The operators, station directors, and assembled guests became so confused by signals and static they were unable to tell whether they heard an outgoing or an incoming program. FVERY PROG IN RADIO DEBUT WEEK IS TO BE ALL OFF. Wol. XIV By Radio Digest Publishing Co. SATURDAY, A LECTURES ON EVOLUTION Automobile City DETROIT.—The inaugural program from WJR, the new 5,000-watt broadcast-ling station of the Jewett Radio and Phonograph company, located at Pontiac Will be worthly of the united studies here, will be worthly of the united studies here, will be worthly of the state of the summer season important ones of the summer season in the Book-Cadillac hotel. A varied entertainment of character and appeal will be provided. One of the features to be presented to the Radio audience will be the Defroit Symphon orchestra, generally conceded as one of the finest symphonies in the country.

CHASE THEMSELVES AROUND THE WORLD

INNEAPOLIS.—Last Thursday night WAMD attempted to get a long distance record by tuning in themselves. They hoped to hear their own program as it returned from around a world tour, having passed over Asia and Europe and satled across two oceans and several lakes. The operators, station directors, and assembled guests became so confused by signals and static they were unable to tell whether they heard an outgoing or an incoming program.

WJR, NEW DETROIT PLANT, OPENS SOON

STATION OF JEWETT RADIO HAS 5,000-WATT RATING

Transmitter Is Located in Pontiac, Michigan; Studios Are in Automobile City

ASKS LEGAL ACTION TO SILENCE STATION

NEW YORKER HOLDS WNYC POLITICAL MOUTHPIECE

Mayor Uses Municipal Station to Broadcast Propaganda at City's Expense

City's Expense

By Jack Forrest

NEW YORK.—Action has been started by the Citizens' union of this city to close the municipal broadcasting station, WNYC, on the grounds that it is being used by Mayor Hylan for disseminating political propaganda.

Application for the closing order was made by Leonard M. Wallstein, counsel for the Citizens' union, based on affidavits of Henry Fletcher, viee-chairman of the organization. The court's order requires the mayor and Commissioner Mills, the joint defendants, to show cause why an injunction should not be issued against the further operation of the station.

Three grounds, justifying a court order for closing the station were cited by Mr. Wallstein.

"That the city is without legal authority to spend money for the purchase, construction or operation of a broadcasting station.

"That the law makes no provision for the broadcasting of propaganda on behalf of the defendants or any other persons.

"The such acts constitute a waste of city funds and other property of the city

or the derendants of any other persons.

"The such acts constitute a waste of city funds and other property of the city of New York and cause an irreparable injury to the city."

When the station was opened a little more than a year ago at an estimated cost to the taxpayers of \$50,000, the then commissioner of plants and structures, Grover Whalen, speaking for the mayor, issued a statement in which he said:

(Continued on page 2)



HARVARD MAN TO BROADCAST **BASIC THEORY**

Man Comes From Ape

Professor Holds Man Can Believe Darwin and Still Be a Christian

Christian

BOSTON.—Dr. E. A. Hooton, professor of anthropology at Harvard university, will endeavor to explain the theory of evolution to Radio listeners in an hour's lecture which will be broadcast from Westinghouse Station WBZ Friday evening, August 7.

Dr. Hooton will go on the air at 9 o'clock, Eastern time, and although it will be impossible to cover at length this vitally interesting and absorbing subject in such a short time, he will explain to his vast audience the basic facts of the evolution theory.

"One of the greatest events in the history of the world took place when the ancestors of man descended from the trees and started to walk on their hind legs," declares this noted scientist who demonstrates how changing methods of moving about, of fighting and of living (Continued on page 2)

(Continued on page 2)



10.	N. Dean Cole, WHO	5.578	
11.	Lambdin Kay, WSB	5.136	
12.	Robert Emery, WEEL	4.894	
13.	Charles Erbstein, WTAS	4.841	
14.	Jerry Sullivan, WQJ	4,760	
15.	O. E. Beceker, WGR	4.027	
16.	Stanley Barnett, WOC	4,016	

will be allowed.

Send nominations or ballots to the GOLD CUP AWARD EDITOR, Radio Digest, 510 N. Dearborn St., Chicago.

McNAMEE REMAINS LEADER IN CONTEST

EASTERNER TOPS G. D. HAY BY NEARLY 18,000. VOTES

Fourth and Fifth Place Holders Have Changed; Barnett Seems to Help Leader

Help Leader

Only three more ballots counting the one published above to be marked for the best announcer and the 1925 Gold Cup contest will be decided! As before, Graham McNamee, WEAF, is still leading the field and seems to be gaining, more strength with each trip of the mailman to the Digest offices.

George Hay, WLS, is now over 17,000 votes behind the leader and unless there is a sudden cyclone of votes from the great open spaces when the contest draws to a close last year's cup winner's only chance to see the cup will be when it leaves Chicago on the Century on its way to Manhattan. However, it must be remembered that the 60 vote bonus that goes to every batch of 22 consecutively numbered ballots may have much to do with altering the final standing.

Barnett Seems to Help

with altering the final standing.

Barnett Seems to Help

That Stanley Barnett is making good his promise to keep from getting votes and throwing his support to McNamee is evidenced by his dropping to last place among the sixteen leaders and having added but two votes to his last week's total.

Gapa Person

Gene Rouse is still in the third position but his spurt of last week has not carried through into this week with as much strength as before. The Woodmen's announcer polled some four thousand votes last week but only managed to boost his total by 2,893 on the latest count.

sand votes has tweek out only managed to boost his total by 2,893 on the latest count.

Hired Hand Gaining

Down Texas way things are beginning to pick up and the Hired Hand of WBAP is gaining on Henry Field, KFNF, who holds the fourth position by barely over two hundred counters. The corn out in lowa is growing rapidly now and it may be that the farmers are too tired when evening comes to listen in on the Shenandoah station and hear Field. At the same time, though, it looks like the Fort Worth station will be off the air for a period while they are completing their new station. In this case, the Hired Hand will not be heard for several evenings and the lowa seed man may have an opportunity to strengthen his hold on fourth place. Many stations are boosting their own announcers in replies to fan letters and there is a possibility of swaying the fans toward a dark horse when the time comes to submit the bonus votes. In that case the headline on the story announcing the choice for the best announcers may contain a name never before mentioned there.

Lane Passes Arlin

There have been no new contestants to treak into the leaders' group but unless

Tane Passes Arlin
There have been no new contestants to break into the leaders' group but unless some of those down towards the bottom of this list do not watch out someone may come up from the unlisted host below in time to be counted in the final standing and thus receive the certificate of merit. These certificates will be awarded this year as last to the fifteen announcers immediately below the winner.

announcers infinitesiates, to-value winner.

Although "Bill" Hay, formerly of KFEX, has severed his connection with the announcing end of Radio and is no longer heard from the Nebraska station he still continues well up on the list. He was recently heard from WLS, where George Hay introduced him.

Frank Lane, KFRU, and H. W. Arlin, KDKA, are running neck and neck down

at six and seven. Lane passed Arlin in the balloting of the past week.

N. Dean Cole, WHO, took quite a jump and passed Lambdin Kay again. Cole is now tenth and Kay is eleventh. The only other change in standing occurred at the bottom of the list where O. E. Becker went over Barnett to fifteenth place.

The latest standings are:

The Sixteen Leaders	
Position Name and Station	Votes
1. Graham McNamee, WEAF	
2. George D. Hay, WLS	35,486
3. Gene Rouse, WOAW	.23,265
4. Henry Field, KFNF	15.781
5. Hired Hand, WBAP	15,543
6. Frank Lane, KFRU	12,487
7. H. W. Arlin, KDKA	12.384
8. Leo Fitzpatrick, WDAF	7.037
0 W C (Pill) How KEKY	5 679

Station Receives 55,000 Fan Messages Since April

NEW ORLEANS.—More than fifty-five thousand letters and telegrams have been received by the management of WSMB broadcasting station since its inaugural, April 21 of this year, the station statistician reports. Letters and telegrams have been received at the rate of 600 a day, and the summer season, which often thins out a station's mail, has had no effect on WSMB's volume of mail, except to increase it.

Official statistics show that the number of Radio users in Germany is increasing rapidly.

CONTENTS

Radio Digest, Illastrated, Volume XIV, Number 5, published Chicago, Illinois, August 8, 1925. Published weekly by Radio Digest Publisher, Company, 50 B. N. Desrborn Street, Chicago, Illinois, Subscription rates, yearly Five Dollars; Foreign Postage One Dollar additional; single cooles Ten Cents. Entered as second class matter at the post office at Chicago, Illinois, under the Act of March 3, 1879.

All the Live News of Radio	7
WEAF, the Chief of the Link Stations	- 5
Advance Programs for the Week	14
An Evening at Home with the Listener In, a chart in Eastern, Central and Pacific	10
time, showing when to listen for your favorite stations	15
Editorials; Indi-Gest and Condensed by Dielectric	16
A. B. C. Course in Radio Fundamentals, Chapter XX—Characteristics of Two and Three Electrode Tubes	17
Radio Inductive Interference and Its Cure, Part II—Means of Suppression, by Radio Branch Dept. of Marine and Fisheries, Canada	18
Interesting Work with Oscillating Crystals, by F. M. Delano	19
The Reader's View	
Pipe Fittings Make Antenna Masts; Other Kinks	
Questions and Answers	22
Directory of Radiophone Broadcasting Stations, Part III	23

Looking Ahead

A Bridge Circuit from Nicaragua will be presented in the next issue, together with detailed instructions for building a set incorporating it. While Mr. R. N. Skeeters, who sent in the data, had not read Milo Gurney's articles, his hook-up forms a bridge that permits of high amplification.

WHAS, "Down in Old Kaintuck," will be pictured and described in the next issue of Radio Digest. The Courier-Journal and Louisville Times station has made its city famous for something besides Derbies and Colonels. Pictures of the studio and members of the staff will be shown.

End Is Close in the Gold Cup Contest, and the next to the last ballot will appear next week. The contest closes August 22, and if you want to see your favorite at the top of the list do not fail to clip and send the next two ballots.

agle Circuit Set Owners Will Be Interested in the non-radiating stage of tuned R. F. that will be outlined next week by Mr. J. A. Thatcher of the Toronto Radio Research society, as it adds selectivity and range, yet climinates them as offenders in the matter of whistling interference.

practeristics of the Three Electrode Tube form the basis of Professor Moreton's next article of the A. B. C. Series. The beginner in Radio is often confused by such terms as Mutual Conductance, Amplification Constant and Plate Impedance. Here is a chance to have their significance cleared up.

Newsstands Don't Always Have One Left

WHEN YOU WANT

YOU WANT IT! BE SURE OF YOUR WEEKLY COPY BY SUBSCRIBING NOW

SEND IN THE BLANK TODAY

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(Six.	find end Foreign Digest,) for	One	M. O. Year's	for Sub	Five script	Dolla ion	to
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City .				State	,			

BROADCASTS APE TALK

(Continued from page 1) are believed to have altered prehistoric man's physical structure as apish ways were abandoned.

How Use of Hands Aided Man

were abandoned.

How Use of Hands Aided Man

The rising of man's ancestor to his feet aided in his progress in many ways, according to Dr. Hooton, and by a chain of circumstances it indirectly brought about a condition which allowed his brains to grow.

To begin with, his hands were freed from the business of locomotion. They were used for grasping food and subduing his enemies. The result was that his jaws were released from their arduous labor as weapons. They gradually diminished in size causing less pressure of muscle on the cranium as Dr. Hooton illustrates by comparison of the skulls and jaws of the other primates of today with those of man and which he will endeavor to explain to his wast unseen audience when he broadcasts from WBZ.

Many people feel that the evolutionary theory should not be taught—that it is a blow aimed at their religious faith. They regard scientists as demons in human form who would take from them the last vestige of the faith which comforts their souls and substitute a mechanical, materialistic code.

Religion Cannot Fight Anthropology Dr. Heeton cannot see the legic of their

Religion Cannot Fight Anthropology

terialistic code.

Beligion Cannot Fight Anthropology
Dr. Hooton cannot see the logic of their attitude. He holds that religion has no real quarrel with anthropology.

"I do not segard evolution as a religion that the seed of the

ACTS AGAINST STATION

(Continued from page 1)

(Continued from page 1)
"Editorial writers are now concerning
themselves with possible misuse of the
broadcasting station. Let me assure these
gentlemen no administration would be
foolhardy enough to invade the sacred
precincts of the homes of its people with
any political propaganda. The programs
broadcast from the municipal station
must first of all be of a very high-class
character; they must be free from polities; they must be educational and instructive."

1925 WNYC Budget \$44.088

1925 WNYC Budget \$44,088

intes: they must be educational and instructive."

1925 WNYC Budget \$44,088

Leo J. McDermott, an attorney associated with Mr. Wallstein, sets forth in an affadavit of many pages the history of WNYC. He shows that in addition to the original cost of the station, its maintenance and personal service payroll had grown until the 1925 budget called for \$44,088 yearly. Mr. McDermott, after charging that the station is used mainly for political propagands, says:

"As to the supposed use of this station for the purpose of the fire department, deponent cannot find that there is even a pretense that it has ever been used for such a purpose. An inspection of the many programs published for Station WNYC discloses nothing whatever relating to the fire department.

"As to the supposed police department's use of such broadcasting station, deponent has often listened to the broadcasting of said Station WNYC, and although he has heard the broadcasting of the so-called 'police alarms,' has never yet heard any broadcasting from said station which in his ophion was of any real value as a police department activity.' In explanation of this action, the Citizens' union made a public statement, in which it said:

"The maintenance of the broadcasting station at city expense for any purposes, in the view of the Citizens' union, is unauthorized by law. But if the city officials had used it properly, merely as an adjunct of the police department or even for the broadcasting of music and educational non-political talks, no objection would have been made."

Boost Greater Movies by Radio

Boost Greater Movies by Kadio
NEW YORK.—In connection with the
"Greater Movie Season" movement all
the orchestras and artists of Broadway's
picture palaces united in a grand Radio
pageant which was broadcast by New
York stations last week. In addition to
this associated talent, many notables of
national prominence appeared before the
microphone.

NEWS BRIEFS FROM THE BROADCASTERS

INVITE MONKEY TRIAL MEN TO SPEAK FROM SHOW

Joins Argentine to Entertain; Army Band Heard on Four Station Hook-up

Officials of the Radio World's Fair have invited Bryan and Darrow to use their special broadcasting hook-up to address 25,000,000 people on the evolution question during the show in New York.

Maria Montero, pre-eminent danseuse; Juan Pulido, Spanish recording baritone of the National theater, Havana, Cuba, and Carlos Cobian's Argentine orchestra combined to delight WOR afternoon lis-teners recently.

New York, Washington, Philadelphia and Providence heard the music of the United States army band on July 29, when it was breadcast from WEAF, WOO and WJAR from 7:30 to 9 p. m., Eastern daylight time. Capt. William J. Stannard conducted the concert, playing in the army barracks, Washington.

A series of golf talks from Station WSAI, of the United States Playing Card company, Cincinnati, are being given Wednesday evenings by George Bowden, professional at the Maketewah Country club, Cincinnati. Mr. Bowden is one of the leading professionals in the United States.

On August 9 Station 2LO, London, will transmit the first real broadcasting play ever produced in Britain. It is a mystery play in modern style by a new author, with the underlying motive of the Christ running through it.

A novel feature of the ten weeks series of band concerts given by the Goldman band on the campus of New York university will be the tournament for boys' bands to be broadcast through WEAF and others on Friday, August 14, beginning at 9 p. m.

During the absence of Mrs. Ellen Rose Dickey, home adviser of the Sears-Roebuck Agricultural foundation on her vacation, her work over WLS will be carried on by Mrs. J. C. Scully, of Brookings, S. D. Mrs. Scully, who is a graduate of the South Dakota Agricultural college, has been instructor in home economics for five years at the high school at Clark, S. D.

Hawaiian music seems especially popular in summer with the Radio audience, so Station KDKA gave another of its series by the KDKA Hawaiian players on August 7.

Open-air band concerts and special late dance programs during the next two months are the newest hot-weather fea-tures to be slated for long distance Ra-dio listeners by KOA, Rocky Mountain broadcasting station of the General Elec-tric company at Denver.

Of special interest in the Northwest was KFOA's recent program which had for its principal soloists the principals in this year's production of "The Wayfarer," being held at University of Washington stadium in Seattle.

Kiutus Tecumseh, an Indian tenor who has been a WLS staff artist, broadcast recently from KJR, Seattle. Simeon Oliver, an Eskimo planist from Unalaska and Tecumseh's partner, accompanied the

"Radio Breezes," by Kenneth C. Beaton, known to millions of newspaper readers as K C B, is now heard as a regular KGO Tuesday evening feature. K C B will speak at 8 o'clock.

Two new ideas are to be broadcast from KTCL, Seattle. One is a "friendly aid" service which is to be directed by George H. Crandell, a well-known lawyer. The service will offer friendly advice and counsel on legal troubles that everyone runs into. The other feature is known as the "Voice of Seattle" and will be broadcast from a downtown street intersection. Harold Gramm, program director of KTCL, will give a description of the streets of Seattle and several novelties are to be introduced.

Universal Company Takes

Oniversal Company 1 ares

Over WCAU, Philadelphia

PHILADELPHIA.—Station WCAU, located at the Hotel Pennsylvania, formerly operated by Durham and company, has been taken over by the Universal Broadcasting company, Stanley A. Broza, a member of the firm well known in broadcasting circles, has been appointed director of studio and programs, and has arranged some elaborate new features and surprises for the Radio audience for the coming season, coming season.

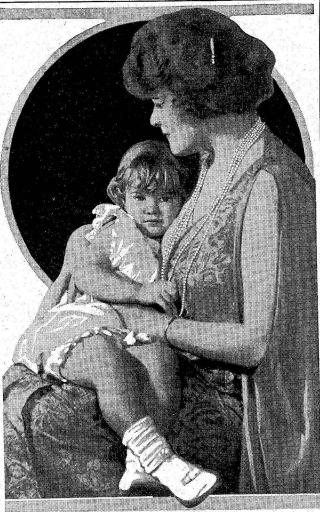
ABDEL KRIM WANTS RADIO-NO CAN DO!

Paris.—A neutral journalist who has recently returned from a visit to Ajdeer, the capital of the Riff, noticing that the Riffian method of communication between general head-quarters and local commands was the field telephone, asked him why he did not use Radio also. The Riff Sultan replied: "In the first place I have no apparatus. I dare say I could get that easily, enough, but I have no one at present who understands the working of Radio,"

CHASE THEMSELVES AROUND THE WORLD

M inneapolis.—Last Thursday night WAMD attempted to get a long distance record by tuning in themselves. They hoped to hear ing in themselves. They hoped to hear their own program as it returned from around a world tour, having passed over Asia and Europe and sailed across two oceans and several lakes. The operators, station directors, and assembled guests became so confused by signals and static they were unable to tell whether they heard an outgoing or an incoming program.

GRACE DRAYTON IN RADIO DEBUT



It is well and fitting that the first talk over the Radio to the kiddies given by Grace Drayton from WMCA should be entitled "Loving Children." She has won inter-national fame as an artist with her "Riddy" drawings, verse, and prose.

Why Worry About Time Used When We Work It Out For You Weekly?

DENVER, Colo.—Broadcasting expellate has been raised since the overwhelming tences at Denver further reveal that popularity of Radio as a summer distatic is not the only problem of Radio version.

riences at Denver further reveal that static is not the only problem of Radio as a summer distance.

To compute the correct time elsewhere and to know when and how to calculate differences between Eastern, Central, Mountain and Pacific coast time, to say nothing of daylight saving, when "DX ing," is a unique problem in itself.

The puzzle is made all the more complex by the growing number of broadcasters. Government records, it is said, now indicate in excess of 100 class B stations in this country alone.

"How many hours difference between here and Honolulu, Chicago and Dalas, Sitka, Alaska, and Richmond, Va?" are typical of the many questions raised by inquirers among KoA's audience.

Astronomers, science professors, rall-road officials and weather forecasters as well as broadcasting officials, declare an everlasting avalance of time-questions last page.—Editor's Note.)

WJR, NEW DETROIT PLANT. OPENS SOON

STATION OF IEWETT RADIO HAS 5,000-WATT RATING

Transmitter Is Located in Pontiac, Michigan; Studios Are in Automobile City

Automobile City

DETROIT. — The inaugural program from WJR, the new 5,000-watt broadcasting station of the Jewett Radio and Phonograph company, located at Pontiac with control studios here, will be worthy of the station's ideals; and the date—August 15—should be marked down on the listeners' calendar as one of the important ones of the summer season.

Beginning at 7 o'clock in the evening, the best talent available will pass before the microphone in the studio of the station at the Book-Cadillac hotel. A varied entertainment of character and appeal will be provided.

One of the features to be presented to the Radio audience will be the Detroit Symphony orchestra, generally conceded as one of the finest symphonies in the country.

Music from Belle Isle

Music from Belle Isle

At the time the orchestra is broadcast it will be playing in a new \$50,000 shell which was built this summer on the city's beautiful Belle Isle park, in the Detroit view. This program will be followed by a varied studio entertainment presenting vocal and instrumental groups assisted by vocal and instrumental soloists. During this studio program a number of famous men will be presented in short talks incidental to the inauguration of the station.

station.

Popular entertainment will have its place on the program, since it is the station's Intention to please every member of the Radio audience, and in following out this intention it is necessary to present all of the various entertainment suited to broadcasting.

WJR is the station; 7 p. m., Eastern time, is the hour; 517 meters is the wave length, and 5,000 watts the power; the date—August 15.

BIG BROTHER' ON VAUDEVILLE BILL

Bob Emery Shows Boston Keith's Audience How He Entertains Kiddies

tains Kiddies

BOSTON.—For the first time so far as is known, a Radio announcer has had a week's engagement at B. F. Keith's theater in Boston. On July 27, Bob Emery, Big Brother to 25,000 members of the Boston Edison Big Brother club foresook the microphone at WEEI's studio for one week to meet the children face to face on the stage and show his audience how he entertains the kiddies nightly at WEEI.

The routine of Big Brother's act consisted of a brief flash of motion pictures showing views of the recent Big Brother club outing, ukulele songs, pianologues, and a brief Radio sketch in which Bob Emery, was the principal.

The Radio sketch was entitled "The Program Director." It was in two parts and depicted the troubles of a program director in his office and then some of the trying situations in the studio before the microphone. This sketch was written by Charles Burton, superintendent of broadcasting at WEBI, showing the Radio andience exactly how broadcasting is done. The audience not only saw Emery in action on the stage, but heard from amplifying horns exactly how his voice comes to them over the air.

New Stations

WGBU is the new Florida station which when has been puzzling fans for the last few weeks. This new 500-watt Western Electric 1B station, operating on 384 meters, is located at Fulford By-the-Sea, nine miles north of WMBF, Miami Beach. The chief announcer is Robert H. Nolan.

WCAU, Philadelphia, formerly operated by Durham and company, is now owned and operated by the Universal Broadcast-

The following limited commercial class "A" stations were licensed this week: KQP. Hood River, Ore., 100 watts, 270 meters; KFCC, Helena, Mont., 10 watts, 248 meters; KFWO, Avalon, Calif., 250 watts, 211.1 meters.

San Francisco is to have its first super-station when KPO, Hale Brothers, goes on the air soon with its new 4,000-watt

'BWS' LEAVING WOC FOR EASTERN 'MIKE'

PALMER SCHOOL TO LOSE POPULAR ANNOUNCER

Stanley W. Barnett Goes to Baltimore Soon to Help Start High Power Plant

Power Plant

DAVENPORT, Iowa.—According to an announcement made public here by the Palmer School of Chiropractic, Stanley W. Barnett, studio director of Station WOC, and known to the Radio audience as "Announcer BWS," has resigned his position with the Chiropractic Fountain Head Radiophone station, the resignation to become effective some time in August According to his present plans, he will connect with a new high-power station which is under construction in Baltimore, Md, and which will go on the air about October 1. The Gas and Electric company of Baltimore will operate the new station. It will have a capacity of 5,000 watts.

Frederick R. Huber, manager of the station, in outlining the policy said:

"Everything that is of the best in Baltimore will be broadcast. Baltimore's will be broadcast. Ealtimore's best instrumental and vocal talent, her best attractions, her best artists. It may be that the Baltimore Symphony orchestra, the Park band and the Municipal band may give concerts. Or, some of our leading organists, or members of the Peabody conservatory faculty. New discoveries at the Johns Hopkins university can be given to the world through us. The possibilities of our new station are unlimited."

With WOC Over 3 Years

Mr. Barnett has been connected with

With WOC Over 3 Years

with woc over 3 Years

Mr. Barnett has been connected with Station WOC since its inception three and a half years ago, and has seen one of the best and most powerful stations grow up from a small, insignificant beginning; and in this development "BWS" has played a very prominent part. WOC, about eight months ago, installed the latest type 5,000-wat transmitter.

When interviewed at WOC recently concerning his change, Mr. Barnett stated that for some in part of the first state of the

much more than the listeners in will feel it," he concluded.

Sorry to Lose "BWS"

When Dr. B. J. Palmer, president of the Palmer School of Chiropractic, was interviewed concerning Mr. Barnett's resignation, he stated that while sorry to lose the services of "BWS" he was at the same time glad that Mr. Barnett was being called upon to help in building up a similar organization in another part of the country. In regard to the future personnel at WOC, Dr. Palmer stated that they were at present selecting from a number of applicants a. man who would satisfactorily fill the position of announcer and who, at the same time, would be as highly acceptable and pleasing to the Radio audience as was Mr. Barnett. "We also intend to put on several new features in our broadcasting program which we feel sure our Radio audience will find more than ever attractive, pleasing and profitable. It will be some days, however," concluded Dr. Palmer, "before we shall be in a position to make public our choice of a successor."

Before coming to the Palmer School of Chiropractic—from which, incidentally, he is a graduate, besides being their chief announcer at WOC, and one of the ploneer announcers in the country—Mr. Barnett was a first-class electrician (Radio) in the World war.

Landlord Cannot Refuse Radio

VIENNA.—The right of a tenant to set up a receiving outfit despite. the opposition of his landlord was the subject of a recent test action in the Austrian courts and resulted in the complete victory of the tenant.

BIDS WEST GOODBY; **GOES TO BALTIMORE**



Stanley W. Barnett, former "Announcer BWS" at WOO, Falmer School of Chiropractic at Davenport, Iowa, has resigned from his post there to take a position with the new 5,000-watt station of the Gas and Electric company at Baltimore
The new station will take the air Oc.
1, it is planned.

WIP to Have Home on \$18,000,000 Building

Gimbel Brothers Soon to Start New Store

PHILADELPHIA.—Gimbel Brothers of this city, operators and owners of Station WIP, are having plans prepared for the erection of a 5,000-watt station on the top floor of their new twelve-story department store building, construction of which starts soon. The building will cost \$18,000.000

\$18,000,000.
Richard Gimbel, a member of the firm, Richard Gimbel, a member of the firm, and who has taken an active interest in the operation of the station, has made a tour of all the principal stations of this country and abroad in an effort to learn just what will make WIP one of the most attractive, as well as most powerful, broadcasters in the United States. Edouard A. Davies, director of WIP, states that the new station will be put in operation as soon as the new building is completed.

JACK DEMPSEY HELPS **OPEN NEW WOK STUDIO**

Terrace Garden Is Site of New Hotel Plant

CHICAGO.—WOK, at Homewood, a suburb near here, opened its new Chicago studio in the Terrace Gardens, Morrison hotel, recently and celebrated its increase in power with a dinner-dance for friends and Radio artists.

One special feature was a talk by Jack Demnsey.

One special feature was a talk by Jack Dempsey.
The station is owned by the Neutro-wound Radio company and has 5,000-watt equipment. Only 1,000 watts will be used for the time being. Batteries supply the transmitting power.
George W. Allen, a new voice to Radio, is announcer and director. Harry Waters, formerly at WHT, is assistant director and announcer. Robert North, pianist, who has been heard from many stations, is also on the station staff.

Silver Cup Is Award for Most MacMillan Messages

NEW YORK.—A silver cup has been offered as a trophy to the amateur Radio operator who picks up the largest number of messages from the MacMillan expedition from now until September 15, by the Second Radio World's Fair, through U. J. Herrmann, managing director, in letters addressed to the National Geographic society and the Amateur Radio Relay league.



The state of the s

WEAF, "Chief of the Link Stations"



MATRIMONY NOTES SWAMP KOA PLANT

SPINSTERS-BACHELORS, ASK AIRLINE TO ALTAR

Station Refuses Cupid Role; Requests
Continue to Come from
Coast to Coast

DENVER, Col.—Radio may be faced with the wholesale responsibility of solving matrimonial problems for enterprising spinsters and bachelors of the country, if the spring rush on KOA here is any criterion.

the spring rues on KOA nere is only criterion.

Regardless of growing demands from correspondents in the unmarried class, officials of the Rocky Mountain broadcasting station, have adopted the strict matrimonial policy of "hands off," in declining the responsibility of inding mates. Likewise, they are holding out hopes that the situation will become less acute with the expiration of summer.

Ohio Teads All

Ohio ranks first in the number of correspondents appealing to the station for guidance in the matrimonial field, with Iowa taking second place and Washington third.

guiance in the matrimonial neid, with though third.

An Illinois girl gives her age as 18 and advises she could settle down with "any lice man, if such a creature exists." She adds further, "I never have been able to run across one yet." A Cincinnati maiden declares she is "yery good looking and quite popular among the younger set," and a high school girl in Iowa suggests, "I suppose I am counted as old-fashioned because my hair is not bobbed."

Women Scarce There

From an Oregon lumber camp a bachelor writes, "Women are very scarce here and I am looking for someone to write to. Please forward some names." An exsoldier asks KOA to supply him with names of pretty Denver girls, and a Colorado rancher wants to hear from a girl who cares about living in the country.

A Hartford, Conn., lady correspondent wrote a lengthy letter to the broadcasting station after finishing a book of romance which "has such a beautiful ending," and a Frankfort, Ky., correspondent advises that she is "just past 30; sews and loves music and good books."

Expects Half Billion to Be Spent on Radio

Radio Fair Head Bases Estimate on Government Reports

on Government Reports

NEW YORK.—Half a billion dollars is likely to be spent by the American public for Radio apparatus within the next year, in the opinion of U. J. Herrmann, managing director of the Second Radio World's Fair, who bases his conclusions on government reports and the estimates of leading manufacturers.

