, Wormack's Singing syncopators.

WEEI, Boston. Mass. (348.6m-866kc), 7:10 p. m., Stade's Spice family; 8:10. Boston symphony orchestra; 10, Lucerne-in-Maine quintet.

WFI, Philadelphia, Pa. (394.5m-760kc), 6:30 p. m., Bellevue Stratford concert orchestra; 7. Bellevue Stratford dance orchestra; 8. concert from studio; 11, Bellevue Stratford dance orchestra.

WGBS, New York, N. Y. (315.6m-950kc), 6:30 p. m., Vincent Sorey concert trio; 7:30, Arcadia ballroom orchestra; 8:30, Clifford Cheasley, numerology; 8:40, Richard Finley, tenor; Eleanore Reynolds, soprano; 9. Plectra club; 9:30, Park male quartet; 10:30, Arrowhead Inn dance orchestra.

WGHB, Clearwater, Fla. (265.3m-1130kc), 6:30-7:30 p. m., Gray Moss Inn; 8:30-9:30, program; Bill Ewin, L. W. Joy; 11:45-1 a. m., Ramble, Graham Prince and his orchestra.

WGY, Schenectady, N. Y. (379.5m-790kc), 6:30 p. m., dinner program, WFRI, WHAM; 8:30, Rudy Wiedoeft, saxophonist; 9:30, WJZ; 10:30, dance.

WHAR, Atlantic City, N. J. (275.1m-1990kc), 8 p. m., Seaside hotel trio.

WIP, Philadelphia, Pa. (508.2m-590kc), 6:05 p. m., Benjamin Franklin hotel concert orchestra; 8:15, special concert, Metropolitan Opera House; 10:05, El Patio dance orchestra; 11:05, organ recital, Germantown theater.

WRR, Pontiac, Mich. (516.9m-580kc), 7 p. m., Storm-

ter.

WJR, Pontiac, Mich. (516.9m-580kc), 7 p. m., Stormfeltz-Loveley serenaders; 9, Jean Goldkette's serenaders; 10, Jean Goldkette's orchestra; 11:30, Jewett Radio

feltz-Loveley serenaders; 9. Jean Goldkette's serenaders; 10. Jean Goldkette's orchestra; 11:30, Jewett Radio Jesters.

WLIT, Philadelphia, Pa. (394.5m-760lte), 7:30 p. m., Benjamin Franklin concert orchestra.

WMAK, Buffalo, N. Y. (265.3m-1130ke), 6:15 p. m., dinner music; 7:30-8:30, musicale; 8:30-9, Wolff's Furniture House, Inc.; 9-10:30, musicale; 10:30-11, Teddy orchestra.

WMCA, New York, N. Y. (340.7m-880kc), 6 p. m., Hotel McAlpin string ensemble; 6:30, Parody orchestra; 8:30, Fourth Annual Food Show; 10, Norman Pearce, reader; 10:30, Creole Follies; 11, Hotel McAlpin orchestra; 12, entertainers.

WNYC, New York, N. Y. (526m-570ke), 7:45 p. m., songs; 8, instrumental program; 8:15, songs; 8:30, songs; 8:45, songs; 9, Harriette Weems, "Shake-speare"; 9:15, Beatrice Anthony, piano; 9:45, songs; 10:15, Mounted Police association.

WOR, Newark, N. J. (405.2m-740kc), 6:30 p. m., Jacques Jacobs' Hotel Shelton orchestra; 7:30, Van's Collegians; 8:45, Joseph M. Barnett, baritone; Copenhagen quartet; 9:15, LaErge-Berumen musicale; 10, Joseph Franko, violinist; 10:30, "A Step On the Stairs"; 11, Leon H. Wood, organ recital.

WPG, Atlantic City, N. J. (299.2m-1600ke), 6:45 p. m., Arthur Brook, organist; 7, Hotel Morton dinner musicalist, Million Dollar Pier dance orchestra, Katz and his Kittens; 9, Hotel Ambassador concert orchestra, Elks home.

WOO, Philadelphia, Pa. (508.2m-590ke), 7:30 p. m.

Elks home. **WOO**, Philadelphia, Pa. (508.2m-590kc), 7:30 p. m.,

Adelphia dance orchestra:

WRC, Washington, D. C. (468.5m-640ke), 7 p. m., Hotel
Washington orchestra; 8:25, music; 10:30, Meyer Davis'
Swanee syncopators; 11:30-12, Otto F. Beck, organist.
WREO, Lansing, Mich. (285.5m-1650ke), 6-7 p. m.,
dinner concert, Speed-Wagon serenaders; Gold Standard
ensemble; 10-12, special dance program.
WTIC, Hartford, Conn. (475.9m-630ke), 6:50 p. m., Hotel
Bond tric; 8:30, Zelia S. Nary, contralic; Margaret St.
John, sopranc; 9, studio program; 10:30, Carroll's Palais
Royal dance orchestra.

#### Central Time Stations

CKY, Winnipeg, Can. (384.4m-780kc), 8:30 p. m., studio program; 9, concert; John Harper and his orchestra; Frank Wright's Country club orchestra.

KFAB, Linceln, Nebr. (340.7m-880kc), 5:30-6:30 p. m., dinner concert; 8:30-10:30, artists; 12-2 a. m., orchestra entertainment.

KFNF, Shenandoah, lowa (263m-1140kc), 7 p. m., Scotch concert, E. S. Dodds, director; 11, old-time music.

Among the unlimited supply of beauties which face the mike of KFWB is Doris Hill, above. She is one of the new players of the Warner Brothers.

Shenandoah, lowa (252m-1190kc), 6-7 p. m., lar music; 9-11, pipe organ recital, William

popular music; 9-11, pipe organ recitat, william Howie.

KMOX, St. Louis, Mo. (280.2m-1070kc), 6 p. m., organ recital, Arthur Utt; 6:30, Mrs. Jacques Landree, organist; 7, East St. Louis Chamber of Commerce musicale; 8, orchestra; "Seven Ages of Man"; Frank Maples, Mary Noble, soloists; 9, Herbert Grosskop, baritone; orchestra; 10, dance music, colonel 6121.

KOIL, Council Bluffs, lowa (277.6m-1080kc), 6:35 p. m., McCrory music period; 7:30, Virginia Fair, pianist; KYW, Chicago, III. (535.4m-560kc), 6-6:15 p. m., KDKA;

8. Jean Stirling, pianist; 11, Pow-Wow Randall's Royal Fontenelle orchestra. (296.9m-1010ke), 7:30 p. m., Bible class; 8:30, Frank Tilton, boy pianist; 10:30, Harold Oxley's orchestra. (SD, St. Louis, Mo. (545.1m-550ke), 7 p. m., Grand Central theater; 8:30, Blanch McGregor, contralto. KTHS, Hot Springs National Park, Ark. (374.8m-800kc), 9-10 p. m., Old-Time fiddlers; 10-10:30, New Arlington bodel orchestra.

#### High Lights of the Air

HE TABLOID operetta scheduled by the WGN production company for Saturday evening is Friml's famous musical comedy "The Red Mill." The curtain rises at 8:30 p. m. Central time. Before the microphone will be gathered June Lacey, soprano; Kathleen Ryan, contralto; Frederick Wood, Gilbert Ford, tenors; Bryce Talbot, baritone; and Mark Love, director and bass. In the back-ground will be the WGN studio ensemble.

"Babbit" and "Mainstreet" are two

books which have become associated with midwest American life. The author of these famous novels will talk and answer questions at WHB. Sunday night. Another interesting event of the evening is the Radio debut of the Baltimore Symphony orchestra at WBAL. The concert features national prize-winning compositions of Baltimore composers.

Madame Valentina Tumanskaya, a Russian prima donna teaching music in Memphis, has arranged a classical program to be given Monday evening at WMC. This musicale will be welcomed by fans who enjoyed Madame

Tumanskaya's singing several weeks ago. Monday is a legal holiday in Massachusetts because on this date 151 years ago Paul Revere made his

151 years ago Paul Revere made his significant ride. WTIC will celebrate Patriotic Day with national music. Humor mingles with pathos in the famous balcony scene of Cyrano de Bergerac. On Tuesday evening at 9:30 p. m. Central time Carol Lynn and Dewight Hensen will give this scene at WIP.

A dulcimer made in England in 1784

A dulcimer made in England in 1784 will be presented during the Wednes-day program of WOS, Jefferson City. Miles Carpenter to whom this quaint old-fashioned instrument belongs plays it with skill.

Gaelic music will be presented at KDKA this week during the Thursday half-hour with famous composers. The KDKA Little symphony orchestra will play this interesting folk music under the direction of Victor Saudek.

See Florida from a new angle Friday. Follow the flights of Lieutenant George Pond across this state and learn if possible before buying which parts of Florida are the best for investment. He talks at WEBJ.

6:30-7, Congress hotel orchestra; 7:30-9, home-lovers' hour; 9-10, Congress hotel; 11-12, Congress earnival.

WADC, Akron, Ohio (258.5m-1160ke), 6:30 p. m., Hotel Portage quintet.

WAMD, Minneapolis, Minn. (243.8m-1230ke), 7:05 p. m., Hartman twins, Frank and Ernest; 7:10, popular program, Harmony twins, Fred Roble, Bob Melcher; Bluebirds orchestra.

WBAP, Fort Worth, Tex. (475.9m-630ke), 6-6:30 p. m., dinner music; 9. Hired Hand little symphony.

WBBM, Chicago, Ill. (225.4m-1330ke), 8-2 a. m., Alemite orchestra; old-fashioned songs; Barber shop quartet; Two Jays; Charife Garland; Ariston tric; war songs.

WCGO, Minneapolis-St. Paul, Minn. (416.4m-720ke), 6:15 p. m., dinner concert, Wesley Barlow's Nicollete hotel orchestra; S:15, musical program; 10:05, dance program, Emmet Long's Golden Pheasant orchestra.

WDAF, Kansas City, Mo. (365.6m-820ke), 6-7 p. m., School of the Air; organ music; Trianon ensemble; 8:10, Around the Town with WDAF, popular music; 11:45-1 a. m., Nighthawk frolic.

WEBH, Chicago, Ill. (370.2m-810ke), 7-8 p. m., Oriole orchestra; James Murray, tenor; Kay Ronayne; marimba band; 11, Oriole orchestra; James Murray, tenor; Kay Ronayne; marimba band; 11, Oriole orchestra; James Murray, tenor; Kay Ronayne; marimba band; 11, Oriole orchestra; James Murray, tenor; Ray Ronayne; marimba band; 11, Oriole orchestra; 12, James Murray, tenor; 1 a. m., Frank Greif, songs; 2, trombone duo.

WENR, Chicago, Ill. (255.3m-1130ke), 6-7 p. m., Rauland Irolic.

WFAA, Dallas, Tex. (475.9m-630kc), 6:30-7:30 p. m.,

lyric trio; 9-10, All-American Pioneers; 12-2 a. m., frolic.

WFAA, Dallas, Tex. (475.9m-630kc), 6:30-7:30 p. m., Jimmie Joy's orchestra; 8:30-9:30, Woodmen of the World program; 11-12, Jack Gardner's orchestra.

WGN, Chicago, Ill. (302.8m-990kc), 6:35-7 p. m., Drake concert ensemble, Blackstone string quintet; 8-8:10, Auld Sandy; 8:10-8:30, Drake concert ensemble, Blackstone string quintet; 8:30-9:30, "Red Mill"; 9:30-10, old-time prize fight; 10, Sam 'n' Henry; 10:10, old-time favorites; 10:20, play shop; 10:40-11, studio ensemble.

old-time prize fight; 10, Sam 'n' Henry; 10:10, old-time favorites; 10:20, play shop; 10:40-11, studio ensemble.

WHAS, Louisville, Ky. (399.8m-750ke), 7:30-9 p.m., concert, Town club, Louisville Conservatory of Music. WHT, Chicago, Ill. (399.8m-750ke), 6 p.m., Al Carney, organist; 6:30-7:45. Rayner Dalheim ortenstra; (238m-1260ke), 7:45-9:15. musical features, Cinderella cafe orchestra; (399.8m-750kc), 9:30, Kitchen Klenizer program; 9:50, popular; 10:30, Cinderella cafe orchestra; (399.8m-750kc), 9:30, Kitchen Klenizer program; 9:50, popular; 10:30, Cinderella cafe orchestra; 12, Your Hour league, Pat Barnes and Al Carney. WIBO, Chicago, Ill. (225.4m-1330kc), 6-8 p. m., dinner concert; Maria Fay, soprano; Hazel McBroom, contralto; Christopher Hendra, tenor; string trio.
WIAZ, Chicago, Ill. (322.4m-930kc), 9-2 a. m., dance program, Opera club.
WIJD, Mosseheart, Ill. (370.2m-810kc), 5:30-7 p. m., dinner hour; 8-9, Palmer House Victorians; 10-11, Palmer House Victorians; Jack Nelson.
WKAF, Milwaukee, Wis. (260.7m-1150kc), 8:30-9:45 p. m., Hi Coleman's orchestra.
WKRC, Cineinnati, Ohio (422.3m-710kc), 10 p. 126, Ace Brigode and his Virginians; 10:30, studio features; 11, Sam Jones, mouth harp soloist, guitarist; 11:15, Ace Brigode and his Virginians; 10:30, studio features; 11, Sam Jones, mouth harp soloist, guitarist; 11:15, Ace Brigode and his Virginians.
WLIB, Chicago, Ill. (302.8m-900kc), 7:30-8 p. m. musical program; 11:11:20, Correll and Gosden; 11:20-12:30 a. m., studio ensemble, dance music, harmony duos.
WLS, Chicago, Ill. (344.6m-870kc), 7 p. m., organ recital, Johanna Grosse; 7:30, Sekatary Hawkins Radio club; 8, Laughing John Meyer's band; 8:30, "A Step On the Stairs"; 9, Castle Farm dance orchestra.
WMAQ, Chicago, Ill. (447.5m-670kc), 6 p. m., theater organ; 6:30, Sheetz's Hotel La Salle orchestra; Chicago, theater Radio revue.
WMBB, Chicago, Ill. (449.5m-1200kc), 7-8 p. m., Trianon ensemble; Edwin House, baritone; Franklin Kidd, tenor:

WMAQ, Chicago, III. (447.5m-670kc), 6 p. m., tneater organ; 6:30, Sheetz's Hotel La Salle orchestra; Chicago theater Radio revue.

WMBB, Chicago, III. (249.9m-1200kc), 7-8 p. m., Trianon ensemble; Edwin House, baritone; Franklin Kidd, tenor; 9-11, Trianon orchestra; Woodlawn theater orchestra; ensemble; Willie Horowitz, Jimmy Eggert, Andy Anderson.

WMC, Memphis, Tenn. (499.7m-600kc), 8:30 p. m., Memphis Plectrum orchestra.

WOAW, Omaha, Nebr. (526m-570kc), 6:15 p. m., Herb Feierman and his orchestra; 8, "A Step On the Stairs"; 9, de luxe; 10:30, Frank Hodek and his Nightingale orchestra.

9, de luxe; 10:30, FTANK HOGEK AND INS NIGHLINGARE orchestra.

WOC, Davenport, lowa (483.6m-620ke), 9-10 p. m., Davenport Industrial commission; 11-12, LeClaire hotel orchestra; Peter MacArthur, Scotch bartione.

WOK, Chicago, III. (217.3m-1380kc), 10-1 a. m., Tearney's Town Club orchestra; Carl Lorraine's Pershing Palace orchestra; Midway orchestra; Capitol theater program; 1-2, frolic.

WOOD, Grand Rapids, Mich. (241.8m-1240kc), 9-1 p. m., quartet; Henry Rose, Simon Walters, Jeef Bos, Bill Dice; violin solois; 10-12, Roy Clark, F. Jeffery, Harold DeWindt, Bill Dallavo and his orchestra.

WORD, Batavia, III. (275.1m-1900kc/, 7 p. m., Webster hotel concert; 9, studio program.

WORD, Batavia, III. (275.1m.1090key, 7 p. m., Webster hotel concert; 9, studio program.
WQJ, Chicago, III. (447.5m.670ke), 7-8 p. m., Rainbo Gardens orchestra; quartet; 10-3 a. m., Skylarks; Rose Vanderbosch, soprano; Clarence Theders, tenor; Joe Warner, character songs; Oxford Girls; Rita McFawn, Mary Bieber, harmony duo; West Brothers; Gail Bandell, Radio Sunshine Girl; Melodians.
WSOE, Milwaukee, Wis. (245.8m.1220ke), 8:30 p. m., uniform Sunday school lesson; 9, Nick Blumenberg, violinist; Emil Cords, pianist; E. Erving, baritone; Al Nitz, tenor; Pauline Volz, soprano.
WRR, Dalas, Tex. (245.8m.1230kc), 6-7 p. m., dinner hour orchestra; 8-9, Cecilian music club; 12-1, organ recital.

hour orchestra; 8-9, Cecilian music club; 12-1, organ recital.

WSAI, Cineinnati, Ohio (325.9m-920kc), 7 p. m., chimes; 7:15, WEAF; 8:45, Bicycle Playing Card sextet; 12, Freda Sanker's orchestra.

WSM, Nashville, Tenn. (282.8m-1060kc), 6:30 p. m., Francis Craig's connect orchestra; 8, barn dance program, features.

WSUI, lowa City, lowa (483.6m-620kc), 7:30 p. m., Mrs. Mildred B. Paddock, artists.

WSWS, Chicago, Ill. (275.8m-1090kc), 6 p. m., Chicago serenaders, mixed quartet; Helen Elliott, soprano; Jame. de Young, tenor; 8, Samovar orchestra; Jean Duncan, contratio; Ruth Burnell, planist; Hugh Asphwall, reade and tenor; 10, Scott and his Novelty Hawaiian orchestra; Zola Haynes, planist; Oxford girls, harmony; Jack Ford, uke soloist; ballads, John Clark; Samovar orchestra; 12, Samovar orchestra; Magorie Lee, pianist.

Mountain Time Stations

Mountain Time Stations

KFWA, Ogden, Utah (260.7m-1150kc), 9-10 p. m., Olic
Reeves and his dance orchestra; 10-11, music, Paramount theater; 11-12 midnight, Olic Reeves and his
dance orchestra.

KFXF, Colorado Springs, Colo. (249.9m-1200kc) 9 p. m.,
Russ Kemp's dance orchestra.

Russ Kemp's dance orchestra.

KOA, Denver, Colo. (322.4m-930kc), 9 p. m., Harmony
Peerless orchestra; 10:30, Scheuerman's Colorado or-

Pacific Time Stations

KFI, Los Angeles, Calif. (467m-640kc), 7-8 p. m., dance music; 8-9, classic hour; 9-10, varied program;

dance music; 8-9, classic hour; 9-10, varied program; 10-11, Packard Radio club; 11-3 a. m., KFI midnight frolic.

KFOA, Seattle, Wash. (454.3m-660kc), 7-8 p. m., musical program; 8:15-9:30, Pacific N. W. program; 9:30-11, Jackie Souder's Club Lido Serenaders.

KFON, Long Beach, Calif. (232.4m-1280kc), 7-7:30 p. m., studio program; 7:30-9, Long Beach Municipal band; 9-11, KFON artists' frolic, Helene Smith, Ericson Sisters; 11-12, State theater organ.

KFWB, Hollywood, Calif. (252m-1190kc), 6:30-7:30 p. m., Pontiac Six dinner hour music; 8-9, Electromae; 9-10, studio program; 10-11, Warner Brothers frolic.

frolic.

KGO, Oakland, Calif. (361.2m-830kc), 8:10 p. m., "The
Count of Luxembourg," opera in two acts; 9:45. "A
Step On the Stairs," mystery serial, eighth episode;
10-12, dance music, Madson's Midshipmen.

KGW, Portland, Orc. (491.5m-610kc), 6-7 p. m., Olds,
Wortman and King company; 10-12, Indian grill.

KHJ, Los Angeles, Calif. (405.2m-740ke), 8-10 p. m.,
Tower studio feature program.

### WGN TO GIVE OPERETTA "RED MILL"

#### Saturday, April 17

KJR, Seattle, Wash. (384.4m-780ke), 8:30-10 p. m., Warner company studio program, artists. KMTR, Hollywood, Calif. (238m-1260ke), 6-7 p. m., Star Piano company studio; 8-10, KMTR concert orchestre.

orchestra.

KNX, Hollywood, Calif. (336.9m-890ke). 6:30-7 p. m., Atwater Keht concert orchestra; 7:30-8, popular program; 8-9, program, John A. Vaughn corporation; 9-10, W. W. Rainey organization; 10-11, Ambassador hotel dance orchestra; 11-2 a. m., Hollywood night.

KPO. San Francisco, Calif. (428.3m-700kc), 8-11 p. m., Fairmont hotel dance orchestra; Maurice Gunsky, tenor; Merton Bories, pianist; 11-12, Henry Halstead's orchestra.

KPSN, Pasadena, Calif. (315.6m-950ke), 8-9 p. m. Star-News concert hour; 9-10, dance orchestra.

#### Sunday, April 18

Headliners Today Eastern Central Mountain 1 6 p. m. 5 p. m. 4 p. m. 3 WEAF (491.5m-610kc) "Merchant of Venice 

Sunday, silent night for: CFAC, CHIC, CKAC, CKNC, CNRA, CNRC, CNRE, CNRM, CNRO, CNRR, CNRT, CNRY, CNRW, CNRW, KFAB, KFAU, KFOA, KFWA, KFXK, KLX, KMA, KMTR, KOAC, KOB, KOWW, KSAC, KSO, KWSC, WABQ, WAHG, WAIU, WCAU, WDAF, WEAO, WEBJ, WEBW, WFI, WGBF, WGHB, WGHP, WHAS, WHAZ, WIP, WIAZ, WJJD, WJR, WKAF, WKAR, WMAQ, WMAZ, WMC, WNYC, WOI, WOOD, WRC, WRVA, WSB, WSM, WTAM.

#### Eastern Time Stations

CHIC, Toronto, Can. (356.9m-840ke), 5 p. m., organ recital, Central Technical school; George Graham, or-

recital, Central Technical school; veorge Graman, organist.

KDKA, Pittsburgh, Pa. (309.1m-970ke), 11 a. m., service;
4 p. m., Dr. Charles Heinroth, organist; 4:45, vesper;
6:30, dinner concert; 7:15, chimes; 7:45, church service.

WBAL, Baltimore, Md. (245.8m-1220kc), 6:30-7:30
p. m., WBAL concert orchestra; 8:30-10:30, Baltimore
Sympiony orchestra; Hilda Hopkins Burke, soprano;
Amy Neill, violinist; Castelle vocal ensemble.

WBBR, New York, N. Y. (272.6m-1100kc), 10 a. m.,
Watchtower instrumental trio; 10:35, Fred Twaroschk,
tenor; I. B. S. A. choral singers; 2 p. m., Watchtower orchestra; Fred Twaroschk, tenor; 9, Watchtower violin choir.

WBS Sminafield. Mass. (333.1m-900kc), 10:45 a. m.,

tower orchestra; Fred Twaroschk, tenor; 9, Watchtower violin choir.

MBZ. Springfield, Mass. (333.Im-900kc), 10:45 a. m., Church of the Unity; 6 p. m., Golden Rule hour, Ary Duffer, violinist; Alexander Blackman, violist; George Brown, cellist; Hans Ebell, pianist; 7, Copley Plaza erchestra; 8. Unity quartet; 9, Spalding sextet.

WCAE, Pittsburgh, Pa. (461.3m-650kc), 4 p. m., WEAF; 6:30, dinner concert, William Penn hotel; 7:30, WEAF; 9:15, WEAF. WCAP, Washington, D. C. (468.5m-640ke), 11 a. m., E. Viphany Episcopal church; 4 p. m., Bethlehem chapel; 7:20-215, WEAF; 9:15-10:15, WEAF.

WCAU, Philadeipnia, Pa. (277.6m-1080ke), 11 a. m., First Unitarian church; 5, recital; 5:15, Undenominational church services; 5:25, talk, Rev. John W. Stockwell; 6:45, Clarence Seaman and his Penna hotel or chestra; 7:45, Cathay concert orchestra; 8:30, Bonwit Teller ensemble; 9, Lester-North hour of music; 10, Ten Californians.

chestra; 7:49, Cathay concert orders a, 9.3, Bound. Teller ensemble; 9, Lester-North hour of music; 10, Ten Californians.

WCX, Detroit, Mich. (516.9m-580kc), 7:15 p. m., Central Methodist Episcopal church.

WEAF, New York, N. Y. (491.5m-610kc), 2-3 p. m., Sunday Radio service; 3-4, young people's conference; 4-5:30, men's conference; 5:30-6, music; 6-7:20, Shakespearean hour; 7:20-9:15. Capitol theater; 9:15-10:15, Atwater Kent hour. Schola Cantorum.

WEAR, Cleveland, Ohio (389.4m-770kc), 7 p. m., Lowe's

theater orchestra; 7:45, Fireside hour; 8:30, Vincent Percy, organist; 9:15, WEAF.

WEEI, Boston, Mass. (348.6m-860kc), 10:50 a. m., Old South Church, Copley Square; 2 p. m., Sager's Hour of Hospitality; 3, Chamber of Commerce organ recital; 5:30, Ecker concert group; 6, Jordan Marsh company's Sparkling Diamonds; 7:20, WEAF; 9:15, WEAF

WEAF.
WFI, Philadelphia, Pa. (394.5m-760kc), 4:30 p. m. chapel services.

chapel services.

WGR, Buffalo, N. Y. (319m-940kc), 10:45 a. m., Westminster church service: 6 p. m., Shakespearean hour; 7:45, Central Presbyterian church service; 9:15, WEAF.

WGY, Schenectady, N. Y. (379.5m-790kc), 10:30 a. m., First Presbyterian church; 3 p. m., Syracuse, WFBL; 4:30, Elmer A. Tidermarsh, organist; 7:45, First Presbyterian church; 9, WJZ; 10, WJZ.

WHAR, Atlantic City, N. J. (275.1m-1090kc), 10:45 a. m., Chelsea Baptist church; 2:15 p. m., sacred recital,

With and without! Yes, the gentleman in the circle above is how Clara Kurtz' Chocolate Cake-Eater looks when he isn't chocolate. His name is Frank Hall. This pair of comedians make themselves at home over KOIL, Council Bluffs. Dorothy Prowell, right, is the popular violinist of KGO.

Seaside hotel trio; 7:50, Chelsea Baptist church; 9, an hour with the classics, Seaside hotel ensemble, soloists.

WHN. New York, N. Y. (361.2m-830ke), 7:30 p. m., Calvary evening services; 10:15, Anatol Friedland; 10:45-11:15, Janssen's Hofbrau orchestra; 12-12:30 a. m., Sophie Tucker's playground

WIP. Philadelphia, Pa. (508.2m-590ke), 10:45 a. m., services, Holy Trinity church; 4 p. m., Germantown Gospel mission.

WJR, Pontiae, Mich. (516.9m-580ke), 10:30 a. m., First Baptist church.

Baptist church.

WLIT, Philadelphia, Pa. (394.5m-760kc), 2 p. m., Arcadia cafe concert orchestra; 3:30, Christian Science lecture; 6:30, organ recttal; 7, Benjamin Franklin hotel concert orchestra; 7:30, debate on military training.

WMAK, Buffalo, N. Y. (265.3m-1130kc), 10:25 a. m., First Presbyterian church; 7:30 p. m., Churchill tabernale.

ernacle.

WMCA, New York, N. Y. (340.7m-880kc), 7 p. m.,
Hotel McAlpin orchestra; 7:30, string ensemble; 8,
Mayolians; 9, Parody orchestra; 10:30, Twin Oaks
orchestra.

Baptist church; Mrs. Henry Chambers, organist; 7 p. m., Central M. E. church; W. James Tillitson, organist. WTAG, Worcester, Mass. (268m-1120ke), 7:20-9:15 p. m., WEAF, 9:15-10:15, WEAF, WTIC, Hartford, Conn. (475.9m-630ke), 5 p. m., Prof. Bozyan, organist. WH, Detreit, Mich. (352.7m-850ke), 7:20 p. m., WEAF; 9:15, WEAF, Central Time Stations

CKY, Winnipeg, Can. (334.4m-780ke), 7 p. m., All Saints Anglican church; 8:45, First Baptist church concert.

Saints Anglican church; 8:49, First Baptist church concert.

KFAB, Lincoln, Nebr. (340.7m-880kc), 4-5 p. m., vesper service; 9-11, Sunday evening musicale.

KFMX, Northfield, Minn. (336.9m-890kc), 7-8 p. m., vespers.

KFNF, Shenandoah, Iowa (263m-1140kc), 10:45 a. m., First M. E. church; 2:30 p. m., song service; 3,

Lewis; 11:45-1 a. m., Linwood theater feature; Morrill Moore, organist; Don Anchors, poet.
WHAS, Louisville, Ky. (399.8m-750ke), 9:57 a. m., organ prelude; 10, Broadway Baptist church; 4:30-5:30, evensong choral service, Christ Church cathedral.
WHO, Des Meines, lowa (526m-570kc), 11 a. m., B'nai Jesherum congregation; 4-5 p. m., Hartley Municipal band; 5-6, Bankers Life ir; 7:30-8:15, Fourteenth Cavalry band; 11-12, Bankers Life little symphonic orchestra.

Cavalry band; 11-12, Bankers Live little symptomic orchestra.

WHT, Chicago, III. (399.8m-750ke), 11:30-12 p. m.,
Paul Rader,
WIBO, Chicago, III. (225.4m-1330ke), 6-8 p. m., dinner program: Bernice Taylor, soprano; Robert E. Wessling, baritone; Helen Snyder, mezzo-soprano; Eugene Wallenius, baritone; Robert York, tenor; 10-12 midnight, popular program; Marie Tully, Wayne Myers, Lenore Friedman; Agnes Buehl, soprano; Charles Burke, uke soloist.

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

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

Catholic services; 9:40-10:30, Protestant services; 3 p. m., Mooseheart Sunday concert. WKRC, Cincinnati, Ohio (422.3m-710ke), 6:45 p. m., Walnut Hills Christian church, sacred music; 10, classical program, vocal and instrumental selections; 11:15, Ace Brigodo and his Virginians.

Ace Brigode and his Virginians.

WLIB, Chicago, III. (302.8m-990ke), 5-6:30 p. m., chamber music; 6-6:15, non-professional period.

WLS, Chicago, III. (344.6m-870ke), 6:30-7:55 p. m., WLS Little Brown church in the Vale; Emanuel Congregation choir.

WLS, Chicage, III. (344.6m-870kc), 6:30-7:55 p. m., WLS Little Brown church in the Vale; Emanuel Congregation choir.
WLW, Cincinnati, Ohio (422.3m-740kc), 9:30 a. m., school; 11, Seventh Presbyterian church; 5 p. m., organ recital; 7:30, First Presbyterian church; 8:30, concert, H. and S. Pogue company orchestra; Amy Hattersley, soprano.
WMBB, Chicago, III. (249.9m-1200kc), 3-5 p. m., matinee program; 7:40-9. Fifth Church of Christ, Scientist; 9-11, Trianon orchestra; Woodlawn theater orchestra; Wellington Forbes; Billie Allen Hoff.
WNAD, Norman, Okta. (254.1m-1180kc), 9:30 p. m., Prof. Milton Dieterich, violincellist; Prof. Josef Noll, planist; Prof. Adrian Wynnobel, voice; Ann Lee Hamilton, vocalist.

ilton, vocalist,
WOAI, San Antonio, Tex. (394.5m-760ke), 11 a. m.,
First Presbyterian church; 7:30 p. m., Central Chris-

WOAI, San Antonio, Tex. (394.5m.-760Kc), 1 a. m., First Presbyterian church; 7:30 p. m., Central Christian church; 9:30 p. music.
WOAW, Omaha, Nebr. (526m-570kc), 9 a. m., chapel service; 1:30 p. m., classical; 6, Bible study period; 9, Parkvale Presbyterian church.
WOC, Davenport, Iowa (483.6m-620kc), 1-2:30 p. m., Old Folks' musical program; 6:30-7, Christian church, 8:15-9:15, WEAF; 10-11:30, Palmer Little symphony.
WOK, Chicago, III. (217.3m-1330kc), 6 p. m., 1 a. m., Tearney's Town club orchestra; Carl Lorraine's Pershing Palace orchestra; Capitol theater musical program; program.

me Tam.

WORD Batavia, III. (275.1m-1090kc), 10 a. m., I.B.S.A. service; 2 p. m., Bible lecture; Earl F. Cassady; 2:30, program; 6, Webster hotel trio; 9:30, lecture, music WOS, lefferson City, Mc. (440.9m-580kc), 9:30 a. m., Christian church; 5 p. m., Christian church; 7:30, Christian church;

Christian church.

WQI, Chicago, Ill. (447.5m-670kc), 10-12 noon, Peoples church; 3-4 p. m., St. Ita's Senior choirs, St. Ita's Boy's choir; 8-10, Rainbo Garden orchestra; Dr. Carl Bertschinger, planist; Sheppard Levine, tenor; Marjory Worthington, soprano.

WRR, Dallas, Texas (243.5m-1230kc), 10:45 a. m., First Baptist church; 7:30 p. m., First Baptist church; 7:30 p. m., First Baptist church; 7:30 p. m., First Baptist church; 8-10, Dallas Athletic club little symphony orchestra.

WSAI, Cincinnati, Ohio (325.9m-920kc), 11 a. m., service; 3-4:30 p. m., WEAF; 5, WEAF; 7:45, chimes; 9:15, WEAF;

WEAF.
WSM, Nashville, Tenn. (282.8m-1960ke), 10:30 a. m.,
First Presbyterian church.
WSOE. Miwaukee, Wis. (245.8m-1220ke), 8:30 a. m.,
special humane services; 7:30 p. m., Methodist Epis-

special humane services; 7:30 p. m., Methodist Episcopal church.
WSUI, lowa City, lowa (483.6m-620kc), 9:30 p. m., familiar hymns, William G. Edmondson.
WSWS, Chicago, III. (275.8m-1909kc), 11-12:30 p. m., Moody church; 3:30-5, services; 7-9:30, song service.

Mountain Time Stations

KFXF, Colorado Springs, Colo. (249.9m-1200kc), 11 a. m., First Presbyterian church; 5 p. m., "Our Lord Victorious," cantata; 7:30, First Methodist church.
KOA, Denver, Colo. (322.4m-930kc), 10:30 a. m., Immaculate Conception cathedral; 3 p. m., Malcolm C. Marks, organist; 7:45, Immaculate Conception cathedral.

ral. KUOM, Missoula, Mont. (243.8m-1230kc), 9:15 p. m., religious and classical music.

Pacific Time Stations

KFI, Los Angeles, Calif. (467m-642ke), 7-7:30 p. m.
Grebe Synchrophase string ensemble; 7:30-8, Jim.
Jack and Jean trio; 8-9, Aeolian organ; 9-10, Ray
Gill and his orchestra; 10-11, Packard Six dance
orchestra.

orchestra.

KFON, Long Beach, Calif. (232.4m-1220kc), 6:30-7:30 p. m., Prest and Dean program; 7:45-9, First Church of Christ, Scientist; 9-10, studio program; 10-11, Burt Pedersen's orchestra.

KFWB, Hollywood, Calif. (252m-1190kc), 9-11 p. m., Warner Brothers Sunday night movie frolic; Jack Smith's dance orchestra, Frances St. George, the jazzmania girl.

mania girl.

KGO oakland, Calif. (361.2m-830ke), 11 a. m., First
Methodist Episcopal church; Bessie Roland, organist;
3:30 p. m., concert. KGO little symphony orchestra;
Merlyn Morse, baritone; 7:30, First Methodist Epis-

copal church.

KGW, Portland, Ore. (491.5m-610ke). 10:25 a. m., First Presbyterian church: 7:30-9, First Congregational church: 9-10, Chevrolet symphony orchestra.

KHJ. Los Angeles, Calif. (405.2m-740ke), 4-5 p. m., Masonic service; 7-8, First Methodist Episcopal church service; 8-10, program, Artland club, Orpheus Four, Burkman Brothers' Hawaiians.

Burkman Brothers' Hawaiians.

KJR, Seattle, Wash. (384.4m-780kc), 11-12:30 p. m., First M. E. church; 7:15-7:30, organ recital, Mrs. Montgomery Lynch; 7:30-9, First M. E. church; 9-10:30, Puget Sound Savings and Loan Association orchestra.

KNX, Hollywood, Calif. (336.9m-890kc), 6:30-7 p. m., Unitarian church service; 8-9 p. m., First Presbyterian Church of Hollywood; 9-10:30 p. m., Beverly. Hills Nurseries.

KPO, San Francisco, Calif. (428.3m-700kc), 9:45-10:45

Hills Nurseries. (PQ), San Francisco, Calif. (428.3m-700kc), 9:45-10:45 a. m., Undenominational and nonsectarian church; 5-6 p. m., organ recital, Marshall Giselman; 6-6:30, States Restaurant orchestra; 6:35-8:35, Palace hotel concert or-chestra; 8:35-10, Rudy Seiger's Fairmont hotel orches-tra

tra. KPSN, Pasadena, Calif. (315.6m-950ke), 8:45-9:45 p. m., concert, Maryland artists' ensemble. KTAB, Oakland, Calif. (239.9m-1250k.), 9:45 a. m., Bible lecture, Prof. E. G. Linsley; 11, service; 7:45 p. m., service; 9:30, concert.

