WELCOME STEP TO CLEAR ETHER

BUT LITTLE GAINED IN OVERSEAS TESTS

BLOOPERS AND WEATHER GREATEST OBSTACLES

Lax Cooperation of U. S. Stations Added to Poor Conditions Makes Reception Difficult

to Poor Conditions Makes
Reception Difficult

Bloopers, poor Radio weather made even
worse by atmospheric conditions and the
aurora borealis, steamship SOS, calls and
a few selfish American stations which persisted in going on the air during the silent
hours, were responsible for the almost
complete failure of the international Radio
Week foreign reception tests. A final
chuck-up by Radio Digest shows that,
probably 35,000 Radio listeners heard Burope or South America, but what they
heard must have been very little and poor
in quality in most cases.

No one will say that the 1926 international tests were an achievement worth
loasting about. As one of the members of
the International Radio week committee,
Powell Crosley, Jr., put it;

"The committee arranged for the foreign transmissions and the silence periods
in the United States, Canada and Mexica,
but were unable to arrange the weather or
insure climatic conditions."

Foreigners Have Poor Luck Too
Equal luck was shared by the English
and Continental fans who attempted to
hear the American, Canadian and Mexican
stations. Cable messages from Radio Digest Buropean staff correspondents were
all the same. They reported, in briefs.

"Almost total failure to receive American
transmissions. This is attributed to
the autorra borealis and damping by the
full moon. Radiating sets also were aninoving. At the best the reception could
but be called moderately successful."

"Lima, Feru, cabled that it, was impossible to hear American or European stations on account of spark station interference. WAMD, Minneapolis, was logged.

American Broadcaskers Disregard Tests
Reports from listeners from all scettors

some to near American or European stations on account of spark station interference. WAMD, Minneapolis, was logged. American Broadcasters Disregard Tests Reports from listeners from all sections of the country—one 16,794 letters and telegrams arrived at Featio Digist's offices—give a clear cross section of some of the difficulties. Chief among these were blooping or radiating re-givers. Next in line were the stations who disregarded the test hours and broadcast to the great dismay of the trying listeners.

What harted these stations brought upon themselves can only be shown by the letters from the fams. Transmitting during one or more silence periods was done by one of the trying listeners.

KTAB, Oakland, Calif., \$20 meters, KTAB, Oakland, Calif., \$20 meters, KTSN, Pasadena, Calif., \$35 meters, WGHP, Clearwater, Fla. \$26 meters; and kNX, Hollywood, Calif., \$35 meters, WGAP, New York, 491.5 meters, got in bad with its audlence Wednesday night of the week, when "Roxy" and Graham McNamee were heard after the silence period had begun. The two famous personages did not help their popularity, by continuing their broadcasting for fourteen and one-half minutes after they should have been off the air. Both the station and the impresario overestimated the degree of their popularity.

WNYC, another New York station, in fact, owned by the municipality of New York city, overstayed its welcome Thursday night, by remaining on seven minutes after the test silence period was supposed to have begun.

Conditions Bad; Best Foreign Stations After all has been said and done, the

Conditions Bad; Best Foreign Stations

Conditions Bad; Best Foreign Stations
After all has been said and doire, the
European stations demonstrated their
ability to get over, but conditions were
had. The foreign stations are better this
year than ever before.

The official Radio Digest eastern listening post, located in the laboratory of E. K.
"Jessie" James, Flushid, N. Y. reported
best reception from OAX, Lima, Beru;
6BM, Bournemouth, England; 2LO, Long
don, England; BAJ13, Barcelona, Spain,
KAJ7, Madrid, Spain, and SWA, Cardiffic
Wales. Excellent quality and volume was
reported by this post for SAX, Daventry,
which was received on a special long wave
receiver.

Mistaken Fans Commission of WAC.