"One of the greatest gains in Radio sales this year will be among the farmers," Mr. Herrmann declares. "A considerable proportion of our agriculturists, for one reason or another, was slow in developing the Radio faver; but now Radio has become an indispensable factor of farm life, not only from the standpoint of entertainment and general education but in view of the invaluable information on market conditions and on agricultural improvements and advice.

"Everything points to a prosperous year for the farmers. Large sums will be expended in the chief agricultural states for Radio installations."

Mr. Herrmann states that representatives of several leading grange organizations would be in New York the week of September 14-19 to view the exhibits of new Radio products at the Second Radio World's Fair in the 258th Field Artillery Armory, the largest hall in the world.

"Lopez Speaking" Is Again Heard from Manhattan Isle

NEW YORK.—Vincent Lopez has returned to the good old U. S. A. and is back on the air again playing through WEAF every Tuesday, Thursday and Saturday from the roof of the Hotel Pennsylvania.

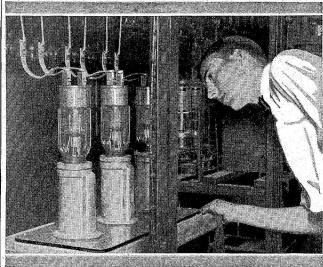
from the roof of the Hotel Pennsylvania. One of the pioneers of broadcasting, whose "Lopez speaking" Is famous throughout the country, he returned to New York on the S. Paris following an unusually successful engagement at the immense London "Hippodrome" and at the famous Kit Kat club.

Although the sole attraction in a theater ordinarily the home of spectacular operettas, the Lopez orchestra proved a sufficient drawing card to fill most of the 3,000 seats daily.

New Mike at KGB

TACOMA, Wash.—Local Station KGB, in having its station recently overhauled, has added the latest type of improved microphone with accompanying amplifiers, speaker) into the dictionary, thus sanc-the wave length remains 249.7 meters.

WPL USES WATER COOLED TUBES



Some of the giant water-cooled tubes in the transmitter of Station WPL, the broad-casting plant of the Paulist Pathers, New York city, soon to open as the first Radio church directly connected with the Roman Catholic church

WEAF, CHIEF OF LINK Pittsburghers Seek Time

WEAF, CHIEF OF LINK

(Continued from page 5)

Those who listened to WEAF's "home talent" program which was broadcast by WEAF and seven other stations are probably not aware that the entire presentation was conceived by James Haupt, one of WEAF's popular announcers and familiarly known to the entire staff as just plain "Jimmie." His forte is in his fundamental knowledge of music which bears outlet in the planning of such programs as the "Fireside Hour" and the "WEAF Light Opera Quartet."

Upon entering the reception room at WEAF, a visitor is greefed at the door by Miss Betty Lutz. She is the day hostess, and is noted for her charming manner and big smile that is given to everyone. During the evening, Kathleen Stewart and Winfred T. Barr act as hostess-accompanists. Their names are perhaps mentioned more than the call letters of the popular New York station itself.

letters of the popular New York station itself.

A large and comfortable reception room with doors leading directly into each studio provide a waiting room for a large number of artists. A special loud speakering equipment furnishes them with entertainment while they are waiting for their turn to perform.

The plant department, or transmitting room is adjacent to the studio. Here all studio and remote control circuits treminate in a power input panel and are connected with the special line to the transmitter located at twest street. A system of adjustable distortion net works is located in the plant department so that the attenuation of lines controlling broadcasting from remote control points can be suitably equalized for Radio broadcasting purposes. All remote control vinit thus be handled at one point by a specially trained crew.

A special ventilation system has been installed in both studios, which changes

cially trained crew.

A special ventilation system has been installed in both studios, which changes the air within them every seven minutes. This assures cool, clean air even in midsummer. In order to eliminate street noises during broadcasting the windows to the street may be kept closed without interfering with the comfort of the artists.

interiering with the comfort of the artists.

All of these facilities result in a marked improvement in the conduct of the programs and practically eliminate long waits between numbers in the program, and those waits occasioned by switching from one studio to another or to remote control points, when broadcasting is done from the outside.

WEAF has broadcast some of the largest and most notable events in the history of the country. The Democratic convention and the inaugural address of President Coolidge being two of the most important.

During the broadcasting of the Defens During the broadcasting of the Defense Day test, broadcasting was accomplished over the largest link of stations that ever was attempted. The success of this test showed the remarkable possibilities of broadcasting when the nation is in the throes of a catastrophe. "The Daddy of 'em all—WEAF—."

ERECT NEW STATION AS A 'TRAFFIC COP'

WILL OBSERVE 'JAMMING' OF EUROPEAN STATIONS

Believe New Detector Plant Will Aid in Clearing up Difficulties of Broadcasters

LONDON.—An interception station—a sort of central listening post—is the latest development of the British Broadcasting company for improving and developing the broadcast services both of Great Britain and the continent.

It is being constructed near Bromley, Kent, and will be working in six weeks. It is the first station of its kind to be erected.

It is the list station to the control of the list of a supersensitive and powerful receiver working on four high frequency, one detector and two low frequency tubes, the station will be able to pick up signals from all continental and many American transmitting stations. It will be able to tell if one station is jamming the transmissions from another. By the use of a direction-finding apparatus the operator will be able to tell in a few minutes what stations are at fault.

"Charleston" Taught by Radio in Chicago

Dancing Master Instructs Fans in Fundamentals

CHICAGO.—"The Charleston" is all the go this month! Not the sleepy old town "down Carolina way," but the dance that is said to have originated on the banks of the Ashley and Cooper rivers that flow past that quaint Palmetto city. In order that Radio listeners might be up to date on this latest dance craze, WMBB, in cooperation with a local morning newspaper, will broadcast lessons telling how the fundamental steps might be mastered. The lessons will be given by the dancing master of the ballroom where the station is located.

Diagrams published in the paper each morning are explained via Radio at 8:30, Central Standard time. By studying the cuts and then tuning in on the Radio, all who really care to may learn the dance.

to Search Ether for DX

PITTSBURGH.—This city will have a
Radio silent night if the plans of the
local Retail Credit Men's association
are carried through to a successful conclusion. This organization has recently
formed a committee with a view to bringing about a silent night at least once or
twice a month here. It has arranged conferences with other trade bodies and with
local broadcasters in order that they can
find periods when they may tune their
sets for out of town stations and thus
check up on the capabilities of these instruments. Make Sure of Receiving Your Copy Each Week

> and receive the best service from Radio Digest. Requests for missing copies are numerous. You cannot afford to miss a single issue. Your best protection is a mail subscription. Now is the time to get on the weekly mailing list.

One of the popular Radio Broadcasting Stations writes:—* * * "We find the trouble in this locality is the fact that our listeners are having difficulty in securing copies of Radio Digest." * * *

> Many readers miss some of the issues of Radio Digest. It is a disappointment to reach a newsstand sold out. Readers become dissatisfied and Radio Digest loses a reader. Our best efforts are being put forth to have copies always on newsstands. Frankly, we admit that the job is very strenuous.

YOU CAN HELP

Advise us promptly of any difficulty you have in getting your copy. Give us the name and address of the dealer who is sold out.

Your mail subscription will solve your problem. You will find a coupon in each issue.

Today fill out the coupon and mail at once. This insures your copy each week, delivered on time.

> Radio Digest Publishing Co. 510 N. Dearborn Street Chicago, Ill.

RADIO MAY HELP IN

NEW YORK GOVERNOR USES WGY FOR REFERENDUM

Broadcasting Discussions On Important Legislation Will Obtain Views of Voters for Representatives

Voters for Representatives

SCHENECTADY, N. Y.—The Radio referendum may, in a few years, be proyided for by legislative enactment. Until the result of such a referendum becomes binding on elected representatives, the Radio appeal for the sentiment of the voters may be ex, ected to have an important part in interpreting the wishes of the electorate and in influencing the action of the law maker.

Governor Alfred E. Smith of New York has several times appealed to the voters on matters of importance to them and he is convinced that Radio broadcasting has entered on a new and almost limitless field of public service.

Governor Smith says: "The American democracy covers so wast a territory that we must heartily welcome an art that brings its executives and legislators into the most immediate contact with the public they have been elected to serve. The advantage is double. It expedites the sending of an intimate message to the whole body of citizens and it secures to the speaker a more prompt and frank expression of personal opinion than he could obtain in any other way. Thus there is preserved a mutual relationship that is of especially high value as new problems arise which can best be solved by a renewed meeting of minds.

Officials Close to Feople "Recent experiences in broadcasting in the production of the superior of the

that is of especially high value as new jroblems arise which can best be solved by a renewed meeting of minds.

Officials Close to People

"Recent experiences in broadcasting matters of public moment through the medium of WGY have given me a new sense of close fellowship with my fellow citizens; their many replies have been a help and an inspiration in seeking a solution to the questions which an executive can conscientiously answer only in the full light of the common thought."

WGY, one of three powerful stations of the General Electric company is located at Schenectady, within sixteen miles of the capitol at Albany, which is connected to the Radio equipment by wire lines. From time to time the governor, legislators and department heads have called on WGY for the privilege of using its facilities to reach the citizenry. Whenever this could be done consistently and with fairness to those already scheduled on the program, the Schenectady station has given of its time. The health department offers weekly talks; the highway department, during the summer months, furnishes the automobile owner with a report on road conditions; the agricultural department, as well as the department of farns and markets, issues frequent bulletins of interest to the farmer, including in this bulletin service special harvest weather reports. Last fall when fires, in the Adirondack mountains forced a suspension of hunting, WGY was used by the governor and by the conservation commission in warning those already in the woods that an emergency existed and that hunting was banned. One of the first and most interesting of Albany programs was the broadcasting of the inauguration address of Gov. Nathan L. Miller.

Referendum Already Taken

Governor Smith, as well as the Republican leaders whom he has opposed.

oroacasting of the inauguration address of Gov. Nathan L. Miller.

Referendum Already Taken
Governor Smith, as well as the Republican leaders whom he has opposed, have recognized the growing importance of Radio in legislative matters and have used the facilities of WGY to take a Radio referendum on pending legislation. In March of this year when Governor Smith found his plans on a financial program opposed he appealed to the people by Radio discussing the subject, "Spending the People's Money." The response from the audience, conveyed directly to the cleeted representatives, resulted in harmonizing the views of the governor and the legislature.

A second Radio referendum on matters legislative was taken in June after Governor Smith had called a special session of the legislature to reconsider the park program.

Before the legislature convened in sne-

of the legislature to reconsider the park program.

Before the legislature convened in special session Governor Smith broadcast his views from WGY. His voice, amplified by the Radio power station, was carried to every part of the state. Wire lines also carried it to WJZ, in New York, and this station broadcast the speech. Two nights later Senator John Knight, leader of the majority, replied to the governor and presented his side of the controversy. Still later Judge Alphonse T. Clearwater, a member of the Niagara State Reservation commission, gave a Radio discussion on the issue.

The voters were thus able to hear both sides of the question and many of them wrote to their representatives in Albany requesting action on one side or the other.

Much of the distortion, howls and squeals in multi-tube sets can be eliminated by the use of matched tubes.

BEAUTIFUL STUDIO IS INSPIRATION



"BETTER broadcasting begins with better studios, and that means environment and atmosphere," said Lieut. Comdr. E. F. McDonald, Jr., president of the National Association of Broadcasters and the Zenith Radio corporation, "and we propose to prove the point." The new superpower, station, W.I.A.Z., of the Zenith company, now being built, will have probably the most beautiful studios in the world. The decorator's painting of the studios, with an insert photograph of Mr. McDonald, are shown above.

photograph of Mr. McDonald, are shown above.

After being elevated briskly to the twenty-third story of the new Straus building, Chicago, where the Zenith studios are located, one first comes into a reception room of unusually large dimensions, set with costly tapestries and carpeting and furnished in period furniture. To the right is an artistic archway within which a massive art metal gate fills in the enclosure. Flanked on either side by smaller archways are wrought fron gratings beneath which artistically built in benches are positioned. This room being given over exclusively as a lounge for visitors and artists.

Passing through a great archway and into the studio proper one first comes upon a great wide veranda—giving the impression of having left the drawing room of a chateau and out into the garden.

In the center stands a massive art.

graden.

In the center stands a massive art fountain of stone which adds a touch of realism with its tiny spray of water noiselessly sparkling and enlivening the Japanese goldish within its spacious reservoir. The ancient tiled flooring are here and there offset by an occasional stone seat or other appropriate settings all of which lends a touch of ancient days and a silent effect that plays upon the emotions.

The Zenith Station, WJAZ, however, has not left any details to the artists'

FORD AND GLENN BEGIN TRIP HOME

Lullaby Boys Drive Eastward to WLS and Leave Jazz Behind

Behind

CHICAGO.—Ford Rush and Glenn Rowell, the Lullaby Boys of WLS, Sears-Roebuck station here, who left in June for the Pacific coast on a tour of the stations, are on their way home to Chicago, where they expect to arrive August 15 and resume their popular programs, it has been announced today by Edgar L. Bill, director of the station. Ford and Glenn, with their families, started June 2 in two automobiles on their transcontinental trip. On their way to the coast they broadcast many of their WLS features. From Seattle, where they broadcast over KJR, they have just sent word that the WLS listeners may expect to hear their voices nightly again in Chicago about the middle of August. Little Glenn writes that he is tired listening to jazz programs in the West. "It's jazz everywhere," says Glenn, "and we found little of the human interest features we try to give over WLS."

Artificial Larynx in London

Artificial Larynx in London
LONDON,—The most novel mechanical
noise yet broadcast from a British station was the sound generated on an artificial larynx recently invented by Sir
Richard Paget, the famous throat surgeon,
Sir Richard declares the use of this device will enable dumb people to talk.
(Sergibs P. Grace, an American, recently demonstrated a very similar invention of his from WCX,
Detroit—Boltor; Note).

imagination. Elaborate lighting paratus is positioned scientifically to duce certain effects—the operator follows the theme of the selection being broadcast, and with flood lights, fadeins and fadeouts, he produces the effect of surrise, sunset, monlight—and likewise calms and storms—all with such faithful effect and reality as start the emotions and inspires the artist's greatest effort.

'Oklahoma Pepper Bird' Guest at KTHS, Hot Springs

Guest at KTHS, Hot Springs

HOT SPRINGS NATIONAL PARK,
Ark.—Roy C. Griffin, known to Radioland
as the "Oklahoma Pepper Bird" and originator of the famous "Brown Derby" club
of Station KFRU, Eristow, Oklahoma,
was a visitor at Station KTHS, the New
Arlington Hotel, Bot Springs, Ark, for
several days recently. Mr. Griffin broadcast "The Voice of Oklahoma" through
the KTHS "mike" and was shown the
wonders of the National Park and its
million dollar bath house row by Director
G. C. Arnoux and Chief Technician E. L.
Olds.

BRITISH ANNOUNCER MUST BE VERSATILE

ENGLISH COMPANY WANTS WELL QUALIFIED MEN

After Landing Position It Is Weeks Before New Announcers Speak Over Microphone

Over Microphone

LONDON, Eng.—The British Broadcasting company, which requires several
additional announcers, points out that applicants for the posts must have very exceptional qualifications. The following are
the qualifications the B. B. C. lays down
for the ideal announcer:
"He must have a pleasant, refined voice.
"He must possess a general knowledge
of so many subjects as almost to make
him a walking encyclopaedia. Consequently, university men are most suitable
for the work.

"He must have personality so that
2,000,000 listeners receive the impression
of having a friendly chat with him.
"He must be able to deal adequately
and sympathetically with every subject
broadcast.

and sympathetically with every subject broadcast.

"He must be musical and know how to be interesting on such a subject as chamber music, and be able to discuss plays and the hundred and one things that concern the microphone's evening.

"He must keep listeners happy through the whole program.

"He must be witty without being funny, and smart without being sarcastic."

With only twenty-one stations to supply, the B. B. C. does not deem advisable to follow America's lead and inaugurate a proper announcer's course. When a suitable man is found he first spends his time listening to others and watching how they work. It is weeks before he is entrusted with reading a few items of "local news" into the mike.

Just to make his job a little more difficult, the B. B. C. expects its announcers also to be showmen. They must describe the items so that fans want to hear them.

KFVL Demolished by Fire

SEATTLE.—The telephone and Radio schools and Station KFVL, Vancouver, Wash, were destroyed when the building which they occupied was burned down by a fire of undetermined origin. The building was at Vancouver Barracks.



Here is a "loud speaker" that brings the artists into your very room, so realistic is its reproduction.

Piano music, the most difficult to reproduce, sounds so natural that you are carried away by its beauty.

Vocal selections retain all of the colorings of the artist. Orchestra music is a treat, every instrument can be heard, clear and full.

Magnetic diaphragm control—used exclusively in the Kellogg Unit-is the new principle that performs these wonders in radio reception.

No excess vibration, no chattering, every tone true.

The Kellogg Unit is available for use with a phonograph, and will reproduce voice or music with a full, sweet, clear tone.

A popular instrument. The Kellogg Symphony Reproducer is a revelation in Tone-Volume-Clarity.

At all good dealers

At your dealers for \$20 - Hear one today

KELLOGG SWITCHBOARD & SUPPLY COMPANY, Chicago, Illinois

Kellogg Symphony Reproducer

With every Kellogg Radio part, Use-Is The Test

YE OLDE TYME QUARTET SINGS AT CNRT

Saturday, August 8

Saturday, silent night for CNRT, KFAE, KFDM, KFMQ, KFUD, KFWA, KUS, KKX, KOA, WBAF, WEBJ, WELE, WFL, WHA, WHAD, WHAZ, WHA, WHO, WJY, WKAQ, WLIT, WMAK, WOAN, WOO, WSUI, WTIC, WWI.

Atlantic or Eastern Daylight Saving
Time Stations
CNRO, Ottawa, Gan. (435), 7:39 p. m., Chateau Laurier
concert orehestra; 9, Emergy Lafteur, tener; Mrs. Evolyn
Way, bandon Cornelle Phillips, contrailey, V. StoveLaurier danties orchestra.
Hallin, volunistis; Chateau
WBBR, New York, N. Y. (272.0), S. p. m., George
Twarsesht, violinist; St. 101. L. Marion Brown, soprano;
S. 230, Biblic questions and answers, Judge Rutherford;
S. Twarsesht, violinist, St. 250. George
Twarsesht, violinist,
WGAE, Pittsburgh, Pa. (461.3), S:30 p. m., studio concert.

Dannen Bunyen: 8:23-10:30, stafitum cencert; Hudelpit Ganz, conductor; 19:30-11:30, Joseph Kneeht's Walderforf-Astorda orchicetta-1:30, Joseph Kneeht's Walderforf-Astorda orchicetta-1:30, Joseph Kneeht's Walderforf-Astorda Orchicetta-1:30, John Fretall, Robert S. Chree, hartfore; David Stokes, tenor; 8:30-8:45, Bohert S. Chree and David Stokes, tenor; 8:30-8:45, Bohert S. Chree, bartfore; David Stokes, tenor; 8:30-8:45, Bohert S. Chree, bartfore; David Stokes, tenor; 8:30-8:45, Bohert S. Chree, bartfore; David Stokes, Tank Stokes, T

Eastern Standard or Central Daylight

Saving Time Stations KDKA, Pittsburgh, Pa. (309.1), 8:45 p. m., Westing-

Saving Time Stations
(KDKA, Pittsburgh, Pa. (389.1), 8:45 p. m., Westinghand, KDKA, College, M. (1991), 8:45 p. m., Westinghand, M. (383.4), 7-7:30 p. m., Concress hotel;
8-9, Isobett Hene, baritone: Sallie Menkes, planis;
WBBM, Ghicago, III. (226), 8-2 a. m., Samorar creheslazamania artist. Harry Semit. Sandy Mediconactic
hazamania artist. Harry Semit. Sandy Sopelal: General Mediconactic
hazamania artist. Harry Semit. Sandy Sopelal: General
Heno: Maire Wright, Separan Johney Sopelal: General
Heno: Maire Wright, Separan Johney Sopelal: General
Heno: Maire Wright, Separan Johney Sopelal: General
Hillory, Jadder Statics, Short Circuit, count of concert.
Hillory, Jadder Statics, Short Circuit, count of concert.
Beile Jsic; 415c, concert; 6. dinner concert, Book-Cadillace Holel Concert.
WEAR, Clericand, Ohie (389.4), 7-8 p. m., norelty
WEAR, Clericand, Ohie (389.4), 7-8 p. m., norelty
WEAR, Clericand, Ohie (389.4), 7-8 p. m., norelty
WEAR, Clericand, Ohie (389.4), 7-8 p. m., orelty
WEAR, Clericand, Ohie (389.4), 7-8 p. m., orelty
Tamara's Seuth American Troubadours; 11:30-1, crechestra; Gelse Brothers; Wayne Myers,
Wenter, From French, French French, Prince French, Prince General, Discourt, John W. Harriane, bass;
Elsie Barge, pianis; Christina Nisted, violinis; Annis
Leuds, roader 19:30-1, Ph. Wilcox, Gall, Bandol,
WGN, Chicang, III. (379.2), 6:39-6:39 p. m., Drake
concert, encember, Backstone string quintel; 8:30uter Garden program,
UGY, Schoenechted, N. W. (379.5), 7:29 p. m., Mey
UGY, Schoenechted, N. W. (379.5), 7:29 p. m., Mey concert, ensemble, Blackstone string duintet; 8:30-9:30, studio program; 10:30-11:30, Drake Hotel Ter-ucc Garden program. WGY, Schonectady, N. Y. (379.5), 7:25 p. m., New York Philharmonic orchestra; 9:30, Hotel Ten Eyck

wGY, Schenectady, N. Y. (379.5), 7.25 p. m., New York Phillamonic orchestra; 9:30, Hotel Ten Eyck ovobestra.

WHT, Deerfeld, III. (250), 7 p. m., classical program, Al Carney, organist; Garyling's estring rior; 7:30, Deen Man, Sophano, 2 dele Massical moments; 8:46, (238), Riverriew orchestra; 10:30, (399.8), Langdon Brothers; 1.30, Feb. Carney, Carney, 10:30, Hotel Sophano, 124:30, Al Carney, organist. Were and classical moments; 8:46, (238), Riverriew orchestra; 10:30, (399.8), Langdon Brothers; 1.30, Feb. Carney, organist. Wald, Massical Man, 124:30, Al Carney, organist. Were and classical moments; 10:30, Al Carney, organist. Man, 124:30, Al Carney, organist. WKRC, Ginesimati Dilio (422.3), 15 p. m., Marion song festures, Bert Lindsay, Kem Ayiward; 11, Marion Song festures, Bert Lindsay, Kem Ayiward; 11, Marion McKay's Bond Hill House orchestra; 11, Marion McKay's Bond Hill House orchestra; Man, national barn dimed, Walter Peterson, Chubby Parker; Funnie and Song, Marion Man, 124:30, Marion Man, 12

1507-S. PROCESSION INCLUDES. PROCESSING 10-12. enter-tainment.

WORD, Batavia, Ill. (275), 3 p. n., Webster hotel program; 10, Prackway botel roof garden orchestra.

Batania Gardons ordestra, Frederick Mueller, German tenor; Katherine Diepenbrock, jainati; Rueben Marcus, violinist; Clarence Kelly, flutist; 10-3, Ralib Williams and his Bainbo Skylarist; Jerry Stilliams Rober Sangher, Stephenbrock, January 10-10,

Headliners of the Week

Headliners

The CLEVER young "Theater Guild Junior Players," who nightly amuse sophisticated New Yorkers in the brilliant satirical "Garrick Gatties," will present Saturday for the audience of WEAF the high spots of their show. Sterling Holloway, Edith Meiser, June Cochrane and Louise Richardson will give the success numbers of the show. The Pittsburgh symphony orchestra, and municipal chorus are the big Saturday night features at KDKA.

The MacDowell Sisters, favorites sunday at WFAA, Dallas, This will be welcome news to their friends who have not heard them for some time. "Her Engagement Ring" is the interesting title of the play given by the Two-in-One players Monday at WGR, Buffallo. The four principals are George Moase, Claire Murphy, May Schroer and Gorden Lockwood. These players have had three successful appearances at WGR.

Music centuries old will be played at WLW Tuesday as well as modern.

This novel program beginning with music written during the fourteenth century and ending with modern American compositions will give the fan a condensed idea of the history and changing styles of this art.

Wednesday is the day for next to

Wednesday is the day for poets to tune in. KOA will give under the auspices of George J. Peavey an edu-cational survey of English and Amer-ican poets. Wheeler Wilson, Frank J. Kafka, Mrs. Irving Green and the KOA orchestra will interprete poems set to music. set to music. "Pop" cond

set to music.
"Pop" concerts are features of every orchestra. Thursday the first "Pop" concert will be broadcast by WFI, Philadelphia. If you would like to hear some special favorite write to this station.

to hear some special favorue with this station.
Ye Olde Tyme Village quartet, which has been singing quaint songs of the past at CNRT, Toronto, all year, will give another program Friday. Their ensemble work is unusually fine and the folk songs they sing, although hoary with age, are

Statler concert orchestra; 8-9, studio program; 8-12, 20 yours and the Coo Coo club; 12-3 a. m., nite caps. W. S. Eggin H. (502.6), 8-10-30 p. in., Pornie Print Wilcox.

Central Standard Time Stations

KFAB, Linceln, Nebr. (340.8), 6-7 p. m., dinner program.

RFAB, Lincoln, real, Armon, and the RFAB, Shenandosh, Ia. (266), 7:30 p. m., old time nusic, Henry Knight, Director.

KFNI, Bristow, Osla. (384.5), 7:30-8 p. m., Sunday KFNI, Bristow, Osla. (384.5), 7:30-8 p. m., Sornday KFNE, University City, Me. (240), 16 p. m., North Side Y. M. C. A. Banjo club; Leclah Grable, planist; consult and fagz.

school lesson; 9-12, music.

KPVE, University City, Mo. (240), 10 p. m., North
KPVE, University City, Mo. (240), 10 p. m., North
KPVE, University City, Mo. (270), 7:30-p. m., Paramount proteins and size.

KOIL, Council Buffs, towa (272), 7:30-p. m., Paramount proteins, American Legion; 1:1-12, Edity Tows.

Moll, Council Buffs, towa (278), 7:30-p. m., Paramount proteins, American Legion; 1:1-12, Edity Tows.

WCCO, Minneapolis-St. Paul, Minn. (416-4), 6:15 p.
m., George Cobbris Notolita holds certhestra: 8,
chiestra program; 19, Wallie Editekon's Chileton or

chiestra program; 19, Wallie Editekon's Chileton or

chiestra program; 19, Wallie Editekon's Chileton

WASA, Sury, Lady: Earl Colleman's condens.

WASA, Sury, Lady: Earl Colleman's condens.

Wallie Colleman's Condens

Mountain Standard Time Stations RR, Regina, Can. (356), 8 p. m., Mrs. R. Taylor CNRR, Regina, Can. (356), 8 p. m., Mrs. R. Taylor and concert party. KOA, Denver, Colo. (322.4), 8 p. m., Denver municipal band.

Not., peacer. Cool. (322-3); S. p. in., Denver municipal bend.

RFOA, Seattle, Wash, (454-3): 6-6-48 p. m., basishall.

RFOA, Seattle, Wash, Seattle, Seattle,

"The Old Home Poet"; John T. Brown, harmonica solicit; riolin duets, Dorothy Crowell, Bisle Madeer, Handley and Control of Control o

tertainers, Len Nash and na country Dog was chestra.

KPO. San Francisco, Calif. (428.3), 6:35 p. m., Waler-mat Lind and the States Restaurant orthestra; 8-12, control of the Control of

Sunday, August 9

Sunday, silent night for: CKAC, NRT, KFAB, KFAE, KFMQ, KFOA, KSD, KYW, PWX, WAHG, WBAV, WCAE, WCAU, WCEE, WCX, WOHF, WDWF, WEAO, WEBJ, WFI, WGBS, WGR, WHA, WHAD, WHAS, WHAZ, WH, WLIT, WMAK, WMAG, WMC, WOO, WOR, WHC, WREO, WSAI, WSMB, WTAM.

Atlantic or Eastern Daylight Saving

Atlantic or Eastern Daylight Saving
Time Stations

0 FGA, Terento, Can. (336), 11 a. m., Walmer, Read
Baptist church; 7 p. m. St. Paul's Anglican church;
WBBR, New Yerk, N. Y. (272.6), 10 a. m., Watchtower ornestris; 10:20, L. Marien Brown, Soprano;
10:30, Blobe lecture, Judge Rutherford; 11, L. Marien
Hobrail; 9:10, instrumental selections; 9:20, choral
singers; 9:30, Biblic lecture, Judge Rutherford; 10,
choral singers; 10:10, instrumental selections; 10:20,
choral singers

McBurds services; 6:30, dinner concert, William
Penn hotel; 7:20, Rosy and his Gang.



Wagnon secenders.

We Al, Officianati, Ohio (325), 7:45 p. m. children's with the prosents of the property of

WCTS. Werester. Mass. (268), 7:28-9:15 p. m. Roxs and his sang 9:15-16-15; Goldman band cancert. WDWF, Providence, R. I. (440.9), 10 a. m., chines, F. B. m. ventian screenders; pile orean resettain. While the second screen control of the second scr

and the Gang, Capitol theater; 9:15-16:15, Goldman band concert.

WEEL Beston, Mass. (475.6), 7:20 p. m., Roxy and his gang, 9:15, Goldman band concert.

WEEL Beston, Goldman band concert.

WEEL Beston, Goldman band concert.

Well Street Presbyterian clause, 1:30 p. m., services, Avenue Wells, New York, N. Y. (315.6), 3:20-4:30 p. m., Services, Wells, N. Y. (319, 10:20 a. m., Central Presbyterian clause, 1:30 p. program, Steel Pler, Wells, Wells, N. Y. (319, 10:20 a. m., Central Presbyterian clause, N. Y. (319, 10:20 a. m., Central Presbyterian clause, Savide hotel trio, 2:45, sermon, L. Der Thomas Cross, pesture, thesheat Supuls claured, 1:30 p. Thomas Cross, pesture, thesheat Supuls claured, 1:30 p. Thomas Cross, pesture, thesheat Supuls claured, 1:30 p. Thomas Cross, pesture, the sheat Supuls claured, 1:30 p. Thomas Cross, pesture, the sheat Supuls characteristics or chestral, 10:45-11:25, Janusen's Hofbrau orthodoxida.