#### GENERAL TALKS AND SPEECHES

#### Saturday, April 17

Eastern Central Mountain Pacific 7:45 p. m. 6:45 p. m. 5:45 p. m. 5:45 p. m. 4:45 p. m. 6:45 p. m. 6:45 p. m. 6:45 p. m. 6:45 p. m. 6:15 c. 15:15 Work of Congress." 5:15 c. 15 c. 1

9 8 7 6
WCCO (416.4m-720kc) 'Fireside Philosophies,"
Rev. Roy L. Smith.
9:30 8:30 7:30 6:30
KOB (348.6m-860kc) Address, Carl Magee.
WMAQ (447.5m-670kc) Photologue.

Monday, April 19

Eastern Central Mountain Pacific 7 p. m. 6 p. m. 5 p. m. 4 p. m. WDAF (365.6m-820kc) Address, Edgar A. Linton. 8:35 6:35 5:35 WSM (282.8m-1060kc) American Forest week, R. S. Maddox. (1:05 9:05 8:05 KGO (361.2m-830kc) "Rebuilding the Forests," C. J. Hansen. 11:25 10:25 J. Hansen. 11:25 10:25 9:25 8:25 KGO (361.2m-8:30kc) "Chats About New Books," Joseph Henry Jackson. 11:50 9:50 8:50 11:50 9:50 8:50 8:50 KGO (361.2m-830ke) "Our Indian Girls," Eugene B. Lawson; "Our Negro Girls," Mrs. Ruth Moore.

#### Tuesday, April 20

Eastern Central Mountain Pacific 7:30 p. m. 6:30 p. m. 5:30 p. m. 4:30 p. m. WHAR (275.1m-1090kc) Industrial talk, R. Orville Ketchum.

Ketchum.

9

WMAQ (447.5m-670kc) Book talk, Harry Hansen.
10:30

WCCO (416.4m-720kc) "Outdoors in Minnesota."

Wednesday, April 21 Eastern Central Mountain Pacific 8:15 p. m. 7:15 p. m. 6:15 p. m. 5:15 p. m. WJZ (454.3m-660kc) Zoological society series. Eastern Central Mountain Pacific
9:15 p. m. 8:15 p. m. 7:15 p. m. 6:15 p. m.
WCAU (277.6m-1080kc) Topics of the day, Senator Hassenpfeffer.
10:30 9:30 8:30 7:30
KWSC (348.6m-860kc) Book review, Alice Lindsay Webb.

Thursday, April 22 

(468.5m-640 Wile. 6:45 5:45 4:45 1-640kc) Political situation, Frederic

10 9 8 7

KMTR (238m-1260kc) "Color Photography,"
12 m. 11 10 9

KGO (361.2m-830kc) "Wonders of the Sky,"
Henry M. Hyde.

Henry M. Hyde.

Friday, April 23

Eastern Central Mountain Pacific 7 p. m. 4 p. m.

WOAW (526m-570kc) Mustc review. Hester Bronson Copper.
7:45

WEDJ (272.6m-1100kc) 'Flying over Florida," Lieut. George Pond. 8:30

WCAL (386-9m-890kc) Book talk, Dr. George Weida Spohn.
10:15

Will (405.2m-740kc) 'Airports and their Effect on Municipalities," W. D. Waterman.
10:30

9:30

KHJ (405.2m-740kc) 'Trail." Gladys De Witt.
12:30 a. m. 11:30

KPO (428.3m-700kc) American Forest week talk.

orchestra.

WOO, Philadelphia, Pa. (508.2m-590kc), 6 p. m., organ recital; 7:30, Bethany Presbyterian church; 9:15, WEAF.

WPG, Atlantic City, N. J. (299.8m-1000kc), 3:15 p. m., organ recital, Arthur Brook; 4:15, community vocal and instrumental recital; William Stansfield, organist; 9:15, Hotel Traymore concert orchestra; 10, organ recital, Arthur Brook; quartet.

WREO, Lansing, Mich. (285.5m-1050kc), 10 a. m., chimes, Plymouth Congregational church; 10:30, First

club.

KOIL, Council Bluffs, Iowa (277.6m-1080kc), 11 a. m.,
First Congregational church; 4 p. m., Clyde Whitney;
7:30, Monday musical club; 11, Hotsy Totsy hour.
KPRC, Houston, Tex. (296.9m-1010kc), 9:50 a. m., Trinity Lutheran church;
9:30, Paramount Five, male quartet, thirty feet of
Texas harmony; 11, Texan theater pipe organ concert,
J. Benson Carlisle. KSD, St. Louis, Mo. (545.1m-550ke), 6:15 p. m. WEAF; 8:15, WEAF.

Men's Gospel team; 6:30, Golden Rule circle; 7:30, Christian church service.

KFRU, Columbia, Mo. (499.7m-600ke), 7:30 a. m., sunrise service; 9:30, Burrall Bible class; 7:30 p. m., Columbia Baptist church.

KMA, Shenandadh, Iowa (252m-1190ke), 12:15-1:15

p. m., sacred songs service; 4, church choir music.

KMOX, St. Louis, Mo. (280.2m-1070kc), 9 p. m., popular entertainment, Skouras Brothers' Sunday night

WEAF; 8:15, WEAF.

KTHS, Hot Springs National Park, Ark. (374.8m-800ke), 11-12:15 p. m., First Presbyterian church; 9-9:50, New Arlington Hotel Meyer Davis grand ensemble; 9:50-10, Phantom voice; 10-11:30, Arkansas Traveler.

KYW, Chleage, III. (535.4m-560ke), 11 a. m., Central church; 2:30 p. m., chapel service; 4:30, matinee; 7, Chicago Sunday Evening club, Dr. Bernard Iddings Bell; 9:30-11, classical concert.

WADC, Akron, Ohio (258.5m-1160ke), 6:30 p. m., Hotel Portage quintet.

WAMD Minneanglis Minn. (243.8m.1930ke) 10:20

Bell; 9:30-11, classical concert.
WADC, Akron, Ohio (258.5m-1160kc), 6:30 p. m., Hotel Portage quintet.
WAMD, Minneapolis, Minn. (243.8m-1230kc), 10:30 a. m., First Unitarian church; 6:15 p. m., dinner concert, stringed orchestra; 6:45. Faust Stock company; 9:30. Gould banjo club.
WBAP, Fort Worth, Tex. (475.9m-630kc), 11 a. m., First Presbyterian church; 5-6 p. m., Hollis, Oklahoma male quartet; 9:30-11. Texas hotel orchestra; WBBM, Chicago, Ili. (225.4m-1330kc), 12:30-2 p. m., musle; 4-6, Sunday matinee; 8-10. Alemite orchestra; Pauline Stiffler Atlass, violinist; 12-2 a. m., Nutty club. WCBD, Zion, Ili. (344.6m-870kc), 8 p. m., Zion chofr; male quartet, mixed quartet.
WCCO, Minneapolis-St. Paul, Minn. (416.4m-720kc), 10:50 a. m., Westminster Presbyterian church; 3 p. m., Bible study; 4:10, House of Hope Presbyterian church; 6:20, Second Church of Christ, Scientist; 8:15, WEAF, WDAF, Kansas City, Mo. (365.6m-820kc), 3-4 p. m., orchestra, choir, First English Lutheran church; 4-45, Sabbath vespers, International Bible Students association.
WEBH, Chicago, Ili. (370.2m-810kc), 10:40-12 noon, Seventh Church of Christ, Scientist; 5-6 p. m., twillight musicale; 7-9, news; Ortole orchestra; artists.

WEBH. Chicago. III. (370.2m-810kc), 10:40-12 noon. Seventh Church of Christ, Scientist; 5-6 p. m., twilight musicale; 7-9, news; Oriole orchestra; artists. WENR. Chicago. III. (265.3m-1130kc), 2-3 p. m., Skeeles-Biddle hour; 3-4. Moody Bible Institute hour. 6-7. Moody Bible Institute evening hour; 9:30-12 midnight, All-American Pioners WFAA, Dallas, Tex. (475.9m-630kc), 6-7 p. m., Bible class, First Presbyterian church; 7:30-8:30. First Methodist Episcopal church; 8:30-9:30, Tom D. Collins and his stringed instrument orchestra; I1-12, Jimmle Joy's orchestra. WGN, Chicago, III. (302.8m-990kc), 6:45-7 p. m., musical program; 7-7:20, "The Million Sing"; 7:45-8:15, Drake concert ensemble. Blackstone string quintet; 8:15, WEAF; 9:15, old-time music room "Schuman"; 10, Sam "n Henry; 10:10, old-time favorites; 10:20-11, musical program, ensemble. WGST, Atlanta, Ga. (270.1m-1110kc), 7-8 p. m., operatic program. Emilio Volpu, director. WHB, Kansas City, Mo. (365.6m-820kc), 9:40-10:45 a. m., Independence Blvd. Christian church; 8:9:15, Sinclair

#### Monday, April 19

Headliners Today

## SINCLAIR LEWIS TO SPEAK AT WHB

#### Monday, April 19

 Eastern i i p. m.
 Central i p. m.
 Mountain 9 p. m.
 8 p. m.

 CHIC (356.9m.840kc)
 Musical comedy selections.
 selections.

 WHAZ (379.5m.790kc)
 Philmont Silver band.

 WULW (422.3m.710kc)
 Modern musical comedies.

 WOOD (241.8m.1240kc)
 "Gladice at the Ranch."

 H355
 10:35

 KTHS (374.8m.800kc)
 Harmony twins.

Monday, silent night for: CKAC, CNRA, CNRC, CNRE, CNRM, CNRO, CNRR, CNRT, CNRV, CNRW, KFAU, KFMX, KFWA, KHJ, KPSN, KSAC, KUOA, KYW, WBBM, WCBD, WEDA, WEBH, WEBJ, WEBY, WENR, WGBF, WGBS, WGS, WGN, WHAS, WHT, WIBO, WIP, WJAZ, WJJD, WLIB, WLS, WMAQ, WMBB, WOAI, WOC, WOK, WORD, WOS, WQJ, WRC.

#### Eastern Time Stations

CHIC, Toronto, Can. (356.9m-840kc), 8 p. m., Magic Baking Powder entertainers; 11, musical comedy se-lections; trio; Mrs. K. Zimmerman, soprano; Olga Tough, contralto; Blake Lister, tenor; Harvey Doney,

House, Combando, Blace Instel, tentry Indres Bones, bartione.

KDKA, Pittsburgh, Pa. (309.1m-970ke), 9:55 p. m., Ruud light opera hour.

WABQ, Haverford, Pa. (260.7m-1150ke), 11 p. m., Ardmore theater program; Horace Hustler, organist; William Stewart, pianist.

WBAL, Baltimore, Md. (245.8m-1220ke), 7:30-8 p. m., Peabody Conservatory of Music; 8-9, Edith Gwinn, soprano; Neenah Wood, contralto, Arthur Morgan, violinist; 9:10-10, Eastwood Lane, pianist; Modena Scoville, pianist.

linist; 9:10-10, Eastwood Lane, planist; Modena Scoville, planist.

WAHG, Richmond Hill, N. Y. (315.6m-954ke), 7:30 p. m., boy scout program; 7:45, Dorathea Kruening, soprano; 8, Synchrophase hour; 9:15, William Helfenstein, bartione; 9:30, John Diehl, zither soloist; 10:02, Cliff Ulrich and Charlie Myers, songs; 19:30, Joe Zimmerman's orchestra; 12, "The Orionites."

WBAL, Baltimore, Md. (245.8m-1220kc), 6:30-7:30 p. m., WBAL dinner orchestra.

WBBR, New York, N. Y. (272.6m-1100kc), 8 p. m., Syrian music, vocal selections.

WBZ, Springfield, Mass. (333.1m-900kc), 6:35 p. m., Hotel Lenox ensemble; 7:30, Rene Dagenais, organist; 8. Capitol theater orchestra; 9:30, Patriots Day program; 10:30, Leo Reisman and his Hotel Brunswick orchestra.

8, Capitol theater orchestra; 9:30, Patriots Day plogram; 10:30, Leo Reisman and his Hotel Brunswick orchestra.

WCAE, Pittsburgh, Pa. (461.3m-650kc), 6:30 p. m., dinner concert, William Penn hotel; 8, studio concert; 9, studio concert; 10, WEAF; 11:05, dance orchestra.

WCAP, Washington, D. C. (468.5m-640kc), 6-11 p. m., Washington Post program; WEAF.

WCAU, Philadelphia, Pa. (277.6m-1080kc), 7:30 p. m., recital, N. Snellenburg and company; 8, Carolyn Thomas, soprano; Ella Jaquette Kratz, planist; 8:30, Hood Boys; 8:45, Enright's Gems; 9, Merry Minstrels; 9:30, E. F. Carregan, mimic; 9:40, Jackson and Ellis, Radio swethearts; 10, Madrigal mixed quartet.

and Ellis, Radio sweethearts; 10, Manager quartet.

WCX. Detroit, Mich. (516.5m-580kc), 6-7 p. m., Goldkette ensemble; 8-9, studio program.

WEAF, New York, N. Y. (491.5m-610kc), 4-12 midmight, Marie Stapleton Murray, soprano; Etta Kabram,
Pauline Sternlicht, planists; Earl C. Little, bass;
Vincent Lopez and his orchestra; Marie Davis, planist;
A. and P. Gypsies; WEAF Grand opera company;
Ben Bernie and his orchestra.

WEAO, Celumbus, Ohio (293.9m-1020kc), 7:35 p. m.,
music.

music. WEAR, Cleveland, Ohio (389.4m-770kc), 7 p. m., Allen

music.

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

WEAR, Seston, Mass. (348.6m-860kc), 7:30 p. m., Black Iron Shiners; 8, Poetic Walker; 8:15, musicale; 9, WEAF; 10, Joe Rines and his Hunters Cabin orchestra.

WFI, Philadelphia, Pa. (394.5m-760kc), 6:30 p. m., Bellevue Stratford concert orchestra; 7, Bellevue Stratford dance orchestra.

WGBS, New York, N. Y. (315.6m-950kc), 6:30 p. m., Association of Reformed Rabbis.

WGBB, New York, N. Y. (325.3m-1130kc), 6:30-7:30 p. m., Gray Moss Inn; 3:30-10, program, W. K. Parnell, bartlone; L. W. Joy planist; Fred Sampanaro, banjoist; 11:43-1 a. m. Ramble.

WGR, Buffalo, N. Y. (319m-940kc), 6:30 p. m., Joe Armbruster's orchestra; 8:15, Ragnhild Simonson Rhode, featured in piano and vocal program; 9, Mrs. Harry Roberts and associates in popular program; 10, Marion Healy; 11, Vincent Lopez's Hotel Statler dance orchestra; John F. Gunderman, organization, Senator James W. Wadsworth, Jr. My Hotel Van Curler orchestra; 7:45, Juvenile string quartet; 9:40, dinner, Schenectady County Republican organization, Senator James W. Wadsworth, Jr. concert, Seaside hotel trio; 11, dance orchestra, Follies Bergere.

WHAZ. Troy. N. Y. (379.5m-790kc), 10 p. m., vaude-

WHAR, Attantic City, N. J. (275.1m-1090kc), 8 n. m., concert, Seaside hotel trio; 11, dance orchestra, Follies Bergere.
WHAZ, Troy, N. Y. (379.5m-790kc), 10 p. m., vaudeville; 11, Philmont silver band.
WHN, New York, N. Y. (361.2m-830kc), 6 p. m., Woodmanston Inn orchestra; 7:20, Joe Ward's Swanee entertainers; 8:05, orchestra; 8:30, George's Surprise; 9:30, Loew's New York orchestra; 10, orchestra.
WIP, Philadelphia, Pa. (508.2m-590kc), 6:05 p. m., Benjamin Franklin hotel concert orchestra.
WJR, Pontiac, Mich. (516.9m-580kc), 7 p. m., Jean Goldkette's Petite symphony orchestra; 7:15, Caspar Lingerma entertainers; 7:45, music; 9, Paige and Jewett Sixes; 11:30, Merry Old Chief.
WLIT, Philadelphia, Pa. (394.5m-760kc), 9 p. m., Stanley hour of music; 10, Arcadia cafe dance orchestra; 10:30, vaudeville features, Fay's Knickerbocker theater; 10:45, El Patio dance orchestra; 8:30, musicale; 9-10, Philoc hour; 10-11, Beaver Products company.
WMCA, New York, N. Y. (340.7m-380kc), 6 p. m., Hotel McAlpin string ensemble; 6:30 orchestra; 7:30, Kurtz Karnival Kings; 11:30, Jack Denny's orchestra; 12, entertainers; 12:30, orchestra; 12, entertainers; 12:30, orchestra.
WNYC, New York, N. Y. (526m-570kc), 7:30 p. m., songs; 8:15, piano; 8:45, instrumental program.
WOO, Philadelphia, Pa. (508.2m-590kc), 7:30 p. m., Sylvania orchestra; 8, WEAF.

WOR. Newark, N. J. (405.2m-740ke), 7:30 p. m., Copenhagen quartet; 9:30, Spanish Symphony orchestra; 10:45, Hofbrau Haus orchestra; 11:15, Billy Rose's Fifth Avenue club orchestra.

Fifth Avenue club orchestra.

WPG, Atlantic City, N. J. (299.8m-1000kc), 6:45 p. m., organ recital. Arthur Brook; 7:10, Hotel Morton dinner music; 7:30, Elks home dinner dance music; 8:40, Alice Sachse, pianist; 9, Hotel Ambassador concert orchestra; 10, Hotel Traymore dance orchestra; 11, Silver Slipper supper club, Eddie McKright's dance supper

WREO, Lansing, Mich. (285.5m-1050ke), 6-7 p. m., dinner concert, Speed-Wagon Serenaders; Gold Stand-

wRVA, Richmond, Va. (256.3m-1170ke), 8:10 p. popular songs, Pat Binford, Bright Keek; 9 juvenile stars; 9:45, Melodians orchestra; 11 Carry Me Back to Old Virginny.

WTAG, Worcester, Mass. (268m-1120ke), 8:30-9 p. m., Broad and Long; 9-10, Robin Hood hour of music; Broad and Lo

WTIC, Hartford, Conn. (475.9m-630ke), 6:50 p. m., Hub tric; 8:39, Capitol theater orchestra; 9, popular songs, F. J. Cremin; 9:39, Emil Heimberger's Hotel Bond dance orchestra; 10, grand opera hour; 11, Travelers symphonic ensemble.

WWJ, Detroit, Mich. (352.7m-850kc), 6 p. m., dinne concert; 7, studio program; 8, Detroit News orchestra

Central Time Stations

CKY, Winnipeg, Can. (384.4m-780kc), 8:30 p. m., concert; 10, old-time music, Roseland dance gardens; 11, revue, Capitol theater.

KFAB, Limooln, Nehr. (340.7m-880kc), 5:30-6:30 p. m., dinner concert; 8:30-10:30, Belshaw's orchestra; Harmony Boys, vocal and plano; Cowbell Boys; Harriet Cruise, oriole of the air.

KFKHI Lawrence. Kan. (275.1m-1090kc), 7:15 p. m.,

KFKU, Lawrence, Kan. (275. Im-1090ke), 7:15 p. m., Raymond Lawrenson, pianist; Esther Ott, soprano. KFKX, Hastings, Nebr. (288.3m-1040kc), 9 p. m., musicale, Methodist church.

KFNF, Shenandoah, Iowa (263m-1140ke), 7 p. m., con-

KFRU, Columbia, Mo. (499.7m-600kc), 6:15 p. m., din-KMA, Shenandoah, lowa (252m-1190kc), 6-7 p. m.,

Gibson orchestra; 7:30, theatrical feature; 10, modern musical comedies, Crosley little symphony orchestra; Crosley maie quartet.

WMC. Memphis, Tenn. (499.7m-600kc), 8:30 p. m., concert, Mmc. Valentina Tumanskaya.

WNAD, Norman, Okla. (254.1m-1180kc), 7:20 p. m., Bernice Wysong, pianist; Helen Bailey, violinist; Tessie Rudell, vocalist; Rachael Bedford, reader; Hettie May Russell, violinist.

WOAW, Omaha, Nebr. (526m-570kc), 6:20 p. m., Frank Peterson, tenor; Helen Higgins, pianist; 6:50, Royal Fontenelle orchestra; 9, classical.

WOI, lowa City, lowa (270.1m-1110kc), 8 p. m., Iowa Industrial school.

Moustrial school.

Wood, Grand Rapids, Mich. (241.8m-1240ke), 9-10
p. m., classical concert, Yeagla orchestral trio; 10-11,
Mills-Wetzel presentation; "Gladice at the Ranch,"
play; ensemble; 11-1 a. m., Wild and Wooly Wood
Workers' club; Merle Compton and his orchestra.

Rehearsing "The Prisoner's Song," is the probable occupation of the Teaberry quartet, above. Teaberry time means Friday night at KDKA, with a little classical music, a few popular songs, and just the right proportion of comedy. Bud Kingston, left, is the cartoon teacher at WTIC, Hartford. Every Friday evening he gives young cartoonists advice.

string ensemble.

WRR, Dallas, Tex. (245.8m-1230kc), 6-7 p. m., Jack Gardner's orchestra; 8-9. Magnolia Petroleum company orchestra; 11-12. Pantages vaudeville program.

WSAI, Cincinnati, Ohio (325.9m-320kc), 8-10 p. m., WEAF; 10. studio program.

WSB, Atlanta, Ga. (428.3m-7700kc), 8 p. m., Merrymakers' orchestra; 10:45, Chamber of Commerce program.

WSBT, South Bend, Ind. (275.1m-1090ke), 7:15 p. m.,

WSBT, South Bend, Ind. (275.Im-1090ke), 7:15 p. m., orhestra, concert.
WSM, Nashville, Tenn. (282.8m-1060kc), 6:30 p. m., Francis Craig's orchestra; 8. Mrs. Robert Caldwell, contralto; artists; 10. Vito Pellettieri's orchestra.
WSOE, Milwaukee, Wis. (245.8m-1220kc), 9 p. m., Candygram frolic, Manhattan-Beach orchestra; Al Nitz, tenor; Lorraine Hug, planist; guest artists.
WSUI, Iewa City, Iowa (483.6m-820kc), 8:30 p. m., Bohemian program.

Mountain Time Stations

KOA, Denver, Golo. (322.4m-330kc), 6:30 p. m., Brown Palace string orchestra; 8, sacred cantata, "Ruth, the Moabitess," choir, Christ Methodist Episcopal church; KOA orchestra; P. G. Zieschang, pianist; Mrs. E. F. Loessel, soprano; Helen Doughty, planist; Esther Uhlmann, planist; 9:40, "A Step On the Statrs." (KUOM, Missoula, Mont. (243.8m-1230kc), 8 p. m., vocal, instrumental and ensemble music.

Pacific Time Stations

(FI. Los Angeles, Calif. (467m-642ke), 6:45 p. m., Radiotorial period; 7-8, Owen Fallon's Californians; 8-9, studio program; 9-10, Walter M. Murphy Motors company; Misha Gegna orchestra; Olga Steffani, contralto; Virginia Flohri, soprano; 10-11, Meiklejohn Brothers.

Radiotorial period; 7-8, Owen Fallon's Californians; 8-9, studio program; 9-10, Walter M. Murphy Motors company; Misha Gogna orchestra; Olga Steffani, contralto; Virginia Flohri, soprano; 10-11, Meiklejohn Brothers.

KFON, Long Beach, Calif. (232.4m-1280ke), 7-8 p. m., Prizma hour with Lake's club orchestra; 8-9, Press-Telegram studio; 9-11, KFON artists' frolic; 11-12, State theater organ.

KFWA, Ogden, Utah (260.7m-1150ke), 9-10 p. m., Syncopers orchestra.

KFWA, Ogden, Utah (260.7m-1150ke), 9-10 p. m., Syncopers orchestra.

KFWB, Hollywood, Calif. (252m-1190ke), 6:30-7:30 p. m., Pontiac Six dinner hour; 7:30-8, program, Dr. Ralph Mitchell and associated dentists; 8-9, program, Corduroy Tire company; 9-10, program, Star Motor Car company; 10-11, Warner Brothers frolic, direction Charlie Wellman.

KFKF, Colorado Springs, Colo. (249.9m-1200ke), 8:30 p. m., Dorothy Ehler Phillips, soprano; Lucinda Shutt, centralto; Evelyn Bissell, planist.

KGO, Oakland, Calif. (361.2m-830ke), 6-6:35-p. m., dinner concert, Knickerbocker trio; 8, Avrion trio, KGW, Portland, Ore. (491.5m-610ke), 6-7-p. m., Olds, Wortman and King company; 8-9, music; 9-10, instrumental music.

KJR, Seattle, Wash. (384.4m-780ke), 7-8:30-p. r., Sears, Roebuck and company program; Mendelszohn trio; 8:30-10, Post Intelligencer studio program.

KLX, Oakland, Calif. (538.2m-590ke), 6:30-7-p. m., Athens Athletic club orchestra; 8-9, Martinez night; 9-10:30. Lake Merrit Ducks.

KMTR, Hollywood, Calif. (238m-1260ke), 7:30-8-p. m., Atwater Kent orchestra; 7:30-8, Overell's Furniture company; 8-9. L. W. Stockwell company; 9-10. Beste Dental system; 10-11, Goodrich Silvertown Cord dance orchestra; 11-12, Ambassador hotel dance orchestra; 7-7:30, Rudy Seiger's Fairmont hotel orchestra; 7:7:30, Rudy Seiger's Fairmont hotel orchestra; 7:7:9-9, Palace hotel dance orchestra; (7-19), Palace hotel dance orchestra; 7:0-10, FRI program; 10-11, Cabiria cafe dance orchestra.

cafe dance orchestra. KTAB, Oakland, Calif. (239.9m-1250kc), 8-10 p. m.,

KWSC, Pullman, Wash. (348.6m-860ke), 7:30-9 p. m., Edith Johnson, pianist; Dorothy Sage, violinist; Olive Price, vocalist.

popular music; 9-11, Farnham trio; How-Do-You-Do Boys, Grady and Doc.

Boys, Grady and Doc.
KMOX, St. Louis, Mo. (280.2m-1070ke), 6 p. m., Arthur Utt, organist; 6:30, Mrs. Jacques Landree, organist; 7, orchestra; Buster Brown; 8, chamber music hour; Mrs. Jacques Landree, Miss Schmidt, Mrs. Howe, Miss Evers; 9, operalogue, "Rigoletto"; 10, dance music.

Music.

KOIL. Council Bluffs, Iowa (277.6m-1080kc), 6:05 p. m.
entertainers; 6:35, Original Collegians; 7:30, Fat Boys
8. Florence Senior Duerr, pianist; Mabel Woodwort
Jensen, violinist; Walter Jenkins, baritone; 9. Joh
Helder; 10, Barnyard Twins; 11, Hotsy Totsy hour.

KPRC, Houston, Tex. (296.9m-1010ke), 6:30 p. m., Harold Oxley's orchestra; 7:30, twillight song time; 7:45, Record's Ramblers dance orchestra; 8:30, Max Shippee, tenor; Mrs. H. Whittington, accompanist; 9, Mr. and Mrs. Cliff Drescher, artist saxophonist and accompanist; 9:30, Mr. and Mrs. J. Spurway, baritone, contraito.

KSD. St. Louis, Mo. (545.1m-550ke), 7 p. m., program; 7:30, American Institute of Banking.

KTHS, Hot Springs Mational Park, Ark. (374.8m-800ke), 9-9:30 p. m., Meyer Davis orchestra; 9:30-9:50, Arthur Platz, tenor; 9:50-10:20, Natalie Arnoux, violinist; 10:20-10:35, Elizabeth Bowe, planist; 10:35-11, Harmony Twins; 11-12:15, Lawson Reid, organist. KUOA, Fayetteville, Ark. (299.8m-1000kc), 8 p. m., or-chestra, First Methodist church.

chestra, First Methodist church.

WADC. Akron. Ohio (285.5m.1160kc), 6:30 p. m., Hotel Portage quintet; 1 a. m., India Owl's.

WAMD, Minneapolis, Minn. (243.8m.1230kc), 7:05 p. m., Hartman Twins, Frank and Ernest; 7:15, popular musical program; Wandering Minstrel, Maurine Heft, pianist; 9, Gayle Wood, pianist; 11, Skyrocket frolic.

WBAP, Fort Worth, Tex. (475.9m.630kc), 6-6:30 p. m., Texas hotel orchestra; 7:30-8:30, Crimson Limited; 9:30-11, Ward's Trail Blazers; 11-12, Duncan-Marin orchestra.

WCCO, Minneapolis-St. Paul, Minn. (416.4m-720ke), 6:15 p. m., dinner music, St. Paul hotel concert orchestra; S, University of Minnesota program; 9, classical concert.

WDAF, Kansas City, Mo. (365.6m-820kc), 6-7 p. m., Trianon ensemble; 8-9:30, Ivanhoe band; Ivanhoe glee club; 11:45-1 a. m., Nighthawk frolic; Ted Weems' Victor Recording orchestra; Billy Adair's orchestra; Ted Meyn, organist.

WFAA, Dallas, Tex. (475.9m-630ke), 6:30-7:30 p. m. Honey Boys orchestra. WHB, Kansas City, Mo. (365.6m-820kc), 7-8 p. m. Sweeney orchestra.

WGST, Atlanta, Ga. (270.1m-1110ke), 9-10 p. m., Tech Marionette quartet.

WHA, Madison, Wis. (535.4m-560ke), 8 p. m., Clef

WHO, Des Moines, Iowa (526m-570ke), 7:30-9 p. m., Paul Stoye, pianist-composer; Joseph Glifford, reader; Amelia Reinke, soprano; C. Lee, basso; 11-12, organ recital, Carlos Meier. WJAD, Waco, Tex. (352.7m-1190ke), 8:30-10 p. m., Mary Jaworski and others.

WKRC, Cincinnati, Ohio (422.3m-710kc), 6 p. m., Alvin Rochr and his dinner concert orchestra; 8, popular program; 9, American Legion program; 12, dance

WLW. Cincinnati, Ohio (422.3m-710kc), 7 p. m., Hotel

#### "a Step On the Stairs" Broadcast as a Play

#### EPISODE EIGHT—THE SETTING

EPISODE EIGHT—THE SETTING

EPISODE SIX continues in the high-beamed hunt-room, the room that has been the scale of strange and mysterious crimes, of the Turner manse. The guests who had gathered there to hear a message from Peleg Turner, have waited patiently until Tolliver returns from the Radio station to report that murderous deeds have been afoot there, too. Just as he displays a letter he has stolen at the station, Mary Williams seemingly faints, throwing out her hand and upsetting the candle. In the resultant darkness the letter has disappeared. Mary Williams and Ardwyn stay alone in the room to await the return of a stranger. He returns, in the dark, and the guests come in the room just in time to find Ardwyn unconscious with a flesh wound on his head and Miss Williams fainted—holding part of Peleg Turner's funeral clothes. The two are revived, and all but Mary leave the room. Then John Carton reappears to Mary and asks her to believe in him. He narrowly escapes the return of the other people and is assisted in escaping by Hari Singh, who then shortly returns from the outside with the unconscious form of Milford Jones. The seance is resumed with the unbelievable result that Peleg Turner's voice comes over the Radio. He curses the murderer of his brother. He says the murderer is now in the house, but shall pay in full ere dawn. Pandemonium reigns. The beam of a flashlight hits Tolliver. Attempts to locate the owner of the light are in vain. A human chain is formed to count heads. Instead of eleven as there should be, thirteen people are found in the darkened room. Tolliver seeks matches but is engaged in a struggle. An unknown voice threatens to shoot to kill at the first flicker of a match. The intruders begin tearing up the bricks around the hearth. Aumt Helen cries there is a corpse at her feet. Mary Williams obtains a gun and, concealed, guards the front door exit while Harl Singh, without, guards the side door. One intruder, as they all seek escape, is shot by Mary. The front door suddenly opens, cas

#### THE CAST Frederick Ardwyn.....

.....Peleg Turner's lawyer 

#### WHERE AND WHEN TO DIAL

KGO, Oakland, Calif. (361.2m-830kc). Eighth episode at 9:45 p. m. Pacific time, Saturday, April 17.

episode at 9:45 p. m. Pacine Line, Sacratic episode at 9:40 p. m. Mountain time, Monday, April 17.

WBAP, Fort Worth, Tex. (475.9m-630kc). Fourth episode at 11 p. m. Central time, Thursday, April 22.

WBAP, Fort warm.

Fourth episode at 11 p. m. Cenera.

Thursday, April 22.

WCCO, Minneapolis-St. Paul, Minn. (416.4m-720kc). Eighth episode at 10:05 p. m. Central time, Tuesday, April 20.

WGY, Schenectady, N. Y. (379.5m-790kc). Seventh episode at 8:15 p. m. Eastern time, Friday, April 16. Eighth episode same time, April 23.

Gentral time, Monday,

APril 25.
WHO, Des Moines, Iowa (526m-570ke). Eighth episode at 2:30 p. m. Central time, Monday, April 19.
WLW, Cineinnati, Ohio (422.3m-710ke). Eighth episode at 8:30 p. m. Central time, Saturday, April 17.

WMAQ, Chicago, III. (447.5m-670kc). Eighth episode at 9 p. m. Central time, Wednesday,

April 14. Ninth episode same time, April 21.
WNAC, Boston, Mass. (280,2m-1070kc). Eighth
episode at 8:30 p. m. Eastern time, Wednesday, April 14. Ninth episode at same time,
April 21.
WEAN. Providence, B. I. (270,1m-1110kc).
Play broadcast by direct wire from WNAC,
Boston, on same schedule as WNAC therefore.
WOAW, Omaha, Nebr. (526m-570kc). Eighth
episode at 8 p. m. Central time, Saturday,
April 17.
WOC, Davenport, Iowa (483,6m-620kc). Eighth
episode at 10:30 p. m. Central, time, Friday, April 16. Ninth episode same time,
April 23.
WOR, Newark, N. J. (405,2m-740kc). Eighth

April 23.

WOR, Newark, N. J. (405.2m-740kc). Eighth episode at 10:30 p. m. Eastern time, Saturday, April 17.

WRC, Washington, D. C. (468.5m-640kc). Seventh episode at 8:15 p. m. Eastern time, Friday, April 16. Eighth episode same time, April 23.

KTHS, Hot Springs National Park, Ark. (374.8m.800kc). Schedule to be announced over air.

## KDKA LITTLE SYMPHONY ORCHESTR

#### CLASSICAL CONCERTS INDEX

Saturday, April 17
Eastern Central Mountain
6 p. m. 5 p. m. 4 p. m.
WCX, WEAF, WMCA, WREO. KGO, KYW, WEAR, WENR, WMAQ, WNYC, WOAW, WOK, WRC. WUAW, WOK, WRC.

8 KDKA, KFNF, KOLL, KSD, KYW, WBBR, WSN, WMBB, WNYC, WOAW, WQJ.

9 KFOA, KPRC, KHJ, KYW, WHAS, WIP, WLW, WORD, WSAI, WSOE,
10 9 8 KNX, KYW, WEAF, WMAQ, WMC, WOAW, WOC, WORD.

11 10 9 8 WOAW.

Sunday, April 18 Central Mountain 5 p. m. 4 p. m. Pacific 3 p. m. Central Mountain Pacific
6 p.m. 5 p.m. 4 p.m. 3 p.m.

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

WCAE, WCAU, WEAF, WEAR, WEEL, WJAR,
WTAG, WWJ.
8 7 WTAG, WWJ.

8 7 6

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

9 7 6

KFDM, KPRC, KSD, WBZ, WCAU, WCBD, WCCO, WEAR, WGY, WHAR, WHT, WNYC, WOI WCCO, WEAR, WGY, WHAR, WHT, WNYC, WQJ.
9:15 8:15 7:15 6:15
WEEI, WJAR, WTAG.
10 8 7
KHJ, KNX, KTHS, KYW, WCCO, WFAA, WNYC, WOC, WQJ, WSGE.
11 10 9 8
KFVE, KHJ, KNX, KPO, KTHS, KYW, WHN, WKRC, WOC.
12 m 11 10 9
KHJ, KNX, WOC.
12 m 11 10 10
KNX.

Monday, April 19
Eastern Central Mountain Pacific 6 p. m. 5 p. m. 4 p. m. 3 p. m. KGO, WCX, WEAF, WMCA, WREO, WWJ. 7 KMA, WCCO, WEAF, WEAR, WHAD, WJR. WOAW, WOK. 8 6 5 KFNF, KSD, WBBR, WBZ, WCAU, WCX, WHAR, WHT, WJAR, WLW, WMBB, WTAG, WTIC. 9 8 7 Monday, April 19 WIIC.

9 8 8 7 6

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

10 9 8 7

KMA, KPO. KPRC, KSD, KTHS, WAMD,
WCCO, WEAF, WHAD, WJAR, WOAW, WSUI,
WIAG. 11 10 8 8 KGW, KHJ, KMA, KSD, KTHS, KWSC, WHN, WSAI. WSAI. 12 m | 11 KGW, WBAP, WSAI. 1 a. m, 12 m | 11

Tuesday, April 20 Eastern Central Mountain Pacific 6 p. m. 5 p. m. 4 p. m. 3 p. m. WBZ, WCX, WEAF, WMCA, WREO, WWJ. 7 6 KGO, KMA, WEAR, WEBJ, WGBS, WHAD, WJB, WMAQ, WOAW, WOK, WOR, WTIC, WJB, WJB, WAG, WOAW, WOK, WOR, WTIC, 8 p. 7 6 5 5 W MJ. 8 7 6 KFNF, KSD, KYW, WBZ, WCAE, WCAU, WCX, WEAR, WEEL, WGR, WHAR, WHT, WLS, WMBB, WGJ, WRC, WTIC.

Eastern Central Mountain Pacific 9 p. m. 8 p. m. 7 p. m. 6 p. m. KPDM, KFOA, KGO, KHJ, KLDS, KYW, WCAE, WCBD, WCCO, WEAF, WEEI, WGR, WHAS, WJAR, WLW, WMAQ, WOC, WORD, WTAG. 

Wednesday, April 21
Eastern Central Mountain Pacific 6 p. m. 5 p. m. 4 p. m. 3 p. m.
WCX, WEAF, WMCA, WREO, WWJ. 7 6 5 4 4 KGO, WEAR, WHAD, WJR, WMAQ, WOK, WITC.

Thursday, April 22
Eastern Central Mountain Pacific
6 p. m. 5 p. m. 4 p. m. 3 p. m.
WBZ, WCX, WEAF, WIP, WMCA, WREO,
WWJ.

WWJ. 7
7
KGO, KSD, WEAF, WEAR, WGBS, WHAD, WJR, WMAQ, WOAW, WOK, WWJ. 8
KYW, WBBR, WBZ, WCAU, WCCO, WCX, WEAR, WEEI, WGR, WGY, WHAR, WHT, WLS, WLW, WMBB, WOAW, WQJ, WTAG, WTIC.

WSB, WTAG.
10 9 8 7
KNX, KPRC, KTHS, KYW, WAMD, WGR, WGY, WHAD, WMC, WOAW, WOC, WSAI.
11 10 8 8
KGO, KPO, KTHS, WBAP, WKRC.
12 m 11 10
KGW, KPO, WHO, WKRC.

Eastern Central Mountain Pacific 6 p. m. 5 p. m. 4 p. m. 3 p. m. KGO, WCX, WMCA, WKEO, WWJ. 7 6 5 KGO, WCX, WKO, WGA, WHAD, WJR, WMAQ, WOAW, WOK, WOR, WTIC. 8 YWAM, WOAW, WOK, WOR, WTIC. 5 KYW, WAHG, WAMD, WBZ, WCAU, WCX, WEBJ, WEEL, WHT, WLS, WQJ, WWJ. 9 KFDM, KFNF, KFOA, KGO, KHJ, KSD, KYW, WBAP, WEZ, WCAU, WDAF, WEEL, WHAD, WIAR, WMAQ, WMCA, WSAI. 10 9 KFMA, KFDM, KOA, WCCO, WHAD, WMAQ, 11 10 9 KFMX, KHJ, KNX, KPO, WABQ. 12 m 11 10 9 KFNX, KHJ, KNX, KPO, WABQ.



program. KFRU, Columbia, Mo. (499.7m-600ke), 6:15 p. m.,

KFRU, Columbia, Mo. (499.7m-690%c), 6:15 p. m., dinner music.

KMA, Shenandoah, lowa (252m-1190%c), 6-7 p. m., May Flower trio; 9-11, May's Mandolin Musicians.

KMOX, St. Louis, Mo. (280.2m-1070%c), 6 p. m., organ recital, Arthur Utt; 6:30, organ recital, Mrs. Jacques Landree; 7, orchestra; Dr. Julius Bischof, "The Bert Williams of the Air"; character songs, Mrs. Jules Rotter; 8, "In a Persian Garden"; 9, selections from English classics; Mrs. Madeline Mattingley, reader, 10 dance music

In dance music.

Koll, Council Bluffs, Iowa (277.6m-1080kc), 6:05 p. m.,
Clara and Lucy; 6:30, Royal Fontenelle orchestra,
7:30, E. Maginis Durr, planist; 11, Hotsy Totsy hour,
FRG, Houston, Texas (296.9m-1010kc), 7:30 p. m.,
Harry Kobusch and his dance orchestra; Carl Moritz,
tenor; 8:30, Skyline studios concert.

KSD, St. Louis, Mo. (545.1m-550kc), 7-10:30 p. m.,
WEAR.

WEAF, KTHS, Hot Springs National Park, Ark. (374.8m-800kc), 9-10 p. m., Hot Springs Kiwanis club; 10-10:30, New Arlington hotel orchestra; 10:30-10:45, Joe Kuntz, ac-

cordionist.

KUOA, Fayetteville, Ark. (299.8m-1000ke), 8 p. m.,
musical program, students, Harry E. Shultz, Henry D. musical program, students, many ...
Tovey.

(Y.W. Chicago, III. (535.4m-560ke), 6-8:15 p. m.,
KDKA; 6:30-7. Congress hotel; 8-9. Henrietta Nolan,
violinist; Melody quartet; 10-1 a. m., evening at home.

WADC, Akron, Ohio (285.5m-1160ke), 6:30 p. m., Hotel
Portage quintet; 8, program; 9, frolic; 10, Times

Portage quintet; 8, program; 9, frolic; 10, Times Press hour.

WBAP, Fort Worth, Texas (475.9m-630ke), 6-6:30 p. m., Texas hotel orchestra; 7:30-8:30, Virginia Jackson Wright, pianist; 9:30-11, Maggie Overstreet.

WBBM, Chicago, III. (225.4m-1330kc), 8-12 midnight, Jack Crawford's Alemite orchestra; Tip trio; Pete Kules; Vivian Sheffer, contraito.

WCBD, Zion, III. (344.6m-870ke), 8 p. m., mandolin, guitar club; duet, Mr. and Mrs. Thomas: Mrs. LaRose, Mr. Barton; Mrs. B. Beem, soprano; Florence Farrar, contralto; Alice Peters, violinist; Daniel Mason, trombonist.

bonist.

WCCO, Minneapolis-St. Paul, Minn. (416.4m-720kc), 79 p. m., WEAF; 10:05, "A Step On the Stairs," serial drama, 7th episode.
WEBH, Chicago, ill. (370.2m-810ke), 7 p. m., Oriole
orchestra; 8, marimba band; saxophone quintet; saxopone quartet; Kathryn Forbes, soprano; 9-9:15, news;
9:15-10, Uptown theater; 11, Oriole orchestra; 12:30
a. m., Bernard Weber, tenor; Oriole trombone duo;
Mark Fisher. songs.

a. m., Bernard Weber, temor; Oriole trombone duo; Mark Fisher, songs. WENR, Chicago, Ill. (265.3m-1130kc), 6-7 p. m., Rauland lyric trio; 8-9, All-American Pioneers; 9-10, Moody Bible Institute evening hour. WFAA. Dallas, Texas (475.9m-630kc), 6:30-7:30 p. m., Jimmie Joy's orchestra; 8:30-9:30, Southern Methodist university faculty; bridge game; 11-12 midnight, Dallas Athletic club symphony orchestra. WDAF, Kansas City, Mo. (365.6m-820kc), 11:45-1 a. m., Nighthawk frolic; Ted Weems' Victor Recording orchestra. Billy Adair's orchestra; Johnnie Campbell's orchestra.

WGBF, Evansville, Ind. (236.1m-1270ke), 8 p. m., musicale. musicale:
WGN, Chicago, III. (302.8m-990kc), 6:55-7 p. m., Drake concert ensemble: 8-9, WEAF; 9-10, studio program; 10-10:10, Sam 'n' Henry; 10:10, music; 10:20, play shop; 10:40-11, studio ensemble: 8-9, music; 10:20, play shop; 10:40-11, studio ensemble: 8-9, instrumental music, string quartet; 9-10, popular dance program.
WHAS, Louisville, Ky, (399.8m-750kc), 7:30-9 p. m., concert, Eddie Rosson and his orchestra; Signor Louis Carosio.

Carosio.

WHO. Des Moines, Iowa (526m-570ke), 7:30-8 p. m., Raleigh quintet; 8-9, musical program; 11-12 midnight, Bankers Life Corn Sugar orchestra.

WHT, Chicago, III. (399.8m-750kc), 6 p. m., dinner organ recital, Al Carney; 6:40, Grayling's string trio; 6:50, Diamond quartet, Loftis; 9:15 (238m-1260kc), Cinderella cafe orchestra; 9:35 (399.8m-750kc), Kitchen Klenzer entertainers; 9:50, popular song selections; 12, Pat Barnes.

Klenzer entertainers; 9:50, popular song selections; 12, Pat Barnes.

WIBO, Chicago, III. (225.4m-1330ke), 6-8 p. m., dinner concert; Chester Newman, baritone; Bernice Taylor, soprano; Charlotte Edwards, contralto; Ruth Flick, reader; Helen Collar, pianist; string trio; 12, jamboree; Ted Fforto, Dan Russo, Gail Bandell, artists.

WJAD, Waco, Tex. (352.7m-1190kc), 8:30-10 p. m., Mrs. J. L. Staton and friends.

WJAZ, Chicago, III. (322.4m-930kc), 9-1 a. m.. Club

Chez Pierre; Chez Pierre Hawaiian trio; Earl Hoff-man's Chez Pierre orchestra.

WJJD, Mooseheart, III. (370.2m-810kc), 8-9 p. m., children; 10-11, Garod studio; Rushmore ensemble singers; Palmer House Victorians; 12:30 a. m., Settin' up hour.

singers; Paimer House Victorians, 12.50 a. m., Social up hour.
WKRC, Cineinnati, Ohio (422.3m-710kc), 10 p. m.,
Eugene Perazzo, organist; 11, Eddie Schoelwer, pianist; 11:15, Ace Brigode and his Virginians; 11:45,
blues and ballads, Marie Turner.
WLIB, Chicago, III. (302.8m-990kc), 7:30-8 p. m.,
WEAF; 11-11:20, Correll and Gosden; 11:20-12:30
a. m., studio ensemble, dance music, harmony duos.
WLS, Chicago, III. (344.6m-870kc), 6:40 p. m., Maurie
Sherman's College Inn orchestra; 7:15, Chicago Madrigal club.

Sherman's College 'Im orchestra; 7:15, Chicago Madrigal club.
WLW, Cincinnati, Ohio (422.3m-710ke), 6 p. m., Norrine Gibbons and her girl friend; 6:30, Mrs. R. S.
Montgomery, contralto; 7:30, piano memories, Mary
Louise Wosezek; 7:50, whistling solos, Frances Sel-lers; 8, old-time review, Crosley Burnt Corkers; 9,
concert program, Formica Insulation company, orches-tra.

lers; 8, old-time review, Crosley Burnt Corkers; 9, concert program, Formica Insulation company, orchestra.

WMAQ, Chicago, III. (447.5m-670ke), 6-7 p. m., Women's World's fair; 8-10, Women's World's fair.

WMBB, Chicago, III. (249.9m-1200kc), 7-8 p. m., Trianon ensemble; Geneviewe Burnham, soprano; Hilda Hinricks, cellist; 9-11, Trianon orchestra; Woodlawn theater orchestra; Eugene Plotnik; Oxford Girls; Harmony duo; Eddie Matts, Billie Donovan.

WMC, Memphis, Tenn. (499.7m-600kc), 8:30 p. m., musical program, Noble Crawford; 11, Britling cafeteria orchestra.

WNAD, Norman, Okla. (254.1m-1180kc), 7:20 p. m., Hessie Griffith, wocalist; Earl Barrett, vocalist; Dorothy Monnet, planist; Lolo June Harrison, violinist; Martha Wimberly, planist; WOAL, San Anthon, Texas (394.5m-760ke), 8:30 p. m., Gebhardt Mexican players.

WOAW, Omaha, Nebr. (526m-570kc), 6 p. m., Hugo G. Heyn, xylophomist; 6:30, Peony Park orchestra; 9, program; 10:30, Nightingale orchestra; 12, orchestra.

WOC, Davenport, Iowa (483.6m-620kc), 7-9, WEAR; 10-11; instrumental trio.

WOK, Chicago, III. (217.3m-1380kc), 10-1:30 a. m., Tearney's Town Club orchestra; Pershing Palaee orchestra; Capitol theater program; program.

WOOD, Grand Rapids, Mich. (241.8m-1240kc), 9-10 p. m., Roche's program, "Ye Olde Tyme Songe Feste," Roy Clark, Claude Lee, Beth Garrison; 10-11, Van Wyck instrumental quartet; 11-12, Bill Dallavo and his orchestra.

p. m., Roche's program,
Roy Clark, Claude Lee, Beth Garrison; 10-11,
Wyck instrumental quartet; 11-12, Bill Dallavo and
his orchestra.

WORD, Batavia, III. (275.1m-1090ke), 7 p. m., music;

147 5m.670ke). 7-8 p. m., Rainbo

WORD, Batavia, Ill. (275.1m-1090kė), 7 p. m., music; reading.

WQJ, Chicago, Ill. (447.5m-670kė), 7-8 p. m., Rainbo Garden ornetstra; Jean Carlson, soprano; Jean St. Anne, baritone; 10-1 a. m., Rainbo Skylarks; Rose Vanderboseh, soprano; Ila Shannabrook, soprano; Ist Shannabrook, soprano; Ist Shannabrook, soprano; staff artists; 1-2, Ginger hour.

WRR, Dallas, Tex. (245.8m-1230ke), 6-7 p. m., Jack Gardner's orchestra; 8-9, musical program.

WSAI, Cincinnati, Ohio (325.9m-920ke), 6 p. m., twilight musicale; 7, WBAF; 7:30, studio program; 8, WEAF; 9, new bridge laws; 10, musicale.

WBB, Atlanta, Ga. (423.3m-700kc), 8 p. m., Biltmore hotel orchestra; 10,45.

wsb. Atlanta, Ga. (426.5m.-700kf), 8 p. m., Bitchfore hotel orchestra; 10.45, entertainment.

WSM, Nashville, Tenn. (282.8m-1060kc), 10 p. m., frolic, Beasley Smith's orchestra; Edward Stockman, baritone; Jack Egan, Irish tenor.

WSOE, Milwaukee, Wis. (245.8m-1220kc), 9 p. m., classical musical program, Milwaukee County Federation of Women's clubs; 10, Leon Grieb, tenor; instrumental tric; soloists;

tion of Women's clubs; 10, Leon Grieb, tenor; instru-mental trio; soloists.

NSWS, Chicago, III. (275.8m-1090kc), 6 p. m., art-ists; 8, vocalists, Samovar orchestra; 10, Samovar or-chestra, staff artists; 12, studio features, Samovar orchestra; ballads, John Clark.

Mountain Time Stations egina, Canada (476m-640kc), 8 p. m., studio

program.

KFAU, Boise, Idaho (280m-1070ke), 8-10 p. m., studio program, Mrs. W. McReynolds, artists.

KFXF, Colorado Springs, Colo. (249.9m-1200ke), 8:30 p. m., Mildred Sanderson, planist; Cleveland Davis, baritime; Tammy Green, baritane; Jack Tucker, toper.

Satur S. Win S. Win S. Win S. S. Win S. S. Win S. S. Win S

Tue 9, Wel 9:30, W Wip; Kfve, Webh, Wmca, Kths; 1 10:45, Koil, V

Was a wind with the work of th

Frida Wwj; Weei, Wmbb; Wcau, Kpo, K Whn,

#### Tuesday, April 20

Eastern Central 8 p. m. 7 p. m. 6 p. m. 5 p. m. KFNF (263m-1140kc) Hawaiian concerts. 8:30 7:30 6:30 5:30 WHAS (399.8m-750kc) Zoeller's Melodists. WIZ, (454.3m-660kc), WGY (379.5m-790kc), Deltah Pearl hour. 8 7 Headliners Today

Pearl hour. 9 6 79.5m-790kc), Deltah 9 8 7 6 6 8 KDKA (309.1m-970kc) Girls' Glee club. KMOX (280.2m-1070kc) "In a Persian Garden." 9:30 8:30 7:30 6:30 WBZ (333.1m-900kc) Strathmore quartet. WIP (508.2m-590kc) Balcony scene, "Cyrano De-Bergerac." 9

10 9 8 7 WOOD (241.8m-1240kc) Ye Olde Time Songe Feste. WOOD (241,8m-1240kc) Ye Order Thire Source 2 to 1 1 10 9 8 KGO (361,2m-830kc) Eveready program. WOC (483,3m-620kc) Instrumental trio. WTIC (475,9m-630kc) Patriotic Day program. 11:05 10:05 9:05 8:05 WCCO (416,4m-720kc) "A Step On the Stairs." 12:45 a. m. 11:45 10:45 9:45 WKRC (422,3m-710kc) Blues and Ballads.

Tuesday, silent night for: CFCA, CHIC, CKNC, CNRC, CNRE, CNRM, CNRO, CNRT, CNRW, KUOA, KFUO, KFWA, KOA, KOAC, KOB, KOWW, KUOM, KSAC, KTAB, KWSC, KYX, WABG, WAHG, WAIU, WAMD, WBBR, WCAL, WCAP, WEMC, WGCP, WHAZ, WJAD, WJAZ, WKAF, WLWL, WMÄK, WMAZ, WOI, WOS, WRVA, WSMB, WSUI, WTAM, WTIC.

Eastern Time Stations

Eastern Time Stations
CNRA, Monotton, Canada (312.3m-960ke), 8 p. m., symphony quartet; Roberta Spender, pianis; Mrs. H.
Duchemin, mezzo-soprano; Mrs. H. Laidlaw, contralto;
B. McNeill, soprano; 10, CNRA orchestra,
KDKA, Pittsburgh, Pa. (362 tm-570ke), 6:30 p. m.,
dinner concert; 8:30, sacred song half-hour; 9, Girls'
glee club, Pikeville college; 11:35, Grand theater.
WBAL, Baltimore, Md. (245.2m-1220ke), 6:30-7:30
p. m., Hotel Lenox ensemble; 7:15, Hotel Kimball
trio; 8, French-English program; 9, William L. Spittal, tenor; 9:15, Katherine Gravelin, planist; 9:30,
Strathmore male quartet.

hmore male quartet.

Pittsburgh, Pa. (461.3m-550ke), 6:30 p. m.,
r concert, William Penn hotel; 8-11, WEAF;

dinner concert, William Penn hotel; 8-11, WEAF; 11:05, Kenyon theater.

WGAU, Philadelphia, Pa. (277.6m-1680kc), 6:30 p. m., Snellenburg instrumental trio; 8:10, Three Brothers; 8:25, Peter Ricci, baritone; Virginia Klein, pianist; 8:45, Charles Higgins and Joe Burke, popular songs; 9, Robert Fraser, blind gospel singer; 9:30, Esther Lawrence and players; 10, Eddie Malle and Danny Dougherty, songs; 10:30, Billy Hays and his Cathay Tea Garden dance orchestra.

WCX, Detroit, Mich. (516.9m-580kc), 6-7 p. m., Goldkette ensemble; 10-2 a. m., Red Apple club.

WEAR, Cleveland, Ohio (389.4m-770kc), 7 p. m., State theater vaudeville; 8-11, WEAF; 11, Wormack's Sing-

theater vaudeville; 8-11, WEAF; 11, Wormack's Singing syncopators.

WEAF, New York, N. Y. (491.5m-610ke), 4-12 midnight, string trio; United Synagogue of America, Vincent Lopez and his orchestra; Mabelanna Corby, Grand Prize Eurekas; Gold Dust Twins; Eveready hour; Moment Musicale; Vincent Lopez and his orchestra; Ross Gorman and his orchestra; Ross Gorman and his orchestra.

WEBJ, New York, N. Y. (272.6m-1100kc), 7 p. m., Dan Barnett's orchestra; 7:45, Charles Tobias; 8:15, Jennie Cree Gregory, soprano; 8:30, Ralberne orchestra.

Dan Barnett's orchestra; 7-145, Charles Tobias; 8:15, Jennie Cree Gregory, soprano; 8:30, Ralberne orchestra; WEEI, Boston, Mass. (348.6m-860ke), 6:05 p. m., popular songs, George Joy and Neil Canter; 7:30; musicale; 8-11, WEAF.
WFI, Philadelphia, Pa. (394.5m-760ke), 6:30 p. m., Bellevue Stratford concert orchestra; 7, Bellevue Stratford dance orchestra; 8-11:30, WEAF.
WGBS, New York, N. Y. (315.6m-950ke), 6:30 p. m., Bellevue Stratford dance orchestra; 8-11:30, WEAF.
WGBS, New York, N. Y. (315.6m-950ke), 6:30 p. m., Mac and Lennie, musicomidette; 7, Arrowhead Innoconcert orchestra; 10:30, Arrowhead dance orchestra.
WGHB, Clearwater, Fla. (265.3m-1130ke), 6:30 p. m., dinner music; 7:30-7:45, Giles W. Quarles; 8:30-9:30, good will program; 11:45-1 a. m., Ramble.
WGR, Buffalo, N. Y. (319m-940ke), 6:30 p. m. Yincent Lopez's Hotel Statler dance orchestra; 8:WEAF.
WGY, Schenectady, N. Y. (379.5m-790ke), 6:30 p. m., Hotel Van Curler orchestra; 7:45, WRC, WZZ; 8:30, WIZ; 8:30, WIZ;

WMCA, New York, N. Y. (340.7m-880ke), 6 p. m., Hotel

McAlpin string ensemble; 6:30, Parody orchestra; 7, Twin Oaks orchestra; 10, Creole Follies; 10:30, Tang orchestra; 11, orchestra; 12, entertainers. WNYC, New York, N. Y. (526m-570kc), 8 p. m., songs; 8:30, inable; 8:35 songs; 8:30 inable; 8:30 inable; 8:35 songs; 8:30 inable; 8:35 songs; 8:30 inable; 8:30 inab

WNYC, New York, N. Y. (526m-570kc), 8 p. m., songs; 8:30, piano; 8:45, songs.
WOR, Mewark, N. J. (405.2m-740kc), 6:45 p. m., Hotel Bretton Hall quartet.
WOO, Philadelphia, Pa. (508.2m-590kc), 7:30 p. m., Adelphia French Room orchestra.
WPG, Adamtic City, N. J. (299.8m-1000kc), 6:45 p. m., organ recital, Arthur Brook; 7, Hotel Morton dinner music; 8, Plaza hotel artists; Cecile Steiner, violinist; Margaret Irwin, pianist; Margaret Mancill, contralto; 8:30, Million Dollar Pier dance orchestra, Katz and His Kittens; 9, Chalfonte-Haddon hall dual trio; 10, Hotel Traymore Grill dance orchestra; 11, Katz and His Kittens; 11:30, Silver Silpper supper club dance orchestra.
WRC, Washington, D. C. (468.5m-640kc), 7:30 p. nl., U. S. Marine band orchestra WIZ WUX.

dance orchestra.

WRC, Washington, D. C. (468.5m-640ke), 7:30 p. ni.,
U. S. Marine band orchestra WJZ, WGY; 8:30, WJZ;
9, music; 10, WJZ; 10:30, Hotel Mayflower orchestra

WREO, Lansing, Mich. (285.5m-1060ke), 6-7 p. la.,

## A GIVES PROGRAM OF GAELIC MUSIC

chestra.

WEAO, Columbus, Ohio (293.9m-1020kc), 8:15 p. m., music; 9, orchestra.

WEAR, Cleveland, Ohio (389.4m-770kc), 7 p. m., Hotel

WEAR, Gleverand, Unit (389.4m-/70kc), 7 p. m., Hotel Cleveland orchestra.

WEBJ, New York, N. Y. (272.6m-1100kc), 8 p. m., Raymond orchestra; 8:45, Joseph Turkel, tenor; 9, Milton Yokeman, tenor; 9:15, Alfred Dulin, concert planist; 9:30, McLean's dance orchestra.

WEEI, Boston, Mass. (348.6m-860kc), 6:13 p. m., Joe Rines and his Hunters Cabin orchestra; 8-11, musicale.

Club orchestra.

Club orchestra.

WIP, Philadelphia, Pa. (508.2m-590ke), 6:05 p. m.,

Benjamin Franklin concert orchestra; 7, pupils, Louis

Dagar; 10, Fox theater studio program; 10:30, Sylvania dance orchestra.

WOR, Newark, N. J. (405.2m-740kc), 6:30 p. m., Jacques Jacobs' Hotel Shelton ensemble; 7:30, Zit's Central Park Casino orchestra; 9, Gertner's string quartet; 11, Billy Rose's 5th Avenue club orchestra.

WREO, Lansing, Mich. (285.5m-1050kc), 6-7 p. m., dinner concert, Speed-Wagon Serenaders; Gold Standard ensemble.

WRVA, Richmond, Va. (256.3m-1170kc), 8:20 p. m., Mayflower orchestra; 9:15, orchestra; 9:30, H. Pratt, pianist; 10:15, organ recital, Ernest Cosby; 11:15, Carry Me Back to Old Virginny.

WTAG, Worcester, Mass. (268m-1120kc), 8:9 p. m., WEAF; 9-10, Centurian orchestra; 10-11, WEAF.



#### ANCING

ntral Time
day, April
'7:
'Wnye, Wpg;
'faa; 8:35, Wgy;
h, Weei, Wmbi,
Xreo; 9:10, Kths,
:30, Kths, Wgbs,
Wrc; 10, Kfre,
Koa, Kpo,
Vir, Wkre, Wmea,
Vir, Wkre, Wmea,
Wor, Wdi,
10:05, Weeo;
Wamd; 10:45,
11, Kfpg, Kfwa,
Kpo, Webh, Wfaa,
Kpo, Webh, Wfaa,
Kpo, Webh, Wfaa,
Kpo, Kgw, Knx,
Wijd. entral Time

Kgo, Wjjd.

ay, April 19: 8, 9. Weel, Wgbu, Wor; 9:15, Wahg; Wgbu, Wgep, c, Wpg; 10:15, b, Kfoa, Wgep, Kgw, Koil, cp, Wgr, Whn, 45, Wdaf; 12,

day, April 20:
4, Wgbu, Wmbb;
7cau, Wgbs, Wgy,
9:35, Wnyc; 10,
Wbbm, Weaf,
Wgbu, Wgn, Whn,
Wnyc, Wpg; 10:15,
0:30, Kths, Whn;
Wsb; 11, Kgw,
7gbu, Wm; 11:30,
11:45, Wdaf; 12,
Khi, Knx, Kpo,
1, Wqj. Khj, K l. Wqj.

1, WqJ.
ssday, April 21:
x, Webh, Wgbu,
Vlm, Who, Wnbb,
t, W tic: 9:15,
9:30, Wbap, Who,
10, Kfve, Wbap,
Vgbu, Wgcp, WqJ:
Wc co: 10:30,
Whn; 11, Koil,
Web h, Wgbu,
Wgr, Whn; 11:45,
12, Kfwa, Knx,
/jjd.

day. April 22:
; 9, Webh, Weei,
, W h n, W j r,
Wsai, Wtag; 9:05,
Vip; 9:30, Wgbs,
Vhn; 9:35, Wnye;
is, Wbbm, Weaf,
Whn, Wmaa, Wpg,
0:30, Kths, Whn,
Wgbu, Whn, Woc,
Wdaf; 12, Kgo,
nx, Kpo, Wjid.

y, April 23: 8, 9, Wex, Webh, Wgbu, Wgep, 9:15, Wahg; 9:30, Whn; 10, Kfve, ths, Wgbu, Wgep, Vgr, Wqj.

KOA, Denver, Colo. (322.4m-930ke), 6:30 p. m., Brown Palace string orchestra.

Palace string orchestra.

Pacific Time Stations

CNRV, Vancouver, Can. (291.1m-1080kc), 8:30 p. m., studio program; Charles Marsh, pianist; Jessie Beldon, cellist; B. Morgan, violinist; Gordon Marsh, violinist; Mrs. Hazen Phillips, vocalist; 10:30, Cabaret Belmont orchestra; Bebe Mullar, soprano.

KFI, Los Angeles, Calif. (467m-642kc), 7-8 p. m., Chinese Gardens orchestra; 8-9, screen artists' string quartet; 9-10, program, A. V. Shotwell corporation; 10-11, Packard Ballad hour.

KFON, Long Beach, Calif. (232.4m-1280kc), 8-9 p. m., Press-Telegram studio; 9-11, Long Beach Aero club frolic.

Press-Telegram studio; 9-11, Long Beach Aero club frole.

(FWB, Hollywood, Calif. (252m-1190ke), 6:30-7:30 p. m., Pontiac Six Dinner hour; 8-9, Patrick-Marsh dance orchestra; Betty Patrick, soloist; 9-10, Guzman trio; 10-11, Warner Brothers frolic.

(KGO, Oakland, Calif. (361.2m-830kc), 8-9 p. m., Eveready program; Mishel Plastro, violinist; Lev Shorr, pianist; 9:10-10, Berneice Giffen, soprano; Walker Sisters; Al Rosa, baritone; Ladies' quartet; Triple male quartet; Frances Minton, accompanist; 10-12 midnight, dance music, Madson's Midshipmen.

(KGW, Portland, Orc. (491.5m-610kc), 6-7 p. m., Olds, Wortman and King company; 8-10, Alicia McElroy quartet; 10-12, Herman Kenin's dance orchestra.

(KJ, Los Angeles, Calif. (495.2m-740kc), 8-10 p. m.,

Rines and his Hunters Cabin orchestra; 8-11, musicale.

WFI, Philadelphia, Pa. (394.5m-760ke), 6:30 p. m.
Bellevue Stratford concert orchestra; 7, Bellevue Stratford dance orchestra; 7, Bellevue Stratford dance orchestra; 7, Bellevue Stratford dance orchestra; 12, 265.3m-1130ke), 6:30-7:30 p. m., dinner music; 8:30-9:30, Rex Danzler, tenor; Marion Hoffman, pianist; 11:45-1 a. m., Graham Prince and his orchestra.

WGR, Buffalo, N. Y. (319m-940ke), 6:30 p. m., Gospel Melodists; 8, WEAF; 10, E. A. Wills Wallpaper and Paint stores program; 10, 30, H. C. Weasner popular program; 11, Club Royale orchestra.

WGY, Schenectady, N. Y. (39.5m-790kc), 7 p. m., Eastman theater, WHAM; 8:05, WHAM, WHN, New York, N. Y. (361.2m-830ke), 7:30 p. m., organ recital; 8, Vogue entertainers; 9:10, orchestra; 10:30, Anatol Friedland; 11, orchestra; 12, Cotton Club orchestra.

group.

KTAB, Oakland, Calif. (239.9m-1250kc), 8-10 p. m.,

Mills college.

#### Wednesday, April 21

Headliners Today

Wednesday, silent night for: CHIC, CKAC, CKNC, CNRA, CNRC, CNRE, CNRM, CNRR, CNRT, CNRV, KFAU, KYXF, KGO, KLDS, KMMJ, KOB, KOIL, KYSN, KSAC, KTAB, KUOA, WABQ, WAIU, WBAL, WBBR, WGAL, WCBD, WEBW, WFAA, WGBF, WGBS, WGCP, WHAR, WHAZ, WIP, WJAD, WJAZ, WLWL, WMC, WOAI, WOAW, WOI, WPG, WRC, WRR.

Eastern Time Stations

#### FARMERS' PROGRAMS INDEX

#### Farmer Dinner Concerts Daily Except Sunday

CENTRAL TIME KFNF, 12:15-1:35 p. m. KMA, 11:30-12:30 KSO, 12:30-1:30 p. m. WLS, 12 noon.

Eastern Central I a.m. | Pacific I a.m. Saturday, April 17

Sunday, April 18 Eastern Central Mountain Pacific 3:30 p. m. 2:30 p. m. 1:30 p. m. 12:30 p. m. WFAA (475.9m-630ke) Sunday hour for farmers.

Care."
7:10 6:10 5:10 4:10
WEAO (293.9m-1020kc) "Fruits—Scale, Scat and Worms."

Worms. 6:45 6:45 4:45
KFXF (288.3m-1040ke) "It Pays to Dodge the Round Worm."
WSOE (246m-1220ke) Hog Raising. 8 WOS (440.9m-680kc) Livestock questions and

WOS (440.9m-680kc) Livestock questions and answers.

8:30 7:30 5:30 5:30
KUOA (299.8m-1000kc) Farm Filosofy, Cy Adams.
WMC (499.7m-600kc) Farm talk.

8:45 7:45 6:45
WCC0 (416.4m-720kc) "Alfalfa—Sweet Clover."
WOI (270.1m-1110kc) "The Farmer and Fire Protection Week."
WTIC (475.9m-630kc) "Getting a Better Hay Crop This Year."

9 8 7 6 9 8 7 6 WOS (440.9m-680kc) "Putting Wool in Shape to

WOS (440.9m-680kc) "Putting Wool in Shape to Sell."

9:30 8:30 7:30 6:30

KOB (248.6m-860kc) "Horticulture."

KOAC (280.2m-1070kc) Agricultural question box.

"Developing a Dairy Herd."

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

WOAC (280.2m-1070kc) "Farm Concrete Construction."

10:45 8:45 7:45

KOAC (280.2m-1070kc) "Oregon's Agricultural Situation."

11:305 10:05 9:05 8:05

11:05 10:05 9:05 8:05 KGO (361.2m-830kc) "Rebuilding the Forests."

Tuesday, April 20 Eastern Central Mountain Pacific
12 n. 9 a.m.
WRC (468.5m-640ke) Fifty Farm flashes.
15 p. m. 12:15 p. m. 11:15 10:15
WOC (483.5m-620ke) "Answers to Some of Your
Foultry Problems."

1:45 p. m. 12:45 p. m. 11:45 a. m. 10:45 a. m. WMAQ (447.5m-670ke), Radio farm school. WOI (270m-1110ke) "Animal Husbandry." 8 7 6 p. m. 5 p. m. KFKX (288.3m-1040kc) "Internal Poultry Para-| KFKX | (288.3m-1040k0| | 'Internat Foultry Farasites.' | KFRU | (399.8m-750kc) | 'The Use of Lime on Spring Planted Crops.' | 8.33 | 5.33 | 5.33 | KYW | (535.4m-560kc) | American Farm Bureau Federation. | 9.30 | 8.30 | 7.30 | 6.30 | KOA | (322.4m-930kc) | Farm question | box. |

#### Wednesday, April 21

Eastern Central Mountain Pacific 10 a. m. 9 a.m. Eastern Central Mountain Pacific
12 noon II a. m. 10 a. m. 9 a.m.
WRC (468.5m-640kc) Fifty farm flashes.
1:15 p. m. 12:15 p. m. 11:15
WOC (483.6m-620kc) "Summer Water Supply."
1:30 12:30 10:30
WFAA (475.9m-630kc) Sears-Roebuck Agricultural program.
1:345 12:45 11:45 10:45
WMAQ (447.5m-670kc) Radio Farm school.
WOI (270m-1110kc) Poultry husbandry.
8 7 6 p. m. 5 p. m.
WOS (440.9m-680kc) Evening market hour, poultry questions and answers.
9 8 7
WHA (535.4m-560kc) "Home Ground Trees."
10:15 9:15
KWSC (348.6m-860kc) "Improving the Lawn."
"The Value of Soil and Crop Demonstration."

#### Thursday, April 22

Eastern Central Mountain Pacific 12 noon 11 a. m. 10 a. m. 9 a.m. WRC (468.5m-640kc) Fifty farm flashes. 1:15 p. m. 11:15 p. m

#### Friday, April 23

Central Mountain Pacific Eastern Eastern Central Mountain Pacific
12 noon 11 a.m. 10 a.m. 9 a.m.
WRC (488.5m-640ko) Fritty Farm Flashes.
1:15 p.m. 12:15 p.m. 11:5 p.m. 11:5
WOC (483.6m-860ke) Special Farm Service Day.
KTHS (374.8m-800ke) Farmers' Radio Chautauqua.
1:45
WOI (270m-1110kc) Agricultural Economics.
8 7 6 p.m. 5 p.m.
KFKX (288.3m-1040kc) Special Farm Service
Day. 

Bond trio; 8, Clef male quartet; Arcadia Ladies quartet; 9:15, Laura C. Gaudet, pianist; Esther A. Nelson, organist.

WWJ, Detroit, Mich. (352.7m-850ke), 6 p. m., dinner concert; 8, News orchestra; 9, dance program; 10, WEAF.

Central Time Stations CKY, Winnipeg, Canada (384.4m-780ke), 7:30-11 p. m., Canadian National Rafilway's program.

CNRW, Winnipeg, Canada (384.4m-780ke), 7:50 p. m., musical program, Ft. Garry hotel orchestra; 8:50, Helen Tennent, soprano; Norrie Duthie, contraito; W. Anderson, tenor; A. Diehl, tenor; F. Hughes, baritone; 10, supper dance program, Ft. Garry hotel orchestra, KFAB, Lincoln, Nehr. (340.7m-880ke), 5:30-6:30 p. m., dinner concert; 8:30-10:30, request night, staff artists.

KFKX, Hastings, Nehr. (288.3m-1040ke), 9 p. m., Lincoln, Nebr., program.

KFMX, Northfield, Minn. (336.9m-890ke), 9-10 p. m., musicale. musicale.
KFNF, Shenandoah, lowa (263m-1140ke), 7 p. m., concert.
KFRU, Columbia, Mo. (499.7m-600ke), 9 p. m., musical

program.