Coc. String 170; 1-25, Stlimmle concert orientesta, which is proGen. String 170; 1-25, Stlimmle concert of the String Interfect of the String Interf

WKRD, Correspondents of the Carbon Control o

chestra, Florence, Tenney; Harold Stokes, accordionist; Chestra, Florence, Tenney; Harold Stokes, accordionist; WhBF, Minn Beeds, Fig. (384.4), 7 p. m., concert; 7:30. Plectwood hotel dance orchestra; 10-12, cuter-winner.

WhBF, Minn Beeds, Fig. (384.5), 10 a. m., browns and surred seones, 1. B. S. A. singers; 10-15, Biblic Secure, 10-15, F. Hollister; 11-165, I. B. S. A. singers; 8:45 p. m., exertification of the secure of the secu

Hamptons, male quartet: Elizabeth Hifehrock, so-perano; Claytan Wolfe, tener; 943, sermen, Rathu W. Köll., Council Bluffs, Iowa (278), 7:30-5 p. m., Tara-mount program, Monarchy; Jerry McMillen, director, KTHS, Het Springs Rational Park, Ark. (374.9), 11 a. 11 b. 11 a. 11 b. 11 a. 11 b. 11 a. 11 b. 12 a. 11 b. 12 a. 11 a

TWO-IN-ONE PLAYERS AT WGR MONDAY

Sunday, August 9

(Continued from page 8)

WDAF, Kansas City, Mo. (365.6), 4-5 p. m., Newman, Royal, Pantages theater; 5-5:30, Sunday school lesson, Dr. Walter L. Wilson, WFAA, Dallas, Tex. Wilson, M. Anderson; 8-9. City Tennils service; 9:30-11. Mac Dowell Sisters. WHAD: Milwaukee, Wis. (275), 3:15 p. m., Milwaukee Park Board band Wis. (275), 3:15 p. m., Milwaukee WHAS; Louisville, Ky. (399.8), 11 a. m., Christ Church exthedral.

WHAS, Louisville, Ky. (399.8), 11 a. m., Christ Church exthedral.
WHO, Des Meines, Iowa (526), 7:30-9 p. m., Bankers'
WHO, Des Meines, Iowa (526), 7:30-9 p. m., Bankers'
WHA, San Antonie, Tex. (394.5), 11 a. m., First
Preshytertan church; 8 p. m., Christian church; 9:3010:30, mustcal program, Penelope Borden.
WOAW, Omaha, Nebr. (526), 9 a. m., chapel service,
Ruy, R. R. Brown; 9 p. m., chapel service, Palmer
WOC, Davenport, 10wa (483.71)perman, Smar. 8-8:30,
Ilov. H. P. Ruseth, pack,
WOS, 1efferson City, Me. (440.9), 8 p. m., Union
church services. church services. WSUI, lowa City, Iewa (484), 9 p. m., famillar hymns

Mountain Standard Time Stations
KOA, Denver, Colo. (322.4), 10:30 a. m., Augustana
Lutheran church; 4 p. m., Sunday afternoon music,



Mrs. Claire Murphy, left, will play the leading role Monday in "Her Engagement Ring," given by the Two-in-One players at WGR. Marion Boogar, above, is one of the popular blues singers who appear regularly at KNX. Philip Ashcraft is the soloist for the Pirst Baptist church whose services are to be broadcast Sunday from KGO.

Augustana Lutheran church; 8, Augustana Lutheran

Beverly Hill Accrees, presenting the Canada Andrew KPO, San Francisco, Callif. (428.3), 6-630 p. m., Waldemar Lind and the States Restaurant orchestra; 6:35-7:30, Palace hotel concert orchestra; 8-635-7:40, Palace hotel concert orchestra; 8-635-7:50, Foreign and Francisco Canada Ca

Monday, August 10

Menday, silent night for; DIAC, CAPT, KFAE,
KFAM, KFAM, WBON, WLALDS, KYW, WK,
KFAM, WBON, WGS, WGS, WHAS,
WBBH, WBWFI, WGW, WGSS, WGS,
WHAS,
WHO, WOI, WQI, WG, WGS,

Atlantic or Eastern Daylight Saving

Time Stations
CHNC, Teronto, Can. (356.7), 8 p. m., CHNC or-

CHNC. Toronto, Can. (356.7), 8 p. m., CHNC or-chestra.
WAHG. Richmond Hill. N. V. (315.6), 7:367-745 p. m., WAHG. Richmond Hill. N. V. (315.6), 7:367-745 p. m., Sparts eds. Thornton Flasher; 8-315. Mine. Eugenic Baumann. soprano; 8:15-8:30, Raymond Maher, bart-tone; 8:30-8:45, recitations, Horace J. Taylor; 8:45-9-15, Synchrophase string trip; 9:35-9:30, Raymond Maher; 8:30-9/45, Von La Coi tric; 9:45-10, Mine. Eugenic Esquanari; 10-10:30, Symchophase string trip; 10:30-10:35, dance orchestrix; 11:36-11:30, dance orchestrix; 11:36-11:30, dance

10 33-10 35, dance orchestra; 11 105-11 30, dance orchestra.

WBBR, New Yerk, N. Y. (272.5), 8 p. m. Syrfan Ordental musclart; 8:15, 30 all News Disest; 8:25, 40 all News Disesting Disesting

De Benedetto, tenor; 10:30-11:30, Hotel Bossert Marrine Roof orchestra. WEEI, Boston, Mass. (475.6), 7:30 p. m., Althera tho: 8:30, Tower health talk; 9, Ed Andrews and his Nautical Garden orchestra; 10, talk, Therma Appliance

Nautical Garden orchestra; 10, talt, Thermo Appliance Company, Com

Markets. WHAR, Atlantic City, N. Y. (275), 7:30 p. m., lec-ture period; S. Seaside hotel trio. WHN, New York, N. Y. (681,2), 8-8:30 p. m., Rose-land dance crohestra; 9:25-9:39, songs and piano, Grossman and Osborne; 11-11:30, crear recital, Lex-ington theater; 12-12:30 a. m., Club Richman en-tertainers.

dimer conect. Book-Cadillac hotel; 8, Detroit Symphony orchestra.

WEAR, Civesland, Ohio (389.4), 7-8 p. m., Loew's Stats theater.

WEY, Schneistenson Lundle Braver; 6:35, Mrs. Charles Makanas, and Charles W. Clark, reader; Midred B. Hitten, planist; Clarence Grunewald, Hide Naditer, saxophonists. W. (379.5), 8:15 p. m., Mrs. Frank Schnmaker, planist; Jars. Howard Wentworth, soppano; 9:15, Carl B. Kiling, tenor; Russell B. Wild, planist; Jars. Howard Wentworth, soppano; 9:15, Carl B. Kiling, tenor; Russell B. Wild, planist.

Schumaker, plants; stripter of the plants; pla

Harlend Merrill; Gertrude Musford; Al Carney, orgrant Massheart, II. (202, 5), 6:45-71.5 p. m., dinner
concent; 7:15-8, Mooneheart Novelty orchestra; Belmont hotel froi; 10:30-1 a. m., Cherley Straight and
line orchestra; Albert F. Brown organist
and the orchestra; Albert F. Brown organist
Galdwell and Taylor, Ortifani Benzol Boyr; 9, program, Robert E. Bentley Fost, No. 50; 12, Marion
W. M. Clichard Only (22, 23, 7) p. m., dinner hour
convert, Hotel Gibson orchestra, Robert Visconit, director; 10, thirty minute program of dance music,
Buschle; The Pamous Lyric Male Quartet; instrumental
Mith.

WHN, New York, N. Y. (361-2)-38 S-339 J. and none land damage or chebrary. 1-11-139 or gram recital, letting the entering the control of the

Wamsley; Esther Wiedman, soprano; Marion Lee, reader; Mrs. Beaste Wiedman, Shaefer, planist. WCO, Minneaghis, St. Paul, Minn. (416-4), 645 p. m., WD, Arabara, Mrs. (416-4), 645 p. m., plano tuning in number; Cecile Burton, reader; Tell-Messicory, Lady; Plantation Diayers; S-9:30, around the town with WDAF. (475-9), 6:367-30 p. m., Artie Coult and Coulty Bullet. (476-4), 6:367-30 p. m., Artie Coulty Bullet. (476-4), 6:367-30 p. m., A

Gray. WHAD, Milwaukee, is. (275), 6-7 p. m., Arthur Richter, organist; 5-10, Marquette university studio

program.

WHO, Des Moines, Iowa (526), 7:30-9 p. m., program,
Dean Holmes Cowper, director; 11-12, Corn Sugar

WOAI, San Antonio, Tex. (394.5), 8:30 p. m., Menger hotel trio.
WOAW, Omaha, Nebr. (526), 6 p. m., Puells Griswold, organist; 6:30, McCrory's popular period; 6:45, RNJ Menger hotel than technics; 9. Skeen

tric; 10, orchestra.

Wio, Jefferson City, Mo. (440.9), 8 p. m., "For Farmer
Boys in Missouri," Guy E. James; Metropolitan Mu-Boys in Missouri," Guy E. James; Metropolitan Mu-sie Makev. WSMB, New Orleans, La. (319), 6:38-7:30 p. m., en-tertainment; 8:39-10:30, De Luxe program. WSUL, lowa City, Iowa (484), 8 p. m., musical pro-

Mountain Standard Time Stations
KOA, Denver, Cole. (322.4). 6:30 p. m., Herbert White
and hits Silver State orriestra: 8. KOA book chat;
music; "Our Vanishing Flowers," Colorado Mountain
club.

music; "Our Vanishing Flowers," Colorado Mountain club.

Pacific Standard Time Stations

KFOA, Seattle, Wash. (54.3), 6-6-9-8 p. m., concert crchestra; 6:35-8:15, Sherman, Clay and company study program; 269-10, Those s

tute: "From a Compose's Workshop," Arthur S. Garbett Arlon trio.

KGW, Portland, Orc. (491.5), 1-7 p. m., Claude Johnson and his Baken health corbettes, and the State of the Composition of the Compositio



Finateln, leader, 7-7-39, Mexican muric, El Eco de Mejicio, 7-398-8, program, Columbia Outititing company, 8-9, program, L. W. Stockwell company, 9-10, program, Listenwalter and Gough; 10-11, Goodrich Silvercontrallo, 11-12, Abe layman's Cocomit Grow dance orrchestra, from Ambassador hotel, 17-39, p. m., Rady KPO, Seaf Francisco, Calil. (42-23), rebectus; 8-10, program, American Legfon; 10-11, Waldemar Lind and the States Resistant or orbestra.

(KTGL, Seattle, Wash. (606.9), 9-10 p. m., National Machine Sales Gountages.

Tuesday, August 11

Tuesday silent night for: CNRT, KFAE, KFUO, KFWA, KOA, PWX, WAHG, WBAV, WBBR, WCBD, WEAO, WHA, WHAD, WHAZ, WKAO, WLIT, WMAK, WTAM.

Atlantic or Eastern Daylight Saving

Atlantic or Eastern Daylight Saving Time Stations
CNRA, Moneton, Can. (313, 9 p. m., Stellarton artists; Lou Fraser, plantist; quartet; Vena McConn. 1872, Cont. 1

(Continued on page 10)

MUSIC OF CENTURIES NOVELTY AT WLW

Tuesday, August 11

(Continued from page 9)

Providence, R. I. (440.9), 8:30 p. m., Ar words, Providence, R. I. (490.3), 5500 p. III., Arcadia Wordlestine Vork, N. V. (491.5) 4-5 p. III., 210.00 c. (491.5) 4-5 p. III., 210.00 c. (201.5) at 10.00 c. (201



Agnes M. Ol-son is the young food ex-pert who gives in teresting talks on cook-ing Tuesdays from WQJ. Chicago. Brides and grandmothers write in that they appreci-ate these lec-tures. If you ate these lec-tures. If you have any doubts or culinary ques-tions, Miss Ol-son will be glad to an-swer them.

GBS, New York, M. Y. (315.6), 3-5, talk on politics, Helen Beswell; "Better Homes and Gardens," Alice Clark Barnbill; "pinano lessons, Dr. Alfred G. Robyn; Leslie B. Moore, baritons; 6-5.30, Tule Geschier, Leslie B. Moore, baritons; 6-5.30, Tule Geschier, Leslie B. Moore, baritons; 6-5.30, Dr. Alfred Geschier, Leslie B. Moore, David Geschier, Leslie B. Moore, Baritons; 6-5.30, Dr. Alfred Geschier, 11.30-11.140, Interview with Lee Carlllo, Torchestra; 11.30-11.140, Interview with Lee Carlllo, Terres Royal Carlle, Terres Royal Car

MILE OF THE STREET, AND ASSESSED B. M. C. Conforts philliparmonic orchestra; 6.05, Benjamin Franklin concert orchestra; 7, Under Why's bedfunc stories; 3, Surf; 8.50, Vesulit's hand; 10.50, "Short's 8.50, Vesulit's hand; 10.50, "Short's weekly morie talk; 10.30, "Taymore hotel dines orchestra; Will California Klint Hawke dance ogchestra, which was the strength of the strength of

for.

Will, New York, N. Y. (485.3), 4:30-5:30, p. m., Bernhard Levitor's Hotel Commodore orchestra: 7-7:15, Prank Poles day talk; 7:15-5, Joseph Strissof, Hotel Vanderbilt orchestra: 8-5:10, Wall Street Journal review; 8:10-8:25, NUI Alt College; 8:25-120, Skillow concert; Pritz Reiner, conductor.

WILT, Philadelphia, Pa., (394.5), 4:30, p. m., "Magazine Corner," Mrs. B. F. Maschal; Marcella North, pinnist.

Minda. New York, N. Y. (340.7), 7.5 p. m., "Jacke Wilbur's Personalities"; 3:30-0. Columbia Amusement Park program; 10-11. (Informatic hour of music; 11. Wily N. Y. (320, 77-710 p. m., market high spots; 7:10-7:30, and anne music, the Canadians; 7:10-7:30, ann

Jean Wiener, organist; California Night Hawks.

Eastern Standard or Central Daylight
Saving Time Stations
KDKA, Pittsburgh, Pa. (309.1), 8:45 p. m., conject;
19:30 Grand finester concere p. m., Conjects,
19:30 Grand finester concere p. m., Conjects,
19:30 musical program; 7:20-7:45, American Farm
Bareau feetartion; 7:45-330, musical program; 9:40:10:30, evening at home program; 19:40:40, 19:

WBBM, Outcase, Conland, Thy Dave Nuselman, Con-hester, Charlie Conland, Thy Dave Nuselman, Con-hester, Charle Carlot, Harold Anderson, Roy Trausger, Harry Brailsford, WBON, Chicago, III. (285), 8-9 p. m. Tell Taylor, tenor; Midway orchestra; Ialk, Frank H. McDonald; 10-11. Bellatine Bleatre company sides, Montale 10-11. Bellatine Bleatre company sides, Montale Cameron and Fett.

Cameron and Pett.

WBZ, Springfield, Mass. (333.1), 8 p. m., Pauline
Hammond Clark's Junior Copies singers; 8, Robert
D. Fuller, elarinetist; Mande H. Littlefield, accomuanist; 8:15, Mrs. Boedeker Gottsche, sonrano; 5:30,
Edwin Bagley, saxophonist; Jack Winstow, plainst;
9, Springfield flute trie; 8:15, to be announced; 6,
WOX, Detroit, Blook-Goldillae hotel; 8, Detroit Symphony orchestra broadcast from Belle Isie; 10, The
Red Apole Line and Petter Springers and Peter Springers

diffiner concerns point-admits in both of the princip concerns the princ

concert ensemble, Blackstone string quintet; \$:30-9:39, studio program; 10:39-11:30, Drake Hotel Terrace Garden program.

concert ensemble, Blackstone string quintet; 8:39-9:30, studio program; 19:30-11:30, Draize Hotel Terrace Garden program; 19:30-11:30, Draize Hotel Terrace Garden program; 20:30-11:30, Draize Hotel Terrace Garden program; 19:30-11:30, Draize Hotel Terrace Garden program; 19:30-11:30, Draize Hotel Terrace Garden program; 19:30-11:30, Grant Street Garden program; 19:30-11:30, Grant Garden Program; 19:30-11:30, Grant Garden Gard

Baseball Scores

 $\mathbf{T}^{\mathrm{ABULATED}}$ below is a time table of the stations giving baseball scores this week. Stations are divided into the different standard times in use. The hours are given in the kind of time in use at each listed station:

Atlantic or Eastern Daylight Sav-ing Time Stations

ing Time Stations

Saturday, August 8: 4:30, WJZ;
5:30, WCTS, WJZ; 6:40, WPG; 7:15,
WOR; 7:25, WNYC; 8, WJZ;
Monday, August 10; 4:20, WZ;
Monday, August 10; 4:40, 17:15,
WEEL, WOR; 7:25, WNYC; 8, WJZ;
Tuesday, August 11; 4, 4:30, 5, 5:30, 6, WJZ; 6:30, WEEL; 7:5, WOR;
7:25, WNYC; 8, WJZ;
Wednesday, August 12; 4, 4:30, 5, 5:30, 6, WJZ; 7:15, WOR;
7:25, WNYC; 8, WJZ;
Thursday, August 12; 4, 4:30, 5, 5:30, 6, WJZ; 7:45, WEEL; 8, WJZ;
Thursday, August 13; 4, 4:30, 5, 5:30, 6, WJZ; 7:25, WNYC; 8, WJZ;
Friday, August 14; 4, 4:30, 5, 5:30, 6, WJZ; 7:15, WEEL; WOR; 7:25, WNYC; 8, WJZ.
Friday, August 14; 4, 4:30, 5, 5:30, 6, WJZ; 7:15, WEEL; WOR; 7:25, WNYC; 8, WJZ.
Eastern Standard or Central Day-

Eastern Standard or Central Daylight Saving Time Stations

Saturday, August 8: 2, WGY; 2:30,
KDKA; 2:45, KDKA, WMAQ; 3,
KDKA, 2:45, KDKA, WMAQ; 3,
KDKA, KYW; 3:35, KDKA; 3:30,
KTW, 4:18, 4:30, KYW; 4:45,
KYW; 4:18, 4:30, KYW; 4:45,
KYM, Sinday, August 9: 6:30, WBZ; 6:55,
WTIC; 9:50, WBZ,
Monday, August 10: 2, WRC; 2:45,
WMAQ; 3:30, KDKA, KYW, WEAR;
3:45, WBAR; 3:55, WWJ; 4, KDKA,
KYW, WMAQ; 4:30, KYW; 5, KDKA,
KYW, WMAQ; 4:30, KYW; 5, KDKA,
KYW, WMAQ; 3:55, WTIC; 6, WGN,
WLS; 6:30, WBZ; 6:50, WTIC; 7:30,
WBERI, WLW; 9:30, WBZ; 9:55,
KMAO; 3 KDKA, 20, WMAC; 2:45,
WMAO; 3 KDKA, 20, WMAC; 2:45,

KDKA
Tueday, August 11: 2, WRC: 2:45,
WMAQ; 3, KDKA, 2:30, KDKA, KYW,
WEAR; 3:45, WEAR; 3:55, WWJ: 4,
KYW, WAQ; 4:30, KYW: 5, KDKA,
KYW: 6, WGN, WLS: 6:30, WBZ; 7,
KDKA; 7:30, WEBH, WLW: 9:50,
WBZ; 9:55, KDKA,
Wednesday, August 12: 9

KDKA: 7:30, WDBH WLW; 9:50, WBZ; 9:55, KDKA.
Wednesday, August 12: 2, WRC; 2:45, WMAQ; 3:30, KDKA, KYW, WEAR, 3:45, WDAR; 3:55, WWJ; 4, KYW, 4:30, KYW; 5, KYW; 6, WGN, WLS; 6:50, WTIC; 7, KDKA; 7:30, WEBH, WLW; 9:50, WBZ; 9:55, KDKA.
Thursday, August 13: 2, WRC; 2:45, WMAQ; 3, KDKA, KYW, WARA; 3, KDKA, KYW, WARA; 3, KDKA, KYW, WARA; 3, KDKA, KYW, WARA; 4:30, KYW; 5, KDKA, KYW, WARA; 3, KYW; 6, WGN, WBZ; 6:50, WTIC; 7:30, WBBH, WLW; 9:50, WBZ; 9:55, KDKA, Friday, August 14: 2, 3, KYW; 3:50, KDKA, KYW; WJ, August 14: 2, 3, KYW; 3:50, KDKA, KYW; KDKA, KYW; WJ, KYW, WJ, KYW, WJ, KYW, KYW, KYW, WJ, KYW, KYW; 5, KDKA, KYW; 5, KDKA, KYW; 6, WGN, KYW; 5, KDKA, KYW; 6, WGN, WJ, KYW; 6, WGM, WJ, KYW; 6, WGN, WJ, KYW; 6,

WLS; 6:30, WBZ; 6:50, WTIC; 7:30, WEBH, WLW; 9:50, WBZ; 9:55, KDKA.

Central Standard Time Stations Saturday, August 8: 3:30, WDAF, WHAS; 4:30, WDAF, WFAA: 5, WDAF; 6, WCCO, WDAF, WOC; 6:20, WOAW; 6:30, WSMB; 9, WCCO; 9:15, KTHS.

9:15, KTHS.
Sunday, August 9: 3:30, 4, WDAF;
4:30, WFAA; 5, WDAF; 5:05, WOS;
6:45, WOC; 9, WCCO; 9:15, KTHS.
MOnday, August 10: 3:30, WDAF;
WHAS; 4, WCCO, WDAF; 4:30,
WFAA; 5, WDAF; 5:05, WOS; 6;
WSAS; 4, WCCO, WDAF; 4:30, WCAC,
Tuesday, August 11: 3; WOAL, 3:30,
WDAF, WHAS; 4, WCCO, WDAF; 4:30, WFAA; 5, WDAF; 6; WCCO,
WOC; 6:20, WOAW; 6:30, WSMB; 7,
WHAD, WOAL; 4:45, WHAS; 9,
KTHS, WCCO,
Wednesday, August 12: 2, WCAC,
Wednesday, August 12: 2, WCAC,
Wednesday, August 12: 2, WCAC,

WOAL; 8:45, WHAS; 9;
KTHS, WCCO.
Wednesday, Angust 12: 3; WOAL;
2:30, WDAF, WHAS; 4; WCCO; 4:30,
WDAF, WFAA; 5; WDAF; 5:05,
WOS; 6, WCCO, WDAF, WOAL;
KTHS; 9, WCCO,
WHAD, WOAL; 9:15,
KTHS; 9, WCCO,
WALF, 4; WCCO,
WALF, 4; WCCO,
WALF, 4; WCCO,
WALF, 4; WCCO; 6:20, WOAW;
6:30, WSMB; 7, WOAL; 9, WCCO;
9:15, KTHS.
Friday, August 14: 2; WDAF, WOAL;
Friday, August 14: 2; WDAF, WOAL;
Friday, August 14: 2; WDAF, WOAL;

9:15, KTHS.
Priday, August 14: 3, WDAF, WOAI;
2:30, WHAS; 4, WCCO, WDAF; 4:30,
WFAA: 6, WCCO, WDAF, WCC;
6:20, WOAW; 6:30, WSMB; 8:45,
WHAS; 9, WCCO; 9:15, KTHS.

WHAS; 9, WCO; 9:18, KTHS.

Mountain Standard Time Stations

Monday, Angust 10: 6, KOA.

Tuesday, Angust 11: 6:30, KOA.

Wednesday, Angust 12: 6, KOA.

Thursday, August 13: 6:30, KOA.

Friday, August 14: 6, KOA.

Friday, August 13: 6:30, KOA
Friday, August 14: 6, KOA.
Pacific Standard Time Stations
Saturday, August 8: 2:30-5, KNX;
6, KFOA; 6:15, KPO; 8, KFWB, KHJ.
Sunday, August 9: 6:30, KPO; 8,
KHJ; 9, KFWB, CO; 16:30, KGW; 8,
KFOA; 6:45, KGO; 7:30, KGW; 8,
KFOA; 6:45, KGO; 7:30, KGW; 8,
KFWB, KHJ, KFOA; 6:15, KPO; 6:45, KGO; 7:30,
KGW; 8, KFWB, KHJ.
Thursday, August 12: 2:30-5, KFOA;
6:15, KPO; 6:45, KGO; 7:30, KGW; 8,
KFWB, KHJ,
Friday, August 14: 2, 3, 4, KNX; 6,
KFOA, KPO; 6:45, KGO; 7:30, KGW; 8,
KFWB, KHJ.

and Guilano, banjo duo; Carl Schwitzer, baritone; 19:30, Al Carney, organico, 19:40, 6:45-7:15 n. m., Bellout, baritone, 19:45-7:15 n. m., Bellout, baritone, 19:45-7:45 Mosebaeta consert band; "Child. Care," M. P. Adams; 10:30-1, Charley, Straight and his orchestra; Albert F. Brown, or-

"Child Care," M. F. Annah, 1930-1931
Straight, and his orchestra: Albert F. Brown, or WKRG. Gleisinast, Obie (422-3), 10 p. m., Sim Pusateri, bardtone; Sam Born, tenor; Pete Minscowski, Klassian, bardtone; Sam Born, tenor; Pete Minscowski, Russian, bardtone; Eugene Perazzo, planist; 19:25, safety talk, Cincimual Automobile citus; 11:39, Marion McKay's Road Hill House orchestra.

Raibt Emerson, McKay's Road Hill House orchestra.

Raibt Emerson, orcanist; Martha Meier, contratoly; 7:16, Rev's Cornhuskers' early concert; 7:45, lullaby time, Rex and Uncle George 8, Better Music hours; C. Oliver Chaplean, tenor; Sylvin Chaplean, During Carlott, Carlott, critical Sylvin Chaplean, During Carlott, Carlott, critical St. 10, Rev's Cornhuskers; Ann Williams, mezzo-soprano; Walter Peterson, Kentucky Wonderbean; 10:30, Grace Wilson, cuntratio, Wils. Hurmony Int. East 11:29, Solean Old Judge's program, Jos Brens' Minstell company; 12:12. u. m., midnight revue; Ralph Emerson, scrapist.

might revue; Risht Emerson, organist.

WLW, Cincinnatt, Ohio (422.3, 1 m., strident remight revue; Risht Emerson, organist.

m. strident restring from classes, WLW instrumental rito; 7,
children's hour, WLW Story Lady, Mrs. Betthat W.
Edmondei S. thirty minutes of music of the last five
centuries; 8:30, Helen Hemiey, soprano, Beulah Emer
rett, accompanyis; 6.3-molente of the new world; 9,
concert program, the Formica concert orchestra. WIIliam Stoess, director. 4, Chicago theater, organ; 6:30,
con baseball game; 4, Chicago theater, organ; 6:30,
con baseball game; 4, Chicago theater, organ; 6:30,
con baseball game; 8:30, travel talk, Clara Laughlin;
8:50, Schuman quarte; 3:30, Chapman's orchestra;
8:40, swimming talk.

WMBB, Chicago, III, (250), 7-8:30 p. m., Trianon en-

WT1G. Hartford. Cenn. (348.6), 6 p. m., Traveleurs Jongleurs; 7:10, Lillian Otshay, soprano; 7:30, Lawrence F. Sombwick, cranals; 8:10, donn. Kidney, tene; 8:20, talk, "Traffe"; 8:45, Col. Fark municipal WVI, Detroit, Miel. (382.7), 6 p. m., dinner concert; 7; eineert from New York.

Central Standard Time Stations

KFAB, Lincola, Nebr. (340.9), 5-6 p. m., Schmoller & Ableller program; 6-7, dinner program; 6-7, dispension of the program; 6-7, dispension o

KFMF, Shenanosan, lowa (200), 1:30 D. H., pupe organ (KFNU, Britshow, Oklat. (3945), 10:39-12 midnight, finite first the control of the contr

RCDS., Ingenesies. M. (401.0), 8 b. m. of the contribution of the

Secuminant Quarter, 5-30, captinants such sections of the property of the prop

Mountain Standard Time Stations A. Denver, Colo. (322.4), 6:30 p. m., Herbert V nd his Silver State orchestra; 7:30, News-T

CFOA

cert.
Pacific Standard Time Stations
A, Seattle, Wash. (454.3), 6-6:45 p. m.. concert
lestra; baseball scores; 6-6-8-15, program; 3:30Times studio program; 10-11, Eddle Harkness and

Comparison Standard Time Stanton's KFOA. Seatth, Wash (48.3), 8-63.5 p. m. concert orchestra; basebull scores; 6:45.31.5 poorrain; 3.30-10.1 lines studio program; 10-11, Eddie Harkness and hit orchestra.

In orchestr

Wednesday, August 12

Wednesday, silent night for: CKAC, CNRT KFDM, KBAV, WBBR, WCBD, WDWF, WFAA, WFI, WGBS, WGY, WHAR, WHAZ, WIP, WJY, WMAK, WMC, WOAW, WORD, WPG, WRBG, WRC, WREO, WTIG.