KMA, Shenandoah, Ia. (252m-1190kc), 6-7 p. m., popular music; 9-11, songs and clog dancing, Bob and Babe Riddle; Willy Cunningham, farmer Scotcham, KMOX, St. Louis, Mo. (280,2m-1070kc), 6 p. m., Arthur Utt, organist; 6:30, Mrs. Jacques Landree, organist; 7, orchestra; 8, Mrs. Henry Bowden, pianist; orchestra; 8, Missouri theater orchestra, song cycle; 10, dance music.

orchestra; 9, Missourt theater orchestra, song cycle, 10, dance music.

KPRC, Houston, Texas (296.9m-1010kc), 6:30 p. m., Harold Oxley's Warwick hotel orchestra; 7:30, Jack Willrich's orchestra; Virginia Willrich, piano accordionist; 8:45, Frank Tilton, boy pianist; 10:30, Vaughan's Virginians.

KSD, St. Louis, Mo. (545.1m-550kc), 7 p. m., WEAF; 7:30, Hotel Statler orchestra; 8, WEAF, KTHS, Hot Springs National Park, Ark. (374.8m-800kc), 9-9:15 p. m., Lawson Reid, organist; 9:15-9:30, Violet Belding, contralto; 9:30-10, Indian music; 10-10:45, Southerners orchestra.

Southerners orcnestra. KYM. Chicago, III. (535.4m-560kc), 6-6:15 p. m., KDKA; 6:30-7, orchestra; 7:30, half hour of music; 9, Edison company; 10, revue. WADC, Akron, Ohio (285.5m-1160kc), 6:30 p. m., Hotel . (535.4m-560kc), 6-6:15 p. m., hestra; 7:30, half hour of music;

WIP, Philadelphia, Pa. (508.2m-590kc), 6:05 p. m. Benjamin Franklin concert orchestra; 7, pupils, Louis Sterret Hazel studio.

WIR, Pontiae, Mich. (516.9m-580kc), 7 p. m., Petite symphony; 7:45, Goodwill; 9, Jean Goldkette's orchestra; 11, organ; 12, Jewett Jesters.

WLIT. Philadelphia, Pa. (394.5m-760kc), 8:30 p. m., Progress Points; 10, Arcadia cafe dance orchestra; 10:45, El Patio dance orchestra. 130kc), 7:30 p. m., MAK, Buffalo, N. Y. (265.3m-1130kc), 7:30 p. m., Marry Jackson, tenor; 8-8:30, George Hurst, violinist; Mrs. Sexsmith, planist; 8:30-9:30, musicale; 9:30-10, Mrs. Gertrude Zimmerman.

WMCA, New York, N. Y. (340.7m-880kc), 6 p. m., M. Hotel McAlpin string ensemble; 6:30, orchestra; 9, Mamaroneck night; 10:30, Creole Follies; 11, Hofbrau Haus entertainers; 11:30, Jack Denny's orchestra; 12 midnight, entertainers; 12:15, Parody orchestra; 12 midnight, entertainers; 12:15, Parody orchestra; 12 midnight, entertainers; 12:15, Parody orchestra; 12 midnight, entertainers; 8, WEAF; 9:25, Rev. Forest Dagar; 10, Fox theater studio program; 10:30, Sylvania dance orchestra.

WOR, Newark, N. J. (405.2m-740kc), 6:30 p. m., Jac-

9. Edison company; 10, revue.

WADC, Akron, Ohio (285.5m-1166ke), 6:30 p. m., Hotel
Portage quintet.

WAMD, Minneapolis, Minn. (243.8m-1230ke), 7:05
p. m., Hartman Twins, Frank and Earnest; 7:10,
classical program, quartet; Evan Nelson, banjoist;
Cedric Cady, violinist; Bob Adams, saxonhonist; Walter Finke, planist; 11, Skyrocket frolic.

WBAP, Fort Worth, Texas (475.9m-630ke), 8-6:30 p. m.,
Texas hotel orchestra.

WBBM, Chicago, III, Skyrocket, 8-6:30 p. m.,
Texas hotel orchestra.

WBBM, Chicago, III, Skyrocket, 8-6:30 p. m.,
Texas hotel orchestra; Billy Spears, tourist bureau; 99:15, old song period; Philip Nilles, tenor; Floyd
Falch; 12-2 a. m., Alemite orchestra; Harold Anderson, accordionist; Sy Berg, Bob Witarold Anderson, accordionist, Sy WEAF; 9, Nash Finch concert orchestra; 11:30, organ recital, Eddic Dunstedter.

WDAF, Kansas City, Mo. (365.6m-220ke), 8-9 p. m.,
Park college glee club; 9-10, classical musical program; Mrs. J. Lobb, soprano; Star's orchestra; 11:451 a. m. Nighthawk frolic;

WEBH, Chicago, III. (370.2m-810ke), 7 p. m., Oriole
orchestra; 8, Oriole string trio; 9-9:15, news flashes;
9:15-10, Frank Bordner, songs; Florence Behrend, sopranc; 11-12:30 a. m., Oriole orchestra; Florence Beh-

rend, impromptu review; Bernice Follis; Oriole or-

rend, impromptu review; Berlice Follis; Oriole orchestra.

WENR, Chicago, III. (265.3m-1130kc), 6-7 p. m., Rauland lyric trio; 8-10. All-American Pioneers; 12-2
a. m., All-American Pioneers; 21-2
brake Seligman and his Kentucky Night Owls.

WHB, Kansas City, Mo. (365.6m-820kc), 7-8 p. m.,
Henry Klotz and Peggy Nash, songsters.

WHO, Des Moines, Iowa (526m-570kc), 6-7 p. m.,
Bankers Life symphonic orchestra; 7:15-8:15, Irene
Doran and her Little symphony orchestra, 3:15-9, Dr.
and Mrs. H. Hurd. Hawaiian guitarists; Four Musketeers; 9-12 midnight, dance program.

WHT, Chicago, III. (399.8m-750kc), 6 p. m., Bernice
Taylor, soprano; Hugh Aspinwall; 7:45-9:15, Cinderella
cafe orchestra; 9:30, Al Carney and Pat Barnes; 10:95,
Ray-O-Vac concert; 11:15, Cinderella cafe orchestra;
11:30, Pat Barnes and Al Carney; 12, Pat Barnes
and Al Carney.

WIBO, Chicago, III. (225.4m-1330kc), 6-8 p. m., dinner
program; Charles Champlin, barltone; H. Miller,
tenor; 10-12, popular program; Elsie Orr, soprano;
Melbodist Orphans; home program.

Melody Strummers.

WIAD, Waco, Tex. (352.7m-1190kc), 8:39-10 p. m. Methodist Orphans' home program.

WIAZ, Chicago, Ill. (322.4m-930kc), 9-1 a. m., Or club; "Spike" Hamilton's orchestra; Johnny Mula Bluejackets.

Bluejackets.

WJJD, Mooseheart, III. (370.2m-810ke), 8-9 p.m.,
Mooseheart children; 10-11, Isabel Defaut,
Simeon
Oliver, Palmer House Victorians; 12:39 a.m., Settin'
Up hour.

WLIB, Chicago, III. (302.8m-990ke), 7:30-7:50 p.m.,
Auld Sandy; 7:50-8, musical program; 11-11:20, Correll
and Gosden; 11:20-12:30 a.m., studio ensemble, dance
music, harmony duos.

and Gosden; 11:20-12:20 a. m., studio ensemble, dance music, harmony ducs.

WLS, Chicago, III. (344,6m-870kc), 6:40 p. m., Maurie Sherman's College Inn orchestra; 7:30, Ralph Emerson, organist; 8, "Morning of the Year"; 9, U. of Chicago glee club; 9:30, WLS tric; 10, popular music program; 11-1, WLS circus.

WLW, Cincinnari, Ohio (422,3m-710kc), 7 p. m., Hotel Gibson, orchestra; Thorobred tric; entertainers; 11, Latonia Medody Boys; 11:15, organ request program, Johanna Grosse.

WMAQ, Chicago, III. (447.5m-670kc), 6-7 p. m., Women's World's fair; 8-10, Women's World's fair, WMBB, Chicago, III. (249.9m-1200kc), 7-8 p. m.; 2

Johanna (Grosse. III. (447.5m-670ke), 6-7 p. m., Women's World's fair; 8-10, Women's World's fair; WMBB, Chicago, III. (249.9m-1200ke), 7-8 p. m., Eleanor K.plan, violinist; Preston Graves, planist; Edwin House, baritone; 9-11, Trianon orchestra; Woodlawn theater orchestra; Eugene Plotnik, Scotty Welch, hadison Sisters; Eddie Wallace, tenor.
WNAD, Nerman, Okla. (254.1m-1180ke), 7:40 p. m., Josephire Luttrell, planist; Dick Holt, banjoist; Bill Dougherty, guitarist.
WOAI, San Antonio, Texas (394.5m-760ke), 8:30 p. p., Fort San Houston.
WOC, Davenport, Iowa (483.6m-620ke), 7-7:30 p. m., WEAF; 9-9:30, Earl Ferris Nursery tric; 9:30-10:30, Erwin Swindell, organist.
WOK. Chicago, III. (217.3m-1380ke), 10 p. m., 1:39 a. m., Tearney's Town club orchestra; Pershing Palac orchestra; Capitol theater program; program.
WOOD, Grand Rapids, Mich. (241.8m-1240ke), 9 p. m. 12 midnight, popular program, Sixteen Fingered Paul, Moke Marrin, artists; Bill Dallavo and his orchestra. WORD, Batavia, III. (275.1m-1090ke), 7 p. m., North

the second second

### FAMOUS RUSSIAN ARTIST AT WMC



This charming young lady is one of the pianists of WHAD, Milwaukee. Her name is Wilma Anderson.

#### Wednesday, April 21

Shore line; 9, Webster hotel concert trio, I. B. S. A.

thora sh 7678.

WOS, Jefferson City, Mo. (440.9m-680kc), 8:15 p. m.,
chamber of commerce Willow Springs; 10, Miles Carpenter, dulcimer soloist.

WQJ, Chicago, Ill. (447.5m-670kc), 7-8 p. m., Rainbo
Garden orchestra; Kenneth Sterling, baritone; Leo
Miller, violinist; 10-1 a. m., Melodians; Oxford Girls;
Skylarks; 1-2, Ginger hour.

SAI, Cineinnati, Ohio (325.9m-920kc), 6:45 p. m.,
chimes; 7-9, WEAF; 9, musicale; 10:15, quartet.

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

BBT, South Bend, Ind. (275.1m-1090kc), 7:15 p. m.,
rchestra, concert.

SBT, South Bend, Ind. (275.Im-1090ke), 7:15 p. m., prehestra, concert.

SM, Nashville, Tenn. (282.8m-1060kc), 6:30 p. m., Francis Craig's orchestra; 8. chamber music, Vito's prehestra; 10. Leon Frank Music school. KftC, Cincinnati, Ohio (422.3m-710ke), 6 p. m., dinner music, Alvin Roehr and his orchestra; 8:15, Winnie Pippin, soprano; Oliver Plunkett, tenor; 9, instruental quintet, soloist; 12 midnight, Wesley Helvey and his orchestra. Wis. (245.8m-1220kc), 9 p. m. Herbert Schroeder, comedian; Riley Brothers harmonica duo; Emil Cords, pianist; 10:39, popular concert, Hollywood symphony orchestra.

SWS, Chicago, Ill. (275.8m-1906kc), 6 p. m., vocal artists; 8, Samovar orchestra, violin and piano selections; 10. Samovar orchestra, artists.

Mountain Time Stations

MA. Ogden, Utah (266.7m-1150kc), 9-10 p. m., Olie eves and his dance orchestra; 10-11, music, Paratt theater; 11-12, Olie Reeves and his dance or

The theater; 11-12, One Reeves and his dance of the control of the

Mrs. Chase Doster, soprano; KOA orchestra; 10-12, Broadmoor Rhythm Rustlers.

Pacific Time Stations

KFI, Los Angeles, Calif. (467m-642ke), 7-7:30 p. m., Grebe Synchrophase string ensemble; 7:30-8, Nick Harris' detective story; 8-9, program, Ventura Refining company; 9-10, Chevrolet Motor Company of California; 10-11, popular hour.

KFON, Long Beach, Calif. (232.4m-1280ke), 7-8 p. m., Markwell Salt Water Taffy shop; 8-9, Press-Telegram studio; 9-10, Prizma hour; 10-11, Orloie orchestra.

KFWB, Hollywood, Calif. (252m-1190ke), 6:30-7:30 p. m., Pontiae Six dinner rout; 8-9, Sphinx Motor Oil company; 9-9:30, Bill Hatch's Oakmont Country club orchestra; 9:30-10, Mutual Motors mirth contest; 10-11, Warner Brothers frolic.

KGW, Portland, Ore. (491.5m-610kc), 6-7 p. m., Olds, Wortman and King company; 8-9, Western Auto Supply company; 9-10, instrumental music; 10-11, Sherman Clay and company.

KHJ. Los Angeles, Calif. (405.2m-740kc), 7-7:30 p. m., Huntington Park Union high school orchestra; 8-10, Joe Arias and his Mexican entertainers.

KIR, Seattle, Wash. (334.4m-780kc), 7-8:30 p. m., Sears, Roebuck and company program; Bab's Lady orchestra; 8:30-10, Post Intelligencer program.

KLX, Oakiand, Calif. (598.2m-590kc), 6:30-7 p. m., MTR, Hollywood, Calif. (238m-1260kc), 8-10 p. m., MTR, Hollywood, Calif. (336.9m-20, 800kc), 6:30-7 p. m., MTP, Hollywood, Calif. (336.9m-20, 800kc), 6:30-7 p. m., MX, Hollywood, Calif. (336.9m-20, 800kc), 6:30-7 p. m., Delke, MX, Hollywood, Calif. (336.9m-20, 800kc), 6:30-7 p. m., Delke, MX, Hollywood, Calif. (336.9m-20, 800kc), 6:30-7 p. M., MX, Hol

KMTR concert orchestra, Dan Gridley, tenor; 10-11, Starr Piano company studio, KNX, Hollywood, Calif. (336.9m-890ke), 6:30-7 p. m., Atwater Kent concert orchestra; 7-8, program, Dellarrowe Drug company; 8-9. Security Trust and Savingbank; 9-11, Daley's 165 grocery stores; 11-12 midnight, Ambassador hotel dance orchestra. (KPO, San Francisco, Calif. (428.3m-700kc), 6:30-7 p. m., States restaurant orchestra; 7-7:30, Rudy Seiger's Fairmont hotel orchestra; 8-9, Atwater Kent artists; 9-10, Goodrich Silvertown Cord orchestra; 10-11, State, restaurant orchestra.

restaurant orchestra. With Cord orchestra; 1816; restaurant orchestra. KTAB, Oakland, Calif. (239.9m-1250kc), 8-10 p. m., Western States Life Insurance company. KWSC, Pullman, Wash. (348.6m-860kc) 7:30-9 p. m., Frances Premo. planist; Olga Kraus, violinist; Margaret Ness, vocalist.

#### Thursday, April 22

Headliners Today

club. 9.30 7.30 6.30 WFAA (475.9m.630kc) Little Symphony. 9 8 7 Cotton Belt Male quartet. WJAZ (322.4m-930kc) Classical program.

Eastern Central Mountain Pacific 10:30 p.m. 9:30 p.m. 8:30 p.m. 7:30 p.m. 7:30 p.m. WSOE (245.8m-1220kc) Old-fashioned program. 11 9 8 KGO (361.2m-830kc) "Hazel Kirke" comedy drama. KPO (428.3m-700kc) Metropolitan quartet. 12 m. 11 10 9
WBAP (475.9m-630kc) "A Step On the Stairs," mystery serial.

Thursday, silent night for: CHIC, CKNC, CNRA, CNRE, CNRO, CNRR, CNRT, CNRV, CNRW, KFAB, KFAU, KFMX, KFOA, KFUO, KFWA, KLX, KMOX, KOA, KOAC, KOB, KSAC, KWSC, PWX, WABB, WAFD, WAHB, WAIU, WCAP, WCEE, WDOD, WEAO, WEBJ, WEBW, WEMC, WGBF, WHAD, WHAZ, WJJD, WMAK, WMAZ, WOOD, WOR, WOS, WSM, WSUI, WTAM.

Eastern Time Stations

Eastern Time Stations

KDKA, Pittsburgh, Pa. (309.1m-970kc), 6:30 p. m.,
dinner concert; 8:30, Gaelic music, KDKA little symphony orchestra; 9, glee club, Allegheny General Hospital School of Nursing; 11, concert.

WBAL, Baltimore, Md. (245.8m-1220kc), 6:30-7:30
p. m., orchestra; 7:30-8, Frederick D. Weaver, organist; 8-10, Louise Henderson, sopranc; Georgic Kelly, contralto; Edith Reinbardt, sopranc; Ruth Hutzler, pianist; Ruth Schumacher, contralto; Meivin Moritz, hartione

planist; Ruth Schumacher, contraito; Meivin Moritz, bartione.

WBBR, New York, N. Y. (272.6m-1100kc), 8 p. m., Josephine Locke, violinist; Elizabeth Paul, soprano. WBZ. Springfield, Mass. (333.1m-900kc), 6:30 p. m., Hotel Kimball trio; 6:45, Hotel Lenox ensemble; 7. Hotel Kimball trio; 7:30, Alice Ruth Mulally, soprano; 8, Leo Reisman's orchestra; 9, Julius Hartt School of Music; 9:30, Arthur Clifton, organist; 10:03, Edward J. McEnelly and his orchestra. WCAE, Pittsburgh, Pa. (261.3m-650kc), 6:30 p. m., dinner concert, William Penn hotel; 8:30-11, WEAF, WCAU, Philadelphia, Pa. (277.6m-1080ko), 6:30 p. m., Billy Hayes and his Cathay Tea Garden dance orchestra; 7:30, Snellenburg symphony orchestra; 8, Eight Bright Boys; 8:30, Norman Barr, baritone; Virginia Klein, pianist; 8:45, Kandy Kids; 9, Barry O'Moore, Irish tenor; 9:30, Musical Chefs; 9:45, comedy lesson, Professor Doollitle; 10, Sesquicentennial hour; 11, Parodians' dance orchestra; 11:36, Club Madrid orchestra.

Central Time Stations

CKY, Winnipeg, Canada (384.4m-780ke), 8:30 p. m., concert, Winnipeg Home Welfare association.

KFKU, Lawrence, Kan. (275.1m-1090ke), 7:15 p. m., Louise Flores soprano; Ario Hults, planist.

KFNF, Shenandoah, lowa (263m-1140ke), 7 p. m., double male quartet, Griswold.

KFRU, Columbia, Mo. (499.7m-500ke), 6:15 p. m., dinner music.

dinner music.

KMA, Shenandoah, Ia. (252m-1190kc), 6-7 p. m., regular dinner hour program; 9-11, Delmonica Dreamers' dance orchestra.

KO1L, Council Bluffs, Iowa (277.6m-1080kc), 6:05 p. m., Wilson Doty, pianist; 6:35, Imperial dance orchestra; 7:15, Bernice Clizce; 7:30, Clara Kurtz; 8:15, Janses B. Wrath, baritone; 11, Hotsy Totsy hour.

KPRC, Houston, Texas (296.9m-1010kc), 7:30 p. m., Blanchard's dance orchestra; 8:30, Skyline studios program.

Blanchard's dance officiestra; 6:30, Saythe Studies program.

KSD, St. Louis, Mo. (545.Im-550ke), 7 p. m., WEAF; 7:30, Esmeralda Berry Mayes, pianist; 8-10, WEAF; KTHS, Hot Springs National Park, Ark. (374.8m-800ke), 9-9:45 p. m., Cotton Belt male quartet; 9:45-10:30, New Arlington hotel orchestra.

KUOA, Fayetteville, Ark. (299.8m-1000kc), 8:30 p. m., Lorraine Allen, pianist.

KYW, Chicago, III. (535.4m-560kc), 6-6:15 p. m., KDKA; 8:20-9, Congress hotel; 9, musicale; 10-12, revue.

KDKA; 8:20-9, Congress hotel; 9, musicale; 10-12, revue.

WADC, Akron, Ohio (285.5m-1160kc), 6:30 p. m., Hotel Portage quintet; 9:30, studio program; 10, WEAF, WAMD, Minneapolis, Minn. (243.8m-1230kc), 7:05 p. m., Hartman Twins, Frank and Ernest; 7:30, Uncle Bert; 11:30, organ recital, Clifford Perry.

WBAP, Fort Worth, Texas (475.9m-630kc), 6-6:30 p. m., Texas hotel orchestra; 7:30-8:30, Davis Saxophone octet; 9:30, Harmony club; 11, "A Step On the Stairs." WBBM, Chicago, III. (225.4m-1330kc), 8 p. m.-12 midnight, Matched Unit quartet; Ariston trio; song period; Two Jays; Maurice Silverman.

WCBD, Zion, III. (344.6m-870kc), 8 p. m., male chorus, Celestial bells; Mrs. Esther Rendall, soprano; Carey Sisters; R. F. Reid, baritone; George Beem, xylophonist.

WCCO, Minneapolis-St. Paul, Minn (416.4m-720kc), 7:30 p. m., Northern Pacific program; 8, WEAF; 9-10, WEAF.

WDAF, Kansas City, Mo. (365.6m-820kc), 11:45-1 a.m., Nighthawk frolic; Ted Weems' Victor Recording or-

### Atwater Kent Program, April 18, over WEAF and Chain\* SCHOLA CANTORUM OF NEW YORK Kurt Schindler, Conductor

"Jesu dulcis memoria" Spanish Wotets

(b) For Women's Voices:
Song from Shakespeare's "Twelfth Night"
The Gardener. Brahms Wedding Song from the opera "Sadko". Rimsky-Korsakoff (c) Lyric Pastorals:
"To Lovely Groves," (Bergerette). Tessier "Love Me Truly Sheperdess," (Bergerette). Lefevre "Mon ami est monte" (French-Swiss). Doret (d) Hungarian Rhapsody for Chorus (in two sections). D'Antalffy (e) English and American Songs:
"In These Delightful Groves". Purcell "Were You There?" (Spiritual). Burleigh "Deen River" (Spiritual). Burleigh "Swansea Town"

\*The WEAF chain for the Atwater Kent hour (9:15 p. m. Eastern time, 8:15 p. m. Central time) includes WEAF, WOO, WGR, WCAE, WCAP, WJAR, WTAG, WGN, KSD, WCCO, WOC, WSAI, WEAR, WEEL.

WCX. Detroit, Mich. (516.9m-580kc), 6-7 p. m., Gold-kette ensemble; 8-9, studio program. WEAF, New York, N. Y. (491.5m-610kc), 4-12 mid-night, Evelyn Siedle, contralto; Felice string quar-tet; Vincent Lopez and his orchestra; Hires Harves-ters, Clicquot Club Eskimos; Silvertown Cord orches-

WEAO, Columbus, Ohio (293.9m-1020kc), 8:15 p. m.

WEAO, Columbus, Ohio (293.9m-1020ke), 8:15 p. m., music; 9, music.

WEAR, Cleveland, Ohio (389.4m-770ke), 7 p. m., Hotel Statler concert orchestra; 8, WEAF; 8:30, Workite Radio artists; 9, WEAF; 10, bridge; 10:30, Vincent Percy, organist.

WEEI, Boston, Mass. (348.6m-860ke), 7:30 p. m., Rickenbacker's Olde Homestead group; 8-11, WEAF, WFI, Philadelphia, Pa. (394.5m-760ke), 6:30 p. m., Bellevue Stratford concert orchestra; 7. Bellevue Stratford dance orchestra; 7:15, feature, Keystone Automobile club; 8-11, WEAF, Buffale, N. Y. (319m-940ke), 6:30 p. m., Vincent Lopez's Hotel Statler dance orchestra; 8:15, WEAF, WEAF,

minstreis; 10:30, orchestra.

WGR, Buffalo, N. V. (319m-940ke), 6:30 p. m., Vincent Lopez's Hotel Statler dance orchestra; 8:15, WEAF.

WGY, Schenectady, N. V. (379.5m-790kc), 6:30 p. m., Ten Eyek trio; 7:45, WFBL, WHAM; 9, W12; 10, musical program. Poughkeepsie; 11:30, Stephen E. Bolsclair, organist.

WHAR, Atlantic City, N. J. (275.1m-1090kc), 8 p. m., concert, soloists, Seaside hotel trio; 9, concert; 11, Follies Bergere dance orchestra.

WHGB, Clearwater, Fla. (265.3m-1130kc), 6:30-7:30 p. m., Belleair Estates; orchestra; 8:30-10, Belleair Estates; 11:30-1 a. m., Ramble.

WHN, New York, N. V. (361.2m-830kc), 6:30 p. m., Leon Berger's orchestra; 7. Iceland orchestra; 7:35, Cantor Israel Gottlieb; 7:45, Louise Dancse, accordionist; 8, Will Oakland's Chateau; 8:30, entertainment bureau; 9:30, orchestra; 10:30, orchestra; 11, Swanee entertainers; 11:30, Everglades orchestra; 12, Sophie Tucker's playground.

WIP, Philadelphia, Pa. (308.2m-590kc), 6:05 p. m., Benjamin Franklin hotel concert orchestra; 7, Jimmie Berry, seven-year-old banjo-uke player; 8:15, Ralph Wilkins, bartione; 8:50, Harmon Choral society; 10:05, Nelson Maples and his S.S. Leviathan orchestra. WIR, Pontiac, Mich. (516.9m-580kc), 7 p. m., symphony orchestra; 7:30, Ide and Meginnity; 9, Jean Goldkette's orchestra; 10, orchestra.

WMCA, New York, N. Y. (326m-570kc), 8 p. m., songs; 8:30, violin; 8:45, dinner, Society of Old Brooklynites.

WYC, New York, N. Y. (326m-570kc), 8 p. m., songs; 3:30, violin; 8:45, dinner, Society of Old Brooklynites.

Philadelphia, Pa. (508.2m-590kc), 7:30 p. m.

WOO, Philadelphia, Pa. (508.2m-590kc), 7:30 p. m., Adelphia dance orchestra.

WOR, Newark, N. J. (405.2m-740kc), 6:30 p. m., Jacques Jacobs Hotel Shelton ensemble.

WPG, Atlantic City, N. J. (299.8m-1000kc), 6:45 p. m., Arthur Brook, organist; 7. Hotel Morton dinner music; 7:30, Elks home dance music; 8:30, bridge game; 9. Hotel Traymore concert orchestra; 10, Katz and His Kittens; 11, Eddie McKnight dance orchestra, Silver Slipper club.

WRC, Washington, D. C. (468.5m-640kc), 7 p. m., New Willard hotel orchestra; 8:30, WJZ; 9, WJZ, WGY, WCAD; 10, WJZ; 10:30, Meyer Davis' Le Paradis band.

WCAD; 10, W32; 10:30, Meyer Davis Le Paranis band.
WREO, Lansing, Mich. (285.5m-1050ke), 6-7 p. m., dinner concert, Speed-Wagon Serenaders; Gold Standard ensemble; S:15, varied musicale; Reo broadcasting orchestra; string quintet; vocal and instrumental solos WRVA, Richmond, Va. (256.3m-1170ke), 7:30 p. m., Moment musicale trio; S:30, William and Mary college band, orchestra, glee club, soloists.
WTAG, Worcester, Mass. (268m-1120ke), 8-8:30 p. m., Harry Horlicks dance orchestra; 9-11, WEAF, WTIC, Hartford, Conn. (475.9m-630kc), 6:50 p. m., Bond trio.
WWI, Detroit, Mich. (352.7m-850kc), 6 p. m., dinner concert; 8, WEAF.

chestra; Billy Adair's orchestra; Johnnie Campbell's orchestra.

WEBH, Chicago, III. (370.2m-810kc), 7-8 p. m., J. Henry Welton, tenor; Hannah Braverman; 9-9:15, news; 9:15-10, Ruth Buhl Flick; Rita McFawn; 11-2:30 a. m., Orfole orchestra; Ruth Buhl Flick, reader; Rita McFawn, Mary Bieber, Billy Tracy, Sonny Duncan; Oriole string trio.

WENR, Chicago, III. (265.3m-1130kc), 6-7 p. m., Rauland lyric trio; 8-10, All-American Pioneers.

WFAA, Dallas, Texas (475.9m-630kc), 6:30-7:30 p. m., Jimmie Joy's orchestra; 8:30-9:30, Little symphony orchestra.

Jimmie Joy's orcnestra; c.o., d.c., d.c., d.c., d.c., corebstra.

WGN, Chicago, III. (302.8m-990kc), 6:30-6:45 p. m., Drake concert ensemble, Blackstone string quintet; 6:45, old-time favorites; 6:55-7. "The Million Sing" 8-10. WEAF; 10. Sam 'n' Henry; 10:10, old-time favorites; 10:20, play shop; 10:40-11, studio ensemble. WGST, Atlanta, Ga. (270.1m-II10kc), 7-8 p. m., Coleman D, Kimbro, baritone.

WHAS, Louisville, Ky. (399.8m-750kc), 7:30-9 p. m., concert.

man D. Kimbro, bartione.

WHAS, Louisville, Ky. (339.8m-750kc), 7:30-9 p. m., concert.

WHB, Kansas City, Mo. (365.6m-820kc), 7-7:45 p. m., organ concert; 8-9. Metropolitan Police band concert; 9-10. Metropolitan Police quartet.

WHO. Des Moines, Iowa (526m-570kc), 7:30-8 p. m., Raleigh, quintet; 8-9. Bankers Life trie; 11-12 midnight, Bankers Life Corn Sugar orchestra.

WHT, Chicago, III. (399.8m-750kc), 6 p. m., dinner organ recital, Al Carney; 6:39, Grayling's string trio; 6:35, Swedish program; 9:15, Cinderella cafe orchestra; 9:30, Kitchen Klassics; 10:10, U. S. L. entertainers; male quartet; 11:30, Pat Barnes and Al Carney; 12:30, Kitchen Klassics; 10:10, U. S. L. entertainers; male quartet; 11:30, Pat Barnes and Al Carney; 12: Pat Barnes and Al Carney.

WJAD, Waco, Tex. (352.7m-1190kc), 8:30-10 p. m., Reagan string orchestra.

WJAZ, Chicago, III. (322.4m-930kc), 9-12 midnight. Louis Victor Saar, planist-composer; Ruth Ford, contralto; George Grammer Smith, baritone; Norma Albermatt, violinist; Chicago Women's Musical club chorus; E. Warren K. Howe; Hazel Folsom, soprano; Claine De Sellem, contralto; solos and duets; Lucille Sweetser, Alice Regina Johnson, two-plano numbers; Dorris Irene Berry, contralto; Ann Slack, cellist; George Krueger, baritone.

WJJD, Mooseheart, III. (370.2m-810kc), 5:30-7 p. m., Jack Nelson; Palmer House symphonic players; Howard L. Peterson, organist; Palmer House Victorians; 12:30 a. m., frolic.

8-9, children; 10-11, Palmer House Victorians; 12:30 a. m., frolic.

WKRC, Cincinnati, Ohio (422.3m-710kc), 10 p. m., Ace Brigode and his Fourteen Virginians; 11, popular song rerue; 11:15, Ace Brigode and his Virginians.

WLIB, Chicago, III. (302.3m-990kc), 7-7:15 p. m., dinner music; 7:15-7:39; 7:30-8, WEAR; 11-11:20, Correll and Gosden; 11:20-12:30 a. m., studio ensemble, dance music, harmony duos.

WLS, Chicago, III. (344.6m-870kc), 6:40 p. m., College Inn orchestra; 7:20, Ralph Emerson, organist.

WLW, Cincinnati, Ohio (422.3m-710kc), 6:15 p. m., musical handshaker, Bob Groenke, Jim Mischler; 7. dinner hour concert, Hotel Gibson orchestra; 7:40, Gibson hotel concert; 10:03, Doherty Melody Boys; 10:40, Irene Downing, Tommy Reynolds; 11, Ray Sullivan; 11:15, Castle Farm; 12:15 a. m., Crosley Pup program.

Sullivan; 11:15, Castle Farm; 12:15 a. m., Crosley Pup program.

WMAQ. Chicago, Ill. (447.5m-670kc), 6-7 p. m., Women's World's fair; 8-10, Women's World's fair,

WMBB. Chicago, Ill. (249.9m-1200kc), 7-8 p. m., Scotch music; 9-11, Trianon orchestra; Woodlawn theater orchestra; Bob Smith, tenor; Elizabeth Wattles, soprano; Ted Graham, bass.

WMC, Memphis, Tenn. (499.7m-500kc), 8:30 p. m., Chickasaw Ramblers.

WOAI, San Antonio, Texas (394.5m-760kc), 8:30 p. m., Mistletoe Melody Maids.

WOAW, Omaha, Nebr. (526m-570ke), 6 p. m., Dorothy Chenoweth Lowden, harpist; 6:20, Manna Kea trio; 6:50, Royal Fontenelle orchestra; 9, sunshine program. WOC, Davenport, Iowa (483.6m-620ke), 7-7:30 p. m., WEAF; 7:30-8, Moline Plowboys; 8-10, WEAF; 11-12, LeClaire hotel orchestra.

WOI, lowa City, lowa (270.1m-1110kc), 8 p. m., musi-

OK, Chicago, III. (217.3m-1380kc), 10-1:30 a. m., Tearney's Town club orchestra; Midway Gardens or-

Tearney's Town club orchestra; Midway Gardens or-chestra; Capitol theater program; program, WORD, Batavia, III. (275.1m.1990kc), 8 p. m., Webster hotel concert trio; 8:35, Cosmopolitan School of Music, WQJ, Chicago, III. (447.5m.670kc), 7-8 p. m., Rainbo Gardens orchestra; 10-1 a. m., Rainbo Skylarks; staff artists; Marie Pollitt; 1-2 Ginger hour. WRR, Dallas, Tex. (245.8m.1230kc), 6-7 p. m., Jack Gardner's orchestra; 8-9, Mrs. J. C. Neil; 11-12, Dyo corporation.

Gardner's orchestra; 8-9, Mrs. 3. C. Nell; 11-12, Dyo corporation.

WSAI, Cincinnati, Ohio (325.9m-920kc), 7:30-10 p. m.,

WSAF. Atlanta, Ga. (428.3m-700ke), 8 p. m., West-minster Presbyterian church choir; 10:45, Wary Jerome, Charles Sheldon, organ recttal.

WSOE, Milwaukee, Wis. (245.8m-1220kc), 9 p. m., Nationality night; Polish instrumental and vocal selections; Lakeview orchestra; Polish opera club.

WSWS, Chicago, III. (275.8m-1090kc), 6 p. m., artists; 7, ballads, Samovar orchestra; 10, Samovar orchestra, studio features.

Mountain Time Stations
C. Calgary, Canada (435.8m-688ke), 9-11 p. m.,
adian National Railway's orchestra; George Bell,

Canadian National Ratinay's ordinestra; George Ben, bass.

KFAU, Boise, Idaho (280m-1070ke), 8-10 p. m., pipe organ reeftal, Frederick Boothroyd.

KOA, Denver, Colo. (322.4m-930ke), 6:30 p. m., Brown Palace string orchestra.

KUOM, Missoula, Mont. (243.8m-1230kc), 8 p. m., vocal, instrumental and ensemble music.

KUOM, Missoula, Mont. (243.8m-1230ke), 8 p. m., vocal, instrumental and ensemble music.

Pacific Time Stations

KF1, Los Angeles, Calif. (467m-642ke), 5:30 p. m., Bamboo Gardens orchestra; 6:45, Radiotorial period; 7-8, students, University of Scuthern California; 8-9, Southwest Museum; 9-10, program, Chickering hall; 10-11, dance music.

KF0N, Long Beach, Calif. (232.4m-1280ke), 7:30-9 p. m., Long Beach, Calif. (232.4m-1280ke), 7:30-9 p. m., Long Beach, Calif. (232.4m-1280ke), 7:30-9 p. m., Long Beach municipal band; 9-10, studio program; 10-11, Lake's club dance orchestra; 11-12 midnight, State theater organ.

KFWB, Hollywood, Calif. (252m-1190kc), 6:30-7:30 p. m., Pontiac Six dinner hour; 8-9, program, Phillips and Hambaugh with Frazier Mountain Park orchestra; 9-10, Los Serranos Country club orchestra; 10-11, Warner Brothers frolic.

KGO, Oakland, Calif. (361.2m-830kc), 8 p. m., "Hazel Kirke," comedy drama; Arlon trio; 10, dance music, Brokaw and orchestra.

KGW, Portland, Ore. (491.5m-610kc), 6-7 p. m., Olds, Wortman and King company; 8-10, vaudeville program.

KHJ, Los Angeles, Calif. (405.2m-740kc), 8-10 p. m., feature studio program, Times artists.

KJR, Seattle, Wash. (384.4m-780kc), 7-8:30 p. m., Poole Electric company program, Eureka quartet; 8:30-10, Puget Sound Savings and Loan association orchestra; 10-10:30, musical program; 10:30-12, Post Intelligencer's "Keep Joy Radiating Order of Bats".

KMTR, Hollywood, Calif. (336.9m-890kc), 6:30-7 p. m., Atwater Kent concert orchestra: 7-8. program, H. & L.

Namin, Hollywood, Calif. (238m-1260kc), 6-7 p. m., Starr Piano company studio; 8-10, KMTR concert orchestra. (NX, Hollywood, Calif. (336.9m-890kc), 6:30-7 p. m., Atwater Kent concert orchestra; 7-8, program, H. & L. Crockett company; 8-9, program, Willys-Overland dealers; 9-10, the Wisecracker club; 10-11, dance music; 11-12 midnight, Ambassador hotel dance orchestra. (PO, San Francisco, Calif. (428.3m-700kc), 6:30-7 p. m., States restaurant orchestra; 7-7:30, Rudy Seiger's Fairmont hotel orchestra; 8-9, KPO quartet; Ruth Linrud, harpist; Eva Gruninger Atkinson, contralit; 9-10, studio program, organ and piano duets, Amy Bynum and Caroline Gray, Metropolitan quartet; 10-11, Cabiria cafe dance orchestra. (KPSN, Pasadena, Calif. (35.6m-950kc), 8-9 p. m., musical program, Pasadena chamber of commerce. (KTAB, Oakland, Calif. (239.9m-1250kc), 8-10 p. m., program.

#### Friday, April 23

Headliners Today

Eastern Central Mountain Pacific 7:45 p. m. 6:45 p. m. 5:45 p. m. 4:45 p. m. 8:15 7:15 6:15 5:15 WGY (379.5m-790kc) "A Step On the Stairs," mystery serial.

8:15 7:15 8:15 5:15
WGY (379.5m-790kc) "A Step On the Stairs," mystery serial.
WTIC (475.9m-630kc) Brown Musical clubs.
8:30 6:30 5:30 6:30
WGY (379.5m-790kc) Comic opera, "Rob Roy." 9
WBZ (333.1m-900kc) St. Mark's colored quartet.
WRR (245.8m-1220kc) Operatic program.
9:30 KFAB (340.7m-880kc) Brainerd community orchestra.
KOB (348.6m-880kc) Brainerd community orchestra.
KOB (348.6m-880kc) Comedy program.
9:30 319m-940kc) Comedy program.
10:30 9:30 8:30 7:30
KFI (467m-640kc) Spanish half hour.
KTHS (374.8m-800kc) Opera selections.
11 10 8KPO (428.3m-700kc) Priano ensemble.
WAMD (243.8m-1230kc) Skyrocket frolic.
WLIT (394.5m-760kc) Priano ensemble.
WOS (440.9m-880kc) Old-time fiddling.
1:30 a.m. 12:30 a.m. 11:30 10:30
KGW (491.5m-610kc) Frolic.

Friday, silent night for: CFAC CHIC, CKAC, CKNO

Friday, silent night for: CFAC, CHIC, CKAC, CKNC, CKY, CNRC, CNRM, CNRO, CNRR, CNRW, KFAU, KFWA, KFXF, KLDS, KPRC, KPSN, KSAC, KUDA, KUOM, PWX, WBBR, WCAD, WCBD, WEAO, WEBW, WGBS, WGST, WHAZ, WIP, WJAZ, WKRC, WLW, WLWL, WMAK, WNAD, WRC, WREO, WRVA, WSAI, WSMB, WSUI, WTAM.

Eastern Time Stations

Eastern Time Stations
CNRA, Moncton, Can. (312.3m-960kc), 8 p. m., studio program; R. Metzler, tenor; Lorne McKendrick, reader; R. Gander, baritone; Mrs. W. Fitch, contratto; Roy Metzler, tenor; Gertrude McLellan, soprano; Mrs. G. Cole, soprano; G. Melanson, tenor; Mrs. Fred Ward, accompanist; 10. CNRA orchestra.
CNRT, Toronto, Can. (356.9m-840kc), 6:30 p. m., dinner concert, Luigi Romanelli and his King Edward hotel concert orchestra; 9, special St. George's Day program; folk songs, J. Campbell McInnis, baritone; Nathan Green, violinist; A. Clarke, accompanist; 11. Luigi Romanelli and his King Edward hotel dance orchestra.

orchestra.

KDKA, Pittsburgh, Pa. (309.1m-970ke), 6:30 p. m., dinner concert; 9, Johnson C. Bane, H. R. Truitt. guitarists; 9:30, Juniata college glee club; 10:10, Teaberry time.

WABQ, Haverford, Pa. (260.7m-1150ke), 11 p. m., Ardmore theater program

more theater program.
WAHG, Richmond Hill, N. Y. (315.6m-954kc) 7:30 p. m., studio program; 8, Great Artist organ recital; 9, Walter Sellers, tenor; 9:15, Leon Goldman, violinist; 9:30, Mabel Bestoff, soprano; 9:45, musicale; 10:02, Shell Beach trio; 10:30, Southland dance orchestra.

chestra.

WBAL, Baltimore, Md. (245.8m-1220kc), 6:30-7:30 p. m., dinner orchestra; 7:30-8, male quartet; 8-9, Geneva Fitz, soprano; Mary Knox Fitz, pianist; John Mealy, whistler; 9-10, WBAL trio; John Wilbourn, tenor.

WBZ, Springfield, Mass. (333.1m-900kc), 6:30 p. m., Hotel Kimball trio; 7:10, Hotel Lenox ensemble; 8. Edward J. McEhnelly and his orchestigs; 8:30, Russell Burbank; 9. St. Mark's colored quartet; 9:30, Vincent McAndrews.

Burbank; 9. St. Mark's colored quartet; 9:50, vincent McAndrews.

WCAE, Pittsburgh, Pa. (461.3m-650ke), 6:30 p. m., dinner concert; 8, studio program; 9:30, WEAF; 10:30, WEAF, WCAP, Washington, D. C. (468.5m-640ke), 6 p. m.-12:30 a. m., Mozart string quintet; WEAF, WCAU, Philadelphia, Pa. (277.6m-1080ke), 6:45 p. m., Clarence Seaman and his Hotel Pennsylvania orchestra;

## WTIC TO OBSERVE PATRIOTIC DAY

#### MARKETS AND WEATHER

Daily Except Sunday

WOS (440.9m-680kc) Hogs.

10:30 8:30 7:30

WFAA (475.9m-680kc) Markets.

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

WCCO (416.4m-720kc) Markets.
WHO (526m-570kc) Opening grain quotations,
New York and Chicago stock exchange. Livestock, weather, roads.

WMC (499.7m-600kc) Weather, markets. WARC (498./m-bounce) Westner, markets.

11 10 9 8

WOS (440.9m-680kc) Weather, hogs.
11:15 10:15 9:15 8:16

WTAG (268m-1120kc) Markets, weather.
11:30 10:30 9:30 8:30

WCOO (416.4m-720kc) Markets.
12 n. 11 10 9 WHO (525m-570Kc) Livestock, receipts. Weather, roads.
WOS (440.9m680kc) Livestock, weather.
WSWS (275.8m-1090kc) Market review.
1:30 12:30 p.m. 11:30 10:30
KTHS (374.8m-800kc) Markets, weather.
market, apples.
WOAW (526m-570kc) Markets.
1:45 12:45 11:45
KOA (322.4m-930kc) Weather, roads, livestock, poultry. WOC (483.6m-620kc) Weather, grain, livestock, dairy. dairy.

3

2

1 p. m. 12 n.

WHO (526m-570kc) Livestock, Chicago and St.
Louis closing cash market quotations, Chicago
Board of Trade, N. Y. Stock exchange.

WLS (344.6m-870kc) Livestock, grain, dairy, fruit,
vegetables.

WOS (440.9m-680kc) Livestock, markets, grain.
3:30

1:30

1:30

1:30

1:30

1:30

1:30

1:50

WFAA (475.9m-630kc) Markets.
3:50

2:50

WJ (352.7m-850kc) Weather, markets.

4

3

2

1

VCCO (416.4m-720kc) Markets. WCCO (416.4m-720kc) Markets.
WFAA (475.9m-630kc) Markets.
6.45 5-45 4.45
KSAC (340.7m-880kc) Market review.
8 7
KOA (322.4m-930kc) Sheep, markets, livestock, poultry.

#### Friday, April 23

7:30, Snellenburg's instrumental trio; 8, Enrico Aresoni, operatic tenor; 8:30, Singing Groundhog; 8:45, Bryan Girl; 9, Regina Crooners; 9:15, Dwight Strickland, poetician; 9:30, Melody orchestra; 10, Architects, 10, Archi

mack's Singing Syncopators; 8:15, studio program; 9:30-10:30, WEAF; 10:30, Wormack's Singing Syncopators.

WEBI, New York, N. Y. (272.6m-1100kc), 7 p. m., Achille Minutolo orchestra; 8, Jack Gall, concert pianist; 8:15, Smyrna quartet; 8:30, Al Ciccones Harlem Tea Garden orchestra.

WEEI, Boston, Mass. (348.6m-860kc), 6:13 p. m., Joe Rines and his Hunters' Cabin orchestra; 7:30, Whiting Milk company program; 8, musicale; 8:30, Neapolitan girls' quintet; 9-11, WEAF.

WFI, Philadelphia, Pa. (394.5m-760kc), 6:30 p. m., Bellevue Stratford concert orchestra; 7, Bellevue Stratford concert orchestra; 7, Bellevue Stratford dance orchestra.

WGHB, Clearwater, Fla. (265.3m-1130kc), 6:30-7:30, Shinner company developers; Dave Gootenberg, violinist; Blanche Clago, soprano; 11:45-1 a. m., Graham Prince and his orchestra.

WGR, Buffalo, N. Y. (319m-940kc), 6:30 p. m., Cleitric; 7:30, WEAF; 8, Audubon Terrace Meadow Larks; 8:30, J. Blosek; piano recital; 9, Winger's Crescent Park entertainers; 9:30, popular program, Lynn Gearhart; 10, WEAF; 10:30, Hewitt Humorists; 11, Vincent Lopez's Hotel Statler dance orchestra; John F. Gunderman, organist.

WGY, Schenectady, N. Y. (379.5m-790kc), 7 p. m., orchestra, WHAM, WFBL; 8:15, "A Step On the Statirs;" 8:30, "Rob Roy," WGY Light Opera company; 10:30, Louise Eades, contratio; Ernest Bliss, bartione: David Weiss, violinist; Julia Lemmle, accompanist: WHAR, Atlantic City, N. I. (275.1m-1090kc), 8 p. m.

baritone; David Weiss, violinist; Junia Leminue, accompanist:
WHAR, Atlantic City, N. J. (275.1m-1090kc), 8 p. m.,
concert, Seaside hotel trio.
WHN, New York, N. Y. (361.2m-830kc), 6:30 p. m.,
Woodmanston Inn orchestra; 7, Harry Richman and
his entertainers; 7:30, Treasureland Neighbors; 8:05,
Harriet Merber, pianist; 8:20, Frank H. Ochs, tenor;
8:35, Leon Goldman, violinist; 8:50, Fitzpatrick
Brothers; 9, Alan Stone's orchestra; 10:30, Anatol
Friedland; 11:30, Kit Kat entertainers; 12, Silver
Silpper orchestra.
WID Philadelphia. Pa. (508.2m-590kc), 6:05 p. m.,

Friedland; 11:30, Rit Rat entertaints, 27, Slipper orchestra.

WIP. Philadelphia, Pa. (508.2m-590kc), 6:05 p. m., Benjamin Franklin hotel concert orchestra; 7, William A. Fromholzer, violinist.

WJR, Pontiac, Mich. (516.9m-580kc), 7 p. m., symphony orchestra; 7:30, Arctic Specials; 9, Mulkey Celebrities; 9:30, symphony.

WLIT, Philadelphia, Pa. (394.5m-760kc), 9:30 p. m., Schickerling Tube concert; 10, Morning Glory club concert; 10:30, Rufus and Rastus; 11, Freshman hour of music.

Schickerling Tube concert; 10, Morning Glory club concert; 10:30, Rufus and Rastus; 11, Freshman hour of music.

WMAK, Buffalo, N. Y. (265.3m-1130ke), 7:30 p. m., Californians entertainers; 8:30, musicale; 9-10, Sunvise Point Development company.

WMCA, New York, N. Y. (340.7m-880ke), 6 p. m., Olcott Vail and his Hotel McAlpin string ensemble; 6:30, Hotel McAlpin orchestra; 7:30, Sach's Musical Monarchs; 8:45, Broadway association Harman hour of music; 10, Donald Flamm; Hofbrau Haus entertainers; 11:30, Jack Denny's orchestra; 12, entertainers.

WNYC, New York, N. Y. (526m-570ke), 7:35 p. m., lecture; 8, Spelling Bec; 9:30, piano.

W.00, Philadelphia, Pa. (508.2m-590ke), 7:30 p. m., Svivania dance orchestra; 8, Eredial; 9:25, Fox theater symphony orchestra; 10:15, organ recital; 10:30, Ritz-Carlton dance orchestra.

WOR, Newark, N. J. (405.2m-740kc), 6:45 p. m., Hotel Bretton-Hall quartet.

Bretton-Hall quartet.

WPG, Atlantic City, N. J. (299.8m-1000kc), 6:45 p. m.,
Arthur Brook, organist; 7, Hotel Ambassador dinner
music; 8:15, Sol Kendis and Chick Leonard, entertainers; 8:30, Katz and his Kittens; 9, Hotel Traymore concert orchestra; 9:30, dance orchestra; 10,
James' Salt Water Taffy Boys' dance orchestra; 11,
Jean Wiener, organist.

WREO. Lansing Mith. (2005.5m-1000kc)

WREO, Lansing, Mich. (285.5m-1050kc), 6-7 p. m., dinner concert, Speed-Wagon Serenaders; Gold Standard ensemble.

standard ensemble.

WRVA, Richmond, Va. (256.3m-1170kc), 7 p. m., Hotel Richmond orchestra; 7:20, Mrs. May Righter, soprano; R. Lynn Tucker, tenor; 9, special feature; 10. Hotel Richmond Winter Garden orchestra, Art Perkins and his uke.

WTAG, Woreester, Mass. (268m-1120ke), 8:15-10 p. m. program, Mabel V. Sheldon; 10-10:30, WEAF. WTIC, Hartford, Conn. (475.9m-630ke), 6:30 p. m., Hub trio; 8:15, Brown university musical clubs; 10:30, Emil Heimberger's Hotel Bond dance orchestra.

WWJ, Detroit, Mich. (352.7m-850kc), 6 p. m., dinner concert; 8, Detroit News orchestra; 9:30, WEAF; 10:30, dance program.

Central Time Stations
KFAB, Lincoln, Nebr. (340.7m-880kc), 8:30-10:30 p. m.
Nebraska Wesleyan glee club.

KFNF, Shenandoah, towa (263m-1140ke), 7:30 p. m., mixed program, Lafe Corbin, director. mixed program, Lafe Corbin, director.

KFRU, Columbia, Mo. (499.7m-600kc), 6:15 p. m., dinner music; 12-2 a. m., musical program.

WGBF, Evansville, Ind. (236.1m-1270kc), 8 p. m., M. A. L. Maxwell.

WGN, Chicago, III. (302.8m-990kc), 6:55-7 p. m., Drake concert ensemble, Blackstone string quintet; 8-8:30, WEAF; 8:30-9, music; 9-9:30, WEAF: 9:30-10, Phantom violin; 10, Sam 'n' Henry; 10:10, old-time favorites; 10:20, the Play Shop; 10:45-11, studio ensemble.

wHAS, Louisville, Ky. (399.8m-750kc), 7:30-9 p. m., concert, glee club, Louisville and Jefferson county children's home; Mrs. S. Hunt, soprano.

WHB, Kansas City, Mo. (365.6m-820kc), 7-8 p. m. Tilford's Emporia junior orchestra.

WHT, Chicago, III. (399.8m-750ke), 6 p. m., classical program; dinner organ recital, Al Carney; Grayling's string trio; Helen Rauh, planist; Charles Hussey, basso; 6:50, Ray-O-Vac concert; 9:15, Cinderella cafe orchestra; 9:30, Sunbeam Girls; 12, Pat Barnes and Al Carney.

MJAD, Waco. Tex. (352.7m-1190kc), 8:30-10 p. m., Baptist Radio B. Y. P. U. program.
WJID, Mooseheart, III. (370.2m-810ke), 8-9 p. m., children's hour; 10-11, feature hour; Senator Harold C. Kessinger, Palmer House Victorians; Jean St. Anne; 12:30 a. m., frolic.

WHO, Des Moines, Iowa (526m-570ke), 7:30-9 p. m., Gertrude Nourse, pianist; Piersol and Kaushaar, tuneful teachers; Mrs. B. Mills, soprano; Mrs. Lewis Bolton, pianist; 11-12. Philbreck and his orchestra.
WJAZ, Chicago, III. (322.4m-930kc), 9-1 a. m., Club Chez Pierre; Richard Low, Chinese concert baritone; Chez Pierre Hawaiian trio; Earl Hoffman's Chez Pierre orchestra.

A Rocky Mountain poet is Dorothy Helen Ellerly, above. She often reads her verse which shows decided promise at KOA, Denver.

WSOE, Milwaukee, Wis. (245.8m-1220ke), 9 p. m., Candygram revue; Croatian tamburica orchestra; Edwin Franz, pianist; Veronica Sullivan, contralto; Norville Barkdoll, declamist.

YSWS, Chicago, III. (275.8m-1090kc), 6 p. m., vocalists, quartet; 8, Samovar orchestra; Oxford Girls; 10, Alt and Moran, Hawaiian guitarists; artists.

Mountain Time Stations

CNRE, Edmonton, Can. (516.9m-580ke), 8:30-10:30 p. m.,
second anniversary concert program, Women's Musical
club; 11:30-12:30 a. m., Rialto hour, Tom
and his orchestra; operatic selections.

and his orchestra; operatic selections.

KFWA, Ogden, Utah (260.7m-1150kc), 9-10 p. m., Olie
Reeves and his orchestra; 10-11, music, Paramount
theater; 11-12, dance music.

KFXF, Colorado Springs, Colo. (249.9m-1200kc), 9
p. m., Hammond Cottage city dance orchestra.

KOA, Denver, Colo. (322.4m-930kc), 6:30 p. m., Brown
Palace string orchestra; 8, Scheuerman's Colorado orchestra; 8:15, St. Elizabeth church choir; Scott
Methodist Episcopal church.

KOB, State College, N. Mex. (348.6m-860kc), 7:30-8:30 p. m., musical program, American Legion.

Pacific Time Stations
F1. Los Angeles, Calif. (467m-642ke), 5:30 p. m.,
Kenneth Morse's orchestra; 7-7:30, Carlyle Stvenson's
orchestra; 7:30-8, Spanish half-hour, Felipe Delgado,
tenor; 8-9, Dan L. McFarland, organist; 9-9:30, popular songs; 9:30-10, Mutual Motors mirth contest; 1011, Packard ballad hour.

11, Fackard Salad House KFON, Long Beach, Calif. (232.4m-1280ke), 7-8 p. m., program, Dalton and Hoagland combany; 8-9, Press-Telegram studic; 9-10, program, F. C. Munro, realtor; 10-12, Long Beach Elks Lodge No. 888 frolic.

KFWB, Hollywood, Calif. (252m-1190ke), 6:30-7:30 p. m., Pontiac Six dinner hour; 8-9, program, John Wright, The Right Tailor; 9-10, Blue Ribbon pro-gram; 10-11, Warner Brothers frolic.

KGO, Oakland, Calif. (361.2m-830kc), 6-6:55 p. m., dinner concert, Knickerbocker trio.

KGW, Portland, Ore. (491.5m-610ke), 6-7 p. m., 12.8, Wortman and King company; 8-9, concert; 9-70.30, Sherman Clay and company; 10:30, Hoot Owls.

Sherman Clay and company; 10:30, Hoot Owls.

KHJ, Los Angeles, Calif. (405.2m.740kc), 8-16 p. m.,
Tower studio de luxe program.

KIR, Seattle, Wash. (384.4m.780kc), 7-8:30 p. m.,
Lundquist-Lilly quartet, oid-time. songs; 8:30-10, Post
Intelligeneer studio program.

KLX, Oakland, Calif. (508.2m.590kc), 8-9:45 p. m.,
Western Auto Supply company; 9:45-10:30, Athens
Athletic club orchestra.

KMTR, Hollywood, Calif. (238m-1260kc), 8-10 p. m.,
KMTR concert orchestra:

KNX, Hollywood, Calif. (336.9m-890kc), 6:30-7 p. m.,
Atwater Kent concert orchestra: 7-8, popular song program; 8-9, Charlie Melson and his Playboys; 9-10,
Ordel of Optimistic Donuts; 10-11, fights, blow by
blow, Hollywood American Legion stadium; 11-12, Ray
West's Cocoanit Grove dance orchestra.

KOAC, Corvallis, Ore. (280.2m-1070kc), 7:20 p. m.,

west's Cocoanut Grove dance orchestra,

KOAC, Corvallis, Orc. (280.2m-1070kc), 7:20 p. m.,

Arthur R. Kirkham, tenor; 8:15-9:15, music.

KPO, San Francisco, Calif. (428.3m-700kc), 6:30-7 p. m.,

States restaurant orchestra; 8-9, Edith Caubu, planist; 9-10, Palace hotel dance orchestra; 10-11, States restaurant orchestra.

Oakland, Calif. (239.9m-1250kc), 8-10 p. m., KWSC, Pullman, Wash. (348.6m-860kc), 7:30-9 p. m., Phi Epsilon steel quartet; Gladys Anderson, violinist.

Elmer Tidmarsh Plays for WGY

SCHENECTADY, N. Y.—A weekly Sunday afternoon feature of the program of WGY is an organ recital by Elmer Tidmarsh, director of music of Union college. These programs are played on the organ of the new memorial chapel at the college in Schenectady. The Sunday afternoon concerts are broadcast at 4:30 p. m. Eastern time, and will be continued until

CKNC, Toronto, Raises Power TORONTO, Ont.—CKNC, station of the

anadian National Carbon has again increased its power, this time to 750 watts. A type 1-B Northern Electric transmitter has just been installed. CKNC believes it will now be heard better throughout the United States.

Put Indian Sign on Radio Words

LONDON.—In all the studios of the British Broadcasting company notices have been posted up requesting artists in all their transmissions to refer to "listeners" and not to "listeners in," and to say "broadcast" and not "broadcasted."

Monday, April 19

Eastern Gentral Mountain G:30 p. m. 5:30 p. m. 4:30 p. m. 3:30 p. m. WNYC (526m-570ke) German lessons, V. H. Berlitz.

1itz.
7
WEAF (491.56-610kc) Columbia university lecture.
8:15
RUKA (309.1m-970kc) University of Pittsburgh.
8:30
7:30
6:30
5:30
WSUI (483.6m-620kc) College of the Air.
8:40
7:40
RFKU (275.1m-1090kc) "Development of Life During Middle and Later Earth History," Dr.
R. C. Moore.
8:45
WGR (319m-940kc) Astronomy, Rev. P. F. Cusfick.

1ck 9 7 6 CKY (384.4m-780kc) U. of Manitoba.
WHA (535.4m-580kc) "How Play Educates Children," Mrs. Edith E. Hoyt.
10 8 7 KUOM (243.8m-1230kc) Talks, Sidney Hayes Cox, Calvin Crumbaker.
10:30 9-30 KWSC (348.6m-860kc) "History of the Northwest." Dr. E. A. Bryan.
WHAZ (379.5m-790kc) Prof. George Howard Carragan.

Tuesday, April 20

Eastern Central Mountain Pacific 7 p. m. 6 p. m. 5 p. m. 4 p. m. WKAR (285.5m-1050kc) Nature study. 7:10 6:10 5:10 4:10 WRC (468.5m-640kc) Radio school of international relations. 7:30 6:30 5:30 4:30 WRZ (323 m-2000kc) Townships 12:30 4:30 7:30 6:30 5:30 4:30
WBZ (333.1m-900ke) Journalism, Edward E.
Whitins. Whiting. 8:15 7:15 6:15 5:15 KDKA (309.1m-970ke) "Historical Anniversaries of 1926," Dr. John W. Oliver. of 1920, 94 8 7 10 9 8 7 WMAQ (447.5m-670kc) Lecture, University of Chicago. Cnncago.

11 10 9 8
CNRV (291.1m-1080kc) "Canadian Immigration and Emigration," H. F. Angus.

Wednesday, April 21

Eastern Central Mountain Pacific 6:30 p. m. 5:30 p. m. 4:30 p. m. 3:30 p. m. WNYC (526m-570kc) Spanish lesson, V. H. Berlitz, 7

EDUCATIONAL FEATURES Pacific

7:40 p. m. 6:40 p. m. 5:40 p. m. 4:40 p. m. WTAG (267.7m-1120kc) Spanish lesson, Mrs. John De La Parra. 8:30 6:30 WEAO (293.9m-1020kc) "Some Recent Achievements of Chemistry," Prof. W. L. Evans. WSUI (483.6m-620kc) College of the Air. 9 8 7 6 9 8 7 6 WMAQ (447.5m-670ke) Lecture, Northwestern

university.
WTIC (475.9m-630kc) "Modern American Poetry,"
Prof. Wilbert Snow.
9
WSAI (325.9m-920kc) U. of Cincinnati.

Thursday, April 22

Eastern Central Mountain 4 p. m.
WKAR (285.5m=1050kc) Nature study series.
WGST (270.1m=1110kc) 'Fixation of Atmospheric Nitrogen,'' Dr. D. B. 8 7 7 KFKU (275.1m=1090kc) 'The Process of Forming a French Ministry,'' Prof. Herman B. Chubb. 8:30 7:30 6:30 5:30 WEAO (293.9m=1020kc) 'Philosophy of Life,'' J. A. Leighton.
WSUI (483.6m=620kc) Correspondence 7

10 M (243.89 1.30kc) "Training for Business," E. R. Sanford.
WMAQ (447.5m-670kc) Lecture, University of Chi-

Friday, April 23

Eastern Central Mountain 6:30 p. m. 5:30 p. m. 4:30 p. m. 3:30 p. m. WNYC (526m-570kc) French lesson. 7 6 5 4 WJZ (454.3m-660kc) New York university course. 8 7 6 5 CNRT (356.9m-840kc) "Mining in Ontario," Prof. H. E. T. Haultain. 8:15 7:15 6:15 5:15 KDKA (309.1m-970kc) "In Praise of Shakes-peare," Percival Hunt. 7

Dearle," Percival Hunt.

9 8 7 6

WHA (535.4m-560kc) "The Spirit of These
Times," Susan B. Davis.
10:15 9:15

WTIC (475.9m-630kc) Cartoon lessons, Bud Kingston. Con. 9:30 8:30 7:30 KWSC (348.6m-860kc) U. of Washington. 10:45 9:45 8:45 7:45 KOAC (280.2m-1070kc) "Earth Stages in the Earth's History," D. C. Livingston.

7 6 WJZ (454.3m-660kc) New York university course.

KFKX, Hastings, Nebr. (288.3m-1040ke), 9 p. m.,

KFMX, Northfield, Minn. (336.9m-890kc), 10-11 p. m.,

organist.

KMA, Shenandoah, Ia. (252m-1190ke), 6-7 p. m., Hewdo-you-do, Boys Grady and Doc, Aunti Blossom; 9-11, musical program, orchestra music.

musical program, orchestra music.

KMOX, St. Louis, Mo. (280.2m-1070kc), 6 p. m., Arthur Utt, organist; 6:20, organ recital, Mrs. Jacques Landree, 7, orchestra; Leonard Phillips, baritone; 8, music-lovers, hour; 9, trio; 10, dance music.

KOIL, Council Bluffs, lowa (277.6m-1080kc), 6:05 p. m., Jack and Jill; 6:30, Randall's Royal Fontenelle orchestra; 7:30, Marie Salisbury, violinist; Kathryn Skinner, cellist; 8:30, Dresher Brothers entertainers; 11, Hotsy Totsy hour.

11, Hotsy Totsy hour.

KSD. St. Louis, Mo. (545.1m-550kc), 7 p. m., program; 7:30, Eugene Enzinger, baritone; Mrs. Frank Habig, pianist; 8-10, WEAF.

KTHS, Hot Springs National Park, Ark. (374.8m-800kc), 9-9:30 p. m., Lawson Reid, organist; 9:30-10, opera selections, New Arlington Hotel Grand ensemble; 10-11, College Ramblers orchestra.

KYW, Chicago, 111. (535.4m-560kc), 6-6:15 p. m., KDKA; 6:30-7, Congress hotel; 9-10, Federal Masters

KDKA; 6:30-7, 6 artists; 10, revue.

artists; 10, revue.

WAMD, Minneapolis, Minn. (243.8m-1230ke), 7:05 p. m., Hartman Twins, Frank and Ernest; 7:15, Minneapolis public school hour; 11, Skyrocket frolic.

WADC, Akron, Ohio (285.5m-1160ke), 6:30 p. m., Hotel Portage quintet; 8, studio program; 10, India

WBAP, Fort Worth, Tex. (475.9m-630ke), 6-6:30 p. m., Texas hotel orchestra; 7:30-8:30, Texas Christian uni-versity; 9:30-11, Samuel L. Ball school; 11-12, Pan-ther Hawaiian trio.

WBBM, Chicage, III. (225.4m-1330ke), 8-10 p. m., Two Jays, Corinne Jordan; Alemite orchestra.

wCCO, Minneapolis-St. Paul, Minn. (416.4m-720ke). 6:15 p. m., dinner concert, Dick Long's Nankin cafe orchestra; S, Watkins family party; 9, WEAF; 10:05, Dick Long's Nankin cafe dance orchestra.

Dick Long's Namm cate dance orderesta.

WDAF, Kansas City, Mo. (365.6m-820kc), 8-9:30 p. m.,

Missouri Pacific Boosters club; 11:45-1 a. m., Nighthawk frolic; Ted Weems' Victor Recording orchestra;

Billy Adair's orchestra; Ted Meyn, organist.

WEBH, Chicago, III. (370.2m-810kc), 7-8 p. m., Oriole orchestra; Pauline Sachs, soprano; Eleanor Kaplan, violinist; 9-9:15, news; 9:15-10, Jack Sieberg, planist; Jack Simons; 11-12:30 a. m., Oriole orchestra. WENR, Chicago, III. (265.3m-1130kc), 6-7 p. m., Rauland lyric trio; 8-9, evening hour; 9-10, All-American Pioneers; 12-2 a. m., All-American Pioneers.

WFAA, Dallas, Tex. (475.9m-630kc), 6:30-7:30 p. m., Shaw-Smith orchestra; 8:30-9:30, Southland Life Insurance company, symphonic music.

WLIB, Chicago, III. (302.8m-990kc), 7:30-8 p. m., musical program; 11-11:20, Correll and Gosden; 11:30-12:30 a. m., ensemble, dance music, harmony duos.

MLS, Chicago, III. (344.6m-870ke), 7:15 p. m., College Inn orchestra; 7:30, Ralph Emerson, organist; 8:30, Women's symphony of Chicago; 9, Kathleen March Strain, contralto; Marie Kettering, pianist; 9:30, Women's symphony of Chicago; 10-11, popular music, Chicago, III. (447.5m-670ke), 6-7 p. m., Women's World's fair; 8-10, Women's World's fair.

WMBB, Chicago, Ill. (249.9m-1200kc), 7-8 p. m., Tria-non duo; Rosaline Wallach, violinist; Arvid L. Ander-son, baritone; 9-11, Trianon orchestra; Woodlawn thea-ter orchestra; WMBB male trio; Joe Warner; Norman Hart, baritone; Andy Anderson, tenor.

WMC, Memphis, Tenn. (499.7m-500ke), 8:30 p. m., Cooper's Hawaiians; 11, Bob Miller's orchestra. WOAI, San Antonio, Tex. (394.5m-760ke), 8:30 p. m., San Antonio College of Music.

WOAW, Omaha, Nebr. (526m-570ke), 6:20 p. m., Francis Potter's banjo orchestra; 6:50, Gilbert Jaffy, violinist; Nat Young, planist; 9, Puritan program; 10:30, Frank Hodek and his Nightingale orchestra; WOC, Davenport, lowa (483.6m-620ke), 7:30-8 p. m., Earl Ferris Nursery trio; 8-9, L. E. Schroeder, baritone; Morris Lundahl, organist; 9-9:30, WEAF; 10:30, "A Step On the Stairs."

WOK, Chicago, III. (217.3m-1380kc), 10-1:20 a. m., Tearney's Town club orchestra; Pershing Palace or-chestra; Capitol theater program; program.

chestra; Capitol theater program; program.

WOOD, Grand Rapids, Mich. (241.8m-1240kc), 9:15-10
p. m., classical concert; Clarence Roth, violinist; Howard Gillesby, xylophonist; Marian Lypps, soprano; Dora Waters, pianist; Claire Travis, trombonist; Leona Skory, violinist; Jane Jennings, soprano; Jack Zaremba, bartione; 10-11, classical program; 11-12, Regent Roof Radio frolic, Bill Dallavo and his orchestra.

WORD, Batavia, III. (275.1m-1090kc), 7 p. m., North Shore line; 9, program.

WOS, Jefferson City, Mo. (440.9m-680kc), 8:20 p. m., Commercial club, Mountain Grove; 10, Vee Latty and band.

WOI. Chicago, III. (447.5m-670kc), 7-8 p. m., Rainbo

band. WQJ, Chicago, III. (447.5m-670ke), 7-8 p. m., Rainbo Gardens orchestra; 10-1 a. m., Skylarks; Eleanor Terry; WGI. Chicago, III. (447.3mi-070kg), γ-5 p. m., Ramioo Gardens orchestra; 10-1 a. m., Skylarks; Eleanor Terry; Hawaiian trio; 1-2, Ginger hour.

WRR, Dallas, Tex. (245.8m-1230kc), 6-7 p. m., Jack Gardner's orchestra; 8-9, Dr. James Δ. Wood and mixed quartet; 11-12, troite.

WSB, Atlanta, Ga. (428.3m-700kc), 8 p. m., First Baptist church choir; 10:45, entertainment.

WSBT, South Bend, Ind. (275.1m-1090kc), 7:15 p. m., orchestra concert

WSM, Nashville, Tenn. (282.8m-1060ke), 6:30 p. m., concert, Francis Craig's orchestra; 8, planists; 10, pupils, Miss Sloan and Mrs. Schmitz, Ward-Belmont college.

#### DX RADIO BETTER AT 600 MILES THAN 300

STARTLING REVELATION IS MADE BY WGY SURVEY

General Electric Engineers Find Fading Cuts Close-by Signals—See Weather as Factor

SCHENECTADY .- Radio signals are better 600 miles from a broadcast transmitter than they are 300 miles, according to engineers of the Radio department of the General Electric company, under whose supervision an exhaustive investigation of Radio wave propagation is now being made.

For several weeks past, thousands of listeners have been cooperating with the General Electric company by reporting on reception of signals on broadcast bands. These cooperative tests are still under way and the conclusions are only such as suggest themselves from the preliminary reports. The engineers do not claim that

reports. The engineers do not claim that the conclusions are absolute and caution that more exhaustive investigation may reveal some facts not yet apparent.

Why Station Is Better at 600 Miles
In observing the variation of signal strength, it was found that the strength of the signal drops off rapidly during the first 300 miles from the station and that contrary to what might be expected, the signal strength actually increases and is signal strength actually increases and is apparently a little stronger at 600 miles than at 300 miles. Beyond the 600-mile point, the strength decreases again slowly to the limit of the strength the s to the limit of the range of the station. These distances are not definite values; they are averages from a large number of reception reports.

A study of the zones in which fading

occurs shows that it is worst at about 200 to 500 miles from the station, and this zone, from 200 to 500 miles, is the territory in which there is the greatest percentage of "rapid fading" reports. Broadcast service is better at 600 than 300 miles from a station because fading is less and the signal strength is slightly

These distances vary slightly with the power of the transmitter. Rapid fading is not often observed, however, and in this respect the regular broadcast waves seem



33 PAT BARNES OF WHT Size 11x14 inches

#### Photogravures of Your Favorite Artists **GALLERY OF RADIO STARS**

By special arrangement, Radio Digest is able to offer its readers a great opportunity to secure fine photogravures of their favorite Radio stars at practically no cost. Below is only a partial list of the photogravures now included in the Gallery of Radio stars. Complete list in April 10 issue.

Leo Fitzpatrick, "Merry Old Chief," WJR
Henry Field, 1925 Gold Cup runner-up
Al Carney, organ favorite at WHT
Vinnent Lopez, No. I Pennsylvania orchestra
E. L. Tyson, pleasing voice at WWJ
Art Gillham, "The Whispering Planist"
Paul Greene, announcer at WSAI, "bridge voice"
Harry Ehrhart, "Dream Daddy" at WLIT
Correll and Gosden of "Kinky Kids Parade"
fame, at WEBH and other stations.
Norman Brokenshire, popular at WRC, WJZ

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This coupon entitles the holder to one photogravure selected from the Radio Digest Gallery of Radio Stars when accompanied by ten cents to pay the cost of mailing and postage. Three consecutively numbered coupons entitle the holder to three photogravures when accompanied by 25 cents. Remittance must accompany the coupon. Cash at your risk. Add 5 cents to personal checks for exchange.

Order by Number..

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#### COP OF SMOKY CITY TWEETS SYMPHONY

PITTSBURGH, Pa.—Conductor Saudek of the KDKA Little Symphony orchestra started something when he gave a whistle of surpassing musical tones to a traffic policeman whose corner is near the confluctors studies. corner is near the conductor's studio. The idea is spreading. Conductor Saudek has had numerous inquiries since he made a musical cornerman out of the policeman near his studio.

to be different from the short waves. The reports indicate that the date of fading increases steadily as the wave length grows shorter.