Atlantic or Eastern Daylight Saving

Atlantic or Eastern Daylight Saving

Time Stations

CNR0, Oftown, Can. (455) 8 p. n., Contesu Laurier
concert writestra, Gustave Goscella, haritone, Lucienne
quevillon, pianist, Marguerite Valin. soprano; Jean
Leutont, tenor; Louis Chamonard, reader; Marguerita,
WAHG, Ribmond, Hill, N. V. (315,6)
WAHG, Ribmond, Hill, N. V. (315,6)
WHAG, Ribmond, Hill, N. V. (315,6)
WAGE, Pittsburgh, Pa. (461,3), 6:39 p. n., dinner concert, William Penn hotel; 7:39, Sunshine girl; S. plano recital, Port. Kalledis; \$2:30, studio concert; 11, procert, William Penn hotel; 7:39, Sunshine girl; S. plano wCAE, Pittsburgh, Pa. (461,3), 6:39 p. n., dinner concert, William Penn hotel; 7:39, Sunshine girl; S. plano recital, Port. Kalledis; \$2:30, studio concert; 11, procert, William Penn hotel; 7:39, Sunshine girl; S. plano and his Cathay Tea Garden dance orchestra; S. recital
and talks; 9, talk, suspices The Philadelphia Record;
10:39, Jack Myer's Mulacal Architects dance orchestra
vera La Mar, contraito, Florence Wallace, 4:39-4:46, plano dues.
Vera La Mar, contraito, Florence Wallace, 4:39-4:46, plano dues.
Chiffs, "Bleator, Brown of Conditions of Conference Wallace, 4:39-4:46, plano dues.
Chiffs," Bleator, Brown of Conference Wallace, 1:39-1:46, plano dues.
Chiffs, "Bleator, Brown of Conference Wallace, 1:30-1:46, plano dues.
Chiffs," Bleator, Brown of Conference Wallace, 1:30-1:46, plano dues.
Chiffs, "Bleator, Brown of Conference Wallace, 1:30-1:46, plano dues.
Chiffs," Bleator, Brown of Conference Conference Conference Well, New York, N. Y. (272,6), S-8:30 p. m., Chief
Schilling and his oriental Happiness Ramblers; Schi2:15, Clarence Williams trio; 9:15-10, M. Jean
Schwartz's Kayo Sprogocon Chamber of Commerce-organ
WEI, Philadelphia, Pa. (394,5),

9:15. Clarence Williams trio; 9:15-10, M. Jean Schwartz's Kayo Synepottop, 8:20-p. m., Earl Nelson Stevartz's Kayo Synepottop, 120. p. m., Earl Nelson Tectlal, Berton, Mass. (475.0), 8:20-p. m., Earl Nelson Tectlal, Berton, Marchael Stratford Roof Garden orderlath, 3-4-p. m., reducing talk, Georgia Heffuer; recitations, Marcaret Lehman; beauty talk, Mrs. Mayhelle A. Burbridge; 36:130, Uncle Geobes; 6:30-7-30, Palleudians orchestra; 8:10-WGR, Burfal, N. Y. (319), 6:30-7:30 p. m., two piano recital, Gaspel Meladiats; 9-9:30, George Phelis, barlions; Ethel Johnson, planist; 3:30-10:30, Roerge Chelss, barlions; Ethel Johnson, planist; 3:30-10:30, Roerge Chelss, barlions; Ethel Johnson, planist; 3:30-10:30, Roerge Chelstra, Harold Gieser, director.
WHN, New Yerk, N. Y. (361:2), 7-7:30 p. m., Clob Richman entertainers; 10-10:30, Roesiand dance orchestra; 10:30-11, Pallsades Amusement Park orchestra; 10:30-11, Pallsades Amusement Park orchestra.

Cyril Buschle
is the organist
at the St. Martins c h u r c h,
Cincinnati. He
may be heard
by fans living
outside of Cincinnati M on day n ig h t,
when he will
annear at when he will
a p p e a r a t
WLW. He is
a regular feature of this
station.



WIP, Philadelphia, Pa. (598.2), 3 p. m., Song of the Surt; 3:30, Comfort's philharmonic orchestra; 6:35, Benjamin Franklin concert, orchestra; 6:35, Benjamin Franklin concert orchestra; 7, Unele Wip's beddime stories.

WIAR, Providentos, R. 1. (305.9), 7:50 p. m., program, New Tork studie, Y. 4(54.3), 4:30-5:39 p. m., Hotel Wille, W. 4. (54.3), 4:30-5:39 p. m., Hotel Wille, W. 5. (54.3), 4:30-5:39 p. m., Hotel W. 5. (54.3), 4:30-5:3

(Continued on page 11)

POETS HAVE SPECIAL PROGRAM AT KOA

Wednesday, August 12

(Continued from page 10)

WLIT. Philadelphia, Pa. (304.5), 7.30 b. m. Dream Daddy's bedtime atoris; 3-30, Palmount Park Sym-phia and State of the S

KDKA, PItthursh Pa. (392.1), 845 p. m., Dry Site KYW, Chicago, Ill. (589, 6-4.30 p. m., Congress hotel; 7-8, Dade B. Epstein, tenor; Mildred Epstein, reader; 3-10-30, midnight revue; Paul Whitenan;

Robert Visconti, director; 7:20, National Farm Radio council talk; 10, program, Cincinnati Conservatory of Squisc; Helen Fill, soprano, Margaret Thompson, cell-ist, Ruth Barnhill, planist, Nita Galastri, violinisc; Johanna Grosse, organist; Orpheus Instrumental trio-WMAQ, Chicago, Ill. (447.5), 2:55 p. m., Chicago-Bostono Baschall game; 6, Chicago theater organ; 8, Chapman's orchestra; 8:50, lecture, Nordwestern unfersity; 9, Dr. Lagsfax Sindh Thuld, speaker; 2:50, Chapman's

Dr. Baghat Sindh Thind, speaker; 9:30, Chapman's orchestra.
 WMBB, Chicago, III. (250), 7-8:39, p. m., operatic sent-classical program, Trianon ensemble: Lindsay McPhail, plantist; Bernard Seriescu, violinist; Desmond Sullvan, cellist; Repoera Aguinch, plantist; Desmond Sullvan, cellist; Repoera Aguinch, plantist; Desmond Sullvan, cellist; Repoera Aguinch, plantist; Desmond Sullvan, cellist; Woodlawn, theater orchestra; Pisker and Wayne; Florence Tenney; Harold Stokes, accordionist; Lindsay McPhail, plantist; Geraldine Doyle, soprano.

soprano.

WMBF, Miami Beach, Fla. (384.4), 7 p. m., concert;
7:30. Fleetwood hotel dance orchestra; 10-12, dance

7.39, Flectwood notes dance crinistra; 10-12, dance musile.

WORD, Batavia, III. (275), 8:30 p. m., hymns and sacred somes, I. B. S. A. singers; 8:45, Bible lecture, A. L. Seeley.

WQI, Chicago, III. (447.5), 7-8 p. m., Rainto Garden orchestra; Hinshaw conservator; Minnie Carey Stine, contraito; Marrie Hinshaw, bartione; John Rack, szar-

WOS. Lefferen City, Mo. (440.3) 8 p. m., "The Public Service Commission and its Beatine to the Public sa an Arm of the State Government," Hon. L. H. Dreuer; song service, Rev. J. O. Humphreys. WSMB, New Orleans, La. (319), 6:39-7:39 p. m., entertainment, Sad-0.19.39, studio artists.

Mountain Standard Time Stations OA, Denver, Colo. (322.4), 6:30 p. m., Herbert White and his Silver State ordestra; 7:30, Sandmari's hour; 8, survey of contemporary poets and poetry, English, American, George J. Peavey; 10, Raymond's Harmony Kings.

Harmony Kings.

Harmony Kings.

Pacific Standard Time Stations

KFAE, Pullman. Wash. (348.6), 7:30-8:39 p. m., Margaret. Amundson, planist; Margaret. McLachlan, riollinist; F. C. Butterfield, planist; popular numbers, members Treadwell orchestra; marimbaphone duets, Cooper Community. "Prof. n. L. Ashleck; U. S. Public Health sorvice talk.

KFOA, Santtle, Wash. (454.3), 6:6:45 p. m., Hopper Kelly company studio program; 8:30-10, Thues studio program.

program.
KFWB, Hellyweed, Calif. (252), 6-7 p. m., children's
hour, Big Brother of KFWB; 7-7:30, a half hour of
fun, courtesy Mutual Motors, Inc.; 7:30-8, program

lesson; 8:40, Fred Franz, tenor; 8:50, Hawaiian quin-ted. William Pen, 164(3), 6:30 p. m., dimer con-eart, William Pen, hotel; 7:30, Uncle Kaybee; 8, eart, William Pen, hotel; 7:30, Uncle Kaybee; 8, Silvertawn, Cord orelestra, Josenh Knecht, director.

WCAE, Pritsburgh, Pa. (381.3), 5:30 p. m., dilmer consect. William Penn inder 1:500 p. m., dilmer consect. William Penn inder 1:500 p. m., dilmer consect. William Penn inder 1:500 p. m. dilmer consection of the control of the control of the control
Silvertown Cord orchestra, Joseph Knecht, director.
WCAU, Philadelphia, Pa. (2728), 7:30 p. m., N. Snellenburg and company, symphony orchestra; 10:20, Ellis
WOTS, Worsester, Mass. (268), 10:11 p. m., Silvertown
Cord orchestra.
WEAF, New York, N. Y. (491.5), 4:5 p. m., NarraWEAF, New York, N. Y. (491.5), 4:5 p. m., NarraWEAF, New York, N. Y. (491.5), 4:5 p. m., Matikia
Zimbler cellsit: taik; 6-7, dinner music, WaldorfAstoria; 7:2:30, services, New York Federation of
chestra; 11:12, Vincent Lopez Hotel Pennsylvania orchestra; 11:12, Vincent Lopez Hotel Pennsylvania orchestra; 11:12, Vincent Lopez Hotel Pennsylvania orchestra; 11:12, Vincent Lopez Hotel Pennsylvania orchestra.
WEEI, Baston, Mass. (375.6), 7:15 p. m., Charlio
Donclam in Florida; 8 musical; 9, Arnater Kens
WEI, Philadelphia, Pa. (394.5), 0:45 p. m., Bellevuo
Stratford Roof Garden orchestra; 8, "Top'c conect; 3,
Atwater Kent Radio artists; 10, "The Silvertown Oxt
WEBS, New York, N. Y. (315.6), 3:4 p., p., reading of
WEBS, New York, N. Y. (315.6), 3:4 p., p., reading of
WEBS, New York, N. Y. (315.6), 3:4 p., p., reading of
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WEBS, New York, N. Y. (315.6), 3:4 p., p., reading of
WEBS, New York, N. Y. (315.6), 3:4 p., p., reading of



Bernard Johnson, baritone, is one of the most promising of the younger singers in Omaha. He sings at WOAW, regularly, Marjorie Tyler is one of the leading actresses of the WGY players and has been heard many times on Broadway via WJZ.

male quartet; 12-2, Samovar orchestra, Nate Cald-well, Roy Trausper, Charlie and Dave, William Mol-walte, Sunset mile quartet, "3-8 p. m., classical hour; 5-3 p. d. classical hour; 5-4 p. d. classical hours; 6-4 p. d.

petroit, Mich. (516.9), 4:15 p. m., concert; 6, er concert. Book-Cadillac hote!; 8, Detroit Sym-

"Minner concert, Bonk-Cadillie hotel; S. Detroit Symphony orchestra, Dio (389.4), 7-8 p. m., Hotel WEAR Cleveland. Dio (389.4), 7-8 p. m., Hotel WEBH, Chieveland. (370.2), 7:30 p. m., Oriole concert orchestra; baseball socres; book chat, Lowellyn close; musical bits, Bitters Work, terme; songs, Correll and Gosden; Fowler and Tanara's South American troubdours; 10:30-1130, Orlole dome corchestra. Robert Yark, terme; songs, Correll and Gosden, Sweley and Tanara's South American troubdours; 10:30-1130, Orlole dome corchestra; Robert Yark, terme; songs; songs; songs; songs and the song songs; songs and the song songs; son

can troubadours; 10:30-11:39, Orlolo dance orchestra; Robert York, tenori; sonts; Correll and Gosden, songs; Ordiole orthestra revue.

NESSA D. The bartione; D. Osize Wyse, soprane; Frede Stoil, coloratura; Charlotte Edwards, contralto; Anna Wallace, plantit; 10:30-11. m., Monolight Storenaders Course Electrical school serenaders; Charlotte Edwards, contralto; Anna Wallace, plantit; 10:30-11. m., Monolight Storenaders; Charlotte Edwards, contralto; Anna Wallace, plantit; 10:30-11. m., Monolight Storenaders; Charlotte Edwards, contralto; Anna Wallace, plantit; 10:30-11. m., Monolight Storenaders; Charlotte Edwards, Charlotte Edwards, Charlotte Edwards, Charlotte, Charlotte,

Merreit Schwarz, B. Aylward; 330, Martin Ascars a WLS, Chicago, HI. (344.6), 630, p. m., Ralph Emerson, organist; Martha Meler, contralto; 715, concert, Rer's Cornbuskers; 745, Iullay time, Rer end Under Georges, 8, Petr Lee Burraker, Rer's Combuskers; 9, farm proram; Babble and Barr, harmony duo; 10, Mr. and Mrs. Eugeno Schwelzer, concert artists, solosand duete; 11-11:30, dance music, Rer's Cornbuskers, WLW, Cincinnati, Onlo (422.3), 4 p. m. Shalt-In' program; 7, dinner concert, Hotel Glbson orthestica.

phonist; Helen Haldeman, pianist; 10-1, Ralph Wil-liams and his Rainbo Skylarts; Melodiams; Eather Trostrud, soprano; Allee Hessner, pianist; Antia Gardner; Williamson Brothers and Joe Remini; Fred A. Jacobsen; Paul Small, tenor; Gall Bandell, con-trallo; Clarence Theders, tenor; 1-2, Ginger hour SAI, Cincinanti, Ohio (282, 10 n. m., 201 talk; 10-10, Rainbown and Company of the Company of the SAI, Cincinanti, Ohio (282, 10 n. m., 201 talk; 10-10, Residence Cressing, Sprano; 11, Congress playing card string quarter.

wSAI, Cledinati, Ohie (229, 10 p. m., 501 falls; 10:10. Richard Gray, buttons; Herbert Shatz, bass; Helene Kessing, soprano; 11, Congress playing card string WTAM. Cleveland, Ohie (384.4), 6-7 p. m., dinner dance music, Musde Box; 8-10, public auditorium organ rectai; 10-11, Helneden hour; 11-1 Eucild WTAS, Elgin, III. (302.8), 8-10:30 p. m., Purple Gracitle orientar; violet Enton, Roland Hinckle, Flo Heuric, Lillan Mernard, Phil Wilson, Brock States. WW. Centrell Standard Time Stations (FAR), thresh, Nebr. Card. Standard Time Stations (FAR), thresh, Nebr. (404.8), 6-7 p. m. inlumer concert; violes, 100 p. m., Funds and his Blue Moon dance orchestra; 8-9:30, John Hickman, violinist; Glidys Erickson, planist; Rubb Hall, banjott; Budde KFMG, Fayetteville, Ark. (29.8), 7:30 p. m., farmers' week program; farm flondy, Cy Adams; special profits of the constant of the cons

KFVE. University City, Mc. (240), 10 p. m., Orchestra Romaine; Leona Bloomers; Mrs. Eisa Herze, accomment Ramaine; Leona Bloomers; Mrs. Eisa Herze, accomment Ramaine; Leona Bloomers; Mrs. Eisa Herze, accomment Ramaine; Leonard Ramaine; Leonard

Beverbridge company, the Beverbridge Hawatian trio; \$-9, Warner Brothers Synopators, Joe Martin, leader; Geo. Green and Don McNamee, two planos and accordion and banjo duets, from Mitchel, tenor; 9-10, party, and the property of the prope

Thursday, August 13

Thursday, silent night for: CKAC, CNRT, KFAB, KFAE, KFDM, KFWA, KFOA, KFOA, KFVA, KFWA, KOA, KSD, PWX, WAHG, WBAY, WCE, WEAD, WEBJ, WHA, WHAD, WHAZ, WJJD, WRKC, WLIT, WOR, WHAG, WTAM.

Atlantic or Eastern Daylight Saving
Time Stations
CHNC. Terosto, Can. (356.7), 9 p. m., Charles E.
Budley and his dance ornelestra; Bert Petch, entertainers; Bob Harvey, tenor.
CHRM. Montreal, Can. (411), 9 p. m., orchestra; White
Star-Donninon Line; Yiola Benolt, soprano; D. Rheale,
William
Guinett, St. (272.6), 8 p. m., Hawaiian
Quintet; 8:10, Fred Franz, tenor; 8:20, Sunday school

Oakland's Chatheau Shanley; 8:30-8:45, Ethel West, soprano; 9-9:20 Jimmy Clarke and his White Way Shanding Clarke and Shanley Clarke Shanley Clarker Shanley Comports Philarmonic orchestra, 253, 50 sons of the Surf; 8:30, Veselli's band; 10, Gaybord and Young Comports Shanley Clarker Shanle

Eastern Standard or Central Daylight Saving Time Stations (NDKA) Pittsburgh, Pa. (309.1), 8:35 p. m., concert; 190.2 concert, Willows, 6-8:30 p. m., Congress, Indet. (8.25-6.35, American Farm Bureau federation; 7-7:20, twenty minutes of good reading, Rev. C. J. Pernin; 7:20-8:15, William Benson, tenery Thoman B. Stephen; Welliam Benson, teneral properties of the Stephen Control of t

CLEVER "GARRICK GAITIES" PLAYERS

Index to Popular Concerts

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

Atlantic or Eastern Daylight Sav-

Atlantic or Eastern Daylight Saving Time Stations
Saturday, August 8: 7, WGBS; 8, WBBR; 8:10, WJZ; 8:15, WEAF; 8:45, WIP; 10:15, WNYC.
Sunday, August 9: 7:20, WEAF; 7:30, WEBI; 9, WNYC; 10, WNYC.
Monday, August 10: 6:30, KGBS; 7:30, WAHG, WHN, 8:15, WHN; 8:30, WAHG, WHN; 8:15, WHAR, WOR; 9:25, WHN; 9:30, WMCA; 10:30, WMCA.
Tuesday, August 11: 7, WARTA

WOR; 9:25, WHN; 9:30, WMCA; 10:30, WMCA; 10:30, WMCA.

Tuosday, Angust 11: 7, WMCA; 7:15, WEBJ; 8, WHAR WMCA; 8:15, WEBJ; 8, WHAR WMCA; 8:15, WEBJ; WFI, WHY; 8:45, WIP; Wednesday, August 12: 7:30, WARG; 15, WARG; 8:30, WMCA; 30, WMCA; 40, WMCA; 4

Eastern Standard or Central Day-light Saving Time Stations

light Saving Time Stations
Saturday, August 8: 6:20, WW1; 7,
WEAR; 8, WBBM, WHT, WLS,
WMAQ, WTAS, 8:30, WMBB, 9,
WBBM, WS, 8:30, WMBB, 9,
WBBM, WS, WS, WMBB, 9,
WBBM, WS, WKEC, WLS,
WJ, WBM, WKEC, WLS,
WJ, WBM, WKEC, WLS,
WJ, WMAM; 11, WBBM, WGES, WHT,
WJJD, WTAM; 11, WBBM, WGES,
WLS, WQJ, WTAM; 2, WTAM,
Sunday, August 9: 6:20, WMB;
WBBM, WTAS; 8:30, WBZ, WMBB,
WBBM, WTAS; 8:30, WBZ, WMBB;
WBBM, WTAS; 12, WBBM, WJJJ; 1,
WBBM, WJJD, WBBM, WJJJ; 1,
WBBM, WJJJ; 1, WBBM, WJJJ; 1,
WBBM, WJJJC, BBM, WJJJ; 1,
WBMM, WJJD, Monday, August 10: 6, WBBM; \$,

WTAS; 8:15, WREO; 8:30, WMBE; 9, WBBM, WTAS; 9:30, WEBH, WMBB; 10, WBBM, WQI, WTAS; 10:30, KYW. WEBH, WGN, WHT; 11, WHT; WEIT, WHY, WISH, WISH,

Central Standard Time Stations
Saturday, Angust 8: 6:30, WPAA;
7, KSD; 8:30, WOAI; 9, KFRU; 9:25,
KTHS; 9:30, WSMB; 10, KFRU; 9:25,
KTHS; 9:30, WSMB; 11, KFRU,
KFPU, KFVE, WOAW.
Sunday, Angust 9: 9:30, WFAA,
WOAI; 11, WBAP,
MOOAU; 11, WBAP,
MOOAU; 6:45, WCCO; 7:30, KFAB, S,
KFAB, KFRU; 8:30, KFAB, WMC,
WOAI, WSMB; 9, KFRU; 9:30,
WSMB; 10, KFVE, WOAW; 10:45,
WSB.

WSB. Tuesday, August 11: 6:30, WOC; 8, WCCO, WSB; 8:30, WOAI; 10:30, KFRU, WOAW; 10:45, WSB; 11, WFAA; 11:30, KFRU; 11:45, WDAF; 12, WOAW.

WFAA; 11:30, KFRU; 11:45, WDAF; 12, WOAW, Wednesday, August 12: 7:30, KFAB, 8, KFRU; 8:30, KFAB, WSMB; 9, KFRU; 9:30, WSMB; 10, KFRU; 10:45, WSB.

Thursday, August 13: 6, WOAW; 8, CCO; 8:30, WOAI; 9, WOAW; 11:45,

Thursday, WOAI; 9, WOAW, WCCO; 8:30, WOAI; 9, WOAW, WCCO; S.30, WOAI; 9, WOAW, Friday, August 14: 8, KFAB, WDAF; 8:30, FAB, WOAI; 9, WHAD; 10, KFRU, WMC; 12, KFRU, WMC; 12, KFRU, Time Stations

Sunday, August 9: 8-11, KFWA. Wednesday, August 12: 8, KOA: 11, KFWA. Friday, August 14: 9-11, KFWA.

KFWA.

Friday, August 14: 9-11, KFWA.

Pacific Standard Time Stations

Saturday, Sugust 3: 8. KFWB.

KNASA, 11:39, KHJ. KFUL: 12.

KNX: 12:30, KHJ: 1, KNX.

Sunday, August 9: 8. KHJ: 9.

KFWB: 10, KFWB.

Monday, August 10: 9. KNX: 10.

KFWB: 11, KFWE: 12, KFWB.

Tuesday, August 11: 8. KFWB.

KNAS: 14, KFWB.

KNAS: 16, KFWB.

KNAS: 16, KFWB.

KNAS: 10, KFWB.

KFWA. KFWB: 11, KNX.

Thursday, August 12: 8. KGW.

KFUJ. (KFWB. KHJ: 11, KNX.

Thursday, August 13: 8. KHJ: 9.

KFWB. KHJ. (KNX. 10.

Friday, August 14: 8. KFWB.

KFWB. KHJ. (KNX. 10.

Friday, August 14: 8. KFWB.

KFWB. KHJ. (KNX. 10.

KFWB. KHJ. (KNX. 10.

KFWB. KHJ. (KNX. 10.

KFWB. (KHJ. (KNX. 10.

KFWB. (K



10:15-10:55, dance orchestra; 11:05-11:30, dance or

chestra.

VCAE, Pittsburgh, Pa. (461.3), 6:30 p. m., dinner concert, William Penn hotel: 7:30, Uncle Kaybee; 8, address; 8:30, studio concert; 10, Sander's Inn dance

WCAE. Pithburgh. Pa. (461.3), 6:30 p. m., dinone concert. William Penn hotel: 7:30. Under Kayber; 8, address; 3:30, studio concert; 10. Sander's 1m dance music.

WCAU. Philadelphia, Pt. (279, 8:40 p. m., Billy Hayes and Markey and

Surf.; 3:30. Comfort's Philharmonic orchestra: 6:03. Benjamin Franklin concert orchestra; 7. Uncle Wip's bediline stories. B. 1. (305.9), 8 n. m. musical problem of the pr

DANCING

DANCING
Central Standard Time
Saturday, August 2: 3,
Kababa 2: 3,
Kababa 3: 3,
Kaba

Wkre, Winbb, Was \$130. Weaf, Wsmb; \$145. Weaf, Wsmb; \$145. Wg, Wonf; \$145. Wg, Wmb; \$145. Wg, Wmb; \$145. Was; \$19.50. was

Wql.
Friday, August 14; S.
Kyw. Wcae, Wear, Weel,
Wmbb, Wuss, Wri; S. 30,
Kyw. Wcau, Webh, Whn,
Wijz, Wou, 9,
Kyw. Weat, West,
Wijz, Wou, 9,
S. Wee, West,
Wijz,
Wijz, Wor,
Wijz, Wor,
Wijz, Wor,
Wijz, Wor,
Wijz,

(Continued from page 11)
dinner concert. Book-Cadillas hotel; 8. Detroit Symphony orthestra.

"Phony orthestra.

"The Man Cadillas hotel; 8. Detroit Symphony orthestra.

"The Man Cadillas hotel; 8. Detroit Symphony orthestra.

"The Man Cadillas hotels, 100 tanks, 100 tanks,

10:45, WLW concert orchestra; 11:20, Rosemary Stoess, organist; soprano solos, Margaret Cohan.
WMAK, Lockport, N. Y. (265.5), 11 p. m., Murray

Hüghes, plantit. KÖA, burg. ROA, burg. ROA, burg. ROA, burg. ROA, burg. ROA, burg. Road Bar. Friday, August 14

Friday, silent night for: KFAE, KFUO, KFMQ, KGO, KLDS, PWX, WBBR, WGBD, WEAO, WFI. WGBS, WHA, WHAZ, WIP, WKAQ, WKRO, WLW, WMAK, WOR, WRC, WREO, WSAI, WTAM.

ERS GIVE HITS SATURDAY AT WEAF



DANCING

86, Rgw, Knj, Anx.

Monday, August 10; 8,

krc. Wmbb, Wtas;
30, Weaf, Wsmb;
45, Wiz, Wor; 9;
eac, Wgr, Wmbf,
tas; 9:05, viahg; 9:30,
ccc, Wijd, Wmez; 10,
no, Whn, Wtah;
30, Wcace, Wijd; 11;
ho; 11;30, Wild; 11;35,
dat.

daf.
Tuesday, August 11: S.
mib., Wlair 8: 30,
cat., Web., Wip.
mbt., Wip.
mbt., Wip.
mbt., Wip.
mbt., Wip.
mbt., Wip.
cec, Wige., Rp., Wijd.
cal; 10, Wees., Rp., Wijd.
cal; 10, Wees., Rp., Wijd.
coli; 10, Wees., Rp., Wijd.
coli; 10, Wijd

Wednesday, [Sjaust 12:
Kgw, White, White,
kro.
White, White,
kro.
White, Whas,
kro.
White, Was,
kro.
White, W. King,
kro.
King, W. Wear,
kro.
King, W. Was,
kr

'di.
Thursday; August 18: 8, 'fi, Wib, Wir, Wiy, 'mbb, Wrc, Was, 8:39, cat, 'wbb, Wsmb', 'g, 'al, 'wbb, 'wsmb', 'how, 'wbb, 'how, 'h

GJ. Friday, August 14: 8, yw. Wene, Wear, Well, Subb, Wils, 8:30, yw. Weau, Well, Whn, 15:26, which was the second of the second

Eastern Standard or Central Daylight

Lastern Standard or Central Daylight
Saving Time Stations
(EDKA, Pitthurch, Fa. (392), 18-35-5, 18-35-6, 18-35-

quartet. Al Furry, Charile and Dave, William Molmore, Chicago, III. (268), 8-9 p. m., back porch
hur: 10-12, request program, Midway orchestra;
Ann Kelley, soprance Eddide Matta, Billy Donovan,
Sandy Meek, Bils 50y Xagle, Peegy O'Nell.
WEZ, Springfield, Mass. (383.1), 6 p. m., Hotel Kinmore and the state of the state of the state of the state
editertainers: 6 to be minounced.
WCX, Detroit, Miel. (616,9), 4:15 p. m., concert; 6,
dinnar cancert, Book-Caddilac hotel; 8, Detroit Symphony orchestra, Belle Jale; 10, Jean Goldkette's
WEAR, Cleveland, Ohie (389.4), 7-8 p. m., children's
hour; 88-330, talks, promisent Clevelanders; S-30-11,
dange music, Ed. Day and his Bedford Glens orchestra.
WEBH, Chievago, III. (379.2), 7:308-330 p. m., Orled

hour; S-S:30, talks, brominent Olevelanders; S:30-11.

Wells make, Jd. Day and his Bedford Gelens orchestra.

Wells make, Jd. Day and his Bedford Gelens orchestra.

Wells make to rethestra: Howard Noundlife, planist; S:30, WEBH Light Opers company; Oriole done or chestra: 11:30-1 a. m., Oriole dance numbers; songs. Three troubadours; Rika McFawn, sourcaso.

WGES, Oak Park, III. (250), 5-6:45 p. m., John Rankel, bartione; Maddline Reed, contraine; Irma Jaubert, ser.

WGES, Oak Park, III. (250), 5-6:45 p. m., John Rankel, bartione; Maddline Reed, contraine; Irma Jaubert, ser.

Gertrude Matthews, socionamistic, 6:35-7, electrical lecture; B. D. Richards; D. John, J. m., Novelly Broad-Carlott, Matthews, with the series of th

organ vectati, vo. J. N. V. (378.5). 6 p. m., Albany Strand thoster ordenstri, Phovi H. Walter, organist, Strand thoster ordenstri, Phovi H. Walter, organist, Strand thoster ordenstri, Phovi H. Walter, organist, Sourman, Jerry Mirate, piamist, 7,25, New York Philateneuic ordenstrig 1930. Colonial male quartet; Alma Skaine, violinist; Mrs. Thomas R. Briggs, planist. WHT. Deerfield, Ill. (399,9), 7 p. m., Dean Remick, piamist; Bryce Talbot, baritone; 739, Al Carroy, organist; Generice B. Burnione; 739, Al Carroy, organist; Generice B. Burnione; 8, Jelle michaelist, Physical Charles, Physics Charles, Physics 1940,

ganist.
WJJD, Mooseheart, III. (302.8), 6:45-7:15 p. m., Belmont hotel trin; 7:15-8, music, Mooseheart children;
10:30, Charley Straight and his orchestra; Albert F.
Brown, organist.

strown, organist.

W.S. Chiego, III. (234.8), 5:30 p. m., Ralph Emerson, urramist; 7:15, Rav's concert orchestra; 7:45, Ishlaby time, Rex and Uncle George; 8, Jean St. Anne, French bartame; French folk songs, Cornhuskers; 9, farm proverm; Kenneth Clark, Hawalian guttarist; unartet of Aurors, Tillinois; 11-11:30, dance music, Rex's orchestra.

st of Aurora, Illinois; 11-11:30, dance music, orchestra.

Chicago, Ill. (447.5), 2:55 p. m., Chicago-leiphia baseball game; 6, organ recital, Chicago; 6:25, Family Altar league; 6:35, Jack Chaporchestra; 8, Chapman's orchestra; 8:30, Plorence, p. soprano; 9:30, Chapman's orchestra; 9:30,

Neison, soprano; 9:30, Chapman's orchestra.

WMBB, Chicago, Ill. (250), 7-8:30 p. m., Trianon ensemble: Hazel O'Neil, soprano; Lindsay McPhall,
planist; 8:30-10:30, Trianon orchestra; Pisher and
Wayne; Woodlawn theater orchestra; Morey Alswang,
banjoist; Florence Tenney; Jack Murnane, barltons;
Clyde Hager.