May Predict Radio Reception

The main objective of the investigation in cooperation with widely scattered, volunteer assistants, is to answer the question: what is the relation between weather and Radio reception, or do weather conditions influence Radio? Variations of signal strength, static and fading are all bugaboos of the listeners and an effort is being made to relate these irreg-ularities to changes in barometric pres-

sure and temperature.

If definite relationships between Radio reception and weather conditions can be established, it will be possible to predict receiving conditions in any part of the country as reliably as it is now possible to forecast weather conditions.

Thus far investigations by General

Electric engineers indicate that the connection between barometric pressure and nection between barometric pressure and temperature with Radio conditions is not definite, or if it is definite, that it is so complex that it is not yet understood. Temperature seems to have no effect on the signals themselves, although it is known that in summer there is an increase in static.

The study so far shows that the barom-eter makes little difference when both transmitter and receiver are at the same pressure. When transmission is from a high to a low pressure area, transmission is best at short and long distances, but at medium distances of about 600 miles, it is best from an area of low pressure to an area of high pressure. The phenomena is apparently related to the distribution of storm areas over the country and requires a great deal more study.

#### George Junkin at KMOX

ST. LOUIS.—George Junkin, "he of the smiling voice," who has been heard for small voice, who has been heard for recent weeks from Station WSWS, S. W. Straus & Co., Chicago, has been selected as the new announcer at Station KMOX, "The Voice of St. Louis."

Marconi Recovers From Operation

LONDON.—Senatore Guglielmo Marconi is recovering from a minor operation here. It was feared that he was suffering from appendicitis but an operation proved this

#### Will Tell Balloon Race Over Mikes

Stations Along Route of Flyers Will Keep Listeners Informed on Progress of Racers

HOT SPRINGS, Ark .- G. C. Arnoux, director-announcer for Station KTHS, the New Arlington hotel at Hot Springs National Park, here, has been appointed as a member of the meterological and aero-logical committee for the Little Rock Air meet association in connection with the staging of the 1926 National Elimination Balloon races to be held in that city April 29 and 30, according to an announcement by the association.

Radio will play a big part in the hold-ing of the balloon races this year, accord-ing to the preliminary plans which include an elaborate system of Radio information on wind and weather to be sent out by representative broadcasting stations throughout the section of the country likely to be traversed by the racers. Selection of the stations to participate will be announced shortly. A picked group of

powerful stations will take part.
In addition, plans are being worked out to broadcast a Radio picture of the entire race meet direct from the field, through Station KTHS. Speeches by famous figures in air development and national leaders who will attend will form a part of this program.



#### AN EVENING AT HOME WITH THE LISTENER IN IN EASTERN TIME

1			ZI IO I ZICIT					WOK	Ames, Ia Homewood, I	11 217.3	Silent 11:00- 2:00		Silent S: 7:00- 2:00 11:0
Call	Location Met.	Saturday	Sunday Monday	Tuesday	Wednesday	Thursday	Friday	WOOD WOOD	Philadelphia, Grand Rapids Kansas City,	, Mic 242	7:30-8:30 10:00-1:00 9:00-12:00		7:30-12:00 7:3 10:00- 2:00 10:0 Silent 9:0
AT9 CFCA	Fort Bragg, N. C. 435 Toronto, Ont 356.9	Silent Silent	6:00- 7:00 Silent 7:00- 9:00 6:45- 7:6		Silent 7:00-12:00	8:00- 9:55 Silent	Silent Silent	WORD WORD	Newark, N. J Batavia, III	405.2 275	6:15-12:00 8:00-11:25	Silent 3:30-11:00	6:15-12:00 6:1 Silent 8:0
CFCN CJCA CKAC		12:00 - 2:00 11:00 - 1:00 7:00-11:30	Silent   Silent   9:30-10:30   9:30-11:3   2:45-3:45   Silent	Silent 0 9:30-10:00 7:00-11:30		10:00-11:00 11:00- 1:00 7:30- 9:30	Silent 10:00-1:00 Silent		Jefferson City Atlantic City,	N.J 299.8		3:15-11:00	9:00-11:00 S 6:45-12:00 6:4
CKCL	Toronto, Ont 356.9 Toronto, Ont 356.9	7:00-8:00 8:00-10:00	3:00- 4:55 Silent Silent 8:00-11:0	7:00-11:50 8 Silent	Silent Silent	7:00- 8:00 Silent	Silent Silent	WQJ WRC WREO	Chicago, III Washington, Lansing, Mic	D. C. 468.5	7:00-12:00	Silent	Silent 8:0 Silent 7:0 Silent 8:1
CKY CNRO CYL	Winnipeg, Man 384.4 Ottawa, Ont 434.5 Mexico City, Mex 480	9:00-12:00 8:30- 1:30 Silent	8:00-11:00 9:00- 1:0 Silent Silent 10:24-11:54 Silent	0 Silent Silent 10:24-11:54	8:30-12:00 8:30- 1:30 Silent	9:30-12:00 Silent Silent	Silent Silent 10:24-11:54	WRVA	Richmond, V Tarrytown, N.	256 Y 273	Silent 9:00-11:30	Silent 8:00-11:30	8:00-11:00 11:0 9:00-11:30 9:0
CZE	Mexico City, Mex. Pittsburgh, Pa 350	9:24-10:24 6:30- 9:55	Silent 9:24-10:2 4:00-8:45 6:30-9:5	4 9:24-10:24	9:24-10:24	9:24-10:24 6:30-12:00	9:24-10:24	WSB	Cincinnati, O Atlanta, Ga Chicago, III	428.3		8:30-10:15	9:00-12:00 8:0 9:00-1:00 9:0 6:30-8:00 7:3
KFAB KFDM	Lincoln, Nebr 340.7 Beaumont, Texas 315.6	6:30- 3:00 Silent	5:00-12:00 6:30-11:3 9:00-10:00 Silent	0 6:30-11:30 9:00-11:30	6:30-11:30 Silent	Silent Silent	6:30-11:30 9:00-11:30	WSM	Nashville, Te New Orleans,	nn 282.8	7:30- 1:00	Silent	7:30-12:00 11:0 9:30-12:30 S
KFH KFI	Wichita, Kan 268 Los Angeles, Calif. 467 Okla. City, Okla. 260.7	11:00-12:00 9:00- 6:00 7:30-11:45			9:00- 2:00	11:00-12:00 9:00- 2:00 7:30-11:45	9:00- 2:00	WSUI	lowa City, la Chicago, III	483.6 275.1	Silent 7:00- 2:00	10:15-10:45 4:30-10:30	8:30-10:00 S Silent 7:0
KFJF KFKX KFMX	Hastings, Nebr 288.3 Northfield, Minn 336.9	6:30- 7:30 Silent	Silent 6:30-12:0 8:00- 9:00 Silent	0 6:30-7:30		6:30-9:00		WTAM	Worcester, M Cleveland, O. Hartford, Co	389.4	Silent 6:00-12:00 6:30-12:00	Silent	7:00-11:00 7:4 6:00-12:00 6:00 6:30-12:00 Si
KFNF	Shenandoah, Ia 263 Seattle, Wash 454.3	8:00- 1:00 12:30- 2:00	3:30- 9:30 8:00-10:0 Silent 10:00- 1:0	9:00- 2:00	10:00- 1:00	8:00-10:00 Silent	9:00- 2:00		Detroit, Mic				6:00- 9:00 6:0
KFON	Fort Worth, Tex 508.2 Columbia, Mo 499.7	9:00- 2:00 9:30-10:30 Silent		0 9:30-10:30	9:00-2:00 Silent 10:00-12:00	9:00- 2:00 9:30-10:30 7:15- 8:15	9:30-10:30	ST	ATIC	NS I	IN OI	RDER	OF W
KFRU KFUO KFVE	St. Louis, Mo 545.1 Univ'ty City, Mo 240	Silent 10:15-11:15	5:00-11:15 9:00-10:0		10:15-11:15 10:15-11:15	Silent Silent	Silent 10:15-11:15		ers Call	N			Meters C
KFWA	Ogden, Utah	11:00- 2:00 11:00- 2:00 Silent	Silent   Silent   12:00- 2:00   10:30- 2:0   11:00- 3:00				Silent 10:10- 2:00 11:00- 4:00	209.7	WSBC	265.6 WI	MAK 285.	5 WKAR	336.9 WJA
KFWI KFXF KGO	Colorado Springs. 250 Oakland, Calif 361.2	11:00- 1:00		0 10:30-12:30	Silent	11:00- 1:00 11:00- 4:00	Silent	217.3 222 226	WCOA	266 W	GHB 288	5 WREO 3 KFKX 3 WLWL	340.7 KFA 340.7 WKA 340.7 WMO
KGW	Portland, Ore 491.5 Los Angeles, Cal 405.2	9:00- 3:00 10:45- 1:00	10:30-1:00 9:00-1:0 7:00-1:00 Silent	0 9:00- 3:00 11:00- 1:00	9:00- 2:00 11:00- 1:00	9:00-1:00 10:45-1:00	9:00- 3:00 11:15- 1:00	226 226	WBBM WIBO	268 W 270.1 W	TAG 293 EAN 293	.9 KTBI .9 WAIU	344.6 WCH 344.6 WI
KIAF KJR	Sihtipek, Minn 421 Seattle, Wash 384.4 Independence, Mo. 440.9					Silent 10:00-3:00 9:00-10:00		232.4	KFVE	270.1 W 270.1 272.3 KV	GHP   293. WOI   296. VKH   299.	9 KPRC	
KLDS KLX KMA	Oakland, Calif 508.2 Shenandoah, Iowa 252	Silent 7:00-12:00	Silent 7:00-1:5 5:00-7:00 7:00-12:0	0 Silent 0 7:00-12:00	7:00-1:00 7:00-12:00	Silent 7:00-12:00	7:00-1:30 7:00-12:00	240 240 240	WDBO	272.6 W		.8 KSL	348.6 WE 350 C2 352.7 WV
KMOX KNX	St. Louis, Mo 280.2 Hollywood, Calif 336.9	8:30- 5:00		0 8:30- 3:00	8:30- 3:00	Silent 8:30- 3:00		242	WOOD WAMD	272.6 W 273 W	${ m FBH}   302. \ { m 7RW}   302. \$	.8 WGN .8 WLIB	356.9 CFC 356.9 CKC
KOA KOB KOIL	Denver, Colo 322.4 StateCollege, N.M 348.6 Council Bluffs, 1a. 278	11:00- 1:00 Silent 8:00- 4:00	5:00-10:45 8:30-12:3 Silent 9:30-10:3 8:00-1:00 7:00-1:0	0 Silent	Silent	8:30-9:30 Silent 7:00-1:00	9:30-10:30	$ \begin{array}{c c} 246 \\ 250 \\ 250 \end{array} $	WBAL KFXF WGES	275.1 W 275.1 W 275.1 W	$HAR \mid 305.$	9 WJAR	356.9 CK2 361.2 KC 361.2 WH
KPO KPRC	San Francisco, Cal. 428.3 Houston, Texas 296.9	9:35-3:00 8:30-12:00	8:00- 3:00 9:30- 3:0 8:00- 1:00 7:30-11:3	0 9:30-3:00 0 8:30-11:00	9:30-3:00 7:30-1:00	9:30-3:00 8:00-11:00	9:30- 3:00 Silent	$250 \\ 252$	WMBB KFWB	275.1 W 275.3 W	SWS 315. $JAS 315.$	6 KFDM 6 KPSN	365.6 WDA 365.6 WH
KPSN KSD KSL	St. Louis, Mo 545.1	11:00- 1:00 7:45-11:00 10:00- 1:00	7:15-10:15 7:55-12:0	11:00-12:00 0 7:55-11:00 0 9:00-12:30		11:00-12:00 7:55-11:00 9:30- 1:00		252 252 256	WGCP	278 KV	OIL 315 VWG 315. CAU 319	.6 WAHG .6 WGBS WGR	370.2 WEE 370.2 WJ, 374.8 KTI
KTAB KTBI	Oakland, Calif 240 Los Angeles, Cal 293.9	Silent	10:45-12:15 10:15-12:30		11:00- 1:00	12:00-3:00 11:00-12:00	11:00- 1:00	258 260.7	WADC	278 W 278 V	GBU   319 WOQ   322.	WSMB 4 KOA	379.5 WG 379.5 WH
KTCL KTHS	Seattle, Wash 305.9 Hot Springs, Ark. 374.8	10:00-11:30		0 10:00-12:30	10:00-12:00		10:00- 3:00 10:00-11:30	260.7 260.7 260.7	KWKH	280.2 W	MOX 322. NAC 325. OAN 333.	9 WSAI	384.4 CF 384.4 K. 384.4 WMI
KTW KUOA KWKH	Seattle, Wash 455 Fayetteville, Ark 299.8 Shreveport, La 260.7	9:30-10:30 Silent 10:00- 1:00	Silent Silent Silent Silent 8:00-12:00 10:00-12:	9:30-10:30 8:30- 9:30 0 10:00- 1:00	9:00-10:00	9:30-10:30 Silent 9:00-10:30	Silent	263 263	WBPI	282.8 V	VSM 336.		389.4 WEA
KWSC KWWG	Pullman, Wash 348.6 Brownsville, Tex 278	Silent 7:00- 8:00	Silent 10:30-12:6 Silent 9:30-10:3	0 Silent 0 7:00- 8:00	10:30-12:00 7:00- 8:00	Silent 7:00-8:00	10:30-12:00 7:00- 8:00						
KYW NAA PWX	Chicago, III	7:00- 1:00 Silent 8:30-11:00	3:30-12:00 Silent Silent 7:45-8:0 8:00-10:15 8:30-11:0		7:25-8:40				SHOR	TW	/AVF	ES	guilty par
WADC	Akron, Ohio	6:30- 7:30	6:30- 7:30 6:30- 7:0 Silent 8:00- 2:0	0 6:30-11:30		6:30-11:00				y Marc			team. Wh
WAIU	Columbus, Ohio 293.9 Minneapolis, Minn. 244	9:15-11:00 7:15-11:30	3:00- 4:00 6:00-11:3 8:00-11:00 8:00- 1:0	0 6:00-12:00 0 Silent	8:00- 1:00	6:00- 7:00 7:15- 1:00	7:15- 1:00		13800 NAMES ENGLISHED		n page 6		meeting w one anothe Ford Rush
WBAL WBAP WBAR	Fort Worth, Tex 475.9 Sisiht, Wis 406	7:00-12:00	6:30-8:30 6:30-10:0 6:00-12:00 7:00-1:0 11:00-12:00 10:00-11:0				7:00- 1:00	Dean	Cole, W ny, you're	HO's d	irector-a	nnouncer.	32; weigh
WBBM WBBR	Staten Island, N.Y 272.6	9:00-3:00 8:00-10:00	9:00-10:15 8:00- 9:0	0 9:00- 1:00 8ilent	Silent	9:00- 1:00 8:00- 9:00	9:00-11:00 Silent	what	you woul you met "	d say—	if true t	to type-	where he
WBCN	New York, N. Y 263	10:00- 2:00 6:00-11:45 6:30-10:00	Silent 6:00-10:15 6:30-10:3		6:00-11:00	6:00-11:00	6:00-11:00	studio	Thousa for they	nds hav	ve exclai	imed the	years old,
WBZ WCAE WCAP	Springfield, Mass 333.1 Pittsburgh, Pa 461.3 Washington, D. C. 468.5	6:30-10:00 6:30- 9:15 Silent	4:00-10:15 6:30-12:0 4:00-10:15 7:00-11:0	0 6:30-12:00	6:30-11:00 7:00-11:00	6:30-11:00 Silent	6:30-11:30 6:00-12:30	Cole a	as being ance with t	merry	OLD son	ul, in ac-	What d
WCAU	Philadelphia Pa 278 Zion, III 344.6	Silent Silent 7:15-12:05	5:00-11:30 8:00-11:3 9:00-11:30 Silent 5:10- 9:15 7:15-11:0	9:00-11:30	Silent	9:00-11:30	Silent	He is	merry but	t not old	ler than t	the light-	know abou
WCCO WCOA WCX	Minn-St. P., Minn 416.4 Pensacola, Fla 222 Detroit, Mich 516.9	12:00- 1:00 6:00- 7:00	Silent 7:30- 8:	0 Silent	7:30-8:30	Silent	7:30-8:30	der ar	nd has blo	nde hai	r, rather	than be-	do my bes
WDAF WDB0	Winter Park, Fla 240	7:00-2:00	5:00-6:00 9:00-10:	9:30-11:00	9:00-10:30	9:00-10:30	9:00-10:30	Goose	book depi	cts his	namesake	. He has	MEAT
WDWF WEAF WEAN	New York, N. Y 491.5	Silent 6:00-12:00 6:30-10:30	Silent Silent 2:00-10:15 6:00-12:0 7:30-8:45 6:30-10:3		6:00-12:00			causes	s many a	feminin	e heart t	o become	
WEA0 WEAR	Columbus, Ohio 293.9 Cleveland, Ohio 389.4	Silent 7:00- 1:00	Silent   Silent   7:00-10:15   7:008:	7:00-9:00 7:00-12:00	8:00- 9:00 7:00- 8:00	8:00-11:00 7:00-11:00	Silent 7:00-12:00	vibran	nt voice is ption her				sary to re
WEBH	New York, N. Y 272.6. Boston, Mass 348.6	_ Silent	6:00-10:00 Silent Silent Silent 2:00-10:15 6:15-11:	8:00- 1:30 8:00- 9:00 7:30-11:30	8:00-10:00	Silent	7:00- 9:00	TTTTTO	l his sec mike on				that if the
WENR	BerrienSpgs., Mich. 285.5	Silent 7:00- 3:00	8:15-10:10 8:15- 9: 3:00- 1:00 Silent		8:15- 9:15	Silent	Silent	wise r	narked its supervised				The dir read, "Let
WFAA	Dallas, Tex 475.9 New York, N. Y 272.6		7:00- 1:00 7:30-10:3 5:00- 8:00 11:30- 2:4:30- 5:30 6:30- 8:0	0 11:30- 2:00	11:30- 2:00		11:30- 2:00	1 01011	He is a out the te				allow the meat shou
WFI WGBS WGBU	Philadelphia, Pa 394.5 New York, N. Y 315.6 Fulford, Fla 278	6:00-11:30 6:30- 1:00	8:00- 9:00 7:00- 7:	5 6:30-11:30	6:00-8:30	6:00- 8:45 6:30- 1:00	Silent 6:30-1:00	Nine :	s around years of e	xperienc	e in the	telephone	
WGCP	New York, N. Y 252 Oak Park, III 250 Clearwater, Fla 266	8:30-12:00 6:00- 2:00 6:30- 1:00	3:00-6:00 9:00-11:3 6:00-1:00 Silent Silent 6:30-1:0	11:30- 3:00	7:00- 9:15 11:30- 3:00 6:30- 1:00	11:30- 3:00		ing w	ess and a tires and s	etting u	p instru	ments for	
WGHB WGHP WGN	Clearwater, Fla 266   Detroit, Mich 270   Chicago, III 302.8	Silent 7:30-11:00	Silent 6:00-1:0		6:00- 1:00	6:00- 1:00	6:00- 1:00	ment	gnal corps with Germ	any, suj	port his	technical	If you us
WGR	Buffalo, N. Y 319 Schenectady, N. Y. 379.5	8:15-10:00 6:30-12:00	7:45-10:15 6:30- 1: 3:00-11:00 6:30- 8:	00 6:30-11:00 5 6:30-11:30	6:30-12:00 6:30- 9:05	6:30-11:00 6:30-12:30	6:30-1:00 7:00-11:30	by hi	edge. His is talente	d barito	ne voice	, for on	escape. I
WHAD WHAR WHAS		Silent 7:30- 9:00 8:30-10:00			Silent	7:30-12:00	7:30-9:00	to "M	emergencike" and s	sung a b	aritone s	olo to fill	makes a p
WHAZ WHB	Troy, N. Y	Silent Silent	Silent 9:00-12: 9:00- 2:00 8:00- 9:	00 Silent 00 8:00-11:0	Silent 0 8:00- 9:00	Silent 8:00-11:0	Silent 8:00-9:00	arrive	ed.	s until	delayed	a artists	Other v
WHN	New York, N. Y 361.2 Des Moines, Ia 526	Silent Silent 8:00-2:00	3:00-12:30 6:00-12: 8:30-1:00 8:30-1: 1:00-11:30 Silent		0 7:00- 1:00	8:30- 1:0	8:30- 1:00	Wh	o was it				
WHT WIBO WIP	Chicago, III	7:00-9:00 6:05-12:05	7:00- 1:00 Silent	7:00- 4:0 6:05-11:3	0 7:00- 4:00 0 6:05- 8:00	7:00-4:0 6:05-11:1	7:00- 3:00 5 6:05- 8:00	WOA	nlin, ex-W W? "Jayh	awker"	was one,	I remem-	times used
WJAR	Providence, R. I 305.9 Pittsburgh, Pa 275.3 Jacksonville, Fla 336.9	Silent 7:00-12:00 8:00-10:00		00 7:00-12:0	0 7:00-12:00	7:00-12:0	0 7:00-12:00	Val v	Here's goo ia WLS,	Chicago,	where s	she is do-	tiny potat
MIAZ	Chicago, III 322.4 Mooseheart, III 370.2	Silent 6:30- 2:00	Silent   Silent   4:00-5:00   Silent	Silent 6:30- 2:0	Silent 0 6:30- 2:00	11:00- 1:00 6:30- 2:0	0 Silent 0 6:30-2:00	is sch	turn twic	r Tuesda	y and Fi	riday eve-	separately
WJR	Pontiac, Mich 516.9 New York, N. Y 454.3	7:00-12:30 7:00-10:25	Silent 7:00-12: 2:30-11:00 7:00-11:	30 7:00-11:4	5 7:00-11:4	7:00-11:4	7:00-11:30	study	. Unders	o furthe	r her aml	bition and	that you
WKAQ WKAR WKRC	Lansing, Mich 285.5			Silent 00 7:00- 8:0 00 11:00- 1:0		7:00-8:0 0 11:00-1:1	0 7:15- 9:00 5 Silent	just t	aken up o fill in h			DI UAUCAST	them all
WLIB	Chicago, III 302.8 Philadelphia, Pa 394.5	7:00- 2:00 7:30- 8:30	6:00-8:00 Silent 2:00-8:00 9:00-11:	8:00- 2:0 7:50- 8:5	0 8:00-2:0 0 8:00-11:0	0 8:00- 2:0 7:30- 8:3	0 8:00-2:00 0 7:30-12:00	Nov	w for a				different t
WLS WLW WLWL	Chicago, III	8:00-1:00	7:00-8:55 Silent 5:00-10:30 8:00-12: 7:00-8:00 8:00-10		0 8:00- 1:30	8:00-2:1 8:00-10:0	5 Silent 0 Silent	Sever	and Gleni al months	ago I t	old all ab	out them,	and peas,
WMAK WMAG	Buffalo, N. Y 265.5	6:15-11:00 9:00-11:00	7:30-8:30 7:30-11	00 6:15- 7:1 9:00-11:1	5 7:30-10:0 5 9:00-10:4	7:15-8:0 5 8:00-12:0	0 Silent 0 9:00-11:1	that	o many n I repeat a	nd sket	ch the pa	ir, that I	celery and
WMAZ	Chicage, 111 250	8:00-12:00		8:00-12:0		0 8:00-12:0	0 8:00-12:00	with	be pardor the usual	shock:	yes, they	are both	family lik
WMBF WMC WMCA	Memphis, Tenn 499.	8:15-10:30	Silent 8:15-10	00 8:15- 1:0	0 Silent	8:15-10:4	5 8:15- 1:00 0 8:00-11:45	marri	ied, and e s about e	ight yea	rs old. I	Both Ford	You know
WNAC	Boston, Mass 280.3	6:00-11:00	3:15- 8:45 6:30-10:	45 6:00- 9:0	0 6:00-10:0	0 6:00-9:0 0 7:35-10:3	0 6:00-11:00 0 7:30-10:30						
WOAN WOAN	San Antonio, Tex. 394.5 Lawrenceb'g, Tenn. 282.6 Omaha, Nebr 526	Silent Silent 7:00-1:00	10:00-11:00 10:00- 2 7:00-10:00 7:00-11	30 10:00-11:0 00 7:00- 2:0	00 10:00-11:0 00 Silent	0 10:00-11:0 7:00- 2:0	0 10:00-11:00 0 7:00-12:1	0   the t 5   Edga:	eam. Hov r Bill, jo	v did th vial WI	S direct	or, is the	one likes, as it is.
Accessed Tables of Tables													

Call	Location	Met.	Saturday	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday
WOAX	Trenton, N. J	240	Silent	9:30-11:30	Silent	Silent	Silent	Silent	Silent
WOC	Davenport, la	483.6	10:00- 1:00	7:30-12:45	Silent	7:30-12:30	7:30-11:30	7:30- 1:00	7:30-11:30
WOI	Ames, Ia	270.1	Silent	Silent	Silent	Silent	Silent	8;50-9:30	Silent
WOK	Homewood, Ill	217.3	11:00- 2:00	7:30-9:30	7:00- 2:00	11:00- 2:00	11:00- 2:00	11:00- 2:00	11:00- 2:00
W00	Philadelphia, Pa	508.2	7:30- 8:30	6:05-10:15	7:30-12:00	7:30- 8:30	7:30-12:00	7:30- 8:30	7:30-12:00
WOOD	Grand Rapids, Mic	242	10:00- 1:00	Silent	10:00- 2:00	10:00- 1:00	10:00- 1:00	Silent	10:00- 1:00
WOQ	Kansas City, Mo	278	9:00-12:00	9:00-10:15	Silent	9:00-10:00	Silent	8:00-10:00	Silent
WOR	Newark, N. J	405.2	6:15-12:00	Silent	6:15-12:00	6:15-8:00	6:15-11:30	6:15- 8:20	6:15- 8:00
WORD	Batavia, III	275	8:00-11:25	3:30-11:00	Silent	8:00- 1:45	8:00- 1:00	9:00-11:00	8:00- 1:45
Wos	Jefferson City, Mo	440.9	Silent	9:00-10:00	9:00-11:00	Silent	9:00-11:00	Silent	9:00-11:00
WPG	Atlantic City, N.J.	299.8	6:45-12:00	3:15-11:00	6:45-12:00	6:45-12:00	Silent	6:45-12:00	6:45-12:00
MØ1	Chicago, III	447.5	8:00- 4:00	8:00-11:00	Silent	8:00- 3:00	8:00 - 3:00	8:00- 3:00	8:00- 3:00
WRC	Washington, D. C.	468.5	7:00-12:00	Silent	Silent	7:00-11:30	Silent	7:00-12:30	Silent
WREO	Lansing, Mich		10:00-12:00	Silent	Silent	8:15-10:00	Silent	8:15-10:00	Silent
WRVA	Richmond, Va		Silent	Silent .	8:00-11:00	11:00- 1:00	8:00-11:00		7:00-11:00
WRW	Tarrytown, N. Y		9:00-11:30		9:00-11:30	9:00-11:30			9:00-11:30
WSAI	Cincinnati, O		8:00- 1:00		9:00-12:00		7.:45-12:15	8:30-11:00	Silent
WSB	Atlanta, Ga		9:00- 1:00		9:00- 1:00		11:45- 1:00		9:00- 1:00
	Chicago, III		7:30-5:00		6:30-8:00				7:30-2:00
WSM	Nashville, Tenn	282.8	7:30- 1:00	Silent	7:30-12:00	11:00- 1:00	7:30-12:00	Silent	7:30-12:00
WSMB	New Orleans, La	319	9:30-11:30	Silent	9:30-12:30	Silent	9:30-11:30	9:30-12:00	Silent
WSUI	lowa City, la	483.6	Silent	10:15-10:45	8:30-10:00	Silent	Silent	Silent	Silent
WSWS	Chicago, III		7:00- 2:00	4:30-10:30	Silent	7:00- 2:00	7:00-12:00	7:00- 2:00	7:00- 2:00
WTAG	Worcester, Mass	268	Silent	4:00-10:15	7:00-11:00	7:45-11:00	7:45-11:00	8:00-11:00	8:00- 9:30
WTAM	Cleveland, O		6:00-12:00	Silent	6:00-12:00		6:00-12:00	6:00- 7:00	6:00- 7:00
WTIC	Hartford, Conn			5:00-10:30	6:30-12:00	Silent	6:30-10:00	6:30- 7:30	6:30-12:00
WWJ	Detroit, Mich	352.7	Silent	6:20-10:00	6:00- 9:00	6:00- 9:00	6:00-10:00	6:00-12:30	6:00-10:00

#### STATIONS IN ORDER OF WAVE LENGTHS

Meter	rs Call	Mete	rs Call	Mete	rs Call	Mete	rs Call	Mete	rs Call	Mete	rs Call
209.7	WSBC		WMAK		WKAR	336.9	WJAX	394.5	WFI	461.3	WCAE
217.3	WOK	266	WBCN		WREO	340.7	KFAB	394.5	WLIT	467	KFI
222	WCOA	266	WGHB		KFKX		WKAQ	394.5	WOAI	468.5	WCAP
226	KFWI	268	KFH		WLWL		WMCA	399.8	WHAS	468.5	$\mathbf{W}\mathbf{R}\mathbf{C}$
	WBBM	268	WTAG	293.9	KTBI	344.6	WCBD	399.8	WHT	475.9	$\mathbf{WBAP}$
226	WIBO	270.1	WEAN	293.9	WAIU	344.6	WLS	400	PWX	475.9	WTIC
232.4	KFON	270.1		293.9	WEAO	348.6	KOB	405.2	KHJ	475.9	WFAA
240	KFVE	270.1		296.9	KPRC	348.6	$\mathbf{KWSC}$	405.2	WOR	480	CYL
240	KTAB		KWKH	299.8	KUOA	348.6	WEEL	406	WBAR	483.6	WOC
240	WDBO	272.6	$_{\mathrm{WBBR}}$	299.8	KSL	350	CZE	410.7	CKAC	483.6	WSUI
240	WOAX	272.6	WEBJ	299.8	$\mathbf{WPG}$	352.7	wwj	416.4	WCCO	491,5	$\mathbf{K}\mathbf{G}\mathbf{W}$
242	WOOD	272.6	WFBH	302.8	$\mathbf{WGN}$	356.9	CFCA	421	KIAF	491.5	WEAF
244	WAMD	273	$\mathbf{w}\mathbf{r}\mathbf{w}$	302.8	WLIB	356.9	CKCL	422.3	WLW	499.7	KFRU
246	WBAL	275.1	$\mathbf{WHAD}$	305.9	KTCL	356.9	CKNC	422.3	WKRC	499.7	WMC
250	KFXF		WHAR	305.9	WJAR	361.2	$\mathbf{K}\mathbf{G}\mathbf{O}$	428.3	wsb	502.8	KFQB
250	WGES		WORD	309.1	KDKA	361.2	$\mathbf{W}\mathbf{H}\mathbf{N}$	428.3	KPO	508.2	KLX
250	WMBB	275.1	WSWS	315.6	KFDM	365.6	WDAF	434.5	CNRO	508.2	WIP
252	KFWB	275.3	WJAS	315.6	KPSN	365.6	WHB	434.5	CFCN	508.2	woo
252	KMA	278	KOIL		WAHG		WEBH	434.5	NAA	516.9	CJCA
252	WGCP	278	KWWG	315.6	WGBS	370.2	WJJD	435	AT9	516.9	W
256	WRVA	278	WCAU	319	WGR	374.8	KTHS	440.9	KLDS	516.9	WJR
258	WADC	278	WGBU	319	WSMB	379.5	WGY		$\mathbf{W}\mathbf{D}\mathbf{W}\mathbf{F}$	526	WHO
260.7	KFWA	278	WOQ	322.4	KOA	379.5	WHAZ	440.9	wos	526	WNYC
260.7	KFJF	280.2	KMOX		WJAZ	384.4	$\mathbf{C}\mathbf{K}\mathbf{Y}$		WMAQ		WOAW
	KWKH	280.2		325.9	WSAI	384.4	KJR	447.5	WQJ	535.4	KYW
260.7	WMAZ	282.8		333.1	$\mathbf{w}\mathbf{B}\mathbf{z}$		WMBF	454.3	KFOA	545.1	KFUO
263	$\mathbf{w}_{\mathbf{BPI}}$	282.8	$\mathbf{wsm}$	336.9	KNX	389.4		454.3	WJZ	545.1	KSD
263	KFNF	285.5	WEMC	1336.9	KFMX	389.4	WTAM	455	KTW	ii.	

#### SHORT WAVES

guilty party. He knew both boys and thought they would make a good Radio team. When the two met in the WLS studio, the joke was on Mr. Bill, for the meeting was a reunion. They had known one another some years before in St. Louis. Ford Rush was born in New Orleans, age 32; weight, 175 pounds; height, 6 feet. Glenn Rowell was born in Pontiac, Ill., where he says they feed 'em corn—hence his girth. He's 5 feet 8 inches tall, 28 years old, 218 pounds heavy, and still years old, Zio po-likes pie and cake.

What deep secret would you like know about your favorite broadcast stir? Drop me a note, girls and boys, and ril do my best to answer here. MARCELLA.

#### MEAT PIES CHEAP DISH

(Continued from page 6)

much fat on the meat, it may be necessary to remove some of the melted fat before you make the gravy. Remember that if there is more fat than flour in the

gravy it will be greasy.

The directions for cooking the meat read, "Let simmer until tender." Do not allow the meat to boil. Remember that meat should cook slowly at a low temerature if you would have it tender and

It is better to cut either the biscuit or pastry crust into small pieces rather than to place a solid crust over the whole pie. If you use one whole crust, be sure to cut holes into it to allow the steam to escape. I prefer individual biscuit because it not only bakes better, but it also makes a pie that looks better and is more easily served.

Other vegetables may be used in this recipe than those I have suggested. If you happen to have a few left over string beans they may be used in place of either the peas or carrots. Diced turnip is some-times used, but be sure it is not too strong in flavor. Small cubes of potatoes or tiny potato balls may be added but many people prefer to serve the potatoes separately with the meat pie. Tomatoes may be added to the pie, but be careful that you do not add tomatoes to every meat dish you make because that makes them all taste more or less alike.

You may use different vegetables at different times; for instance, one day use celery and tomatoes, another day, turnips, and peas, and still another day combine carrots and string beans, or potatoes, celery and peas. Onion is good with any of the combinations. If you do not serve the meat pie very often and find that your family like it as it is, then I would serve it just that way and not tinker with it. You know there is such a thing as too much variety. When you find a recipe that you can make well and that everyone likes, you had better stick to it just

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Vol. XVII

Saturday, April 17, 1926

#### That Music Copyright Question

WITH the senate and the house committees both vv carefully considering legislation to amend the copyright law to give Radio broadcasting a "square deal," it seems that perhaps the music problem will be settled this year once for all. One thing is sure: if the senate committee recommends that the Dill-Vestal bill be passed by the senate, the house will also fall in line, and the president, Mr. Coolidge, will sign

the bill without question.

What makes us so sure about this? Well, William
Butler, senator from Massachusetts, is chairman of
senate patent committee which is, or was as this went to press, holding hearings on the proposed ight law amendment. Mr. Butler, we shall exis a time-tried and true friend of Mr. Coolidge. ct, Mr. Coolidge learned most of his political from Senator Butler. The president admits it

, being a close friend and adviser of the president, not unlikely that Mr. Butler will only need to his stamp of approval to the proposed legislation order to make it law. We should end this editorial e. It has no immediate purpose except to indicate ns of optimism to the broadcasters and interests sirous of getting relief from the varying fee deands of the American Society of Composers, Authors ad Publishers.

At one time, very early in the controversy between the music society and the broadcasters, we claimed that broadcasting stations were operated not for profit and therefore made nothing from the music broadcasts. In such a status we could see-then-but one perspective: that the music should be free to Radio breadcasters. It soon became evident, however, that practically every firm engaged in broadcasting was so engaged for the benefit of indirect advertising, an asset which could be charged against the station ex-

Courts in many districts soon upheld the decision that broadcasters were not operating without compensation for their efforts.

We then changed our position and said that the American Society did have some equity in its arguments. Every composer was entitled to remuneration for his works broadcast. If a station did not wish to pay the American Society the fees it asked, it did not have to broadcast American Society music. There was and is other available. If enough stations had stood together and flatly refused to broadcast American Society music, the society's fees would have been tremendously reduced.

The trouble was that the broadcasters, vying with one another for public recognition and appreciation, were too weak to stand together. But the American Society stuck together nobly and "stuck" the broad-

There is the whole story in a nutshell. The whole affair is nothing but a controversy between the music producers and the music users. Where the public fits into the picture it is difficult to say, inasmuch as the American public does not have to pay for broadcast programs-at least, not directly. As a controversy, it was about as necessary to the swaddling infant Radio

as cutting teeth is to the human baby.
Claims, counterclaims and charges have been made that the American Society is a trust, that the publisher members are thieves and crooks, and many other nasty things. We do not agree nor disagree. It remains for such charges to be proved before they carry weight. Why doesn't some well-financed broadcaster take the American Society before the federal trade commission and disband it? We have long expected such a procedure to be announced.

Maybe the copyright legislation will solve the prob-1em. But we have an idea that the American Society will not like the new law—that is, if it becomes a law, Senator Butler recommending it. Then it will remain for the supreme court to decide the Dill-Vestal copyright law's constitutionality.

Perhaps that will be the end? Perhaps.

#### RADIO INDI-GEST

#### Rajah in a Low Back Chair

At evening-at ease, in a low back chair, Secluded from family, resigned from care, Untroubled by dour and deep meditation, I find combined in recreation. Pleasure and repose.

There in the dusk beyond the lamp's gleam, In a corner of twilight—there to dream. My hands on the Radio's glistening dials, My eyes half closed, across the miles Music at my touch.

A rajah in "make believe" then am I, In regalia beneath the flaunting sky. My tents are raised on the desert sand, Around me in silence my Arab band, While serenaders sing.

What rajah of old had more to amuse, Had more for his pleasure from which to choose? What rajah, or emp'ror, or king may hear Song of siren, and wisdom of seer, As I, in a low back chair?

THOS. L. WILLIAMS

#### Go to the Head of the Class

Dear Indi: Leo Butts, a six-year-old boy at our school here in Burwell, Nebraska, was asked to spell Omaha and he spelled it W-O-A-W. I am twelve years old.

L. J. GARRISON

And to keep any little boys or girls from having to stand in the corner with the fool's cap, we will say that W-E-A-R spells rubber; W-H-O, insurance; W-O-O-D, furniture; W-O-R-D, church.



#### "A FLOP ON THE STAIRS"

by THE THIRD TROMBONE PLAYER Episode 3-The Phantom Killer

-Sebastian Kreske, a retailer of reasonably priced Radio parts is being threatened by the trust. He can't raise his prices as he sells his goods in stores He can't raise his prices as he sells his goods in stores which sell nothing over one dime in price. What to do? Now read the rest of the story to Grandma.

ID DIRKUN, fearless copy boy, gracefully injecting 10 grains of heroin, fixed his limpid orbes on the five and dime magnate saying, "I have it, Mr. Kreske." "Wass iss id," asked Kreske in his best Oxford ac-

Our hero was about to outline the plan when a

Our hero was about to outline the plan when a woman's scream rent the midnight air.

A dull thud followed. The millionaire had fallen to the floor. It took but a glance to see that he was dead.

(Really now, this is getting beyond the limits of a joke. Even the Chicago police would not like it. Extra copies for sale at your druggists.) joke. Even the Chicago police would copies for sale at your druggists.)
(TO BE CONTINUED)

#### Johnny's Map

Johnny Jenkins drew a map And laid it on his teacher's lap; A map of dear old U. S. A.,
The towns all marked the latest way.
Said his teacher: "Tell me why
You've put the letter K.F.I In California? KSD
Up in Missouri? KQP
In Oregon? It puzzles me!"
And Johnny answered: "You would know If you but owned a Radio MADELEINE AARON

#### Help! Help! Help!

In order to make DX reception better, perhaps the stations should lengthen their waves so as to make them reach farther.

Boy, go down and get the wave stretcher.

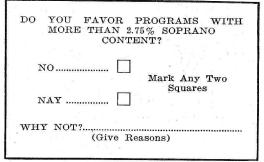
#### Oil Right—Gas He Can

I name John D. Rockefeller for the Famous Fans club. He has more air stations than anyone else. CLANCY

#### She's So Dumb

She thinks Wendell Hall is a girls' seminary.

#### This Straw Vote Is All Wet



In an effort to ascertain if the constitution should have iron in', this strictly impartial ballot is being taken. And what are we going to do about the wash? INDI

#### News of the Week



#### Condensed BY DIELECTRIC

Several obstacles prevented my successfully tuning Station KFKX, Hastings, Nebr., until the other evening, when the familiar voice of their announcer introduced listeners to a special musical program. It was nearly all interesting, though the work of a pianist made the most impression with a program of music of general appeal. Perhaps this station's audience prefers to know in what company it sits; at any rate, the announcer took pains—and time—to make clear that certain individuals in scattered locations were at their sets listening in to the features. None of the names were instructive to me and the numbers were, so that bit of information was superfluous.

We still face such a paucity of orchestra entertainment that visiting ships are called on to supply the lack by some of our broadcasters. Station WIP, Philadelphia, took advantage of the Leviathan's or-chestra to fill one feature on an evening's program. The selections were uniformly choice and well rendered, having as an additional feature, soloists with much to recommend them for return engagements.

In the young American artists series of concerts from Station WLS, Chicago, we had the good fortune to hear a contralto with a voice of very good quality and training and to hear her sing compositions by American composers. One of MacDowell's gems was given with more than ordinary ability and makes one wish to hear this artist sing "The West Wind Croons in the Cedar Trees," by the same composer.

Another of those pleasing organ recitals from Station WHO, Des Moines, broadcast from the Capitol theater, was of a sort to encourage listeners to come back for more. That French woman composer, Cecile Chaminade, has left us some works of real beauty which comparatively few musicians today present to their audiences. It was a pleasure to listen to an adaption for organ of one of the best of these and to note the organist's appreciation of its content.

Whether you would go to the theater and cannot, or frankly prefer to attend by the proxy of Radio, matters not with the possibilities presented by Station WBAP, Fort Worth, Texas, to enjoy diversified entertainment. The theater artists' concerts arranged by this station and frequently broadcast are attractive features. Tune in some evening and permit yourself to relax while listening to what is offered.

Station WQJ, you know how they accent "Chi-cawincluded in a recent program the singing of some sentimental numbers by a tenor thoroughly versed in their style and a soprano, but a few minutes off a vaudeville stage. This was interspersed with the reliable sax in solo capacity. The whole was calculated to take any listener out of the dumps.

Those failing to tune in Station WSB, Atlanta, before the commencement of a well-planned program by the Rialto theater orchestra missed a very interesting and enlightening musical arrangement. It was introduced as the evolution of America: a musical history, beginning with the beating of the Indian tom-tom in a selection representing all of the weird and barbaric musical feeling of the early aborigines. Later we were treated to one of their romantic melodies—more romantic than melodic. The whole conception is something to merit our support, for America is truly forging to the fore in matters musical.

## Super-Torodyne: An Improved 8-Tube Super

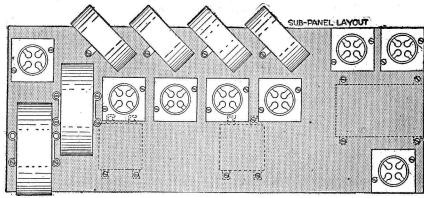
#### Part II-Front and Top Sub Panel Assembly

By J. E. Owen, Univ. of Okla.

N THE first article of this series, the the next article. The one of interest and compactness of the Super-Torodyne was pointed out as a desirable feature, a point of relative superiority over many super-heterodynes. The writers of the articles on the Grand Prix and the DX-Seven Super-Heterodyne each brought out in a very favorable way the compactness of their supers—both of these sets being on the same size panel as that of the Super-Torodyne. The Super-Torodyne, however, has at least one unit not contained in either of the others; the antenna coupler. To provide this same feature it is taken for granted, then, that each of the others would require more space. Constructional details for the Super-Tor-odyne must be very carefully followed if superior super-heterodyne results are to be expected.

importance here is the alteration of the mounting brackets. Sufficient detail for carrying this out is given in figure 5. Each bracket is cut into four parts. These are marked A, B, C, and D, in figure 5. Parts C and D may be junked. Part A is used for sub panel mounting, and Part B is used for mounting the binding post strip over the Victoreen transformers. For cutting these brackets, use any saw that will cut metal. In case such a saw is not available, some sort of a chisel may be used, although it may be necessary to file down rough edges and corners afterwards.

Follow the directions and dimensions of figure 6 for details of the binding post strip which is mounted over the Victoreen transformers with sections B that The cabinet for housing the Super-Tor-odyne must take a panel 7 x 18 inches. It The binding posts are placed on the strip must have a depth of at least 81/2 inches, in the following order: Ant; Ant; Gnd;



FRONT PANEL DRILL

Figure 3

OCCUPANT DIALS

measuring from the back of the front A Bat -; A Bat +; C Bat +; C Bat -; panel. There should be no grooves hold- B Bat -; B Bat +; B Bat +; B Bat +; ng the front panel at the top or bottom Speaker; Speaker.

—that is, there must be a full 7 inches available for apparatus.

Formica was specified for the front panel and the binding post strip, also for the sub panel because it is so readily

All views will be considered as taken from the front of the set and from the dial side of the front panel, unless otherwise specified. It will be noticed that figure 4 gives the exact arrangement of the apparatus used above and beneath the sub panel. There are holes used in wiring that are not shown here, but these will be taken up in time, being purposely omitted in this article to avoid confusion. omitted in this article to avoid confusion. Figures 3 and 4 enable one to visualize the set complete. This makes drilling and assembly much easier and reduces the possibility of mistakes. There is, in this way, no difficulty in identifying the holes that are drilled.

Few Modifications

Few Modifications

There are a few modifications of some of the parts that must be made before the set can be assembled and wired. Two slight modifications of the toroid coils are necessary, but as these are more in the the left, we have in front the two All-nature of wiring, they will be left until American T-2 transformers. In placing

How to Make Brackets

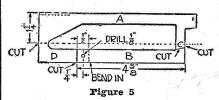
While the assembly of all apparatus beneath the sub panel will be taken up in the next article, it is necessary to mount the sub panel on the brackets in order to go ahead with the assembly above the sub panel. The two holes 13/16 inches from the bottom and  $3\frac{2}{16}$  inches from the end are for the sub panel brackets. Two  $\frac{1}{2}$ -inch spacers are necessary, which may be cut from  $\frac{1}{4}$ -inch pipe. Cut two sections ½ inch in length and file the ends smooth and square. Run the screws through these after they have been put through the holes in the front panel. The mounting breakers are then the square hold. ing brackets are then put on and are held away from the front panel ½ inch. This arrangement is important in order that the load will be more evenly distributed on the sub panel and upon the supporting brackets. Countersink the heads of the machine screws holding the brackets to the sub panel.

A comparison of figures 3 and 4 give considerable detail about the arrangement of the apparatus and, incidentally, the relations of the parts in the circuit. A

on the sub panel, the secondary leads go to the right—that is, the side with the three binding posts is to the left. Both units are mounted in this way. Just back of these is located tube socket This is the first detector. In the entral section underneath the sub panel we have in front the two Tobe Deutschmann 1-mfd. condensers. These may be seen just below the Hammarlund variable condensers in figure 3. Just back of these are tube sockets Nos. 2, 3, 4, and 5. Nos. are tube sockets Nos. 2, 3, 4, and 5. Nos. 2, 3, and 5 are the intermediate frequency amplification sockets, while No. 4 is the oscillator tube socket. Just back of these are the Victoreen intermediate stage transformers. These are placed at an angle of approximately 45° as shown. This angle is not at all critical, but may be roughly obtained by folding a square of paper along one of its diagonals. At the right, we have the second or audio detector and the two stages of audio frequency amplification, numbered 6, 7 and 8.
Unusual Mounting

The two Jefferson audio transformers are mounted in an unusual way. To understand how this is done, turn one of them upside down with the plate and grid

Then place binding posts to the right. the other upon it in an upright position, also with its plate and grid binding posts to the right. The mounting flanges or ears will then be next to each other. Four stove bolts are run down through the holes in these flanges and through the



sub panel. Three and one-quarter inch stove bolts will be required. It will be necessary to ream out the holes slightly in the flanges on the transformers in order for them to accommodate the stove bolts.

This double-decking method of mounting the audio transformers is used because it saves space.

In mounting the tube sockets, the filament connections are placed toward the (Continued on next page)

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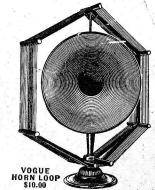
—the best LOOP made for fine tuning. A \$30.00 stand-ard made Cone Speaker is used.

Doesn't 'take up any more space than the regular horn speaker-can't tip or falladjustable to every conceivable angle. If your Set isn't designed to work with an inside Loop, ask us how to change it over.

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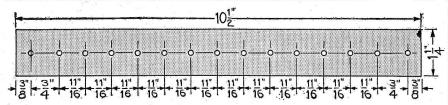


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STEINITE LABORATORIES.

#### SUPER-TORODYNE BINDING POSTS



#### **NEW SUPER-TORODYNE**

(Continued from page 19)

front except in the case of tube sockets plate connections toward the front, with the filament connections, toward the back. Tube socket No. 6 is for the audio detector and should be a Bremer-Tully Silent Socket as specified in the list of

Functions of Controls

Considering the parts on the front panel, and comparing figure 1 of the first article with figure 3, the control at the left is seen to be the first detector regeneration control. It should be mounted with the stator insulating support to the right, remembering that the view is still from the dial side of the front panel. The next control, the National Velvet Vernier dial, is for one of the Hammarlund .000375 mfd. slf. condensers, which tunes the antenna circuit. The next control is before proceeding .- Editor's note.)

400-ohm Victoreen This is followed by the National dial, controlling the oscillator condenser. This condenser tunes the local oscillator circuit and is connected to the toroid coil at the right. Both of the Hammarlund at the right. Both or the mounted in a slf, condensers should be mounted in a shown in figure 3. Two 1/16-inch holes are to be drilled in the front panel for the purpose of anchoring each of the National dials. Complete directions for doing this are furnished with the dials. Single-hole mountings for the condensers should be used because some slight adjustments in the position of the condenser are necessary after the set is assembled. The control at the extreme right is the Benjamin battery switch.

(Next week Professor Owen will contine with the assembly of the Super-Toro-dyne and will take up the wiring of the receiver. As accuracy is the keynote of this construction, it may be well to wait

#### PENSACOLA WELCOMES

(Continued from page 4)

"But it's great to live in Pensacola." says Mr. Frenkel to his Radio audience. "No city in the world compares in historical interest and romantic tradition It is the oldest city in the United States. Our records show that it was founded four years before St. Augustine, more often spoken of as the oldest city on the continent. It has lived under the regime of five flags, Spanish, French, British, Confederate and the Stars and Stripes—

Old Glory. "Pensacola has an eminent social atmos phere, a prestige unsurpassed by any other city in the country. The climate is perfectly enjoyable to citizens from the North, throughout the whole year. It has lakes and hills and trees and old roads, providing scenic beauty and charming tours for motorists."

It's a labor of love, folks, and if you ever have heard the breezy enthusiasm in the voice John E. Frenkel over WCOA, Pensacola, Florida, the Wonderful City of Advantages, you know it.

#### **WOAW AIDS FRIENDSHIP**

(Continued from page 5)

deeper than mere fundamentalism or modernism in religious belief.

The fraternal message is thus given wide scope from WOAW through its amplification of the religious services. Religion and human felicity, human moral growth, go hand in hand; hence, the strong support to the church rendered by the executives of the Woodmen of the World. It has been found that Radio does not conflict with church going, but rather, tends to revive it, to return to the fold

many who had been lost lambs. More than twenty persons compose the staff and its attaches of WOAW. Their sole duties are confined to arranging programs, Radiocasting them, handling fan mail, etc. Three announcers, two operators, a studio hostess, publicity director, program director, four stenographers, five typists, a business manager, phone girls,

make up this staff.
Lester Falmer is program director and



45 volts, \$5.25; 90 volts, \$10.00; 112½ volts, \$12.50; 135 volts, \$14.75; 157½ volts, \$16.80. Truly the biggest buy today. Easily charged on any current including 32-volt systems. Any special detector plate voltage had. Tested and approved by leading authorities such as Popular Radio laboratories. Over 3 years sold on a non-red tape 30-day trial offer with complete refund if not thoroughly satisfied. Further guaranteed 2 years. Knock-down kits at great savings. Complete "Hawley" "B" battery charger, \$2.75. Sample coll, 35c. Order direct —send no money—simply pay the expressman cost on delivery. Or write for my free literature, testimonials and guarantee. Same Day shipments. B. Hawley Smith, 817 Washington Ave., Danbury, Conn.

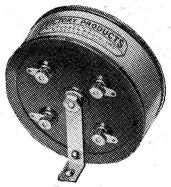
announcer. He is a talented pianist and composer of several popular songs re-cently published, "Lonesome Moon," and "Truly I Do." He edits the WOAW Radio bulletin, a bimonthly journal which contains programs two weeks in advance, as well as descriptive stories and photographs of artists who are on the programs. Ten thousand copies of this bulle-tin are mailed each month to newspapers public institutions, and Radio artists. Mr Palmer is a student of law, and the young est Shriner in Nebraska.

Eugene Konecky is featured as WOAW's poet laureate and announcer. He was the first official poet laureate connected with a Radio station. He is well-known in the Middle West as author of "Trail O' Spring," a volume of poems.

Gus Swanson, announcer, is a very versatile chap, and in the 35 years since his first announcement he has had a varied career. He has had six years' experience in the selling and advertising game, and is at present engaged as a salesman in the printing and publishing line. His musical and commercial career have adapted him perfectly for Radio work, giving him poise and confidence in his microphone work. He is quick witted, congenial and well versed in music and other arts which combined with his ability to entertain and his excellent voice makes him an ideal announcer.

The bedtime stories for the kiddies, are handled by Grace Sorenson, author of juv-

## Bring in Europe Victoreen"Super"



#### The Heart of the Circuit

4, No. 170 R.F. Transformers @ ..7.00 1, No. 150 Coupling Unit @ ....... 5.50 You can secure these and all other parts necessary from your dealer.

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

Ask your dealer for a free folder and hook-up of Victoreen "Super" or write directly to us. This folder answers all questions about the Victoreen.

#### The George W. Walker Co.

6509 Carnegie Ave., Cleveland, Ohio Branches in principal cities.

enile stories, poems and plays and editor of a nationally-known children's publica-

Among the special features are Arthur Hays, organist of the World theater, offering organ recitals at 11 o'clock each Saturday; the Rialto Midnite Alarm, a Tuesday fun fest; Hodek's Nightingale orchestra of the Roseland Garden in a midnight frolic each Thursday. The presentation of stock market reports are made adaily from WOAW in behalf of the thousands of agriculturists throughout the Middle West. The periods of Radiocast of market reports are as follows: 8:15 a. m.; 8:55 a. m.; 10:30 a. m.; 12:30 p. m.; 1:45

#### DO YOU KNOW WHERE THESE PEOPLE LIVE?

WO contributors to Radio Digest Two contributors to Radio Digest have checks awaiting them if they may be located. Letters bearing their addresses have been returned. The two men are Allan Murphy, of Paducah, Ky., and Marvin Shreffler, of Kankakee, Ill. Friends knowing their proper addresses will please correspond proper addresses will please correspond with the Technical Editor, Radio Digest, 510 N. Dearborn St., Chicago.

p. m., and 4 p. m. Among the leading orchestras who entertain WOAW listeners are Gilbert Jaffy's Symphonic; Randall's Royal; Herb Feierman's Omadala, and Frank Hodek and his Nightingales.

All WOAW programs are varied, planned to appeal to a diversity of tastes. planned to appear to a diversity of tastes. Orchestras, vocalists of popular, jazz and classic schools, instrumental soloists, dramas, sports talks, love advice, educational courses, etc., are on the programs at all times. You can't please all the people all the time, but the Woodmen of the World, through WOAW, is pleasing all the people part of the time, and put-ting across a dignified, significant message of fraternalism and religious worship at

The Zurich, Switzerland, station, which up till now used but 500 watts power, has been increased to 5,000 watts. The installation is already provided.

#### Radio Club Notes

Thanks, Mr. Fernald, (whose home town is Baltimore, Md.) Now that others will read of the fine personal work you are doing, many of our Radio club members no doubt will follow suit. Which is but another way of introducing a listener whose interest in Radio is such that he addressed letters to some fifty of his neighbors upon the subject of "Blooping" and offered to help them "keep the air clean.'

Arthur C. Zellner, Radio editor of the Janesville (Wis.) Daily Gazette, opined that a few might join if he suggested a Radio club, not realizing that most of Janesville's Radio population would come to his party. But they did and the SRO sign went up early in the evening. High spots were the talks given by Mr. D. J. Marcus and Thomas Hefferan, while the blue ribbon was voted to the Wisconsin Light and Power company, when the manager, Mr. W. R. Schmedley, mentioned that his company stood ready to stand back of any move which would make for better Radio reception, and to prove it said, "We will replace, at our own expense, any apparatus in our plant that is found to be the source of interference."

Out where the West begins—Cheney, Washington, to be exact, is the headquarters for a live Radio club. Leon Swank is president and Thomas Smith, secretarytreasurer. Just to be sure that they would get started off on the right foot, James S. Lane of the normal school faculty has the pledge of the club members that they will attend a regular course of instruction, which Mr. Lane will con-duct. If you know Radio help your club as Mr. Lane is doing.

Sylvania Radio club of Allentown (Pa.) is so ambitious they have gotten out a new and complete Radio call book with an information encyclopedia compiled by, and of average Radio listeners. Other clubs desiring more information on this subject can write to Joseph E. Yeager, 1236 Gordon street, that city.



## Make Your Own **Cone Loud Speaker** and Save \$2500

(All Parts Supplied)

Why pay \$35 or more for a cone loud speaker when you can easily assemble a splendid super-sensitive one at home with the complete parts we send you—and save \$25?

We include a special complete cone unit, blue print and simplified directions for assembling. You can easily set up this wonderful speaker in a few interesting hours. Large size, stands eighteen inches high, complete in every detail. Not only unmatched for beauty, but reproduces the finest sound of music or voice with faultless accuracy. Yet the cost is amazingly low—only \$10—for the most approved form of speaker known. You make this big saving because we save the cost of assembling and packing and you save all jobbers' and dealers' profits.

Send No Money

Simply send name and address and the complete outfit will be sent you by return mail. When postman brings package, deposit with him only \$10.00 in full payment. If you aren't more than delighted—if you're not absolutely convinced that you have a cone speaker

equally as fine as any \$35 cone sold—simply return the parts within ten days and your money will be instantly refunded. Never before has a better radio bargain been offered. You would pay at least \$35 for a cone speaker of equal quality anywhere. Act at once. Write NOW!

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EASILY ATTACHED AND ATTRACTIVE

No additional upkeep. No wear. Nothing gets out of order. Owners of above model Radiolas use wave spreader continually.

TEN-DAY MONEY-BACK GUARANTEE

and simple instructions for connecting wave spreader to your set mailed with each spreader.

INTRODUCTORY PRICE \$9.80

Postpaid to any address in the United States. Use coupon below and mail order today. Don't fuss with congested wave lengths.

USE THE MARTIN WAVE SPREADER

The National Cycle and Radio Company

Amarillo, Texas 605 East Fourth Street

## How to Stop Blooping and Man-Made Static

Part X—Receiver for Locating Interference

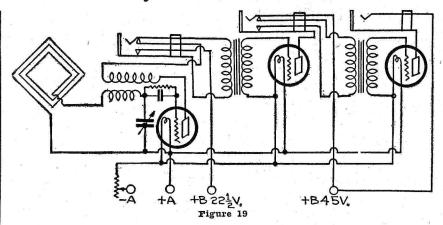
By The Technical Staff

T IS obvious that no intelligent attempt toward the elimination of inter-ference can obtain until a study is made in order to determine its character. as well as its location. Very often such a survey will point the way in which the offending media may be most easily rem-

To illustrate this point, the writer desires to mention a particularly difficult case which he was called upon to assist in eliminating, as an example of peculiartitles which are, at times, almost ridicu-lous once the offending medium is dis-covered. The case in mind had to do with an alternating current hum which insisted upon appearing upon a given evening each week, but was absent at all other times, the noise being so loud and continuous that it was quite impossible to operate the receiver. So far as was possible, without employing a loop directional test, both the receiver and its wiring, including the antenna and lead in, were not at fault. The immediate neighborhood did not reveal any devices which could be blamed for any such noise of this character. It was evident that the unusual was tak-ing place, but how and from what source of supply was an entirely different story.

In near desperation, an inspection of the house wiring was decided upon. Upon entering the kitchen, which was adjacent to the room in which the receiver was located, the first object to greet the writ-er's eyes was the wife of the home busily engaged with her weekly ironing. Turning off the electric iron proved conclusively that we had found the cause of the trouble, it being apparent that, as it was very close to the receiver and only separated by a partition, in operation it was influencing the inductances of the

While many types of circuits which will operate from a loop may be designed and constructed in portable form, as an assistance to those who may not have a suitable circuit, this article describes a type of



other of the completed receiver. It should be understood that in following the circuit, it is not essential that it be mounted as shown in the completed receiver, this photo merely being offered as but one of many arrangements which may be con-structed, and possibly more elaborate than would be desired by many.

The specifications for a receiver follow

ing the diagram shown are as follows: The loop is pancake wound, the outside

turn 22 inches square, the total turns to be 14, spaced %-inch apart. The plate coil consists of 50 turns of number 26 dcc., wound upon a  $3\frac{1}{2}$ -inch tube of Formica. The grid coil is composed of 40 turns of number 26 dcc., wire wound on a 3-inch tube. The tuning condenser should have a maximum capacity of .0005 mfd. and be of the straight line frequency type if possible, although a straight line wave length type will work reasonably well. It is highly desirable that a noninductive variable grid leak with clips for the mounting of a .00025 mfd. fixed condenser be used with this circuit, as at times exreceiver that has proven very satisfactory treme sensitivity is required for the opin locating interference. Two illustra- eration of the detector. Such cases require

tions are shown, one, of the circuit, the a leak which may be varied from 1/4 to 10 megohms in order to secure best detector

As the three tubes are controlled from one rheostat, the resistance value required will vary in accordance with the type of tubes used, while possibly the best practice would be that of using one whose resistance would be sufficient to control all ordinary types of tubes, thus eliminating the necessity of changing the rheostat in the event of one desiring to change from "A" type tubes to 199's.

Your attention is called to the wiring arrangement of the first jack which varies from the usual method in that it is connected in such a manner as to provide audio amplification when it is desired to use auxiliary apparatus in connection with current variations or audio frequency

The question will arise as to whether it is desirable to shield this or other types of receivers which are to be used for the

location of interference, and, at first thought, such a practice would seem advisable. It however is apparent that as the loop must of necessity be exposed it would be quite nonessential to shield the receiver, while in many instances interference caused through, or by, some extreme leak is quite readily picked up and located without having to resort to the use of the loop.

In constructing this or other receivers for this purpose, the same construction rules that direct the building of a high-class receiver for broadcast reception should be followed. Grid leaks should be run as direct and short as possible. Plate leads should be at right angles to the grid leads should be at right angles to the grid leads, if possible, and well apart from them. The by-passing of both the A and B bat-teries should have one's consideration, while the cabling of all low potential wires adds materially to the all around efficiency of the completed receiver.

As the receiver in question is to be of a portable type, sponge rubber should be used underneath the socket mounts or sockets which are designed to compensate for the mechanical vibrations incident to the use of the receiver.

The assistance of such members of Ra-

dio clubs as will earnestly try to locate sources of interference and report them to the individual in charge of all interference activities, is strongly urged. Much assistance will be required, and of a character which will studiously avoid the personal element which is so disastrous to successful progress.

In the experimental group of broadca

listeners, the habit of tinkering with the receiver is all too common. Imaginar troubles pop up and usually at a tim when signal strength fails for a day or so. The listener is often prone to blame his set, while generally the fault is chargeable to atmospherics. This is evi-(Continued on next page)

## No More Static! ling invention eliminates static under

ling invention eliminates static under all weather conditions. No loss of volume. Everything comes in clear and strong. No more exasperating buzzes, squeaks, and howls.

Start to enjoy the pleasure of your radio. Install a Static Eliminator and you can forget all about static forever. And not only that. You will increase the selectivity of your set—you will be able to tune out other stations easier, sharpen signals, remove noises, lessen interference, and prevent reradiation. Over a half million Static Eliminators in use now. Thousands being sold daily. You will be enthusiastic too when you hook it up to your set and hear the amazing difference.

Amazing Low Price



This wonderful new invention sells for only \$1.00. Users say it's easily worth ten times this price because it produces such a wonderful improvement in receiving power and clearness of all radio sets.

## "MARVELOUS!" Users Write

"I find your Static Elimi-ator to be the most wonder-al addition to a radio set in the state of the state o rich, 172 N. 4th St., Columbus, Ohio.

"Am surprised at the won-derful results I am obtaining. I am how receiving stations with clearness that is tryemarkable."—Thos. C. Smith, 2582 Parve Ave., New York.

"Your Static Eliminator is a great help. It gives me a wide receiving range. Last right in less than one hour, I had about 15 different sta-"-R. tions."—R. D. Smith 365, Clermont, Forida.

"I like the Eliminator fine. I wouldn't sell it if I couldn't get a not her."—Burt W. Thompson, Homer, Mich.

642 United Bank Building Cincinnati, Ohio



STATIC Eliminator fits all

STATIC Eliminator fits all makes of radio sets. A child can hook it up in half a minute. Lasts a lifetime. The Static Eliminator is sturdily made to give many years of perfect service. A simple, but effective device that hooks up to any make of set in 30 seconds. Complete, easy to follow directions included with every Eliminator. You will be amazed at the immediate improvement in your results. Mail coupon for your Eliminator now.

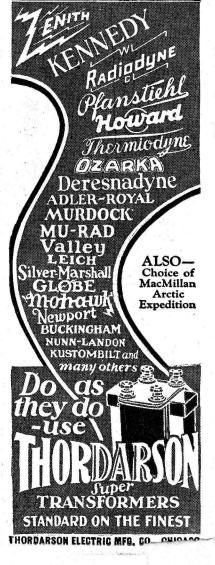
#### Satisfaction Guaranteed

You will be delighted with the results of this remarkable instrument. That's why we guarantee absolute satisfaction. Money back if Static Eliminator is returned within 5 days. Don't be without it another day. Begin at once to know the real joy of receiving all stations without interference, Mail this coupon with a dollar bill—TO-DAY!

#### Mail This Coupon NOW

STATIC ELIMINATOR COMPANY, 642 United Bank Bidg., Cineinnati, Ohio Gentlemen: I ENCLOSE \$1.00 for which please send me one STATIC ELIMINA-TOR as advertised. You will return my money if I return Eliminator in five days. Address City.. . State.

#### Year after Year leading builders of fine sets use more Thordarsons than all competitive makes of transformers combined proof they are best!



#### **JEFFERSON** A L Sealed Transformer



Specified by Dr. Owen

Dr. Owen of Oklahoma University has selected the Jeffer-L Sealed Transformer for his new Torodyne circuit, described in Radio

Digest.
Here are his reasons for choosing this superior transformer: (1), Nicety of balance, giving even amplification at low frequencies, and preventing resonant peaks at the higher frequencies. (2), Tests show a practically straight line curve from 30 cycles for the low notes up to 10,000 for the high. (3), Heavy insulation throughout, lowering resistance between the primary and

Can Be Used with **Power Tubes** 

(4), Can be used with the new power tubes. (5), This trans-former is SEALED IN A METAL CASE, insuring protection against moisture and other outside influences. 2 to 1; price po by leading dealers. If your dealer does not have Jefferson

A L Transformers in stock, do not be satisfied with a substitute, but write us direct.

Jefferson Electric Mfg. Co. 506 S. Green St., Chicago, Ill.

Specialists in Electrical Precision Equipment



#### TROUBLE-SHOOTER IN SUITCASE

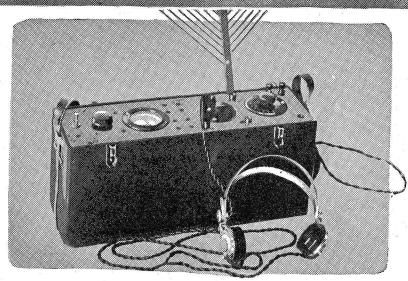


Figure 20

#### HELP STOP BLOOPING

(Continued from page 21) denced by the poor signal strengths which have been an outstanding feature of Radio this season, and particularly so during the recent international tests.

While tinkering is to be discouraged, it is equally important that definite causes interference should be corrected without delay. Once such interference and its source is located, the presentation of the facts to those owning the offending apparatus, should be given in a manner which

The Reader's View

A Moral Obligation

Replying to R. F. Sperling's letter. He ys he would like to know more about our way of doing away with local inter-

ference. He is right about the license fee of one dollar going toward the elimina-

tion of such things as power noises, leaky transformers, ship to shore communication on broadcast waves and similar trou-

bles, but one thing that we are troubled with is the "nut" with the regenerative set who advances his regeneration to the point where he makes life tough for the

The government is absolutely helpless

in this case. There is no law against bringing one's set to the point of oscilla-

tion, it is just a moral obligation. When blooper alize they can get better re-ception just below the point of oscilla-tion, this will be a better town to live

The marine and fisheries department of Canada issues licenses and the law is

that one must have a license before erecting an antenna, under penalty of confisca-

other fellows.

will not offend, and with a spirit denoting a sincere desire to be helpful.

Human nature runs pretty true to form the world over. Rubbing one's feathers the wrong way will never bring about the desired cooperation, while diplomacy coupled with sincerity and fairness will usually accomplish the desired result.

(In the next and final "BLOOP" article, the technical staff will describe a newly discovered cause of interference and prescribe for it. You may be causing a disturbance and not know it.—Editor's note.)

tion of the receiving set. This seems

rather hard on the amateur, ignorant of the conditions, doesn't it? So far in this

city we have not had any noticeable im-provement in reception but, of course, the

noises the inspectors did leave us are

RADIO We want to hear from hard-hitting

radio dealers operating live-wire stores who want to make the best

**DEALERS** 

Our eight big warehouses furnish you with the finest products in radio. And we ship fast.

Write today on your letterhead for big catalog of nationally advertised lines.

Ask for AE 1006 WAKEM & McLAUGHLIN, Inc.

WANTED

jobber connection in America.

down to business and perhaps there will be results. While other Radio publica-tions confine their anti-blooper remarks to the so-called regenerative set, Radio Digest hits the whole family of bloop-ers. More power to you and may you not lose any subscribers or advertisors. lose any subscribers or advertisers.—H. W., Wakefield, Nebr.

> For the Good of Radio Please allow me room in your paper to

impossible to control without "canning" the man who listens with his set boiling over.—E.H.T., Saint John, N. B.

Played to Death

Many of our readers seem to prefer
popular music over the Radio, but I must
say that I can hardly agree with them.

No sooner does a really pretty or catchy tune come out, than the Radio stations begin to literally play it to death. When I first heard "All Alone" I liked the song very much. Then I began to hear it over

the Radio every night from every sta-tion in the country, and after hearing it about fifty times from as many stations, I felt that I never wanted to hear the

song again as long as I lived.
Is it any wonder then, that these songs

very soon cease to be popular and the public clamors for something "new"? I

think Radio broadcasting is a dandy means of destroying the popularity of any

He Likes Us
Thank you, Radio Digest. For four
years I have been waiting for some magazine to come out with the truth as to

what kind of receivers radiate. And you

include the super and the tuned R. F. and the dear old neut. Now we are getting

song.—H.K.M., Alva, Okla.

#### BUS BAR WIRE Use COOK'S

We make a superior wire of pure copper Every piece of Cook Bus Bar Wire is now plainly stamped "COOK'S"—your protection against sub-

Stamped stitutes.

It is finished square or round, properly tinned and correctly tempered for radio use.

Furnished in standard lengths of 2 feet.

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## 6-tube Set with Integral Loud Speaker 75

A wonderful, sharp tuning set of beautiful tone, made complete in our own factory. Five tube assembly suffices for most stations, but volume can be tripled by using 6 tube terminal. No wasteful neutralizing condensers but perfect balance of parts. See Nightingale dealer or write to



225 E. ILLINOIS STREET, CHICAGO, ILL.

It SEPARATES the STATIONS One Dial (1 condenser) GOES THRU STATIC



SUPERFLEX-\$80.00 list

Dealers—ask us WHY? Test a sample.

RADIO PRODUCTS CORPORATION, (Inc.)
3816 N. 28th St. Birmingham, Alabama

#### **CLASSIFIED ADVERTISEMENTS**

Classified advertisements in Radio Digest produce results. Have you a receiving set to sell? Do you want to buy a Radio? A classified advertisement in this column will sell your set.

will sell your set.
Rates are twenty cents a word for each insertions, ten per cent for six insertions, afteen per cent for twelve insertions, twenty per cent for twenty-four insertions. Name and address to be included at above rate. Cash should accompany order. Minimum of ten words.
Objectionable and misleading advertisements not accepted. Forms close three weeks prior to date of publication, which is Saturday.

#### **BLUE PRINTS**

Super-Het, Ryan's Simplest Possible 7-Tube Set. Complete instructions, actual size template. How to make a loop. All for 50 cents. Book Dept., Radio Digest, 510 North Dearborn Street, Chicago.

#### **MISCELLANEOUS**

Photos of Your Favorite Radio Stars. cents and coupon appearing on another page of this issue will entitle you to one of the photos from Radio Digest gallery of stars. Radio Digest, 510 North Dearborn Street, Chicago.

#### PATENT ATTORNEYS

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

#### **RADIO**

Five tube Radio only \$22.50. Seminole Radio, 427 East 16th St., New York.

#### A&B Battery \$2 Charger ONLY **SATISFACTION GUARANTEED**



wextras" to buy.