Phesamt orchestra.

WTAS. Elfin, III. (302.9), 8-10:30 p. m. Purule Grackle orchestra; Herbie Minta, Marie Wright, Tommy Dunlanp, Brock Stetes.

WTIC, Hartford, Conn. (348.6), 6 p. m., Traveleurs Jonaleurs; 7:10, Lillian Saunders, Soprane; 7:55, Lester P. Galilivan, bass; 8:05, "Cane Cod." J. E. Hoskins; 8:30, Emil Hemberger's Heet Bond or

WWJ, Detreit, Mich. (352.7), 6 p. m., dinner concert; 3, Goldman band concert; 9, Orange Blossoms orchestra.

Central Standard Time Stations

KFRF, Shenandeah, lewa (266), 7:30 p. m., program, Tom Kuenan, KFRU, Bristow, Okla. (394.5), 11-1 a. m., Brown Dorby club,

KFVE, University City, Mo. (240), 10 p. m., Van Horn

Farm orchestra.

KOIL, Counell Bluffs, 19wa (279), 7:39-9, m., Paramount program, Disabled American Veterans Post No. 8. Ray Muzzy and his Carter Lake band; American Ceorge Hughes, Roberts Stotton, Harold Hughes, Lyran George Hughes, Roberts Stotton, Harold Hughes, Lyran George W. alyer; 11-12, Broadway theater.

KHS, Hoi Sarings Natingal Park, Ark. (374.8), 9:35 chestra. Bay Mullim Como notel roof garden orchestra. Bay Mullim Como notel roof garden orchestra. With the Company of the Co. Minneagolis-St. Paul, Minn. (416.4), 6:15 p. m., George Osborn's Nicollet hotel orchestra; 8, Gordon Cooke ensemble.

WCCO, Minneapolis-St. Paul, Minn. (416.4), 6:15 p. m., George Osborn's Nicollet hotel orchestris; 8. Gordon Cooke ensemble.

WHO. Des Moines, Iowa (526), 7:30-9 p. m., Hundling orchestra; 11-12, Kirkwood hotel orchestra.

wordstein minnes, 1992 (426), 1,30-9 h. m., minnelling wordstein 1-12, Kirkiwood hoed ornestein, musicari WOAI, San attonio, Tex. (594.5), 8,30 h. m., musicari programa, Nor. (523.5), 5 h. m., music retirevise. 23, 10- be announced; 6,30, ornestrata; 7,10, weekly sports (alit; 9, program, auspices Union Facilie Ratirond company.
WOC, Davenport, tewa (433.6), 8-9 b. m., Paul Vipperman, tenor; Raiph Fuller, baritone; Gettrude Brannisan, organis of the program of the pr

Mountain Standard Time Stations

CNFE, Edmonton, Can. (516.9), 3.30 p. m., Mrs. A. Hale and her mandelin guitar and banjo orchestra. KOA, Denver, Colo. (322.4), 6:30 p. m., Herbert White and his Silver State orchestra; 7:30, Book of Knowledge; 8, Denver municipal band.

Pacific Standard Time Stations

KFOA, Seattle, Wash. (454.3), 6-6:45 p. m., Sherman, Clay and company studio program; 8:39-10, Times studio program; 10-11:30, Eddic Harkness and his prophesty.

studio program; 10-11:30. Eddie Harkness and his orchestra. Greyes. Chil. (222), 8-9 m., program, KFWB., Holt West Chil. (222), 8-10 m., program, 10-11:30,

Index to Classical Concerts

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

Classical

Atlantic or Eastern Daylight Saving Time Stations
Saturday, August 8: 6, WEAF, 6:05, WCAE 7:05, WCA

Sunday, August 9: 6, WOO: 6:30, WCAE; 7, WJZ; 7:20, WCAE, WEAF, WEEI; 8:05, WJZ; 8:15, WJY; 9, WBBR, WHAR; 9:15, WCAE, WEAF, WEEI; 11, WHAR.

Monday, August 10: 5, WEAF, WGR, 6:95, WIP: 6:29, WCAE; 7, WIZ; 7:15, WEAF, 7:30, WAHG, WEBI; 8, WAHG, WEBR, WEEI; 8, WAHG, WEBR, WEEI; 8, WAHG, WHAR, WOO, WOR, 8:95, WNYC; 8:15, WNYC; 8:20, WBBR, WCAE, WMAK, WOO; 8:45, WEAF, WGAE, WHAK, WOO; 8:45, WEAF, WHAK, WOO; 11, WHN.

Tuesday, August 11: 6, WGR; 6:05, WIP; 6:30, WCAE; 7, WEAF, WGR; 7:10, WNYC; 7:15, WJZ; 7:30, WCAU, WEAF, WEBI, WEEI, WJY; 8: 8, WCAE, WCAU, WEAF, WEBI, WFI, WGBS, WGAE, WNYC, WIP; 8:15, WNYC; 8:25, WJZ; 8:20, WGAU, WEBI; 8:50, WIP; 9, WCAE, WEBI; 8:50, WGR, WMCA; 10, WCAE, WEAF, WEBI; WFI, WGAE; WCAE, WCAE; WHAT, WGBS; 9:30, WGR, WMCA; 11, WHAR

Thursday, August 13: 6, WEAF WGR; 6:05, WIP; 6:30, WCAE, WDWF; 7:40, WNAC; 7:30, WCAU, WDWF; WEEI, WHAR; 8:00, WCAU, WDWF, WEEI, WHAR; 8:00, WBR, WAE, WBEI, WFI, WGR, WIP; 8:15, WNYC; 8:30, WHAR, WHN, WJY; 8:40, WBBR; 8:50, WIP; 9, WCAE, WEAF, WEEI, WFI, WGR, WGR, WGA, WGA, WJY; 10, WCAE, WEEI, WJZ.

Friday, August 14: 6, WEAF, WGR; 6:05, WIP; 6:30, WCAE; 7, WEAF, WEBJ, WJZ; 7:30, WEBJ, WEEI; WGR, WHAR; 8:15, WNYC; 8:30, WCAE, WCAE, WEBJ, WEAF, WJY; 9, WGR, WMCA; WGAE, WAMCA; WEAF; 10, WEAF, WMCA, WOO; 10:45, WHAR; 11, WHAR.

Eastern Standard or Central Daylight Saving Time Stations

Sunday, August 9: 6, WCX, WGES: 6:30, WHT: 6:45, WORD: 7, WEAR, WBH, WMBB: 7:15, KDKA; 8, WBZ, WCX, WLS, WQJ; 8:15, WREQ, WWJ; 8:00, WEBJ; 8:45, WBZ; 9, WGN, WQJ; 10, WKRC.

Monday, Angust 10, 6, WBZ, WCX, WGBS, WMAQ, WTAM, WWJ; 6:30, WGN; 6:55, WTIC; 7, WEAR, WHT; 7:15, WJJD; 7:20, WWJ; 7:30, WCX, WHT; 8, WBZ, WCX, WKRC, WKAC, WHAZ; 8:30, WBZ, WCX, WHAZ; 8:45, KDKA; 9, WBZ, WGRJ, WTAM; 9:15, WBZ, WHAZ; 10, WSAL, WSA

Wednesday, August 12: 6, WEZ, WCX, WGES, WIBO, WMAQ, WTAM, WWJ; 6:15, WJJD; 6:80, WGN; 7, KYW, WEAR, WHT, WIBO, WMBB,

WQJ, 7:15, WJJD; 7:30, WCX WEBH, WHT; 8, KYW, WEZ, WCX, WTAM; 8:30, PWX, WBZ, WCX, WGN, WORD; 8:45, KDKA; 8:50, WEZ; 8:55, WMAQ; 10, WTAM.

WBZ; \$159, WAAQ; 10, WTAM.
Thursday, August 13: 6, WEZ, WCX,
WGES, WIBO, WMAQ, WTAM,
WWJ; 6:30, WGN; 7, KYW, WHT,
WIBO, WMBE, WQJ, WSAI, WWJ;
7:30, WBZ, WCX, WEBH, WHT,
WKC; 8, WCX, WEBA, WSAI; 8:30,
WKZ, WGAR, KJKA, 8, WBZ,
WCKD, WGR, 8:45, KDKA, 9, WBZ,
10:15, KDKA; 12:30, WHT.

10:15, KDKA; 12:30, WHT.

Priday, Angust 14: 6, WBZ, WCX, WGES, WIBO, WMAQ, WTAM, WWJ; 6:30, WGN; 6:45, WJJD; 7, KYW, WHT, WIBO, WMBE, WQJ, 7:10, WTIC; 7:15, WJJD; 7:30, WCX, WBEH; 7:55, WTIC; 8, KYW, WBAV; WBZ, WCX, WWJ; 8:15, WBZ; 8:30, WBZ, WCX, WGZ, WMAQ; 8:45, KDKA, WBZ; 10:30, WHT.

Central Standard Time Stations Central Standard Time Stations
Saturday, August 8: 6, KFAB,
WOAW; 6:15, WCCO; 6:30, WFAA,
WSME; 7:30, KFDF, WHAS; 8,
WCCO, WSB; 8:30, WFAA, WHAS; 8,
WCCO, WSB; 8:30, WFAA, WHAS,
SMC; 8:35, KYNY; 9, WOAW, WOC.
Sunday, August 9: 6:30, KLDS;
7:30, WHO; 8, KFDM, WCBD, WOS;
9, WOAN; 9:16, KLDS, WCCO; 9:25,
KTHS; 9:30, WOC; 10, KFYE; 10:30,
WOC.

Monday, August 10: 6, KFAB, WOAW; 6:20, WFAA, WSME: 6:45, WOAW; 7, WHAY; 7:30, KFNF, WHO; 8, WCBD, WHA, WHAD, WHO, WOS, WSE; 8:30, WFAA; 9, KSD, WHAD, WOAN, WOAN, WOAW; 9:25, KTHS.

Tuesday, August 11: 6, KFAB, WHAD, WOAW; 6:96, WCCO: 6:25, WOAW; 6:30, WFAA, WSMB; 7, WCCO, WOC: 7:30, KFNF, WHAS, WHO: 8, KFDM, KLDS, KSD, WSC, 8:30, WFAA, WHAS, WMC: 8, KFMQ, WOAN, WOAW; 10, WOAW; 11, WMC.

11, Watt.

Wednesday, Angust 12: 6, KFAB,
WHAD: 6:30, WHO, WOAW, WSMB:
7:30, KFNF, KSD, WHAS, WHO: 8,
WCCO, WDAF, WHA, WOS: 8:30,
WHAS, WOAI: 9, WOAN, WOC; 9:25,
KTHS; 11:30, WCCO, WHAD.

Thursday, August 13: 6, WHAD: 6:30, WFAA, WOAW, WSMB: 7, WCCO, WOC; 7:30, KFNE, WHAS, WHO; 8, KLDS, WCBD, WOC; 8:30, WFAA, WHAS, WMC; 9, WOAN; 9:25, KTHS; 10:30, KFRU; 10:45, WSR 9:25. WSB.

Friday, August 14: 6, KFAB, WHAD; 6:15, WCCO: 8:30, WFAA, WOAW, WSMB: 7, KSD; 7:30, KFNF; WHAS, WHO: 8, KFDM, WCCO, WOS, WSB; 8:30, WFAA, WHAS, WHO, WMC; 9, KFDM, WOAN, WOA,

Mountain Standard Time Stations Saturday, August 8: 8, KOA.

Monday, August 10: 6:30, KOA; 8, KOA; 9-11, KFWA.

Tuesday, August 11: 6:30, KOA; 7:30, KOA. Wednesday, August 12: 6:30, KOA; 8. KOA; 9-11, KFWA. Thursday, August 13: 6:30, KOA. Friday, August 14: 6:30, KOA; 8, KOA.

Pacific Standard Time Stations Saturday, August 8: 6, KFOA, KHJ; 6:30, KNX; 6:45, KFOA; 7, KNX; 7:30, KNX; 8:10, KGO; 8:15, KHJ.

Sunday, August 9: 6:30, KHJ; 6:35, KPO; 7, KHJ, KNX; 8, KNX, KPO; 9, KNX; 10, KNX.

Monday, August 10: 6, KFOA, KGO; 6:30, KNX; 6:45, KFOA; 7:30, KNX; 9, KTCL.

Tuesday, August 11: 6, KFOA, KGO; KHJ; 6:30, KNX; 6:45, KFOA; 7, KNX, KTCL; 8, KGO, KGW, KHJ, KTCL, KPO; 8:30, KFOA; 9, KGW.

Wednesday, August 12: 6, KFOA, KGO, KHJ; 6:45, KFOA; 7, KNX, KTCL; 7:30, KFAE; 8, KNX; 8:30, KFAE, KFOA, KPO; 9:30, KHJ; 10, KGW, KTCL.

Thursday, August 13: 6, KFOA, KHJ; 6:30, KNX, KTCL; 7, KNX; 8, KGO, KGW, KPO; 9, KGW, KPO.

Friday, August 14: 6, KFOA, KGO, KHJ, KTCL; 6:15, KPO; 6:45, KFOA; 7:30, KFAE, KNX; 8, KHJ, KNX, KPO; 8:30, KFAE; 9, KGW, KPO, KTCL.

Johnson; 10-11, Art Hickman's Biltmore hotel dance orchestra, Earl Burinett, leader.

orchestra, Earl Burtnett, leader.

(NX, Hollywood, Calif. (338.9), 5:20-6:15 p. m., Wirritter pipe organ studio; 6:15, travel talk. W. P. Alder; 6:30-7, Atvater Kent Radio orthestra, Paul Finstein, leader; 7-7:30, program, Beverbyridge Hawatians; 7:30-8, program, Eastern Outflitting company; 8-9, program, West Const theaters; 9-10, Order of Domophistic Dount, Pavis Perfection Erocal Order of Domophistic Dount, Pavis Perfection Erocal

company: 10-11, KNX feature program; 11-12, Abe Lyman's Concanut Grove dance orchestra from Ambassa-dor hotel; 12-2 a. m., Vuriltzer Night Hawks. KPO. San Francisco, Calif. (428.3), 6.15-7 p. m., War-field theater, 7-7:30, Faluec hold connect orchestra. KPOL, Seattle, Wash, (305.3), 7-8 p. m., Silmonds Saw and Steel company; 2-10, Western Auto Supply com-pany; 10-13-12, Earl Gray's Butter hotel orthestra.

An Evening at Home with the Listener In

					Meters Call
	Meters Call 275.8 WJAS 278 KOIL 278 KWWG 278 WCAU 278 WLBL 278 WLBL 278 WRS 280.2 WNAC 280.2 WNAC 285.5 WKAD 285.5 WKAD 285.9 WBA 285.9	Meters Call 313 CNRA 315.6 WAHG 315.6 WAHG 315.6 WAHG 325.9 WSAI 222.4 KOA 225.9 WSAI 236.9 KNX 330 CYX 336.9 KNX 340.7 WKAQ 336.9 KNX 340.7 WKAQ 340.6 WEB 344.6 WEB 344.6 WEB 344.6 WILL 345.2 WWJ		Meters Call	Meters Call 487 KFI 488.5 WCAP 468.5 WCAP 478.9 WBAP 478.9 WFA 478.9 WFA 483.6 WOC 483.6 WOU 483.6 WSUI 483.6 WSUI 483.6 WSUI 483.6 WSUI 483.6 WSUI 483.6 WSUI 508.2 KLX 508.2 WIP 508.2 WHO 516.9 CJCA 516.9 CJCA 526 WHO 526 WWYC
275 WHAD 275 WHAR 275 WORD	305.9 KTCL 305.9 WJAR	356.9 CHNC	400 PWX		535.4 KYW

INSTRUCTIONS FOR USE OF TABLES

INSTRUCTIONS FOR

THE "Evening at Home with the Listener In" table is not difficult to understand and use. It is this fact that makes it so popular with the readers of Radio Digest. It is presented here in three different standard times, Eastern, Central and Pacific. Listeners using one of the three kinds of time named, should utilize the table printed in that time and so designated by its headline. For listeners using the headline of the stable for Pacific time but add one hour to every figure given. Can also use Central time table by subtracting one hour from every figure given.

Listeners using Eastern daylight saving, or Atlantic time: Use Eastern time table by adding one hour to every figure given.

Listeners using Eastern daylight saving the daylight saving for the same control of the same

given.
Listeners using Central daylight saving time: Use Eastern time table. No changes are necessary.

Columbus, Ohio, Station Guides Small Investors Right

Educational Talks to

The periods given in the "Evening at Home" tables are only representative of each station's evening sign-on and sign-off hours, and on Sunday, the late afternoon sign-on and sign-off. If a station has an intermittent rather than continuous program, the table cannot show this. Above is given a list of all stations in the "Evening at Home" tables, arranged in order of the wave lengths used (or supposed to be used) by the stations. This arrangement provides a handy index for the other tables.

The "Evening at Home" tables are corrected every week. The number of changes often run as high as thirty per cent of the whole. Keep the "Evening at Home" tables from the current issue at the side of your receiver.

Home" tables from the current issue a the side of your receiver.

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Sport Lovers to Get Regular Radio Repor Be on WBAV Program

to Give One-Half Hou Bulletins on Baseball

Bulletins on Baseball

NEW YORK.—After several weeks of experimenting, the staff of Station WJ. here has worked out a program for the broadcasting of news of interest to the following of the world of sport whice they think will meet with the hearty approval of all.

On week days, baseball scores of the major leagues will be given inning be inning every half hour, from the hours of to 6 colock, local time, in the after noon. The first report will be made to the Radio audience at 4 o'clock, the next a '4:30, etc., until 6 o'clock when the last afternoon report will be made. At o'clock each week day evening, with the exception of Tuesday, a sporting fin report will be sent out which will is clude a summary of the baseball score for the day, results of all races at loc and other prominent tracks and other b sporting events of the day.

On Tuesdays, the sporting final we give the sporting events of the day.

On Tuesdays, the sporting final we give in the afternoon week days will be omitted but the spot ing final will be broadcast as usual.

Small Investors Right COLUMBUS, O.—Station WBAV here operates approximately 10 hours per week. Of the 10 hours, 15 minutes is devoted to two educational talks. Of the two talks, one is 10 minutes in length and is prepared by the state department of health. The other, of five minutes duration, is devoted to safe investments. Yet five minutes' time each week, taken on Saturday, when laborers and salaried men draw their pay and farmers cash in on their produce, has resulted in a saving probably amounting to thousands of dollars. Each Saturday Karl T. Finn, manager of the Columbus Better Business commission, has his paper ready. In a free and easy manner, Mr. Finn lambasts crooked stocks and bonds and their salesmen. He names firms and their representatives who should be avoided and describes their smooth methods. The result, as attested by the steady stream of mail, demonstrates that would-be investors have been made wary of the get-rich-quiek agents. All in all, it has proven the most practically helpful series of talks ever broadcast by a Columbus station. RADIO SELF STARTER TO AWAKEN SLEEPERS

Automatic Device Will Start Set at Broadcaster's Will

LONDON, Eng.—A time, not far disstant, when broadcasting stations will be able to "call up" listeners just as if they were on the telephone, is the prospect held out by an ingenious but simple invention known as the "Radio Self Starter." The device can be constructed at home and attached to any broadcast receiver.

receiver.

It operates by means of a permanent crystal detector and a pair of relays. Immediately the local station begins transmission the current set up in the receiving aerial, though feeble, is sufficient to actuate the relays, which switch on the operation.

An immediately approximately app

An important advantage of this new invention is that it permits the broadcast-ing station to get in touch with listeners at any time, irrespective of the regular transmitting hours.

THOUSANDS LISTEN TO RADIO BAND CONCER

Attend Concerts Broadcast fr Mall in Central Park

NEW YORK .- Commissioner

NEW YORK.—Commissioner William W. Mills of the department of plants and structuries here, under whose administration Municipal Station WNYC is operated, estimates that upwards of 300,000 people of this city hear the public concerts broadcast four nights a week from the Mall in Central park.

Among the organizations to be heard there through the balance of the summer are George Briegel and his twenty-second regiment band. Mr. Briegel is recognized among musicians as one of the most capable bandmasters in the country.

Hugo Riesenfeld and his orchestra, and a symphony orchestra headed by Nahan Franko will be heard frequently. These concerts begin at 7:15 p. m., eastern time, and are broadcast through WNYC on Monday, Wednesday, Friday and Saturday of each week. Well-known vocal and instrumental soloists are heard with them each performance.

-			W		(I	OR PA	CIFIC	TI	ME)					=
_	all	Met.	-		Sunday :00- 4:00	Menday -	Tuesday		nesday lent	Thursday 5:00- 7:55	Friday Silent	Met. 435	AT	9
C	T9 FCA FCN	435 356.9 434.5	S	ilent 4	:00- 5:00 Silent	Silent Silent	5:15- 6:15 Silent	5:15 Si	- 6:15 lent	5:15- 6:15 7:00- 8:00	Silent	356.9 434.5	CFC	A N
C	HNC	356.9 516.9	S	ilent	Silent	1:305:30	Silent 6:30- 7:00	5:00	lent 7:00	Silent 8:00-10:00	Silent 7:00-11:00	356.9 516.9	CIC	Α,
	KAC	410.7	4:8	0- 9:30 1	:30 - 2:30 :00 - 7:45	Silent Silent	4:30 - 9:30 6:30 - 8:45	Si	lent lent	4:30- 9:30 6:00- 7:00	Silent 6:30-7:45	410.7 384.4	CKA	Y
c	NRA	434.5	l s	ileht 0- 9:30	Silent Silent	Silent Silent	4:30- 5:30 Silent	4:3	lent 0- 9:30	Silent Silent	4:30- 5:30 Silent	313 434.5	CNR	0
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1	CFAU	J 275	5	Silent	1.00- 7.00	7:00- 9:00 Silent	Silent 6:00- 8:30	S	ilent ilent	Silent Silent	7:00- 9:00 6:00- 8:30		KFD	M
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J i	KFNF	F 266	5:	30 - 7:30 4 00-11:00 4	1:30- 7:15 Silent	5:30- 7:30 6:00-10:00	5:30- 7:30 6:00-11:00	5:3	0- 7:30 0-10:00	5:30- 7:30 Silent	5:30-7:30 6:00-11:00	454.3	3 KFC	A
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1	KFVE	E 240	8:	00-10:00 Silent	Silent	8:00-10:00 8:00-10:00	8:00-10:00 Silent	. 8:0	0-10:00 0-10:00	Silent Silent	8:00-10:00 8:00-10:00	261	KEY	VA
	KFW KGO	361.	7:	00-11:00 9	3:30-11:00 3:30- 9:00	6:30-11:00 8:00- 1:00	7:45-11:0 8:00- 1:0	0 8	00-11:00 ilent	7:00-11:00 8:00- 1:00	7:00-11:0 Silent	361.	2 K	GO
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1	KIAF	42 384	T -	Silent	2:00- 3:00 7:00- 8:00	7:00-8:00 7:00-11:00	Silent	7:	00-8:00 00-10:00	Silent 8:30-12:00	7:00- 8:0 8:30-11:0	0 384.	.4 K	JR
	KJR KJS KLD	293	.9	Silent	7:15- 9:30 4:30- 8:00	Silent Silent	8:00- 9:0 6:00- 7:0	0 8	Silent Silent	8:00- 9:00 6:00- 7:00	Silent Silent	293. 440.	g KL	DS
1	KLX	508	.2	Silent :00- 2:00	Silent 5:00-11:00	6:00-11:00 6:30-12:00	Silent 6:30-12:0	0 7:	00-11:30 00-10:00	Silent 6:30-12:00	6:00-10:8 6:30-12:0	0 336.	.9 K	NX
	KOA	322	.4 7	:00- 8:00	3:00-11:00 3:00- 8:00 5:30- 6:30	5:30- 8:00 5:30- 6:30	Silent 5:30-10:0	0 5:	30- 8:00 30- 6:30	Silent 5:30- 7:00	5:30-8:0 5:30-10:0	0 322	8 K	OA
-	KPO KPB	428	.3 6		6:30-10:00 6:00- 7:00	6:30-11:00 5:30- 8:00	6:30-11:0 5:30- 8:0	0 6:	30-11:00 30- 8:00	6:30-11:00 5:30- 8:00	7:00-11:0 Silent	269	.9 KF	PO
1	KSL	299	.8 7	:00-10:00	8:00-10:00 7:50-10:10	7:00-10:00 8:00-10:00	8:00-10:0 7:00- 9:0	0 7	:00-10:00 :00-11:00	7:00-10:00 6:30- 7:30	8:00-10:0	0 305	.9 KT	CL
9	KTH	8 374	.8 7	:25- 8:25	7:25- 8:00	7:25- 8:25	7:25- 8:2 Silent	5 7:	25- 8:25 Silent	7:25- 8:25 Silent	7:25- 8:5 Silent	374		TW
f	KWV	WG 27	8 6	:30 - 7:30	7:00- 9:30 Silent	Silent Silent Silent	6:30- 7:3 4:00- 8:3	30	Silent :00-10:30	6:30- 7:30	Silent	27	8 KW	W G Y W
t	NAA	434	1.5	Silent	1:00- 2:00 Silent	4:45- 5:00 Silent	4:45- 5:6 Silent	0 4:	25- 5:40 30- 8:00	4:45- 5:00	4:45- 5:	10 434	1.5 N	WX
e	WA	HG 31	5.6	:30- 8:00	Silent Silent	4:00-10:00 Silent	Silent 8:00- 9:	3	30- 8:00 :00- 9:30	Silent	4:00- 7: 8:00- 9:	30 315 00 243	5.6 WA	HG
£	WA!	AP 47.		5:00- 6:00	9:00-10:00 8:00-10:00	5:30-10:00 7:00- 8:00	5:30- 8: Silent	15 5	:30 - 8:45 :00 - 7:00	5:30- 8:45	5:30-8: Silent	15 475	5.9 WI	BAP
3	WB/	AV 29	3.9	Silent	Silent	5:00- 7:00	Silent 5:00- 9:		Silent :00- 7:00	Silent	5:00- 6:	00 293	3.9 WE	BAV
е	WBI	BR 27	2.6	5:00- 9:00 4:00- 5:00	1:00-11:00 4:00- 5:30	Silent 4:00- 5:00			Silent :00- 9:00	4:00- 5:0	Silent	273	2.6 W	BBR
=	WB	Z 33	3.1	Silent	2:00- 9:00 4:00- 6:45	Silent 3:00- 6:55	3:00- 6:	55 3	:00- 6:55 :00- 6:00	3:00- 6:5	3:00- 6: 4:00- 6:	55 33	3.1	WBZ
	WC	AE 46	75 1.3	Silent 4:30- 5:30	Silent 2:30-3:30	4:00 - 6:00 4:30 - 8:00	4:00- 7:	00 4	:30 - 8:00	4:00-7:0	4:00-7:	00 46	1.3 W	CAE
t	WC	AU 2	8.5 78	Silent	1:00- 6:15 Silent 6:00- 7:00	4:00- 7:30 Silent 5:00- 7:30	2:30- 7	30 2	:30 - 7:30 Silent	2:30- 7:3 5:00- 7:3	0 2:30- 7	30 2	78 W	CAU
•	WC	CO 41		Silent 4:05-9:00	5:20- 8:15	4:00- 7:00	4:00- 7		:00-10:3	4:00-7:0	0 4:00-11	00 41	6:4 W	CCO
r	WC	X 51	6.9	Silent 3:00- 4:00	3:20- 7:15 3:00- 4:00	Silent 3:00- 6:3	Silent 3:00-8		1:00- 5:0 3:00- 6:3 1:00- 7:1		0 3:00- 6	:30 51	6.9	WCX
	WD	WF 4	10.9	4:00-11:00 Silent	2:00- 3:30 1:00- 2:45	4:00-7:3 Silent	4:00-11	:30	Silent	Silent	2:00- 8	:30 44	10.9 W	DWF
of		A0 2	93.9	2:00- 8:00 Silent	3:20- 6:15 Silent	Silent	Silent		2:00 - 8:0 5:00 - 6:0 4:00 - 5:0	0 5:00-6:0	0 Silent	29	3.9 W	EAR
16	WE	BH 3	70.2	4:30- 5:00 4:30- 9:80	11:39- 4:00 4:00- 6:00	Silent	4:30- 9	:30	4:30- 5:0 4:30- 5:0 3:00- 5:0	0 4:30- 9:	4:00- 8	:30 37	70.2 W	EBH
ne ch	WE	E1 4	75.9	Silent	3:20- 6:20	Silent 4:00- 7:0	0 4:00- 7	:00	4:00- 7:0	0 4:00- 7:	00 4:00- 7	:00 4:	75.9	WEE
p.	. WF		75.9 72.6	6:30-10:00 7:30-10:00	4:30- 9:00 1:00- 4:00	7:30-10:0	0 7:30-10	:00	Silent 7:30-10:0	4:30-10: 7:30-10:	7:30-10	:00 2	72.6 W	/FBH
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01	W	GES	15.6 250	2:00- 8:00 7:30-11:00	5:30- 6:30 7:30-11:00	Silent	2:00- 8 7:30-1	:00	Silent 7:30-11:	2:00-9: 00 7:30-11:	00 7:30-1	1:00		WGES WGES
r	W	GR	70.2 319	3:30- 8:80 4:45- 6:15	6:00-7:0	4:00- 9:0	3:30- 0 4:00-	00:	3:30- 8: 4:00- 9:	00 4:00- 7	00 3:00-	00:6	319	WG
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h	8 WI	HAR S	275 399.8	3:30- 6:30 5:30- 7:00	5:00- 8:0	0 3:30-5: 0 Silent	00 3:30- 5:30-	9:00 7:30	Silent 5:30- 7:	3:30- 6 00 5:30- 7	00 5:30-	7:00 3	399.8	WHA
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oa oi	gw		226	4:00-10:00 3:00- 5:00 4:00- 8:00	9:00- 7:3	0 4:00-10: 0 Silent	3:00-1	2:00	4:00-10 3:00-9	:00 4:00-10 :00 3:00-12			399.4 226 508.2	WH WIB
i.	11 W	JAR	508.2 305.9	4:00- 8:05 Silent	3:20- 6:1	Silent 4:00- 6:	4:00- 00 4:30-	7:00	Silent 3:30- 4	:30 4:00- 7	:00 4:00-	8:00	305.9	MIA
56	8 W	JAS	275.3 302.8	3:00- 8:00 3:45-10:00	Silent 5:45- 7:6	3:00- 8:	00 3:00- 00 3:45-1	0:00	3:00- 8 3:45- 7	:00 3:00- 8 :00 Silent	3:30-	7:00	275.3 302.8	WIN
0	n W	JZ	405.2 454.3	Silent 3:00- 7:3	4:15- 5: 0 4:00- 7:	15 Silent 00 4:15- 5	4:30- 4:10-	7:15	Silent 5:30- 7	:30 4:30- 7		6:45	405.2 454.3	W
•	W	KAQ	340.7 285.5	Silent 9:30-11:0	4:00-6:	00 Silent	Sile	nt I	4:00 - 6 5:00 - 6	:00 Silen	Sile	nt nt	285.5	WKA
	W	KRC	326 278	7:00- 9:0 Silent	0 3:45- 8: Silent	00 5:00- 7 Silent	6:00-	9:00	5:00- 7	:00 Silen	Sile	nt	326 278	WK
)	W	LIT LS	394.5 344.6	3:30- 4:3 4:45-10:0	0 Silent 0 4:30- 5:	3:30- 7 Silent	:00 Sile:	nt 10:00	3:30- 7 4:00- 8	:00 Silen	3.30-	7:00 8:30	394.5 344.6	WL
ľ	S	/LW	422.3	3:00- 5:0	3:30- 5: Silent	5:30- 7	:30 4:00-	7:00	4:00- 8	8:00	9:15 Sile	nt nt	422.3	WMA
	W	VMAQ	265.5 447.5	Silent 5:00-7:0 4:00-7:3	6 Silent	Citiont	5:00-	7:15	Silen 5:00- 6 4:00- 7	8:00- 3:45 5:00- 7:30 4:00-	:15 5:00- 7:30 4:00-	7:15	447.5 250	WM.
ונ	W		250 384.4	3:30- 9:0	0 3:30- 9:	5 - 20 - 7	:00 3:30-	9:00 10:00	3:30- 5	5:30-	0:00 3:80-	9:00	384.4 499.7	W M
	1.	VMC VMCA VNAC	499.7 340.7	5:30- 7:3 2:30- 8:0	0 3:00- 3:	30 2:30- 8 30 4:00- 6	1:00 2:30	8:00	2:30- 4 4:00- 6	8:00 2:30- 6:00 4:90-	8:00 2:30	8:00	340.7 280.2	WM
a	ad V	WNAC WNYC WOAI	280.2 526 394.5	4:00- 6:0 2:30- 6:2 6:30- 7:3	5:00- 7: 30 6:00- 8	001 2:00- 7	:00 3:20	6:20	3:30- 6:30-	6:30 Siler 7:30 7:30-	t 3:30 8:30 6:30	6:20 8:30	526 394.5	WN
r	a-	WOAN WOAW	394.5 282.8 526	Silent 4:00-10:0	7:00- 8	00 7:00- 8	1:00 7:00	8:00	7:00- Silen	8:00 7:00- t 4:00-	8:00 7:00 8:00 4:00	8:00	282.8 526	WO.
r	le v	NOC .	483.6	4:30-10:0	6:00- 9	:30 Silen	t 4:30	6:00	4:30-	8:00 4:30-1	0:00 4:30	8:00	483.6	W
t		WOK WOO	217.3	3:30- 4:	30 12:45- 3	:00 3:30-	7:30 3:30	10:00 4:30	7:00-1 3:30- 2:15-	0:00 7:00-3 7:30 3:30- 8:00 2:15-	0:00 7:00 4:30 3:30	-10:00 - 7:30 - 3:30	217.3 508.2	W
	1	WORD	405.2	2:15- 8:	00 Silent 30 3:45- 5	2:15- 3	3:00 2:15 3:45 5:30	- 3:30 - 7:00	5:30-	7:00 5:30-	7:00 5:30	7:30	405.2 275	WO
n	er	WOS WPG	440.9 299.1	Silent 3:00- 8:	5:30- 6 5:00- 7	:00 3:00-	8:00 Sil 7:30 4:00	ent - 7:00	6:00- Siler	8:00 Sile	8:15 3:00	- 8:00 - 7:00	440.9 299.8	W
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	St	WRC WREO	468. 285.	5 4:00- 8: 5 7:00- 8:	30 Silent	Siler	t 4:00	- 9:00 - 6:45	Siler	at 4:00-	6:45 St	lent lent	468.5 285.5	W
a	nd !	WRW	273	6:00- 8:	30 5:00- 8	6:00-		- 8:30	6:00-	8:30 6:00-		- 8:30	1-	W
ļ	se	WSAI WSB	325. 428.	3 6:00-10:	00 5:30- 7	:15 6:00-1	0:00 6:00	- 7:00 -10:00	8:45-1	10:00 6:00-	10:00 6:00	lent -10:00	325.9 428.3	1
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0	of		1.001	4 2.00- 9	on Silen	0.00	- TOTAL 1999	lent	3:00-	10:00 Sile	1 63	lent	389.4	W