Why pay \$10.00 to \$18.00

for a charger when you can
get this splendid GUARANTEED R. B. Charger by
mailing us two dollars (bills, money order, check or
stamps) plus 10c in stamps or coin to pay mailing costs.
Charger will be sunt postpaid. If you are not satisfied, return within five days and we will refund your
money. Order at once—TODAY.

R. B. Specialty Company 308 East Third, Dept. 343, Cincinnati, Ohio

## Radio Bargain Hunters This Cabinet \$ 345

with built in speaker also carried in 7x24-7x26



in 7x24—7x26
Finished in hand rubbed Adambrown mahogany. Lower part of the cabinet contains the loud speaker horn. The end of the loud speaker is covered with a silk screen which adds richness to the entire ness to the entire cabinet. A clip suitable for attaching a loud speaker unit is included. No unit included.

values to \$14.00 Included.

We purchase for cash, bankupt and surplus stocks from manufactures and jobbers throughout the country. By selling entirely for cash, we are able to offer guaranteed quality radio apparatus at hitherto unheard of, low prices. We do not have everything in radio, but if we have it, you can save money.

Send for the Bass Bargain Bulletin and save money on your radio needs.

A. H. BASS & CO. 744 N. Clark St., Dept. 16, Chicago, Ill.

express my opinion concerning the over-crowded and general "mussed up" condicrowded and general "mussed up" condition of the wave channels from 280 meters on down. I think something should be done to bring about some relief of the situation. As it is now, the lower half of the dials are practically useless, except a few stations that can be received clear and without interference from other stations near the same wave length. This situation is a serious matter and needs Mr. Hoover's immediate attention.—W.B.S., Austin Texas.

Justifies WJAZ Piracy

I have been somewhat interested to read of the federal suit against WJAZ for pirating wave lengths, I feel that WJAZ is perfectly justified in "Piracy," if you wish to call it that. The Radio commission has given them such a small assignment of time as compared to other stations that you can't blame them for turning pirates. Here's hoping that Mr. McDonald of WJAZ wins out. Compliments to E. F. McD.—F. A. P., Nestoria, Mich.

Short waves travel farther than long waves and require less power to cover the same distance than the longer waves do.

A storage battery is good for several ears or more, depending on its careful maintenance.

#### NICHROM E WIRE

Easy Now to Make and Repair Electrical Appliances
Highest grade resistance wire needed in all electrical
appliance building and repair; Absolutely guaranteed
up to 660 watts, 110-12-Volts, 6 Amps.

COMPLETE Put up in handy packs, enough to wire
PACKAGE 600 or repair range, furnace, iron, griddle,
toaster or any appliance, complete with mica washers
and full instructions. Or furnished in straight lengths
100 ft or more; small size round or flat 1½c foot;
large size round 2c foot. Order today. Either enclose
money, stamps or draft.

ANDERSON-PILIT CORPORATION.

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Makers of the Anderson-Pitt Heater
Kansas City, Mo.

#### BODINE TWIN-EIGHT R.F. COIL



A remarkable new radio frequency transformer that requency transformer that combines a very limited magnetic field with tremendous amplification. Very sharp tuning. For real satisfaction use TWIN-EIGHTS.

Price \$3.00 each, \$9.00 per set of 3 matched coils.

At your dealer or sent postpaid upon receipt of check or money order. Wiring diagrams free.

BODINE FIGURE 100P AERIAL
Wonderfully efficient. Large enough
to give good signal pick-up, but
folds to fit in small box. Beautifully finished in mahogany and
sath silver. The best loop at any price.
Standard loop \$8.50. Equipped with 5
point tap switch \$10.00. Write for folder.

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banishes the trouble forever. Repairs punctures without taking the tire off the rim. Actually makes any tire puncture-proof for life. Seals instantly all punctures, slow leaks and prous places, often increases tire mileage from 10,000 to 12,000 miles by preserving rubber and keeping tires properly inflated. Positive money back guarantee means GALACITE\* must make good—or we will.

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ritory. Your name and address brings par-ticulars by return mail. Send Today before someone else gets territory you want. C.F.JOHNSON & CO., 19 W. Jackson Blvd., Dept. 172, Chicago, U.S.A.

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22 Cells
24 Volts Lasts Indefinitely—Pays for Itself
24 Volts Lasts Indefinitely—Pays for Itself
25 Common of the performance unheard of before. Recharged at a neglicible of the performance unheard of before. Recharged at a neglicible of the performance unheard of the dear, pure and quiet,
abproved and listed as Standard by ted did leading. Pop. Radio Laboratories, Pop. Sci. Inst. Standards, Radio News
25 Laboratories, Pop. Sci. Inst. Standards, Radio News
26 Laboratories, Pop. Sci. Inst. Standards, Radio News
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with order. Mail your order now!
WORLD BATTERY COMPANY

1219 So. Wabash Ave. Dept. 76 Chicago, Ill.
Makers of the Famous World Radio "A" Storage Battery,
Prices: 6-volt, 100 Amp. \$11.25, 120, Amp. \$12.20, 120 Amp. \$14.00.
All equipped with Solid Rubber Case.

World
STORAGE BATTERIES

Watch for announcements. AF WGN WUS KHU KGO KFA WUYE KOT

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Corrected Every Week-Part V

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Alabama:
Auburn, WAPI
Birmingham, WBRC
Montgomery, WIBZ Arizona:

Flagstaff, KFXY Phoenix, KFAD, KFCB Arkansas: Fayetteville, KUOA Hot Springs National Park, KTHS

California:
Alma, KFQU
Avalon, KFWO
Bear Lake, KFXB
Berkeley, KRE
Burlingame, KFOB
Chico, KFWH
Fresno, KMJ
Hollywood, KFQZ, KFWB, KNX
Long Beach, KFON
Los Angeles, KFI, KFPR, KFSG,
KHJ, KMTR, KNRC, KTBI
Oakland, KFUS, KFUU, KFWM,
KGO, KLS, KLX, KTAB, KZM
Oxnard, KFYF
Pasadena, KPPC, KPSN
Sacramento, KFBK
Sun Diego, KFBC, KFVW
San Francisco, KPBC, KGTT,
KJBS, KPO, KUO
San Jose, KFAF, KQW
San Pedro, KFVD
Santa Barbara, KFHJ
Santa Maria, KSMR
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Colorado Springs, KFUM, KFXF
Denver, KFEL, KFXJ, KFUP,
KFYR, KLZ, KOA
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Gunnison, KFHA
Trinidad, KFBS Colorado:

Connecticut:
Hartford, WTIC
New Haven, WDRC
Stores, WCAC

Delaware: Wilmington, WHAV District of Columbia: Washington, WCAP, WMAL, WRC, WRHF

WRC, WRHF

Florida:
Clearwater, WGHB
Fulford-by-the-Sea, WGBU
Jacksonville, WAAX
Miami, WQAM
Miami Beach, WIOD, WMBF
Pensacola, WCOA
St. Petersburg, WHBN, WJBB
Tampa, WDAE
Winter Park, WDBO

Georgia:
Atlanta, WDBE, WGST, WSB,
Macon, WMAZ
Savannah, WEBZ

Idaho: Boise, KFAU, KFDD Kellogg, KFEY

Illinois:
Batavia, WORD
Cambridge, WTAP
Carthage, WTAD

City, State. State, City, Can Illinois (Continued) Chicago, KYW, WAAF, WBBM, WBBZ, WBCN, WEBH, WENR, WFKB, WGN, WHBL, WHT, WIBJ, WIBM, WIBO,

Niceaso, WBEZ, WBCN, WBEZ, WFKB, WGN, WHBL, WHDA, WFKB, WGN, WHBL, WHDA, WHO, WJAZ
WKBG, WLIB, WLS, WLTS, WMAQ, WMBB, WOK, WPCC, WQJ, WSBC, WSWS
Decatur, WBAO, WJBL
Evanston, WEHS
Galesburg, WFBZ, WRAM
Harrisburg, WEBQ
Joliet, WCLS, WJBA, WKBB
La Salle, WJBC
Mooscheart, WJID
Oak Park, WGES
Plainfield, WWAE
Rock Island, WHBL
Streator, WTAX
Sycamore, WJBN
Tuscola, WDZ
Urbana, WRM
Zlon, WCBD

Tndiana:
WERD, WHBU

Indiana:

Anderson, WEBD, WHBU
Culver, WHBH
Evansville, WGBF
Fort Wayne, WHBJ, WOWO
Kokomo, WJAK
Indianapoits, WFBM
Laporte, WRAF
Logansport, WIBW
South Bend, WSBT
Seymour, WFBE
Walparaiso, WRBC
West Lafayette, WBAA

Ames, WOI
Amita, KFLZ
Boone, KFGQ
Borne, KFGQ
Burlington, WIAS
Cedar Rapids, KWCR, WJAM
Clarinda, KSO
Council Bluffs, KOIL
Davenport, WOC
Des Moines, WHO
Fort Dodge, KFJY
lowa City, KFQP, WSUI
LeMars, KWUC
Marshalltown, KFJB
Muscatine, KTNT
Oskalovas, KFHI,
Shenandoah, KFNF, KMA
Sloux City, KFMR, WEAU
Kansas: Iowa:

Kansas: Independence, KFVG Junction City, KFJC Lawrence, KFKU Manhattan, KSAC Wichita, KFH, KFOT

Kentucky:
Louisville, WHAS, WLAP

Louisiana:
Kennonwood, KFDX, KWKH
New Orleans, WABZ, WBBS,
WCRE, WJBO, WOWL,
Pineville, KFWU

Maine: Bangor, WABI Orono, WGBX Portland, WCSH

Maryland:
Baltimore, WBAL, WCAO,
WCBM, WFBR
Takoma Park, WBES

State. City, State, Massachusetts: WBZA, WEEI, WNAB,

MASSACHUSETES:
Boston, WBZA, WEEI, W
WNAC, WSSH
Fall River, WSAR, WTAB
Medford Hillside, WARC
New Bedford, WNBH
South Dartmouth, WMAF
Springfield, WBZ
Taunton, WAIT
Webster, WKBE
Worester, WTAG

Worcester, WTAG

Michigan:
Bay City, WSKC
Berrien Springs, WEMC
Dearborn, WWI
Detroit, WCX, WGHP, WJR,
WMBC, WWJ
East Lansing, WKAR
Escanaba, WRAK
Flint, WFDF
Grand Rapids, WBDC, WOOD
Houghton, KFMW, WWAO
Lansing, WREO
Mt. Clemens, WABX
Owosso, WSMH
Petosky, WBBP
Port Huron, WAFD
Royal Oak, WAGM
Ypsilanti, WJBK

Minnesota:

Ypsilanti, WJBK

Minnesota:
Collegevitle, WFBJ
Minneapolls, KFDZ, WAMD,
WCCO, WGWY, WHDI, WLB,
WRHM
Northfield, KFMX, WCAL
St. Cloud, WFAM
St. Paul, AV7, KFOY
Sihtipok, KIAF
Welcome, KFYN

Mississippi:
Coldwater, WREC
Oxford, WCBH Missouri:

Cape Girardeau, KFVS
Carterville, KFPW
Columbia, KFRU
Independene, KLDS
Jefferson City, WOS
Kansas City, KWKC, WDAF
WHB, WOQ
Kirksville, KFKZ
Moberly, KFFP
St. Louis, KFQA, KFUO,
KFWF, KMOX, KSD,
WIL, WMAY, WSBF
University City, KFVE

Montana:

Montana: Havre, KFBB Missoula, KUOM

Missoula, KUOM

Nebraska:
Clay Center, KMMJ
David City, KFOR
Hastings, KFKX
Lincoln, KFAB, KFAV
Norfolk, WJAG
Oak, KFEQ
Omaha, KOCH, WAAW, WNAL,
WOAW
University, Place, WAAY University Place, WCAJ

New Hampshire: Laconia, WKAV

New Jersey:
Atlantic City, WHAR, WPG
Camden, WGAM
Elizabeth, WIBS
Gloucester City, WRAX
Lambertville, WTAZ
Newark, WAAM, WNJ, WOR
North Plainfield, WEAM
Paterson, WODA

City, New Jersey (Continued)
Red Bank, WJB1
Trenton, WOAX

New Mexico: Albuquerque, KFLR, KFVY State College, KOB

New York:

New York:

Bay Shore, WRST
Buffalo, WEBR, WGR, WPDQ,
WSVS
Canton, WCAD
Cazenovia, WMAC
Flushing, WIBI
Freeport, WGBB
Ithaca, WEAI
Jamestown, WOCL
Kingston, WDBZ
Lockport, WMAK
New York, WBBR, WBNY,
WBPI, WEAF, WEBJ, WFRL,
WGBS, WGCP, WHAP, WHN,
WJY, WJZ, WLWL, WMCA,
WMSG, WNTC, WKO, WQAO,
WRMU, WRNY, WSDA
Richmond Hill, WAHG, WGOQ,
WFBH, WFBL, WGMU,
WWGL
Rochester, WABO, WHAM,
WHEC
Schenectady, WGY

WHEC Schenectady, WGY Syracuse, WFBL Tarrytown, WRW Tondi, WONK Troy, WHAZ Utica, WIBX

North Carolina: Asheville, WABC Charlotte, WBT, WJBG Fort Bragg, AT9 Raleigh, WRCO

North Dakota: Bismarck, KFYR
Devils Lake, KDLR
Fargo, WDAY, WPAK
Grand Forks, KFJM

Dhio:
Akron, WADC
Bellefontaine, WHBD
Canton, AQ6, WHBC
Cambridge, WEBE
Clineinnati, WAAD, WKRC, WLW,
WSAI
Cleveland, WDBK, WEAR, WHK,
WTAM
Columbiae
WAALU, W. A. O.

WTAM
Columbus, W A I U, W E A O,
WMAN
Dayton, AW5, WSMK
Hamilton, WRK, WSRO
Pomeroy, WSAZ
Springfield, WCSO
Toledo, WABR, WTAL
Wooster, WABW
Yellow Springs, WRAV

Oklahoma:
Bristow, KVOO
Chiekasha, KOCW
Norman, WNAD
Oklahoma City, KFJF, KFXR,
WKY
Tulsa, WLAL
Oregon:

Oregon:
Astoria, KFJI
Corvallis, KOAC
Portland, KFEC, KFIF, KFJR,
KFWV, KGW, KQP, KTBR

Pennsylvania:
Al'mtown, WCBA, WSAN
Altana, WFBG
Elkias Park, WIBG

City,

State, City, Call
Pennsylvania (Continued)
Grove City, WSAJ
Harrisburg, WABB, WBAK,
WHBG, WPRC
Haverford, WABQ,
Johnstown, WHBP
Lancaster, WGAL
Lewisburg, WJBU
Oil City, WHBA
Parkesburg, WQAA
Philadelphia, WABY, WCAU,
WFD, WFI, WHBW, WIAD,
WIP, WLIT, WNAT, WOO,
Pittsburgh, KDKA, KQV, WCAE,
WJAS
Reading, WRAW

WJAS
Reading, WRAW
Scranton, WGBI, WQAN
State College, WPSC
Wilkes-Barre, WBAX, WBRE Rhode Island:

Cranston, WDWF
Providence, WCBR, WCWS,
WEAN, WGBM, WJAR, WLSI South Carolina:

South Dakota:
Brookings, KFDY
Rapid City, WCAT
Vermillion, KUSD
Yankton, WNAX

Tennessee:
Chattanoga, WDOD
Knoxville, WFBC, WNOX
Lawrenceburg, WOAN
Memphis, WGBC, WHBQ, WMC
Nashville, WCBQ, WDAD, WSM

Nashville, WCBQ, WHAQ, WMM
Texas:
Amarillo, WDAG
Austin, KUT
Beaumont, KFDM, KFXM
Beeville, KFRM
Brownsville, KWWG
College Station, WTAW
Dallas, WFAA, WRR
Dublin, KFPL
EI Paso, KFXH, WDAH
Fort Worth, KFQB, KFJZ, WBAP
Galveston, KFLX, KFUL
Greenville, KFPM
Houston, KFVI, KFYJ, KPRC
San Antonio, WCAR, WOAI
San Benito, KFUU
Texarkana, KFYO
Waco, WJAD

Utah:

Logan, KFXD Ogden, KFUR, KFWA Salt Lake City, KDYL, KFOO, KFUT, KSL Vermont:

Burlington, WCAX Springfield, WQAE Springheid, WQAE

Virginia:
Norfolk, WBBW, WTAR
Radio, NAA
Richmond, WBBL, WRVA
Roanoke, WDBJ Washington:

Washington:
Everett, KFBL
Lacey, KGY
North Bend, KFQW
Olympia, KFRW
Pullman, KWSC
Seattle, KFOA, KJR, KTCL,
KTW
Spokane, KFPY, KHQ
Taconia, KMO
Walla Walla, KOWW
Yakima, KFIQ

State, West Virginia: Weirton, WIBR

Weirton, WIER

Wisconsin:
Beloit, WEBW
Camp Lake, WCLO
Eau Claire, WTAQ
Fond du Lac, KFIZ
Madison, WHA, WIBA
Marshfield, WGBR
Milwaukee, WHAD,
WSOE
Omro, WJBR
Poynette, WIBU
Sisiht, WBAR
Stevens Point, WLBL
Superior, WEBC
West De Pere, WHBY
Wyoming:

Wyoming: Laramie, KFBU

Alaska: Anchorage, KFQD Juneau, KFIU

Juneau, KFIU
Hawaii:
Honolulu, KGU
Philippine Islands:
Baguio, KZUY
Manila, KZIB, KZKZ, KZRQ

Porto Rico: San Juan, WKAQ

Porto Rico:
San Juan, WKAQ

Canada:
Burketon Junetion, CKCW
Burnaby, CJKC
Calgary, CFAC, CFCN, CNRC
Charlottetown, CFCY
Edmonton, CFCK, CJCA, CNRE
Hamilton, CFCU, CHCS, CKOC
Iroquois Falls, CFCH
Kingston, CFMC, CFRC
London, CJGC
Moneton, CNRA
Montreal, CFCF, CHYC, CKAC,
CNRM
New Westainster, CFXC, CFYC
Ottawa, CHXC, CKCO, CNRO
Regina, CKCK, CNRR
Saskatoon, CFQC, CHUC, CJW
CNRS
Thorold, CFCC
TOronto, CFCC, CHC, CHN,
CJBC, CJCD, CJSC,
CKCL, CKNC, CRT
Unity, CHSC
Vancouver, CFCQ, CFDC, CKCD
CKFC, CNRV
Victoria, CFCT, CNRW

Cuba:

Cuba:

amaguey, 6YR, 7AZ, 7BY, 7CX, 7DW, 7SR

TDW, 7SR
Santa Clara, 6BY, 6DW, 6EV,
6GR, 6GT, 6HS, 6JQ
Colon, 5EV
Havana, PWX, Q2LC, 1AZ, 2AR,
2BB, 2BY, 2CG, 2CX, 2EP,
2HP, 2JL, 2JP, 2LR, 2MG,
2MK, 2OK, 2OL, 2PK, 2RK,
2RM, 2RY, 2SZ, 2TW, 2UF,
2WW, 2XX
Mantanzas, 5AZ, 5RY Mantanzas, 5AZ, 5BY Santiago, 8AZ, 8BY, 8FU, 8IR,

8JQ Tuinucu, 6XJ, 6KW

Tuinuc.,
Mexico:
Chihuahua, CZF Chinahua, CZF
Mazatlan, CYR
Mexico City, CYA, CYB, CYG,
CYH, CYL, CYX, CYZ,
A
CZE, XDA
Monterey, CYS
Oaxaca, CYF

#### STATION SCHEDULES

(Continued from last week)

CHIC, Toronto, Can. 356.9m-840kc. 500 watts. Northern Electric Company, Ltd. Announcer, R. W. Lowman. Mon, 8-10 pm. Sat, 8 pm. Eastern. CHNC, Toronto, Can. 356.9m-840kc. 500 watts. Toronto Radio Research society.

CHSC, Unity, Sask, Can. 356.9m-840kc. 250 watts. Horace N. Stovin. Slogan, "A Good Town in a Good District." Daily ex Sun, 5-6.30 pm. Wed, 8-12 mid. Sun, 9-10:30 pm. Mountain.

CHUC, Saskatoon, Sask, Can. 329.5m-910kc. 50 watts. International Bible Students' association. Announcer, G. B. Nash. Tues, Thurs, 8-10 pm. Sun, 8:30-10:30 pm.

pm.
CHXC, Ottawa, Ont., Can. 434.5m-690kc. 250 watts.
J. R. Booth, Jr. Fri, 8:30-1 am.
CHYC, Montreal, Que., Can. 410.7m-730kc. 850 watts.
Northern Elec. Co., Ltd. Announcer, N. S. Richards.
Wed, 7-8 pm, 8:30. Sun, 11 am, 7 pm. CNRM programs occasionally.
CJBC, Toronto, Can. 356.9m-840kc. Jarvis St. Baptist
Church.

Church.

GlaA, Edmonton, Alta., Can. 516.9m-580kc. 500 watts.

Edmonton Journal, Ltd. Announcer, R. A. Rice. Slogan: "The Sunniest Spot in Sunny Alberta:" Daily ex Sun, 12:30 pm, news, markets. Thurs, 6-8 pm; 8-8:15. Sun, 7:30-9 pm. Mountain.

GJCD, Toronto, Ont., Can. 356.9m-580kc. 50 watts. The T. Eaton Co., Ltd.

GJGC, London, Ont., Can. 329.5m-910kc. 1,000 watts. London Free Press. Daily ex Sun, 1-2 pm. stocks, music. Tues, Wed, Thurs, Fri, 7-9 pm. Fri, 11-12 midnight. Sun, 11 am, 1-3 pm, 7, church services. Eastern.

midoight. Sun, 11 am, 1-3 pm, 7, cutton services. Eastern.

GIRC, Burnaby, B. C., Can. 410.7m-730kc. 500 watts. Pyramid Temple society.

GISC, Toronto, Can. 356.9m-840kc. 500 watts. The Evening Telegram.

GIWC, Saskatoon, Sask., Can. 329.5m-910kc. 250 watts. Wheaton Elec. Co. Announcer. M. Bowes. Daily ex Sun, 12-1 pm. Mon, 8-10. Tues. Thurs, 6-7 pm, dinner. Slogan, "The Voice of Saskatoon." Mountain.

GIYC, Toronto, Can. 291.1m-1030kc. 500 watts. Deforest Radio Corp., Ltd.

GKAC, Montreal, Que., Can. 410.7m-730kc. 3,300 watts. La Presse. Announcer, Jacques Cartier. Mon, Wed,

CKAC, Montreal, Que., Can. 410.7m-730kc. 3,300 watts. La Presse. Announcer, Jacques Cartler. Mon, Wed, Fri, 1:45 pm, orhestra. Daily ex Sat, 4 pm, weather, markets, stocks, reports. Tues, Sat, 7 pm, safety talks; 10:30, dance. Sun, 2:45 pm, Capitol theater; 4:30, first three Thurs of month, CNRM. Last Thurs, Frontenac Breweries studio. Eastern.

CKCD, Vancouver, B. C., Can. 410.7m-730kc. 750 watts. Vancouver Daily Province. Announcer, William Rose. Slogan, "Canada's Western Gateway." Daily ex Sun, 8:30-9:30 pm, music, news, entertainment. Pacific.

CKCK, Regina, Sask., Can. 312.3m-960kc. 500 watts. Leader Pub. Co. Announcer, A. W. Hooper. "The Queen City of the West." Daily ex Sat, Sun, Tues, 9:45-10:30 am; 1-1:45 pm. Sun, 9 9:45-10:30 am; 1-1:45 pm. Sun, 9 pm, service. Mountain.

CKCL, Toronto, Can. 359.9m-840kc. 5,000 watts. The Dominion Battery Co., Ltd.; Daily ex Sat, Sun, 10:30 am, 10:38, lime. Mon, Wed, Fri, 7 am, 7:15, 7:45. exercises; Mon, Fri:20 am, markets; 3:30-4:30 pm. Tues.

3-4:15 pm, 7-11:50. Wed, 11:20 am, 3-3:30 pm. Thurs, 3-4:30 pm. Fri, 11 am, 11:20, markets; 3:15-4:30 pm. Sat, 7-8 pm. Sun, 3-4 pm. Eastern. CKCO, Ottawa, Ont., Can. 494.5m-690kc. 100 watts. Dr. G. M. Geldert (Ottawa Radio Assn.) Announcer, Dr. O. K. Gibson. Slogans, "Ottawa's Radio Voice." The Community Voice of Canada's Capital. Tues, 8-10 pm. Sun, 7 pm, services; 9, sacred concert. Eastern.

8-10 pm. Sun, 7 pm, services; 9, sacred concert. Eastern.
CKCW. Burketon Junction, Ont., Can. 329.5m-910kc. 5,000 watts. Canadian Broadcasting Corp.
CKFC, Vancouver, B. C., Can. 410.7m-730kc. 50 watts. First Congregational church.
CKNC, Toronto, Ont., Can. 356.9m-840kc. 750 watts. Canadian National Carbon Co., Ltd. Mon, 8-12 mid. Sat, 4-5 pm, 8-12. Eastern.
CKOC, Hamilton, Ont., Can. 340.7m-880kc. 50 watts. Wentworth Radio Supply Co., Ltd. Announcer, F. May. Slogan: "In the Garden of Canada." Mon, Sat, 6:15-7:15 pm, organ. Tues, Wed. Thurs, 5:39-6:30 pm. Fri, 6-7 pm. Sat, 4:30-5:30 pm. Sun, 2-3 pm. Eastern.
CKY, Winnipeg, Man., Can. 384.4m-780kc. 500 watts. Manitoba Tel. System. Announcer, D. R. P. Coats. Slogan, "Manitoba's Own Station." Daily ex Sun, 10:50-11 am, time, weather; 12:30-1:30 pm, music, lectures, livestock; 2:15 pm, grain markets; 4-5, news, kiddles story. Mon, Thurs, Sat, 8 pm, lecture; 8:30, central.
CKNA, Moncton, N. B., Can. 312 3m-960kc. 500

music. Wed, 7:30 pm, CNRW program. Sun, 7 pm. Central.
CRRA, Moncton, N. B., Can. 312.3m-960kc, 500 w at t t s. Canadian National Railways. Announcer, W. V. George. Slogan, "Voice of the Maritimes." Daily ex Sun, 2:45-3:45 pm. Tues, 7:30 pm. Fri, 9 pm. Atlantic.
CNRC, Calgary, Alta., Can. 435.8m-688kc, 750 watts. Canadian National Railways. Thuts, 7 pm, bedtime story; 9-11. Mountain.
CNRE, Edmonton, Alta., Can. 516.9m-580kc. 500 watts. Canadian National Railways. Fri, 7:30-8 pm, 8:30-10:30. Mountain.
CNRM, Montreal, Que., Can. 410.7m-730kc. 1.000-1.650 watts. Canadian National Railways. Fri, 7:30-8 pm, 8:30-10:30. Mountain.
CNRM, Montreal, Que., Can. 410.7m-730kc. 1.000-1.650 watts. Canadian National Railways. Announcer, J. S. McArthur. Thurs, 8:30 pm. Eastern.
CNRO, Ottawa, Can. 434.5m-690kc. 500 watts. Canadian National Railways. Announcer, A. W. Ryan. Wed, Sat, 7:30 pm, markets, bedtime story; 8, 9, 10:30, dance program. Eastern.
CNRR, Regina, Sask., Can. 475.9m-630kc. 500 watts. Canadian National Railways. Tues, 8-10 pm. Mountain.

tain.

CNRS, Saskatoon, Sask., Can. 329.5m-910kc. 500 watts. Canadian National Railways. Daily, 2:30-3:30 pm. Mountain.

CNRT, Toronto, Ont., Can. 356.9m-840kc. 500 watts. Canadian National Railways. Announcer, E. W. Jackson. Fri, 6:30-12 midnight. Eastern.

CNRV, Vancouver, Can. 291.1m-1030kc. 500 watts. Canadian National Railways. Announcer, G. A. Wright.

Canadian National Railways. Wed, 7:30 pm, bedtime story, farmers' talk; 8, dinner concert; 8:30, studio; 10, dance. Central.

Cuba

WX, Havana, Cuba. 400m-750kc. 500 watts. Cuban Telephone Co. International Tel. & Teleg. Corp. Mon, Tues. Sat. 8:30-11 pm. Wed, Sun, 8-10 pm. music. Eastern.

 Q21.C, Havana, Cuba. 250m-1200kc. 50
 watts. Luis Casas.
 6XJ, Tuinucu, Cuba. 275m-1090kc. 1
 atts. F.

 1AZ, Havana, Cuba. 275m-1090kc. 275m-1090kc. 25
 watts. Antonio Sarasola.

 2AB, Havana, Cuba. 235m-1277kc. 10
 watts. Alberto S.

 1Dorra.

 10
 watts. Alberto S.

 Bustamante.
2BB, Havana, Cuba. 255m-1176kc. 15 watts. Bernardo

Barrie.
2BY, Havana, Cuba. 315m-952kc. 100 watts. Electrical Equipment Co. of Cuba. Mon, Thurs, 7-8 pm. Eastern 2CG, Havana, Cuba. 350m-857kc. 15 watts. Humberto Giquel.
2CX, Havana, Cuba. 320m-937kc. 10 watts. F. W. Parion.

EP, Havana, Cuba. 355m-845kc. 400 watts. El Pais. 2HP, Havana, Cuba. 295m-1016kc. 100 watts. Credito y Construcciones Co.

2HP, Havana, Cuba. 295m-1016kc. 100 watts. Credito y Construcciones Co. 2JL, Havana, Cuba. 275m-1090kc. 5 watts. Jose Leiro. 2JP, Havana, Cuba. 275m-1106kc. 20 watts. Julio Power. 2LR, Havana, Cuba. 235m-1277kc. 10 watts. Jose Lara. 2MG, Havana, Cuba. 280m-1070kc. 20 watts. Manuel Y. Guillermo Salas Music Store. Announcer, Roger Morales. Daily, 3-4 pm. music. One day each week, 8-11 pm. Eastern. 2MK, Havana, Cuga. 85m-3528kc. 20 watts. R. V. Waters. 20K, Havana, Cuba. 360m-833kc. 100 watts. Mario Garcia Velez. 20L, Havana, Cuba. 300m-1000kc. 100 watts. Columbus Cycle Radio Co. 2PK, Havana, Cuba. 195m-1538kc. 10 watts. George A. Lindeaux. 2RK, Havana, Cuba. 310m-967kc. 100 watts. Raoul

Iborra.
7AZ, Camaguey, Cuba. 225m-1338kc. 10 watts. Pedro 7AZ. Camaguey, Cuba. 225m-1333kc. 10 watts. Pedro Nogueras.
7BY, Camaguey, Cuba. 235m-1277kc. 20 watts. Eduardo V. Figueroa.
7CX, Camaguey, Cuba. 85m-3528kc. 10 watts. Leonard B. Fox.
7DW, Camaguey, Cuba. 90m-3333kc. 10 watts. M. L. Quintana.
7SR, Camaguey, Cuba. 300m-1000kc. 500 watts. Salvador C. Rionda. Slogan, "Cuba, the Land of Sunshine, Sugar and Tobacco." Mon, Tues, Thurs, 8:30 pm. Eastern.
8AZ, Santiago, Cuba: 240m-1250kc. 20 watts. Alfredo Brooks.

8BY, Santiago, Cuba. 250m-1200kc. 100 watts. Alberto

Ravelo. 8FU, Santiago, Cuba. 225m-1333kc. 15 watts. Andres Vinent Vinent.

81R. Santiago, Cuba. 190m-1580kc. 20 watts. Ceferino Ramos.

81Q. Santiago, Cuba. 275m-1090kc. 20 watts. Jose Fernandez Heredia.

Mexico

2MK, Havana, Cuba. 360m-333kc. 100 watts. R. V. Waters, Col. Ravana, Cuba. 360m-1000kc. 100 watts. Columbus Cycle Radio Co. 2PK, Havana, Cuba. 195m-1538kc. 10 watts. George A. Lindeaux. 2RK, Havana, Cuba. 150m-967kc. 100 watts. Raoul Karman. Casa De La Porte. 2RM, Havana, Cuba. 210m-1430kc. 10 watts. Raoul Karman. Casa De La Porte. 2RM, Havana, Cuba. 210m-1430kc. 10 watts. Rogelio Morales. 2RY, Havana, Cuba. 180m-177kc. 10 watts. Homero Sanchez. 2TW, Havana, Cuba. 230m-1304kc. 20 watts. Roberto E. Ramirez. 2LY, Havana, Cuba. 225m-1,333kc. 5 watts. Roberto E. Ramirez. 2XX, Havana, Cuba. 225m-1,333kc. 5 watts. Antonio A. Glinard. 5AZ, Mantanzas, Cuba. 190m-1580kc. 10 watts. Leong Gonzalez Velez. 5EV, Colon, Cuba. 360m-333kc. 10 watts. Leong Gonzalez Velez. 6BY, Santa Clara, Cuba. 250m-1200kc. 10 watts. Eduardo Terry. 6GR, Santa Clara, Cuba. 250m-1200kc. 10 watts. Luis del Castillo. 6GT Santa Clara, Cuba. 250m-1200kc. 10 watts. Santiago Ventura. 9Pablo Ros. 6HS, Santa Clara, Cuba. 250m-1200kc. 10 watts. Santiago Ventura. 91Q, Santa Clara, Cuba. 250m-1200kc. 10 watts. Santiago Ventura. 91Q, Santa Clara, Cuba. 250m-1200kc. 10 watts. Santiago Ventura. 91Q, Santa Clara, Cuba. 250m-1200kc. 10 watts. Santiago Ventura. 91Q, Santa Clara, Cuba. 250m-1200kc. 10 watts. Cobelo Ramirez. 6HS, Santa Clara, Cuba. 250m-1200kc. 10 watts. Santiago Ventura. 91Q, Santa Clara, Cuba. 250m-1200kc. 10 watts. Santiago Ventura. 91Q, Santa Clara, Cuba. 250m-1200kc. 10 watts. Cobelo Ramirez. 6HS, Santa Clara, Cuba. 250m-1200kc. 10 watts. Santiago Ventura. 91Q, Santa Clara, Cuba. 250m-1200kc. 10 watts. Cobelo Ramirez. 6HS, Maria Clara, Cuba. 338m-890kc. 4,000 watts. Frank H. Jones, Slogan, "If You Hear the Koo of the Cuckoo You Are in Tume with Tuinucu." Dally sign Prices of the Santa Clara, Cuba. 250m-1200kc. 10 watts. Santiago Ventura. 91Q, Santa Clara, Cuba. 250m-1200kc. 10 watts. Cobelo Ramirez. 91Q, Santa Clara, Cuba. 250m-1200kc. 10 watts. Santiago Ventura. 91Q, Santa Clara, Cuba. 250m-1200kc. 10 watts. Santiago Ventura. 91Q, Santa Clara

#### Excerpts

#### from Telegrams:

"Tested your RFL-60 within two blocks of local 500-watt broadcasting station, using twenty-five foot wire on floor for aerial. We picked up stations all over the country and when local station came in tuned it out and picked up WSAI at 319 meters. The local station is 270 meters. This is the only set ever tested under these conditions that would tune this station out at any point on dials."—Decatur, Ill.

"We tested one of your new RFL-60 sets here in our building using an antenna about 75 feet long and directly under and parallel with our transmitting aerial. The exceptional selectivity of the Crosley receiver permitted us to tune out our station WTAX, just as easily as we would tune out a Chicago station."—Streator, Illinois.

"An RFL-60 tested in competition with other receivers of much higher price proved its unquestioned superiority. The new Crosley models offer the greatest values on the radio market." — Kansas City, Mo.

"The Model 4-29 is classed with the Trirdyn Model 5-38 bringing in Pacific points with ample volume, using a Musicone. RFL-60 and 75 are very selective. Have separated distant stations on less than one degree on the dial. Have logged Mexico City and Pacific Coast Stations with plenty of volume."—Miami, Fla.

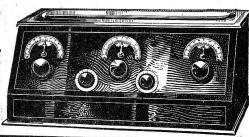
"The RFL sets outstripped much higher priced outfits. These sets bring in Canadian, Cuban and Mexican stations as easily as those on nearby states."—Glasgow, Ky.

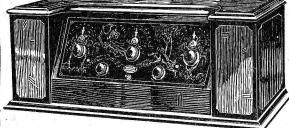
What's the idea of keeping a fellow up all night foolin' around with that darned little

I've been in the radio game for seven years and was beginning to believe that there wasn't a set in the world that would keep me up late but when that little 4-29 started to pull in Houston, Texas and with such extreme volume I sat up and took notice.

I got California station with unbelievable volume last night. KFI came in so loud that it could be heard over a block on a Musicone speaker. I've gotten over one hundred and twenty-five stations in only three nights. — Spring Valley, Ill.

The Crosley 5-tube—5-38
All the volume, selectivity and purity of tone available in the best 5-tube set—plus \$38





The Crosley 5-tube—RFL-75 Simplicity and speed in tuning, fidelity of tone and decorative beauty, enhanced by the art panel ... 975



The Crosley 4-tube—4-29 in which the Crescendon is equal to one or more additional tubes of tuned radio frequency amplification . \$29

Prices slightly higher west of the Rockies

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Real performance! Amazing sensitivity and selectivity! Marvelous tonal qualities—inspiring volume. And surpassing beauty!

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