An Evening at Home with the Listener In

	(FOR CENTRAL TIME)					(Tabular form and listings copy- righted. Reproduction is forbidden.) (FOR				OR EASTERN TIME Or Cities Using Central Daylight Saving Time)								
Call AT9	Saturday	Sunday 5:00- 6:00	Menday	Tuesday	Wednesday	Thursday 7:00- 8:55	Friday	Call AT9	Location Fort Bragg, N. C	Met. 435	Million of Street and Company	Sunday	Monday	Tuesday	Wednesday		Friday	Call
CFCA CFGN CHNC	Silent 11:00- 1:00 Silent	6:00- 7:00 Silent Silent	Silent Silent 6:30- 7:30	7:15- 8:15 Silent Silent		7:15- 8:15 9:00-10:00 Silent	Silent Silent	CFCA CFCN	Calgary, Aita	356.9 434.5	Silent Silent 12:00- 2:00	6:00- 7:00 7:00- 8:00 Silent	Silent Silent Silent	Silent 8:15-9:15 Silent	Silent 8:15- 9:15 Silent	8:00-9:55 8:15-9:15 10:00-11:00	Silent Silent Silent	GFCA GFCN
CKAC	10:00-12:00 5:30- 9:30	8:30- 9:30 Silent	8:30-10:30 Silent	8:30-9:00 5:30-9:30	7:00- 9:00 Silent	10:00-12:00 6:30-7:30	Silent	CHNC	Terente, Ont Edmonton, Can Montreal, Que	356.9 516.9 410.7	Silent 11:001:00 6:30-10:30	Silent 9:30-10:30 Silent	7:30-8:30 9:30-11:30 Silent	Silent 9:30-10:00 6:30-10:30	Silent 8:00-10:00 Silent	Silent 11:00- 1:00 7:30- 8:30	Silent 10:30- 1:00	CHNC
CKY CNRA CNRO	Silent Silent 6:30-11:30	7:00- 9:45 Silent Silent	Silent Silent Silent	8:30-10:45 6:30- 7:30 Silent	Silent Silent 6:30-11:30	8:00-9:00 Silent Silent	8:30- 9:45 6:30- 7:80 Silent	CKY CNRA CNRO	Moneton, Can	384.4 313 434.5	Silent Silent	8:00-10:45 Silent	Silent Silent	9:30-11:45 7:80- 8:30	Silent Silent	9:00-10:00 Silent	Silent 9:30-10:45 7:30- 8:30	CKAC
CYL	10:30-11:45 Silent	Silent	Silent	9:15- 10:15	Silent	Silent	Silent	CYB	Mexico City, Mex Mexico City, Mex	370	7:30-12:30 11:30-12:45 Silent	Silent Silent Silent	Silent Silent Silent	Silent 10:15-11:15 11:00-12:30	7:30-12:30 Silent	Silent Silent	Silent Silent	CNRO
KDKA KFAB	Silent 7:45- 8:55 6:00- 7:00	Silent 6:00- 7:00 4:00- 5:00	9:15-10:30 7:45- 8:55 6:00- 9:30	7:45-10:30	Silent 7:45- 8:55 6:00- 9:30	Silent 7:00-10:30 Silent	9:15-10:45 7:45- 8:55	KDKA	Mexico City, Mex Pittsburgh, Pa	330 309.1	Silent 8:45-9:55	Silent 7:00- 8:00	10:15-11:30 8:45- 9:55	Silent 8:45- 9:30	Silent Silent 8:45- 9:55	Silent Silent 8:00-11:30	11:00-12:30 10:15-11:45 8:45- 9:55	CYL CYX KDKA
KFAE KFAU KFDM	Silent Silent	Silent Silent 8:00- 9:00	Silent 9:00-11:00	Silent Silent	9:30-11:00 Silent	Silent Silent	6:00- 9:30 Silent 9:00-11:00	KFAE	Pullman, Wash Boise, Idaho	340.7 348.6 275	7:00- 8:00 Silent Silent	5:00- 6:00 Silent Silent	7:00-10:30 Silent 10:00-12:00	7:00- 8:00 Silent Silent	7:00-10:30 10:30-12:00 Silent	Silent Silent Silent	7:00-10:30 Silent	KFAB KFAE KFAU
KFMQ	Silent 8:45- 2:00 Silent	6:00- 1:00 Silent	Silent 8:45-1:00 Silent	8:00-10:30 8:45- 1:00 9:00-10:00	Silent 8:45- 1:00 7:30- 8:30	Silent 8:45- 1:00 Silent	8:00-10:30 8:45- 1:00	KFI	Los Angeles, Calif	315.6 467	Silent 9:45- 3:00	9:00-10:00 7:00- 2:00	Silent 9:45- 2:00	9:00-11:30 9:45- 2:00	Silent 9:45- 2:00	Silent 9:45- 2:00	9:00-11:30 9:45- 2:00	KFDM KFI
KFNF KFOA KFRU	7:30 - 9:30 8:00 - 1:00	6:30- 9:15 Silent	7:30-9:30 8:00-12:00	7:30-9:30 8:00-1:00		7:30- 9:30 Silent	Silent 7:30- 9:30 8:00- 1:00		Fayetteville, Ark Shenandoah, Ia Seattle, Wash	299.8 266 454.3	Silent 8:30-10:30 9:00- 2:00	Silent . 7:30-10:15 Silent	Silent 8:30-10:30 9:00-1:00	10:00-11:00 8:30-10:30 9:00- 2:00	8:30-9:30 8:30-10:30 9:00-2:00	Silent 8:30-10:30	Silent 8:30-10:30	KFMQ
KFU0 KFVE	7:30-12:00 Silent 10:00-12:00	5:00- 7:00 8:15- 9:15 Silent	7:00-10:80 8:00- 9:00 10:00-12:00	Silent	8:00-10:30 9:15-10:15 10:00-12:00	Silent Silent	11:00- 1:00 Silent 10:00-12:00	KFUO	St. Louis, Mo	394.5 545.1	8:30- 1:00 Silent	6:00- 8:00 9:15-10:15	8:00-11:30 9:00-10:00	11:30-1:00 Silent	9:00-11:30 10:15-11:15	Silent 11:30-12:30 Silent	9:00- 2:00 12:00- 2:00 Silent	KFOA KFRU KFUO
KFWA KFWB KGO	9:00- 1:00 10:00- 3:00	Silent 11:00- 1:00 5:30-11:00	10:00-12:00 8:30-1:00 10:00-3:00	Silent 9:45- 1:00	10:00-12:00 9:00-1:00	Silent 9:00-1:00 10:00-3:00	10:00-12:00 9:00- 1:00	KFWA KFWB	University City, Mo Ogden, Utah Hollywood, Calif	240 261 252	11:90- 1:00 Silent 10:00- 2:00	Silent Silent 12:00- 2:00	11:00 - 1:00 11:00 - 1:00 9:30 - 2:00	11:00- ь:00 Silent 10:45- 2:00	11:00- 1:00 11:00- 1:00 10:00- 2:00	Silent Silent 10:00-2:00	11:00- 1:00 11:00- 1:00 10:00- 2:00	KFVE KFWA KFWB
KGW	8:00- 2:00 7:30- 1:00	9:45-11:00 8:00- 1:00	Silent 9:00- 3:30	10:00- 2:00 10:00- 2:00 7:30- 1:00	Silent 8:00- 1:00 7:30- 1:00	10:00- 2:00 7:30- 1:00	8:00-12:30	KGW KGW	Pertland, Calif Los Angeles, Calif	361.2 491.5 405.2	9:00- 3:00 8:30- 2:00	6:30-12:00 10:45-12:00 9:00- 2:00	II:00- 4:00 Silent 10:00- 4:30	11:00- 4:00 11:00- 3:00 8:30- 2:00	Silent 9:00-2:00 8:30-2:00	11:00- 4:00 11:00- 3:00	Silent 9:00- 1:30 8:30- 2:00	KGO KGW
KIAF KJR KJS	Silent Silent Silent	4:00-5:00 9:00-10:00 9:15-11:30	9:00-10:00 9:00-1:00	Silent Silent	9:00-10:00 9:00-12:00	Silent 10:30- 2:00	9:00-10:00 10:30- 1:00	KIAF KJR	Sihtipok, Minn Seattle, Wash	421 384.4	Silent Silent	3:00-4:00 10:00-11:00	8:00- 9:00 10:00- 2:00	Silent	8:00- 9:00 10:00- 1:00	8:30- 2:00 Silent 11:30- 3:00	8:00- 9:00 11:30- 2:00	KIAF
KLDS KLX KNX	Silent	6:30-10:00 Silent	Silent Silent 8:00-1:00	10:00-11:00 8:00- 9:00 Silent	Silent Silent 8:00- 1:30	10:00-11:00 8:00- 9:00 Silent	Silent Silent 8:00-12:30	KIS KLDS KLX	Los Angeles, Calif Independence, Mo Oakland, Calif	293.9 440.9 508.2	Silent Silent Silent	7:30-11:00 Silent	Silent Silent 9:00-2:00	11:00-12:00 9:00-10:00 Silent	Silent Silent 9:00- 2:30	11:00-12:00 9:00-10:00	Silent Silent 9:00-1:30	KLDS KLX
KOL	10:00- 4:00 9:00-10:00 7:30-12:00	7:00-1:00 5:00-10:00 7:30-9:00	8:30- 2:00 7:30-10:00 7:30-12:00	8:30-2:00 Silent 7:30-12:00	9:00-12:00 7:30-10:00 7:30-12:00	8:30- 2:00 Silent 7:30-12:00	8:30-2:00 7:30-10:00 7:30-12:00	KOA	Hellywood, Calif Denver, Cale Council Bluffs, Ia.	336.9 322.4 278	11:00- 5:00 10:00-11:00 8:30- 1:00	8:00- 2:00 6:00-11:00 8:30-10:00	9:30- 3:00 8:30-11:00 8:30- 1:00	9:303:00 Silent 8:30- 1:00	10:00- 1:00 8:30-11:00	Silent 9:30- 3:00 Silent	9:30-3:00 8:30-11:00	KNX
KPO KPRC KSL	8:35-2:00 7:30-10:00 9:00-12:00	8:30-12:00 8:00-9:00 10:00-12:00	8:30-1:00 7:30-10:00 9:00-12:00	8:30-1:00 7:30-10:00 10:00-12:00	8:30-1:00 7:30-10:00 9:00-12:00	8:30-1:00 7:30-10:00 9:00-12:00	9:00-1:00	KPO KPRC	San Francisco, Calif Houston, Texas	428.3 296.9	9:35- 3:00 8:30-11:00 10:00- 1:00	9:30-1:00 9:00-10:00	9:30- 2:00 8:30-11:00	9:30-2:00 8:30-11:00	8:30-1:00 9:30-2:00 8:30-11:00	8:30-*1:00 9:30-2:00 8:30-11:00	8:30- 1:00 10:00- 2:00 Silent	KOIL KPO KPRC
KTCL KTHS KWWG	S:30- 2:00 9:25-10:25 8:30- 9:30		10:00-12:00 9:25-10:25	9:00-11:00 9:25-10:25	9:00-11:00 9:25-10:25	8:30-12:00 8:30- 9:30 9:25-10:25	9:00- 2:00 -9:25-10:25	KTCL	Salt Lake City, Utah Seattle, Wash Hot Springs, Ark	299.8 305.9 374.8	9:30- 3:00 10:25-11:25	11:00 - 1:00 10:50-12:10 10:25-11:00	10:00- 1:00 11:00- 1:00 10:25-11:25	11:00- 1:00 10:00-12:00 10:25-11:25	10:00-1:00 10:00-12:00 10:25-11:25	10:00 1:00 9:30-10:30 10:25-11:25	11:00- 1:00 10:00- 3:00 10:25-11:25	#KTCL KTHS
KTW	Silent 6:00-12:30	9:00-11:30 3:00- 4:00	Silent Silent Silent	8:30- 9:30 Silent 6:00-10:30	Silent Silent 6:00-12:30	8:30- 9:30 Silent	Silent	KWWG KTW KYW	Seattle, Wash	278 455	9:30-10:30 Silent	Silent 10:00-12:30	Silent	9:30-10:30 Silent	Silent	9:30-10:30 Silent	Silent	KWWG KTW
NAA PWX WAHG	Silent 7:30-10:00 11:00- 1:00	Silent Silent Silent	6:45- 7:00 Silent 6:00-12:00	6:45- 7:00 Silent	6:25- 7:40 7:30-10:00	6:00-10:30 6:45- 7:00 Silent		NAA.	Radio, Va Havana, Guba	535.4 434.5 400	7:00- 1:30 Silent 8:30-11:00	4:00- 8:00 Silent Silent	Silent 7:45-8:00 Silent	7:00- 11:30 7:45- 8:00 Silent	7:00- 1:30 7:25- 8:40 8:30-11:00	7:00- 11:30 7:45- 8:00 Silent	7:00- 1:30 7:45- 8:00 Silent	NAA PWX
WAMD WBAP WBAR	10:00-11:00 7:00- 8:00	2:00-10:00 11:00-12:00	Silent 7:30-12:00	Silent 10:00-11:00 7:30-10:45	5:30-10:00 10:00-11:30 7:30-10:45	Silent 10:00-11:30 7:30-10:45	6:00-9:30 10:00-11:00 7:30-10:45	WAMD	Richmond, N. Y	315.6 243.8 475.9	12:00-2:00 11:00-12:00 8:00-9:00	Silent 3:00-11:00 12:00- 1:00	7:00- 1:00 Silent 8:30- 2:00	Silent 11:00-12:00 8:30-11:45	6:30-11:00 11:00-12:30 8:30-11:45	Silent 11:00-12:30 8:30-11:45	7:00-10:30 11:00-12:00 8:30-11:45	WARG WAMD WBAP
WBAV	Silent Silent 7:00-11:00	3:00-11:00 Silent 3:00-1:00	9:00-10:00 7:00- 9:00 Silent	Silent Silent 7:00-11:00	8:00- 9:00 Silent 7:00- 9:00	7:30- 8:30 Silent	Silent 7:00- 8:00	WBAR WBAV	Columbus, O	406 293.9	Silent Silent	11:00-12:00 Silent	10:00-11:00 8:00-10:00	Silent Silent	9:00-10:00 Silent	8:30-11:46 8:30- 9:80 Silent	Silent 8:00- 9:00	WBAR WBAV
WBBR WBCN WBZ	6:00-7:00 8:00-12:00	6:00~ 7:30 4:00-11:00	6:00-:7:00 Silent	Silent 8:00-12:00	Silent 7:00-11:00	7:00-11:00 6:00- 7:00 8:00- 1:00	8:00-12:00	WBBR	Chicago, III	226 272.6 266	8:00-12:00 7:00- 8:00 9:00- 1:00	4:00 - 2:00 8:00 - 9:30 5:00 - 12:00	Silent 7:00- 8:00 Silent	8:00-12:00 Silent 9:00- 1:00	8:00-10:00 Silent 8:00-12:00	8:00-12:00 7:00- 8:00 9:00- 2:00	8:00-10:00 Silent 9:00- 1:00	WBBM WBBR WBCN
WCAC	Silent Silent 6:30- 7:30	6:00~ 8:45 Silent 4:30~ 5:30	5:00- 8:55 6:00- 8:00 6:30-10:00	5:00- 8:55 Silent 6:00- 9:00	5:00- 8:55 6:00- 8:00 6:30-10:00	5:00- 8:55 Silent 6:00- 9:00	5:00- 8:55 6:00- 8:00 6:00- 9:00	WCAC	Springfield, Mass Plainfield, Conn Pittsburgh, Pa	333.1 275	Silent Silent 7:30- 8:30	7:00-, 9:45 Silent 5:30- 6:30	6:00- 9:55 7:00- 9:00 7:30-11:00	6:00- 9:55 Silent	6:00- 9:55 7:00- 9:00	6:00- 9:55 Silent	6:00- 9:55 7:00- 9:00	WCAC
WCAP WCAU WCBD	Silent Silent Silent	3:00- 8:15 Silent 1:30- 9:00	6:00-9:30 Silent 7:00-9:30	Silent 4:30-9:30 Silent	6:00- 9:30 4:30- 9:30 Silent	Silent 4:30- 9:30 7:00- 9:30	6:00- 9:00 4:80- 9:30	WCAU	Washington, D. C Philadelphia, Pa	461.3 468.5 278	Silent Silent	4:00- 9:15 Silent	7:00-10:30 Silent	7:00-10:00 Silent 5:30-10:30	7:30-11:00 7:00-10:30 5:30-10:30	7:00-10:00 Silent 5:30-10:30	7:00-10:00 7:00-10:00 5:30-10:30	WCAE WCAP WCAU
WCCD	6:05-11:00 Silent	4:10-10:15 5:20- 9:15	6:00-11:00 Silent	6:00- 9:00 Silent	6:00-12:30 6:00- 7:00	6:00-10:00 8:00- 9:00	6:00-11:00 Silent	WCCO	MinnSt. P., Minn Wercester, Mass	344.6 416.4 268	7:05-12:00 Silent	5:10-11:15 6:20-10:15	8:00- 10:30 7:00-12:00 Silent	7:00-10:00 Silent	7:00- 1:30	8:00-10:30 7:00-11:00	7:00-12:00	WCBD
WCX WDAF WDWF	5:00- 6:00 6:00- 1:00 Silent	5:00-6:30 4:00-5:30 3:00-4:45	5:00- 8:30 6:00- 9:30 Silent	5:00-10:00 6:00- 1:00 6:30- 7:30	5:00- 8:30 6:00- 9:15 Silent	5:00- 8:30 6:00- 1:00 Silent	5:00- 8:30 6:00- 9:30 4:00-10:30	WDAF	Detroit, Mich	516.9 365.6	6:00- 7:00 7:00- 2:00	6:00- 8:30 5:00- 6:30	6:00-9:30 7:00-10:30	6:00-11:00 7:00- 2:00	7:00-8:00 6:00-9:30 7:00-10:15	9:00-10:00 6:00- 9:30 7:00- 2:00	Silent 6:00-9:30 7:00-10:30	WCTS WCX WDAF
WEAF WEAR	4:00-10:00 Silent 6:00-7:00	5:20- 8:15 Silent 1:30- 6:00	4:00- 9:30 Silent 6:00- 7:00	4:00-10:00 Silent	7:00- 8:00 6:00- 7:00	4:00-10:00 7:00- 8:00	4:00-10:00 Silent	WEAF	Providence, R. I New York, N. Y Columbus, Ohio	440.9 491.5 293.9	Silent 5:00-11:00 Silent	Silent	Silent 5:00-10:30 Silent	7:30-8:30 5:00-11:00 Silent	Silent 5:00-11:00 8:00-9:00	Silent 5:00-11:00 8:00- 9:00	5:00-11:30 5:00-11:00 Silent	WEAF WEAD
WEBJ	6:30-11:80 Silent	6:00- 8:00 Silent	Silent Silent	6:00- 9:00 6:30-11:30 6:00- 7:00	6:30-11:30 5:00- 7:00	6:00-10:00 6:30-11:30 Silent	6:00-10:00 6:30-11:30 6:00- 7:00	WEBH	Chicago, III	389.4 370.2 272.6	7:00- 8:00 7:30-12:30 Silent	2:30- 7:00 7:00- 9:00 Silent	7:00-8:00 Silent Silent	7:00-10:00 -7:30-12:30 7:00- 8:00	7:00-8:00 7:30-12:30 6:00-8:00	7:00-11:00 7:30-12:30 Silent	7:00-11:00 7:30-12:30 7:00-8:00	WEAR
WEEI WFAA WFBH	Silent 8:30-12:00 9:30-12:00	5:20-8:20 6:30-11:00 3:00-6:00	6:00- 9:00 6:30- 9:30 9:30-12:00	6:00- 9:00 6:30-12:00 9:30-12:00	6:00- 9:00 Silent 9:30-12:00	6:00- 9:00 6:30-12:00 9:30-12:00	6:00- 9:00 6:30- 9:30 9:30-12:00		Boston, Mass Dallas, Tex	475.9 475.9	Silent 9:30- 1:00	6:20- 9:20 7:30-12:00	7:30-10:00 7:30-10:30	6:30-10:00 7:30- 1:00	7:00- 9:00 Silent	7:00-10:00 7:30- 1:00	7:30-10:00 7:30-10:30	WEEL
WFI WGBS WGCP	Silent -4:00-10:00 Silent	5:30- 8:15 1:30- 8:30	Silent Silent	6:00-8:00 4:00-10:00	Silent	6:00-9:00 4:00-11:00	Silent Silent	WFI	Philadelphia, Pa New York, N. Y	272.6 394.5 315.6	10:30- 1:00 Silent 5:00-11:00	4:00- 7:00 6:30- 9:15 2:30- 9:30	10:30- 1:00 Silent Silent	7:00- 9:00 5:00-11:00	10:30- 1:00 Silent Silent	10:30-1:00 7:00-10:00 5:00-12:00	10:30- 1:00 Silent Silent	WFBH WFI WGBS
WGES	9:30-1:00 5:30-10:80	5:30-10:00 9:30- 1:00 1:30- 9:00	5:30-10:00 Silent Silent	Silent 9:30-1:00 5:30-10:30	5:30-10:00 9:30-1:00 5:30-10:30	Silent 9:30-1:00 5:30-10:80	5:30-10:00 9:30- 1:00 5:30-10:30	WGES	New York, N. Y Oak Park, III Chicage, III	252 250 370.2	Silent 10:30-2:00 6:30-11:30	6:30-11:00 10:30- 2:00 2:30-10:00	6:30-11:00 Silent Silent	Silent 10:36-2:00 6:30-11:30	6:30-11:00 10:30- 2:00 6:30-11:30	Silent	6:30-11:00	WGCP WGES WGN
WGR	6:45- 8:15 8:00-11:00 6:00- 7:00	1:00- 2:00 5:30-10:00 3:15- 4:15	6:00-11:00 5:30-7:30 6:00-10:00	6:00-9:00 6:10-10:00 6:00-7:00	6:00-11:00 Silent 6:00-12:86	6:00-9:00 5:45-10:30 6:00-10:00	5:00-11:00 6:15- 9:30 6:00- 9:30	WGY	Buffalo, N. Y Schenectady, N. Y	319 379.5 275	7:45- 9:15 9:00-12:00	2:00- 3:00 6:30-11:00	7:00-12:00 6:30- 8:30	7:00-10:00 7:10-11:00	7:00-12:00 Silent	7:90-10:00 6:45-11:30	6:00-12:00 7:15-10:30	WGR
WHAR WHAS WHAZ	5:30- 8:30 7:30- 9:00	7:00-10:00 4:00- 5:00	5:30- 7:00 Silent	5:30-11:00 7:30- 9:30	Silent . 7:30-9:00	5:30- 8:30 7:30- 9:00	5:30-11:00 7:30- 9:00	WHAR	Milwaukee, Wis	275 399.8	7:00- 8:00 6:30- 9:30 8:30-10:00	4:15- 5:15 8:00-11:00 5:00- 6:00	7:00-11:00 6:30- 8:00 Silent	7:00-8:00 6:30-12:00 8:30-10:30	7:00- 1:30 Silent 8:30-10:00	7:00-11:00 6:30- 9:30 8:30-10:00	7:00-10:30 6:30-12:00 8:30-10:00	WHAD WHAR WHAS
WHB	Silent Silent 5:30- 8:00	Silent 8:00- 1:00 5:30-10:00	8:00-10:00 7:00- 8:00 5:30-10:00	Silent Silent 5:30-10:00	Silent 7:00- 8:00 5:30- 9:00	Silent 8:00-10:30 5:30-10:00	Silent 7:00- 8:00 5:30-10:00	WHAZ WHB WHN	Kansas City, Me New York, N. Y	379.5 365.6 361.2	Silent Silent 6:30-9:00	Silent 9:00- 2:00 6:30-11:00	9:00-11:00 8:00- 9:00 6:30-11:00	Silent Silent 6:30-11:00	Silent 8:00- 9:00 6:30-10:00	Silent 9:00-11:30	Silent 8:00- 9:00	WHAZ
WHO. WHT WIBO	Silent 6:00-12:00 5:00-7:00	7:30- 8:30 11:00- 9:30 5:00-11:00	7:30-12:00 6:00-12:00 Silent	7:30-9:00 3:00-12:00 5:00-2:00	6:30-11:30 6:00-12:00 5:00-11:00	7:30-12:00 6:00-12:00 5:00-2:00	7:30-12:00 6:00-12:00 5:00-1:00	WHT	Des Meines, Ia Deerfield, III Chicago, III	526 399.8 226	Silent 7:00- 1:00 6:00- 8:00	8:30-9:30 12:00-10:30	8:30-1:00 7:00-1:00	8:30-10:00	7:30-12:30 7:00- 1:00	6:30-11:00 8:30-1:00 7:00-1:00	8:30- 1:00	WHN WHO WHT
WIP	6:00-10:05 Silent	Silent 5:20- 8:15	Silent 6:00- 8:00	6:00-11:00 6:30- 9:00	Silent 5:30-6:30	6:00-11:00	5:00-1:00 Silent 6:00-10:00	WJAR	Philadelphia, Pa Previdence, R. I	508.2 305.9	7:90-11:05 Silent		Silent Silent 7:00-9:00	7:00-12:00 7:30-10:00		6:00- 3:00 7:00-12:00 7:00-10:00		WIBO
AIM. GILM. SVIM.	5:00-10:00 5:45-12:00 Silent	Silent 7:45- 9:00 6:15- 7:15	5:08-10:00 5:45-12:00 Silent	5:00-10:00 5:45-12:00 6:30- 9:15	5:00-10:00 5:45-12:00 Silent	5:00-10:00 Silent 6:30- 8:00	5:00-10:00 5:45-12:00 6:45- 7:45	WIJD .	Pittsburgh, Pa Mooseheart, III New York, N. Y	275.3 302.8 405.2	6:00-11:00 6:45-1:00 Silent	Silent 8:45-10:00 7:15-8:15	6:00-11:00 6:45- 1:00	6:00-11:00 6:45- 1:00	6:00-11:00 6:45- 1:00	6:00-11:00 Silent	6:00-11:00 6:45- 1:00	WJAS
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Saturday, August 8, 1925

A More Representative Democracy

USE of the Radio by an eastern governor to sound out the people on matters of grave importance pending before the state legislature points out a new and faster way for cooperation between voters and their representatives. The idea of appealing to voters to write to their state and national representatives is almost as old as legislatures, but the old method of appeal takes a great deal of time. It requires the enlistment of a large working force, and very often a great many public meetings to arouse public action. In one meeting, advertised by press and Radio, the speaker can reach by Radio a great audience and, if his arguments are presented in an orderly and effective way, he is assured of a response. If a sufficient number of letters is received, elected officials are almost certain to be swayed in their action by the sentiment expressed.

For three years the Radio audience has been educated in the habit of writing letters of comment on programs and artists. The Radio stations have encouraged the habit because these letters are substitutes for the applause which a performer was accustomed to receive. It is quite natural, therefore for a listener, after hearing an address and a request that he express his views, to write to assemblyman or senator.

A democracy with Radio should prove more represents

that he express his views, to write to assembly man or senator.

A democracy with Radio should prove more representative than a democracy without Radio. Concerted approval or disapproval of a plan of legislative action may now speedily reach the attention of the elected official. Interest in state and national policies should no longer be limited to the casting of a ballot on election day. Common action, produced by a Radio address, should make the citizen feel that this is in fact a government of, for and by the people.

Making Politicians Think

Making Politicians Think

"THE Place and the Power of Radio in Politics," is the title of a recent paper by Dr. Frank W. Elliot, of WOC fame and vice-president of the National Association of Broadcasters. The power of Radio in politics, we believe, has been very well displayed. Both President Coolidge and Candidate Davis last year found it much to their advantage to talk simultaneously from a chain of linked stations to audiences in every section of the country.

However, Dr. Elliot's paper is worth while. In it he has made a very careful analysis of the future of political Radio. In it he also says, "Its (Radio's) power is to compel, the politician to really think before broadcasting."

We hope Dr. Elliot is right. In that case perhaps we have misjudged the average run of politicians. We didn't even dream they ever thought. Except, of course, when it becomes necessary for them to think how they can better themselves to the detriment of someone else, usually the people.

But what can you expect when the best citizens refuse to use their franchise of citizenship to elect the kind of men who can and will think for the people, once they have been elected to office? Perhaps Radio will stimulate the interest in voting so necessary to our common good. That, we should say, would be the biggest thing Radio could ever do for this government.

A Billion Dollars for Radio

A Billion Dollars for Radio
PREDICTIONS for the fall and winter Radio season are hitting high. A large show promoter conservatively estimates that half a billion dollars will be spent for Radio sets, parts and accessories during the next year. An official of a large set manufacturer says one billion dollars is closer to the mark.

Quite a growth?

In 1920 the entire Radio business of the United States summed up a bare two million dollars. Last season it is estimated that between three and five hundred million dollars was turned over in sales. Yes, quite a growth for a period of five years.

Beautiful sets, so handsome they overshadow the furniture of the parlors for which they are intended; perfect receivers, as good as science knows yet how to make, await the fall buying public.

Yes, we believe at least a half billion dollars will be spent this year. Why not?

RADIO INDI-GEST

Maybe She Swam

"A bit of human static was found on the air at 4:30 when the dials revealed a vocal flapper flapping through that grand old-song, "By the Waters of Minnetonika." I hope Mrs. Soprano reads this and recognizes her identity." (Elmer Douglass in Chi Triib). "By the Waters of the Minnetonika" Was the song the flapper flapped And knowing water flaps the shore That's the pun that Elmer sapped.

Orders Radio in His Coffin

Orders Kadio in His Coftin

Sam R. Kimball, aged San Fernando valley rancher, has placed an order with a Los Angeles undertaker for a \$1,200 steel coffin equipped with an up-to-date Radio receiving set, it was revealed today.—News Item.

In view of the foregoing, think what might have happened if certain characters of history had taken transmitters to their honored graves. For instance: King Tut, broadcasting to those who would dig him up: "Please go 'way and let me sleep!" Cleopatra, to those who have been handing out the dirt about her affair with Anthony: "I ain't that kind of a girl!"

girl!" Omar Khayyam, to his publishers: "Cut out all reference to 'Jug of Wine' in revised' U. S. A. version of Rubiayat."

Barwin, after hearing Bryan's Dayton speech broadcast over WGM: "I meant no insult to the monkey group. I had no idea that the human race would ever produce a being such as W. J. B."

Schubert, Wagner, Mozart, and Beethoven, in unison over four station hook-up: "There is no Society of Authors, Publishers, and Composers here so we have named the place Heaven."

The Old Stuff Goeth

The Old Stuff Goeth

"A pick-up was made by Station WGY in the night traffic court of Schenectady, N. Y., and sent by land wire to WJZ and broadcast to the metropolitan audience. Three cases were tried for the benefit of the Radio fans, the first of which was for Drunken and Reckless Driving, the second for Driving without a License, and the last for Speeding. These were real honest to goodness cases and when the judge said \$50, the Radio audience should have been able to hear the tear drops spatter on the courtroom floor as the luckless offender parted with his weekly stipend."

(Press Note)

Try this with your static:

is with your static:
"I'm late I know my darling wife,
But please let me explain—
I lost my cash and near my life
When a bandit held up the train."
"That's all the bink," she said,
"A judge nicked you for your dough
For having moonshine on the headI heard it o'er the Radio."

Another said, "I'm so sorry dear, A friend was sick tonight, So I had to linger near and cheer him in his plight." "Get away with that old stuff. Don't try to fool me so. Some motor cop called your bluff I heard it o'er the Radio."

The old ones are now taboo, All lies will have to go. Wifie has it all on you Over the Radio.

Mizz Partington Returns

From away down in the Tar Heel state comes word that Mizz Partington, until some months back a regular feature in this department, is building a new eight tuber and will soon be with us. "Hold your horses the elephants are coming!"

I Sure Is Good Says Elmer

AM beginning to believe that I am pretty good.
I once thought that I was somewhat superior to other human beings, but now I know I am. I am quite sure. Many people say I am prejudiced and don't know my stuff, but I know I do and they don't, so why worry?

The reason I am good to the life of the same state.

who my study, the respective to the reason I am good is that I know that NWG is good. Nobody else would know it unless I told 'em, so I write regularly telling people how wonderful I am and NWG are. I am afraid people don't appreciate my kind criticisms.

Why, if I didn't criticise broadcasting stations I know my readers would surely tune in some awful station that I don't like and they would. And I couldn't stand that. I want them to tune in NWG, which is always good. Betcha boots. Now be careful, my kind readers, and don't tune in anything I say I don't like, because I am sure my heart would break.

Don't Forget the Stamps

Dear Indi: Why, oh, why do you scorn my contributions? I have sent you three wonderful poems and still I fail to see them in print. If you can't use them send them back so I can submit them to the American Mortician. CRYSTAL SET IKE.

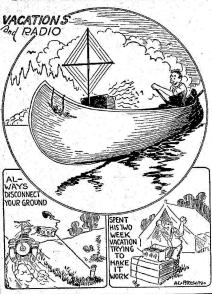
Listen, Ike, it's this way. Your poems were beautiful, but evidently you have never heard the old one about "good verses come in short poems." Cut them down or send a self addressed and stamped envelope for

Rebroadcasting the Old Ones

Dear Indi: I hooked my set to the bed post during the warm weather last week and got "Hot Springs."

CAP.

Summer Radios and Some Are Not



Condensed BY DIELECTRIC

The symphony players again at KDKA, Pittsburgh, were all that one would expect whose receivers had played host on previous occasions. Despite the absence of any modernism to the music of the Magic Flute, few will deny the beauty of the overture to that opera, and it was this selection which won me to a prolonged hearing of that evening's program Lucile Werner should be included where praise is being meted out, for her singing of "My Mother Bid Me Bind My Hair," a Hadyn gem, was splendidly interpreted.

I ran across a good—real good—male quartet the other evening. Haven't found so many since these hot nights have come upon us. Yet that should not pass as explanation. Anyway, those four men did get right into the heart of a medley of old time airs, familiar to our grandmothers, and sang heartily, too. They never resorted to an overdose of pathos, yet their voices were soft with feeling where the "darkies" were referred to and the otherwise hackneyed phrases were newly presented. WSAI, Cincinnati, was responsible for our hearing such a program and we should thank them.

Another of the operatic programs from the studio of WEAF, New York, presented "Martha" (incidentally this is most closely associated in my mind with the great prima donna, Melba). These performances have gone a long way to acquaint many people with the beautiful melodies to be found in grand operas and to disabuse the minds of some as to the real character of such musical productions. Mr. Benedetto has seldom failed to impress one with the seriousness of his art and the singing of Lionel was no exception.

Elgin, Ill., with its WTAS broadcasting station, has something to boast of, even if others outside the immediate vicinity find cause for complaint at times. They were well supplied with excellent material when the evening's entertainment consisted of a group of soloists and an orchestra. Diversity may not guarantee enjoyment, yet it is likely to meet the wishes of a large number of listeners in, and that was precisely what WTAS gave.

It is very improbable that any old time listener would skip over the dial setting for WSB on the dedication date of the wonderful new transmitter at the Atlanta Biltmore hotel. To me it seems as though the "Voice of the South" is synonymous with Radio broadcasting. Each step this dear old southern station has taken, found Dielectric always on hand to rejoice with the owners of one of the most friendly and interesting stations in the land. Three years' reminiscence was crowded into that one program and few of the genuine BCL's tuned out without wishing them all the success in the world. Lambdin Kay is a name thousands do not recognize, though that genial gentleman's voice could not be imitated far.

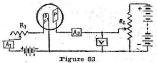
Symphony orchestras are no longer the delight of those only who pack concert halls—thank fortune—but are enjoyed and are the instructors of thousands of Radio listeners today. Comparisons are not in order here and I have no desire to make any, but to any music lover missing the concert given by the Detroit symphony orchestra recently, I have only sympathy. It was a banner evening in the history of classical music broadcasting and if such a program is again presented be sure to get there early. WCX be thanked.

A. B. C. Course in Radio Fundamentais

Chapter XX—Charactertistics of Two and Three Electrode Tubes

By David Penn Moreton

in a two electrode vacuum tube, in which there is a good vacuum, when which there is a good vacuum, when there is, first, a variation in the temperature of the filament and, secondly, a variation in the voltage of the battery connected between the plate and the filament, The connections of the tube for this investigation are shown in figure \$3.



The current through the filament may be varied in value by means of the rheo-stat R₁, and the value of this current is indicated by the ammeter A₁. The voltage applied between the plate and the filaapplied between the plate and the fila-applied between the plate and the fila-ment may be varied in value by moving the sliding contact C along the resistance R₂, the value of the voltage being in-dicated by the voltmeter V, and the value

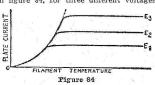
the sliding contact C along the resistance R₂, the value of the voltage being indicated by the voltuneter V, and the value of the current in this circuit by the milliammeter A₂.

Suppose now, that the voltage between the plate and the filament is kept at some constant value and the filament temperature is gradually raised by increasing the filament current. The number of electrons sent out by the filament will continue to increase as the temperature of the filament rises, and there will be a stream of electrons passing from the filament to the plate. Due to this stream of electrons passing from the filament to the plate. Due to this stream of electrons passing from the filament to the plate, there are, at any instant, a number of electrons in the space between the filament and the plate.

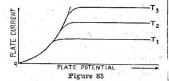
This group or cloud of electrons, between the plate and the filament, produces a negative space charge upon the electrons leaving the filament is opposite to that of the positive plate potential. As the temperature of the filament is increased, there will be an increase in the electrons between the plate and filament, and, hence, an increase in the value of the space charge, until finally the space charge neutralizes the plate potential and there is no further increase in the plate current due to an increase in filament temperature. The tendency of the filament to emit more electrons per second, due to the increased effect which repeis the electrons back into the filament constant.

If the voltage between the plate and the filamenter as in figure 83, with this higher voltage connected to the plate, a larger space charge will be required to offset the effect of the plate potential.

The the roltage connected to the plate, a larger space charge will be required to offset the effect of the plate potential.



between the filament and the plate. Let us now assume that the filament temperature is kept constant and the voltage between the plate and the filament is varied. There will be a definite number of electrons emitted by the filament each second. The magnitude of the plate current will depend upon the number of electrons reaching the plate per second, which in turn depends upon the potential of the plate, the current increasing in value as the voltage between the plate and the filament increases in value. As this voltage is increased, a value is finally reached at which all the electrons emitted by the filament arrive at the plate. When this value of plate voltage is reached, the filament arrive at the plate. When this value of plate voltage is reached, the plate current is a maximum and this value of the current is called the satura-



temperature.

The variation in plate current with plate potential is shown by curve T₁, in figure 85. This curve shows that when the plate potential is zero, there is no plate current and, as the plate potential is zero, there is no plate current and, as the plate potential increases, there is at first a very small increases, there is at first a very small increases, there is at first a very small increase in plate current, but as the plate potential continues to increase, the plate current increase in filament temperature will rise higher in value than, it did before as shown by the curve marked T₂.

Three Electrode Vacuum Tube The three electrode tube described in the last chapter, in the addition of a creasing the current through it, and the plate and the filament and in the plate current through it, and the

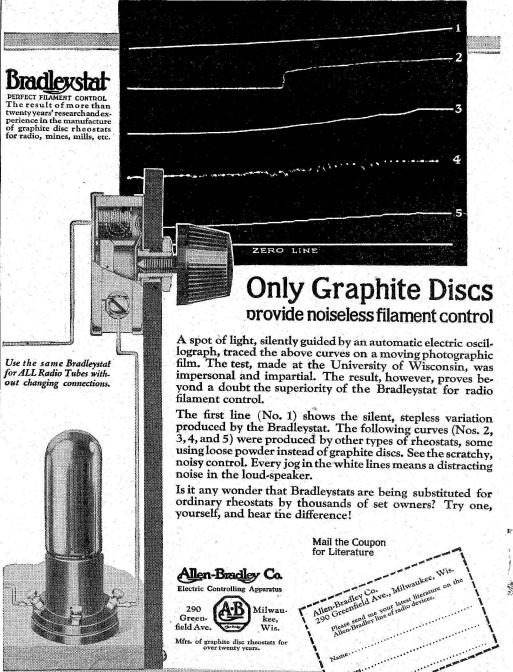
us first consider what happens a two electrode vacuum tube, in hich there is a good vacuum, when hich there is a good vacuum, when the filament and, secondly, a variation in plate current with figure state to voltage of the battery conbetween the plate and the filament, enections of the tube for this intion are shown in figure 83.

It is a variation in plate current with plate potential is shown by curve T₁, in figure 85. This curve shows that when the plate and the filament current must be plate potential is zero, there is neplate current and, as the plate potential is zero, there is neplate current the plate and the filament current will increases, there is at first a very small increases, there is at first a very small increases, there is at first a very small increases, the relate potential continues to increase, the plate current has reached the saturation value as explained above.

If the temperature of the filament above is the last chapter, in the addition of a third electrode you described in the last chapter, in the addition of a third electrode of as shown in figure 85.

The three Electrode Vacuum Tube differs the current will increase in their did before as the plate potential up to a certain point, when the plate are repeated the electrode provides a means of controlling the plate current will increase in flament temperature. Will give the curve marked T₂. A purpositive or negative potential will give the curve marked T₂. A purpositive or negative potential will give the curve marked T₂. A purpositive or negative potential or filament temperature will filament temperature will give the curve marked T₂. A purpositive or negative potential or filament temperature of the filament temperature as the plate potential and the filament current will give the curve marked T₂. A purpositive or negative potential will give the curve marked T₂. A purpositive or negative potential will give the curve marked T₂. A purpositive or negative potential or filament current will give the curve marked T₂

(Continued on page 19)



Radio Inductive Interference and Its Cure

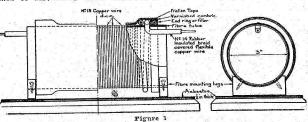
Part II—Means of Suppression

By Radio Branch, Dept. Marine and Fisheries, Canada

In Making all these tests it is important to approach the subject with an unprejudiced mind as to the source of the interference, and before concluding that the interference is caused by any given source, it is well to consider all nossible conditions in which the interference and have originated from some other unknown cause. Investigating interference may have originated from some other unknown cause. Investigating interference is a very fascinating detective same and one would sometimes suppose that the source of the interference had a sense of humor and was trying to evade detection in a manner similar to that of the most clever criminal.

The burns are carefully removed from so as not to cut the insulation. End rings or files as a choke coil and thus prevent the necessity of adding additional choke coils to system.

Blectric Motor Interference by means of a test lamp connected from surging at the brushes, may be interference. Where one wire is further than the leads reversed to reduce the have its le



interference which is caused by electrical apparatus which is defective is to put this apparatus in good condition. The owners of such electrical apparatus are always very pleased to have their attention drawn to the fact that their apparatus is in need of repair, it having been found many times that this Radio interference is the first indication of a fault, which if not attended to, may cause serious damage.

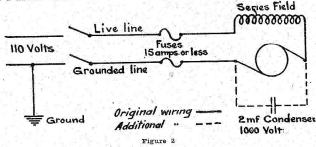
interference is the first indication of a fault, which if not attended to, may cause serious damage.

In cases where the electrical apparatus appears to be in good mechanical and electrical condition it is very often possible to sumply some means of preventing electrical surges, originating in the apparatus, from getting out to the power line where they would radiate and cause interference.

Condenser Prevents Surges Traveling These electrical surges have the property of passing through condensers more readily than through inductances. The method employed therefore, in preventing electrical surges from traveling along the method employed therefore, in preventing electrical surges from traveling along the method employed therefore, in preventing electrical surges from traveling along the method employed therefore, in preventing electrical surges from traveling along the interference, is to provide a path to ground the form of a condenser to filter or drain off this surge. In order to make this filter more effective, it is often advisable to introduce between the line and wis able to introduce between the line and wis source of the disturbance a trap which will make the passage of the surge more difficult. This trap preferably takes the form of a choke coil which consists of a number of turns of wire of sufficient of a number of turns of wire of sufficient stated above.

Condensers which will stand a test voltage of 1,000 volts direct current may be connected across an alternating current or direct current circuit of 250 volts or less. On circuits which are protected by fuses of not more than 15 amperes capacity, no additional fuse is required for the condenser. On circuits protected by fuses of greater than 15 amperes capacity, no additional fuse is required for the condenser cutout base and small fuse (of approved type) not exceeding 15 amperes, must be installed between the condenser and each ungrounded power wire. Where condensers are not installed in metal boxes and are to be placed on wooden surfaces, they should be mounted on pads of asbestos at least % inch thick, and these pads should be sufficiently large to extend beyond the clamps used for holding the condenser in place.

Where condensers are to be used on 550-volt circuits, two condensers of the approved type must be connected in series between the lines, and the common point may be grounded. In such installations the condensers are to be protected by 600-volt directions are to be enclosed in a grounded metal case. Where the condensers are to be connected to two-phase or three-phase circuits not greater than 10 angrounder colorium of the condensers are to be connected to two-phase or three-phase circuits not greater than 60 volts, one



Choke Coil Construction

Choke Coil Construction
A type of choke coil recommended for cases where the current is less than three amperes is constructed according to figure 1. It consists of 100 turns of number 18 double cotton covered copper wire in a single layer wound on a fibre tube 3 inches in diameter, 16 inch thick. Leads are soldered to each end and made from number 14 flexible rubber insulated braid covered copper wire, making one turn around the tube then through a hole in the tube and extending through the inside of the tube a length of one foot.

cient size to carry the required current without overheating, and sufficient insulation to withstand the voltage of the line. These installations should be approved by the local electrical inspector to ensure that there are no fire or accident hazards introduced by the installation.

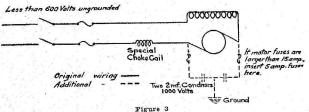
It is important in the design of these choke coils that they should have low distributed capacity in order to prevent electrical surge passing through the choke coil by means of this capacity.

Choke Coil Construction

Condensers similar to Northern Electric company type R-21-AA., 1 mfd., 1,000 volts direct, current, are suitable for installing in metal boxes as described above. Special condensers having number 14 rubber insulated leads, suitable for installing without metal boxes, may be obtained at cost from the Radio Branch, Department of Marine and Fisheries, Ottawa, until such time as some commercial firm stocks them. (This probably only applies to Canadian fans—Editor's Note.)

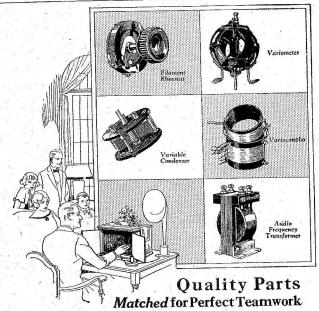
In many cases it is possible to make

In many cases it is possible to make slight changes in the connections of the electrical apparatus causing the surge in order to use some existing apparatus as



capacity across the brushes. See figure 2.

In cases where neither side of the line is grounded, a choke may be inserted on the line connected directly to one of the brushes, while the field coil may act as a choke in the other line. In this case it is recommended to use two 2-microfarads capacity across the contacts of the circuit breaker. As the Radio interference from such sources depends upon the conditions of the installation, it is necessary to make these few experiments, as suggested above, in each case, in order to reduce the interference from a fashing sign installation is caused by make connections with the brushes of a motor, the condenser may be placed across the line as near the motor as possible, and a choke coil may be inserted in the live line when necessary. Instructions for the installation of these units were given above. The live side of a low (Continued on page 20)



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Interesting Work With Oscillating Crystals

Zincite (ZnO) Used By Russian Engineer

By Frederic M. Delano

THE term "oscillating crystal" has been a standard joke among the Radio fraternity for a number of years since it was presumed that the usual crystal rectifiers, as used in reception, were incapable of oscillation and could pass radio frequency current in but one direction. Yet, strange to say, this seeming impossibility has now become not only a possibility, but a workable reality. The oscillating crystal was first developed by a Russian, M. Lossev, and it has been attracting considerable attention in Europe this past few months, with some comment in the press of America. Many and remarkable are the tests, hook-ups and results gained by the Radio amateurs on the Continent and the British Isles. Among the most important perhaps, from the standpoint of practicability, and utility for the average amateur, are those

on the Continent and the British Isles. Among the most important perhaps, from the standpoint of practicability, and utility for the average amateur, are those worked out and actually tested with success by one of M. Lossev's friends, M. Vinogradow, a Radio engineer formerly with a Belgian Radio company and now doing some special Radio work for one of the largest technical magazines in Europe. Develops Lossev's Circuit

The basic hook-up from which these were worked out, by the way, is not the origination of Vinogradow, but he has taken the original idea of Lossev and worked out refinements and helps that formed, ultimately, the circuit shown herewith. Vinogradow says that while there is a wide difference of opinion in Europe, the one group of scientists claiming the escillating crystal useless, the other group that it will soon replace the vacuum tube, he personally is reporting only what he has done himself.

The diagram gives an idea of a receiver made with the Zincite crystal, and, as shown without dotted lines, allows for the reception of the longer wave lengths from 2,600 to 15,000 meters. The batteries, B-1 and B-2 are ordinary dry batteries such as are used in America as C units; B-1 and B-2 are ordinary dry batteries such as are used in America as C units are placed in series. Potentiometer P has a resistance of about 400 ohms (standard on the American market) and may be made of 9 meters—about 99 feet 6 inches—of nickeline wire, 1 mm. in thickness. The unit R is about 900 ohms and should have as large an inductance as possible, a very low distributed capacity and be wound in sections on a multislotted coil. Fill the first narrow slot, then pass to the next and then to the third, much as when winding an untuned radio frequency transformer. It is a good idea to wind with enameled or silk insulated copper wire of about 1,250 feet will be necessary.

The Tuning Circuits

feet will be necessary

ness (No. 36 E. & S.) of which about 1,250 feet will be necessary. The Tuning Circuits

Coil L.-2 should have an inductance of about 0.03 henry, and can be wound on a wooden slotted form 60 mm. (24 inches) long by 20 mm. (74-inch) in diameter. For this, some 475 feet of insulated copper wire will be used, 3 mm to 4 mm. In diameter (No. 24 B. & S. to No. 20 B. & S.). Two honeycomb coils, one of 250 turns and one of 500 turns, can be used. If the inductance is wound by the experimenter, he must be careful to arrange for a tap at the fiftieth turn for the connection to the head recoivers.

The condenser C-2 should be used. Condenser C-1 is shifted from its position across the aerial and ground and placed in series with earlial lead-in and variometer. The condenser C-2 should be of 0.25 mfd. capacity. These also are for sale in the United States, but if the experimenter

000000

Many an interesting hour can be had experimenting with this hook-up.

tions of 50 turns each, or the same size wire.

The Zincite Crystal

The detector is composed of a pointed steel wire of .2 mm. (No. 26 B. & S.) wound in a spiral, and the Zincite crystal (ZnO) mounted in a cup or held by a strong clip. Any of the usual crystal detector mountings can be used at this point. The entire unit, however, should be placed on a piece of felt or soft rubber to increase the stability of the system, and connections to it should be of very flexible wire. The cracks in the crystal itself should be red and the surface black. It is the red part which contains the sensitive points.

wishes to make this unit himself, he must be careful to have each metallic surface of 14.625 square centimeters, if he uses parafine paper 0.1 mm. thick for dielectric Condenser 0-2 has a capacity of .01 mfd. and the surface of each armature (metallic surface) should be 650 square centimeters for parafine paper.

(Editor's Note.—Either Mr. Delanomeant the dimension for the first unit to read 14.625 or that for the second to read 6.50, as obviously the area for the .25 mfd. unit should be larger than that for the 0.01 mfd. unit).

The variometer is made of two colls turning one within-the other, the outer coil or stator, being composed of two sections of 38 turns each, wound with 6 mm to 3 mm. wire (No. 18 B. & S. to No. 16 B. & S.). The interior or rotor part of the variometer is composed of two sections of 50 turns each, of the same size wire.

The Zincite Crystal

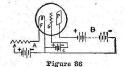
The detector is composed of a nointed

uous wave stations are now heard in whistling notes, damped waves on a sort of blowing note. By means of the potentiometer P, the maximum intensity can be found in just the same manner as one works with regeneration in ordinary tube

sets.
(No effort has been made to describe the entire has been made to describe the construction of a complete set as there is no precedent on which to determine the amount of interest in this subject among American broadcast listeners. If the re-American broadcast listeners. If the response indicates sufficient interest among Radio Digest readers, the technical department will be glad to secure more articles and do more research work with the Zincite crystals.—Editor's Note.)

A. B. C. RADIO COURSE

(Continued from page 17) quite large, and the energy transferred in the plate circuit quite considerable, yet the energy required to charge the grid to the desired potential is extremely small, on account of the small capacity between the grid and the filament.



The operation of the three-electrode vacuum tube may be explained as follows: The tube will operate like a two-electrode tube provided there is no potential difference established between the grid and the filament. Now if the grid is given a negative potential with respect to the filament, for example by connecting a battery, C, with its plus terminal to the filament and its negative terminal to the grid, as shown in figure 86, the space charge effect of the tube will be (Continued on page 21)

Another Ad That We Did Not Write



Aurora, Ill. May 25, 1924.

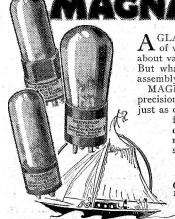
All-American Radio Corp., Chicago, Illinois

Are you the firm that makes the All-American transformers? If so, you sure got the right dope, as I have been helping make different radio outfits and when we used it we always found it right there with the goods. I have tried R-21, R-13, R-12, and all I have to say about it there is <u>none</u> better. R-13 is a bird, and when I told one of the boys to get one, this is what he says about it, "No use testing that one out-she's there." And when a bug says that it is enough.

(Signed) N. R. Diemond, 198 Claim St.

For best and clearest hook-ups send 10 cents for the RADIO KEY BOOK ALL-AMERICAN RADIO CORP. E. N. RAULAND, President 4203 BELMONT AVENUE CH

Largest Selling Transformers in the World



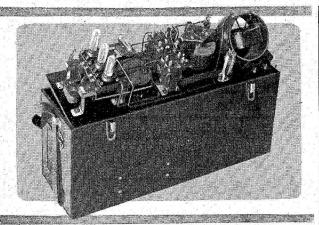
GLASS, a base and some hunks A of wire—Kipling would have said about vacuum tubes. And so they are. But what a difference the method of assembly and manufacture makes!

MAGNATRONS are built with the precision of a fine watch, and tested just as carefully before they leave the factory. You can always count on MAGNATRONS to get the most and the best out of your

Your dealer sells Magnatrons in the type 201-A, 199, and 199 large base.

CONNEWEY ELECTRIC LABORATORIES





Back of panel view of the department's trouble-shooting receiver.

INDUCTIVE TROUBLES

(Continued from page 18)

dealing with interference from commuta

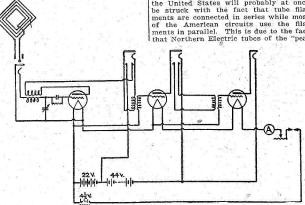
Internal combustion engine ignition systems may cause Radio interference, but this is usually of a very local nature. This, however, may be considerably reduced by making the leads from the magduced by making the leads from the magneto or spark coil to the engine as short as possible and running them in a grounded shield such as metal conduit or lead covered cable. The frame of the engine, magneto, and all shields, should be thoroughly grounded.

Rotary converters sometimes—cause

Radio inductive interference by producing

for bleaching purposes in flour mills sometimes cause Radio inductive interference by producing a surge which travels along primary lines supplying the ozonator. This interference may easily be eliminated by connecting two choke coils of the cylindrical type previously described one in each of the low voltage lines placed as near as possible to the ozonator.

lines placed as accordance of the produced with this article showing the set used by the department for locating Radio inductive interference. This set was also readily discernable in the rear of the truck shown with the first article. The diagram used discernable in the rear of the truck shown with the first article. The diagram used for connecting the various units is given here as figure 4 and the reader living in the United States will probably at once be struck with the fact that tube filaments are connected in series while most of the American circuits use the filaments in parallel. This is due to the fact that Northern Electric tubes of the "pea-

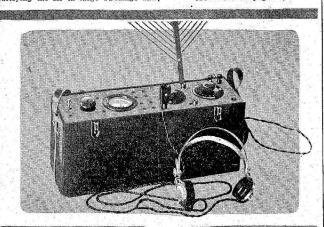


a surge which travels out both on the alternating and direct current lines. In some such cases it may be necessary to introduce choke coils into the alternating current lines and put condensers across the lines between the choke coils and the converter. Before putting these choke coils in the alternating current lines, it is recommended to try the effect of condensers across the brushes as described previously for the case of commutator motors.

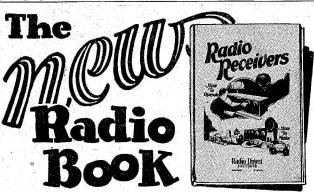
Electric ozonators which are used.

Electric ozonators which are used for purifying the air in large buildings and

The specifications for this set are as follows: The loop is to be pancake wound, outside turn 22 inches square and consisting of 14 turns, spaced % inch. Plate coil consists of 50 turns of number 26 dec. (Continued on page 22)



Filament ammeter is not essential to success if expense is prohibitive



How to ≈ understand radio, assemble circuits, improve reception, operate sets.

VERY phase of Radio reception gathered into one book at last! Explanation of elementary principles, directions for constructing parts, detailed how-to-build articles for the assembly of sets, operating directions on popular manufactured

Haven't you often wondered what all the spirals, wriggly lines and zig-zag lines were about on diagrams? A big chart shows you a picture of the part as you see it and, beside the picture, the symbol used in diagrams. Other articles show clearly just what happens within the mysterious little vacuum tubes that glow hour after hour within your set, apparently without change, yet pass every note of a jazz orchestra or soprano.

Antennas, for whose erection there are seemingly no rules, are covered fully; the reason for a long wire in some locations and a short one in others, is readily grasped by anyone. Crystal sets, one tubers, two tube reflexes, three tube regenerative and reflex outfits, four tube R. F. and neutrodynes, five tube assembliesall types are presented up to the nine tube "super," king of the air.

For the Man That Bought His Set

For the non-technically inclined there is a two-color broadcast map of the country, operating schedules of all the leading stations, call letters and power rating of every station on the air, suggestions for the care of batteries and tubes.

No matter what type of receiver you own, there are dozens of valuable suggestions on tuning, trouble shooting and operating. Your head receivers, loud speaker, antenna and certain parts within the set, require frequent cleaning, adjusting and care. Interference and its remedies are factors you should understand even though you care nothing about "what makes it go."

Compiled by the technical staff of Radio Digest, it represents the high lights of the past twelve months in the Radio field. All this data is indexed for ready reference and logically arranged. Only a few thousand have been printed and this offer will stand for a limited time. The only book of its kind and is FREE with one year's subscription to Radio Digest. This offer good only on subscriptions sent directly to this office, not through agents or agencies.

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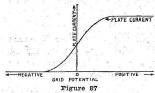
THERE are many little kinks worked out at home that would aid your fellow Radio worker if only he knew about them. There are only, he knew about them. There are new hook-ups, new ways of making parts and various unique ways of operating sets that are discovered every day. Radio Digest is very much interested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

RADIO KINKS DEPARTMENT Radio Digest, 510 North Dearborn St., Chicago

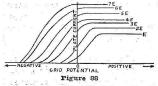
the aerial and add one-half the height to allow the pipes to fasten to the building. Thus, if it is decided that the aerial should be 5 feet above ridge, the pipe would be cut 7½ feet long.
Thread one end of each pipe. Into the other end, drive a wooden plug and screw in a large screweye. Screw an elbow on the other end.
Measure the distance that the cornice projects from the side of the building and cut a short pipe or nipple. Screw this into the elbow and on the other end screw a flange. With a stray fastened near the peak and the flange screwed to the side of the building, these aerial supports are held firmly, and the expense of this neat construction is small.—H. A. Thompson, Utica, N. Y.

A. B. C. RADIO COURSE

(Continued from page 19) increased. That is, the negative charge of the grid will repel the electrons emitted

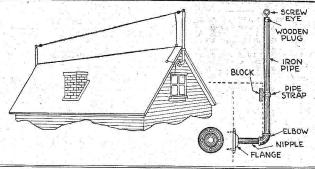


by the filament back toward the filament, which will result in a decrease in value



as the negative potential of the grid with respect to the filament is increased and

DETAILS FOR ASSEMBLY OF MASTS



finally the grid may be made sufficiently negative to entirely stop the flow of electrons from the filament to the plate. If the grid be charged positively, the negative space charge within the tube will be partly neutralized and the plate current as a result will be increased, assuming the filament temperature and the voltage between the plate and the filament to be constant. That is, the

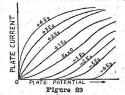


Figure 89
positive grid assists the plate in attracting the electrons emitted by the filament. The plate current will increase in value as the positive potential of the grid with respect to the filament is increased until the saturation current corresponding to the existing filament temperature is reached.

Characteristic Communications of the contraction of the contracti

the existing filament temperature is reached.

Characteristic Curves

The variation in the plate current of a tube, due to a variation in the potential of the grid for a fixed filament current and plate voltage, is shown in figure \$7. A curve of this kind is called a static characteristic curve of the tube, and there is such a characteristic curve for each combination of filament temperature and plate potential. For example, assuming the filament temperature is constant, then a number of curves such as the ones shown in figure \$8, may be obtained for various plate potentials. The higher the plate potential the more the curve is shifted to the left.

Another way of showing, graphically, the relation between the plate current and the plate potential for various grid potentials is by means of a family of curves similar to those given in figure \$9.

Whenever the grid is made positive, a few of the electrons emitted by the filament will pass to the grid rather than the plate which will result in a current in the grid circuit. Under the usual operating conditions this grid current is very small in comparison to the plate current, and it decreases in value as the potential of the plate is increased.

Amplification Factor

Amplification Factor

The voltage amplification factor of a three-electrode vacuum tube is defined as being the relation between the plate and grid potential variations which will produce the same variation in plate current, the temperature of the filament being constant. For example, if a certain change in plate current, and the plate potential must be changed in value eight times as much as the grid potential was chunged to produce the same change in plate current, then the voltage amplification factor of the tube is cight.

The voltage amplification factor decorded for the same change in plate current, then the voltage amplification factor of the tube is cight.

olification factor of the tube is eight. The voltage amplification factor depends upon the construction of the tube, as explained in the following paragraph. Assuming the grid of a tube is connected to the negative terminal of the filament which will be considered the reference-point for the various potentials, then the potential of the grid is zero. The electrons emitted by the filament, under the above conditions, are attracted to the plate by that part of the electrostatic field of the plate which is not screened by the grid, due to the arrangement and spacing of due to the arrangement and spacing of the grid wires. This so called "stray

field" of the plate is dependent upon the positions and shapes of the electrodes in the tube, and varies directly as the plate potential. The amplification factor of a tube varies inversely as the spacing between the grid wires, because the stray field due to the plate will be smaller as the mesh of the grid is decreased.

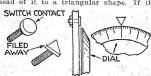
"The amplification factor also varies directly as the ratio of the distance between the plate and filament and the distance between the grid and filament. The closer the grid is placed to the filament, the smaller the grid potential required to set up a field around the filament equivalent to the stray field of the plate. In general, in order that the tube may have a large amplification factor in mesh grid should be used, the grid should surround the filament as completely as possible, and the distance between the grid and filament. Should be small in comparison to the distance between the plate and filament. The amplification factor for a tube is not constant but varies somewhat with the grid and plate potentials. (Next week Professor Moreton will ex-

for a tupe is not constant but varies somewhat with the grid and plate potentials.

(Next week Professor Moreton will explain such terms as plate impedance, plate circuit resistance and mutual conductance, and point out how they are important in tube operation.—Editor's Note.)

Dial Marker from Switch Point

A very good dial marker can be made from an old switch point by filing the head of it to a triangular shape. If the



point is too long and interferes with the condenser plates it may easily be filed down until it just goes through the panel far enough to allow a nut to be put on. —Ralph Crosley, Sand Springs, Okla.

Don't expect sloppy or poorly insulated onnections to give good results.

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Ouestions and Answers

Selectivity vs. Range
(14102) DEI, Big Horn, Mont.
Q.—I have a five tube Radio set. I do
not have very good luck in being able
to separate one station from another in a
range of 5 degrees. Stations KGO, WCBD,
WLS, and WDAF are all strong stations
and when they are all on the air about
the same time, unless the air is very clear,
will give me quite a good deal of trouble
to separate.

I use an antenna of 7-strand plain No.

will give me quite a good deal of trouble to separate.

I use an antenna of 7-strand plain No. 22 gauge phosphor bronze wire 100 feet long, stretched taut at a height of 28 to 32 feet high and a lead-in wire of 36 feet, insulated. I have it stretched in a northeast direction from the set. Does it make any difference as to the direction the antenna is stretched from the receiving set? Would I have better receiving if I used another kind of antenna? I do not have any of the described city noises to trouble me as I live 10 miles from the nearest electrical appliance. How can you tell whether the ground wire is well grounded or not with this set? If you haven't a battery voltmeter to test B batteries how can I tell when they are nilmost run down? Is there any disadvantages in using four 22½-volt B batteries rather than two 45-volt B batteries?

disadvantages in using four 22½-volt B batteries rather than two 45-volt B batteries rather than two 45-volt B batteries?

Are any of the static eliminators advertised in the Radio Digest of big enough success to pay me to add one to my set? If so, which one would you recommend me buying or can you give me some arrangement I may add to my set to help eliminate some of this summer static. As the Radio Digest does not receive compensation for answering questions, will make up for it by trying to get circulation enlarged among my neighbors this coming fall and winter.

A.—Relative to your difficulty with selectivity, or the lack of it, we wish to advise that on this receiver, or any other of similar type, you cannot have a coast to coast range or a Chicago to San Francisco range in summer and still have selectivity. Part of the tremendous range which you have is the result of your use of a 100-ft, antenna wire and in the writer's opinion it will be impossible to have good selectivity with such a comparatively long aerial. If you will cut down the length of the straightaway wire to about 60 feet, which will give you an over all length of 96 feet, including lead-in, the selectivity should be considerably helped. There is no way of testing for a good ground other than putting in the very best that you can with well soldered connections or putting in three or four to different points such as the cold water system, the radiator and anything else you can think of, and use them all atteries without the use of a meter. There is no way of testing B batteries without the use of a meter. There is no way of testing B batteries without the use of a meter. There is no day of the static set of the static, none of them static without a noticeable decrease in volume. The writer neglected to mention above that shortening the aerial from 100 to 60 feet will slightly decrease the volume and may make reception of a few very distant stations impossible in sum-

ATTENTION please. Is it worth 25c and an hour's work to you to improve your tuning? If so 25c will bring you complete data of a device that you should not be without. St. Paul Radio Improvement Co. P. O. Box 3193-H, St. Paul, Minn.

WD-11 Radiotron

mer time but the selectivity on those that you can still hear with loud speaker volume will be much improved and next fall and winter you will again be able to have a coast to coast range.

are coast from the secondary while to know how I can adapt this receiver to work on a regular outside aerial and ground. Also in your June 27, 1925 issue you described an eight tube super-heterodyne receiver made to work on a loop and I want to know how I can adapt this receiver to work on a regular outside aerial and ground. Also in your June 27, 1925 issue you described an eight tube super-heterodyne receiver made to work on a loop and I want to know how I can adapt this receiver to work on a regular outside aerial and ground.

A.—We wish to advise that any super-heterodyne designed to work on a loop aerial can be used with an outside antenna by connecting the two terminals intended for the loop leads to the secondary terminals of an antenna coupler. Such a coupler should have about 42 turns on a 3-inch tube or 56 turns on a 2%-inch tube as a secondary while the primary should have from 6 to 15 turns. The coupling between primary and secondary should have from 6 to 15 turns. The coupling between primary and secondary should have from 6 to 15 turns. The coupling between primary and secondary should be on a rotor. In case the super-heterodyne is designed for a center tap loop, the center point of the secondary of should be determined and the three terminals from the receiver connected to the two ends and the center point exactly as though it were a loop aerial. For diagrams and some definite information we refer you to our issue of March 7 in which we started a series on the Four Filter Super-heterodyne and the first article showed the connection to a loop by plugging in two jacks or connected to an antenna coupler automatically by withdrawing the loop jacks.

To Catch Lower Waves

(14004) FB, Scales Mound, Ill.

I have a homemade neutrodyne which works fairly good except that I cannot get stations much below 275 meters. KYW comes in at about 64 on my dials. I am using Cardwell 17-plate condensers and homemade neutroformers having 6 turns of primary wound on 2¾-inch tube (outside measure) and spaced about ½-inch apart, 60 turns of secondary with a tap at the fifteenth turn and wound on 3-inch tubing (outside measure). I used 24-gauge silk covered wire. I would like to know what changes should be made in the neutroformers so that I could get down to about 200 meters.

A.—First of all tune in KYW, which you say comes in at about 64. Then disconnect the secondary of your second neutroformer from the grid of the second tube and take off about five turns. Do not touch the settings of the variable condensers while doing this. Then con-

Learn the Code Alphabet a new way in few minutes. Chart with full instruc-tions 50c. No stamps. Triumph Sales, Box 402, Fort Wayne, Ind.

Radio Tubes Exchanged

Send us your old ube—any make—any conguard of the send of the se



Using Wrong Tubes?

(14105) PCH, Erie, Pa.

I have a Branston Super-het, all the parts, and it is a nice looking outfit in the wiring and assembling. I have built it as specified in booklet that I got with the parts. The set has short radio frequency, three stages of intermediate radio frequency, three stages of intermediate radio frequency. The whistles and noises in the set caused by oscillation are something awful. It is the same with the loop on or off. In order to bring in a station I must turn the rheostats on full and the whistles and noises ruin all reception. I have been using condensers in all places in the set but the whistles and howls are the same. For grid voltage I have been using 3 to 9 volts; for plate voltage, 90 to 135 volts, and for detector voltage, 45 volts. Grid leaks have been tried in all capacities. It is a Branston reflexed super-het using 7, 201A tubes, Kit No. R-199, cabinet size 7x2.1x94 inches.

A.—We wish to advise that the probable cause of your trouble is that you are using the Branston Kit designed for 199 tubes with tubes of the 201A class. The reflexed super-heterodynes will all work well with 199 tubes but they do not work well with the 201A tubes. You might write to the manufacturers of this kit and see what they can suggest.

neet the secondary to the grid and turn the second dial until KYW is again heard. Continue this process, leaving the first and third dials at their settings until KYW comes in at about 92 on your center dial. Do the same with the other two neutroformers and you will find that with KYW at 92 you can go much farther down on the wave length range and probably can hear stations at 220 meters. The set will have to be reneutralized, however, to allow for these changes.

Using Wrong Tubes?

(14105) PCH. Eric, Pa.

I have a Branston Super-het, all the parts, and it is a nice looking outlit in the wiring and assembiling. I have built it as specified in bookiet that I got with the parts. The set has short radio frequency, three stages of intermediate radio frequency and two stages of andio frequency and two stages of andio frequency. The whistles and noises in the set caused by oscillation are something

INDUCTIVE TROUBLES

(Continued from page 20)

(Continued from page 20) wire wound on a 3½-inch tube. The grid coil is composed of 40 turns of number 26 dec. wire wound on a 3-inch tube. Tuning condenser is of .0005 mfd. maximum capacity and variable. For the tubes used, the rheostat has a resistance of 10 ohms, and the ammeter a range of 0 to .5 ampere. Grid condenser is fixed with a capacity of .00015 mfd. while the grid leak has a resistance of 2 megohms.

It will be noted that jack number 1 is

It will be noted that jack number 1 is not wired in the usual way to permit of reception on the detector alone but is connected in such a manner as to provide audio amplification when it is desired to use auxiliary apparatus in connection with current variations audio frequency only.



Volumes 8, 9, 10, 11 and 12

Full of valuable information for every set owner. Antennas of various types have been described, the care of batteries is gone into thoroughly, there are pages and pages of tuning hints. Hookups that give the experimenter many hours of pleasure and experience, complete how-to-make articles on various types of sets. A score of illustrated articles on the country's most popular stations and the artists they secure.

A year's subscription to Radio Digest at \$5.00 brings you 52 issues with all the live news of Radio—broadcasting, invention, construction, programs, illustrations. With the first issue you receive your choice of these five bound volumes—either 8, 9, 10, 11 or 12. This offer good only on subscriptions sent direct to this office, not through agents or agencies

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Radiophone Broadcasting Stations

Corrected Every Week-Part III

FIND MISTAKES AND YOU'LL GET DOLLAR

NE DOLLAR will be paid to the Radio fan reader of Radio Digest submitting the most errors in any one station's listing in the Directory of Radiophone Stations, which appears in five parts, serially continuously on the next to last page. Letters must reach Radio Digest's office not later than one week from date of issue later than one week from date of issue corrected. Readers are not limited to correcting one station, but such corrections must be verified by the stations themselves, and NOT by comparison to other so-called accurate Radio directories or lists. Verifications must accompany corrections. Turn in corrections for as many stations as you can find—if you can find errors! Use separate sheet of paper for each station submitted and place name and address on each sheet. In case of tie, duplicate awards will be made.

United States (Cont'd)

NOTE.—The third part of the schedule list appears polow. The fourth part which consists of the remainder of the list will appear next week. WEBJ, New York, 272.6 meters. 500 watts. Third "Accepted Fallway company. Aunoment H. A. Bruno.

His will appear next week.

New York, 272.6 meres. 590 watts. Third us Hallway company. Announcer, H. A. Bruno, Fri, 7-8 pm. Wed, 8-19 pm. Eastern Daylight, Grand Rapids, Mich. 242 meters. 100 watts. d Rapids Radio Co. Announcer, Maurice Wetzel. an, The Furniture City. Daily ex Sun, 17 met Suniture Park Sun, 17 met Sun, 17 met Sun, 17 met Sun, 17 meters.

"Grand Rapids Radio Co. Announcer, Maurice Wetzel, Slogan, "The Furniture City," Daily ex Sun, 11-11-30 em; 6:30-7 pm; 8-9. Sun, 4:30-5 pm, 7:30-9. Central dayliel Station), 226 meters, 10 watts, Radio WEDM, Mobile, Ala. 226 meters, 100 watts, Radio Corp. of America. (Pertable), 100 watts, Radio Corp. of America. (Pertable), 100 watts, Radio Corp. of America. (Pertable), 100 watts, Tate WEDM, Motiour, 111, 236 met. Tate, 8. Storan Blue Bird Station. Daily ex Sun, 7:15 pm, news, weather. Central.

Hand St. Almounter, Joseph R. Alte. Songan Stile Central.

Central. Daily or Sun, 7:10 pm, 1998, weather. (EBR, Buffalo, N. Y. 244 meters, 100 watts. H. H. Howell. Slogan, We Estend Buffalo St. Parket St. Songan, We Estend Buffalo St. Songan, We Estend Buffalo St. Songan, St. Songan, V. St. Songan, Y. S. Song

Hight.
Fig. Evanston, Ill. 205.4 meters. 20 watts. Robert b. Hughes.
VEMC, Berrien Springs, Mich. 285.5 meters. 500 watts. Embauel Missionary Collège. Slogan, The Radio

Thurs, S. concert. Sat, 8 pm, concert. Sun, 19:30 am, 7:39 pm, church services alternating. Eastern daylight.

WFKB, Chiesco, III. 211.3 meters. 290 watts. Francis Sun, 19:30 pm, church services alternating. Eastern Merker and Sun, 19:30 pm, control Sun, 19:30 pm, control WGAL, Lancaster, Pa. 248 meters, 10 watts. Lancaster Elee. Supply & Construction Co. Aunouncer, J. R. Gaintiner, Slogan: "world's Gardens at Lancaster, 19:30 pm, 1

Baptist current, Anneusers, and 1975 am, 7:30 pm.
Tanib Bible Class. Sun, 9:55 am, 7:30 pm.
WGBF, Evansville, Ind. 236 meters. 100 watts. The
Finke Furniture Co. Announcer, Harold Finke. Daily
12:10 pm, weathert, markets, news; 3, baseball. Twes,
Finke Furniture Co. Announcer, Harold Finke.
Announcer, Sun, 1975 am, 1975 am, McGarley,
MGBG, Thirling, Va. 226 meters. 10 watts. BrettenWGBH, Fall River, Mass. 2097 meters. 10 watts.
Frank S.
MGBI, Scranton, Fa. 240 meters. 10 watts. Frank S.
MGGELSCR.

WGBI, Scranton, Pa. 240 meters. 10 waits. Frank S. Megargee.
WGRK, Schoolman, Pa. 253 meters, 5 witt. Lawrence MGRK, Colombil. Daily ex Sun, 50-520 pm. Sat, 374-511:155 pm. dance music. Sun, 375 pm. Sat, 375 pm. WGBL, Elyria, Ohio. 227 meters. 10 waits. Elyria Redio Assa. Wolfer S. Satty. Mon, 10 pm. Wed. Fri. 6:30 pm. Satty. Mon, 10 pm. Wed. Fri. 6:30 pm. Eastern daylight.
WGBG, Memominee, Wis. 234 meters. 100 waits. Stout Institute.
WGBG, Memominee, Wis. 234 meters. 100 waits. Stout Institute.

WGBR, Marshield, Wis. 293 meters. 10 watts. George WGBR, Marshield, Wis. 292 meters. 10 watts. George St. 10 watts

WEBT. Generalle, S. C. 256 meters. 15 watts. Furman university.

WEBU. Fullord By-the-Sus, Fl. 334.4 meters. 500 watts. Chamber of Commerce with the Commerce of Commerce with the Chamber of Commerce and the Commerce of Com

WGHP, Destroit, Micn. 210 meters, owe wasts. Versuse Harrison Phelips, Jinn. N. V. 236 meters. 100 watts. WGMU, Richmond, Ellin N. V. 236 meters. 100 watts. WGN, Chicaco, Ill. 370.2 meters. 1000 watts. Chicaco Tribune. Announcer, Quin A. Ryan. Daily ex Sun. 931 am, time; 9.55, 10, 10-30, 11, 1139, markets; 11.55, time; 12:30 pm, markets; news; 12:49-2:35, central control of the phelips of the

The control of the co

10:40. Daily ex Sat, Sun, 11:20, 11:30, 11:40, 11:50, 12:10 pm, 12:25, 1:25, 3, stocks, weather, news. at. 11:20 am, 12:10 pm, 12:35, naily ex Sat, Sun, 2-3 pm, ladies' hour. Tues, Thurs, 77:30 pm, 8-10. Mon, Central, 1-78 pm, Sun, 9:30 am, 11:13, 8 pm. WHBA, Oil City, Pa. 250 meters. 10 watts. Shaffer Minde House. Point, Wis. 240 meters. 6 watts. Tue WHBB, Clerent Point, Wis. 240 meters. 6 watts. Tue wood Coffee Co. Monday, 7:30-9 pm. Central. WHBG, Canton, Ohio. 254 meters. 10 watts. Rev. E. P. Graham.

WHGL, Canton, Onn. 293 meters, 10 watts, 16cr. E. r. WHGD, Bellefortaine, Ohio. 222 meters. 20 watts. Charles W. Howard. WHEF, Rock Island, 711. 222 meters. 100 watts. Beards-ley Specialty company. Announcer, G. J. Alfillisch. Mon., 8-11 pm. Wed, 7:20-10 pm. Sat, 2-4 pm; 7-3. WHGL. Harrisburg, Pa. 231 meters. 20 watts. John S. Skene.

WHBB, Harrisburg, Pa. 231 meters. 20 watts. John S. Skune.
WHBH, Culver, Ind. 222.1 meters. 100 watts. Culver
"Milliary Academy. Amouncer, Charles C. Mather.
WHBH, St. Wayne, Ind. 224 meters. 10 watts. Lauer
Auto compan.
WHBK, Elisworth, Maine. 231 meters. 10 watts. FrankInd. St. Garage. Ine.
WHBL Logansport, Ind. 215.7 meters. 50 watts. James
H. Sinsser. (Portable).
H. Sinsser. (Portable).
Physical Companies of the Companies

rell. (Portable).

WHBN, St. Petersburg, Fla. 238 meters. 10 watts.

*First Avenue Methodist church.

WHBO, Pawtucket, R. I. 231 meters. 50 watts. Y. M. C. A. WHBP. Johnstown, Pa. 256 meters. 100 watts. Johnstown Automobile Co. Announcer, J. C. Tully. Slogan, "The Volce of the Friendly City." Wed, 9 pm. St. 10 pm. Eastern.

town Automodie Co. Announcer, at C. Tarin, Suban, The Volke of the Friendy City. Wed, 9 pm. Sat. WH8Q, Memphis, Tem. 232 neters, 50 watts. Men's Fellowship class. St. John's M. E. church. Announcer, Dr. George L. Powers. Slogan, "We Have Best Quartet." Wed, 8-9 pm, music. Sun, 9-56-10-35 am, WH8R, Cinclinati, Ohlo. 215.7 meters, 20 watts. Scientific Elec. & Mie. Co. Announcer, Louis S. Rouse. Slogan, "That's Us," Mon. S pm, 9, 10, Tues, 9 pm, mich.; 12-2. Central daylight, 7-4. Sat. 10-12 mid. mich.; 12-2. Central daylight, 7-4. Sat. 10-12 mid. MH8S, Mechanicaburs, Ohlo. 2082 meters. 10 watts. Elng's WH8B, Anderson, Ind. 138.3 meters. 10 watts. Bing's Commencer, John Commencer, John Commencer, John Commencer, John Charles, 7-9 pm. First Sun of mouth, 7-9. Central, WH8P, Columbus, Ga. 244 meters. 30 watts, Fred Ind's Radio Sloga, Amouncer, Jack Walton, Slogan, "The Home care of the property of the State of the Prince of the Pri

"NEW, Edition Stop. 34, 324 modes, Wester, Spread "Columbus, the City of 100 Factories," Mon. 8-9:30 pm. Fri. 10-12. Sun, 11-1 pm. Well W. St. Stop. 12, 20 pm. Fri. 10-12. Sun, 11-1 pm. WHBW. Philadelphia, Pa. 322 meters. 100 watts. D. K. Klenzle. Wed evening. WHBW. Philadelphia, Pa. 21-2.6 meters. 50 watts. St. W. Edward. Spread programs, Tues, Fri. 10-11 WHBY. Philadelphia, Pa. 21-2.6 meters. 50 watts. St. Nobert's College. WhB. Programs of the St. St. Nobert's College. Wh. 250 meters. 50 watts. St. Nobert's College. Mind. 273 meters. 50 watts. Wm. HBO. Marston. Mon. 8-9 pm. Central. Marston. Mon. 8-9 pm. 1-1-20 pm. Marston. Mon. 8-9 pm. Mon. 8-9 pm. 8-1-20 pm. 1-1-20 pm. 8-1-20 pm. 1-1-20 pm. 8-1-20 pm. 8-1-20

8-12 pm, concert. Sun, 10:45-12 m, 4:15-5:30 pm, 7:45-9, 10:12. Eastern Duylight. MylAO, Wao, 7tx, 35:27 meters. 500 watts. Jackson's Radio Engineering Lab. Mon, Fri, 8:30-9:30 pm. WlAG, Nordok, Nebr. 2f emeters. 250 watts. Norfolk Dally News. Announcer, Karl Stefan. Slogan, "The World's Greats Country Dully, and Home of Printers. Derl'. Dally or Sun, 12:15 pm; 1:45 pm. Sun, 3:30-19 pm. maint. Central.

6 pm, music. Central.

WAK, Greentown, Ind. 254 meters, 100 watts. Clifford
L. White. Slogan, "The Radio Parson," Dally ex
Sun, 12-1 pm, chapel. Central.

WIAM. Cedar Rapids, Ja, 268 meters, 100 watts, D. M.
Perham. Dally ex Sun, 9 ann, 10:30, 12:39 pm, markets
supports. Tues, Thurs, Sat, 6-9:39 pm, children's hour.

WAG 10:100, 50m, 4 pm, resper service. Central.

6.50-10.30. Sun. a Bm, vesper service. Central. VIAR, Providence, R. I. 30.5 meters. 500 watts. The Outlet Co. Announcer, J. A. Reilly, Slogan, "The Southern Gateway of New England." Daily er Sun, 1-35-215 pm, weather, reports, music. Mon. Wed. Pril. 10 am, household hints. Mon. Thus, 7.39-10 pm, 7.39-10.30 pm. Thurs, 7.39-11 pm, F1, 8-10 pm, 123-210.30 pm. Thurs, 7.39-11 pm. F1, 8-10 pm, 123-210.30 pm. Thurs, 7.39-11 pm. Thurs, 7.39-11 pm.

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Thurs, 3:30-4:30 nm, children's procram; 6:45-8 pm, 10:30-1 Sm, 8:45-10 am, services; 10:45-12, services;

Wilcox Filits, Inc.

WKAQ. San Juan, Perto Ricos Salv. Insters. 500 watts.

Radio Corp. of Porto Rico Announcer, Josenuin Agusty. Signa, "The Island of Enchartment, Where the World's Best Corfee Grows." Wed. 8-10 pm, band, Revenous Reven

(Note-The fourth part of the directory will appear next (week.)



There are many improvements in the new Prest-O-Lite Battery

In this new battery you'll find all the good points and high quality that have made Prest-O-Lite an unfailing aid to better radio. And in addition there are many important refinements and improvements that make it the most attractive, most convenient battery you can buy.

This new battery has a beautiful stippled finish hard rubber case that blends with any furnishings. The case is molded in one piece, giving sturdy, leak-proof strength.

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Novel rubber insulators completely cover the tops and

sides of the cell connectors, preserving the original fine finished appearance at all times and giving protection against accidental short circuits.

No effort has been spared to make this a battery you will be proud to own. Yet, like the rest of the Prest-O-Lite line, it is priced to offer you the biggest value of the day. Ask your dealer to show you this battery and the Prest-O-Lite Chart that helps you select the right battery for your set. Or write Indianapolis for a copy of our interesting handbook on radio storage batteries and how to charge them.

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