Mistaken Fans Complain of WOC

Mistaken Fans Complain of WOC
On Friday, the various stations of the
country were to ... "smit during four dirferent fifteen-minute time periods according to the time band in which they are
legated Exceptions, however, were made
to this rule. The tests committee, to put
a few more stations in the Mountain-time
test period, asked all stations in Iowe.
Nebraska, Kansas and the Dakotas to
broadcast at the same time as KOA and
the other Mountain time stations.
Fans hearing WOC, WOI and other stations from the five states listed as excep-



Miss Gladys Roy, Los Angeles daredevil aviatrix, provided the coast thrill lovers a treat recently when she Charlestoned on the wing of an airplane under flight. The noise of the machine made the use of ear phones necessary.

tions, sending when they thought they should not be, had their ire aroused on a false alarm. However, regardless of the fact that these broadcasters were in the right according to the wishes of the International Radio Week committee; thousands upon thousands of letters poured in to WOC and the other Central time stations, calling them all sorts of nasty, names and threatening to tune them out forever and a day.

Bungles Didn't Help Tests

Bungles Dign't Melp Tests
Little bungles such as these made the week trying not alone for the broadcasters and magazine editors who were attempting and magazine editors who were attempting to give the public the facts about the tests. Complete wardvance programs, were not forthcoming from the committee. Those in charge edid not get them in time.

When it was desired to know what sta-

tions would be on each night, no one knew for sure. The committee was beseeched for information. They knew very little, although they were supposed to have made all preliminary and final arrangements. When it came to getting confirmation programs, even these were prepared in habbaaxaf fashlom. Radial Digest relied upon its foreign correspondents and the measer information available at Radio Week headquarters. Pinally, the confirmation programs appearing on page eight, of this issue, were assembled afternuch effort.

It is to be hoped that the next foreign tests be arranged in a more business-like fashlom.

Winners of the Gold Award for Foreign Tests

JINNER'S of the \$100.00 in gold offered for best reports of foreign station reception during International Radio week tests, will be announced in the next issue of Radio Digest. Did you send in a program for verification? All reports were entered in the contest. You may have placed—you never can tell! Very few perfect reports were submitted. Watch for the winners in next week's issue.

STEPS ON IT AND WATCHES STEP STATIONS AND FANS JOIN IN **BLOOPER WAR**

Join I Won't Bloop Club

Response That Greets Campaign to Lessen Receiver Radiation **Exceeds Expectations**

Within one week after war was declared by the Radio Digest against the hundreds of thousands of bloopers who prevented reception of foreign programs during the international tests, the campaign is well under way. Thousands of Radio enthusiasts have pledged themselves to operate their sets so as to reduce radiation and limit interference and more than a score of broadcasting stations, have offered their cooperation to help clear the air as individual chapters of the I WONT BLOOP CLUE.

Situation Is Critical

The overseas tests plainly demonstrated that a situation exists that needs be corrected. Legislation cannot prevent blooping and a number of other forms of man-made static. It is the duty of each individual who considers the welfare of Radio to pledge himself to do what is within his power to keep his set from radiating; his share towards eliminating ether disturbances that could, with a little care, be prevented. With that end in view, the Radio Digest has inaugurated the I Won't Bloop club, believing the cooperation of listeners will accomplish more tighal legal commands with threatening perialties.

Stations Sending Aid

Radio from throughout the United States and amada have been asked to look the I Won't Bloop club, the pledge and of which appears on page 10 of this issue. The leading broadcasting stations have requested to become chapters of the club and will accept memberships from their listeners. Numerous newspapers have endorsed the move and united in the campaign, which will continue until an improvement is gained.

To those fans who sign the pledges of membership in the I Won't Bloop club, a certificate will be issued suitable for a billfold or framing. Fans wishing to enroll in the club and of so through any of the stations which have secured chapters in the club. To enable the members to carry out their pledges, the Radio Digest will publish a series of articles of a non-technical nature for the purpose of enabling fans to operate their sets with the minimum of interference to neighboring receiv

KGO Leads with Radio Drama



WILDA WILSON CHURCH Relates Progress of Audio Play After Two Years Trial at San Francisco Studio. Predicts Future Greater Than the Stage. Requires Ability to Make Written Word Alive.

burned with a fire that moti-vates those who have a mis-sion, a big work ahead in life,

sion, a big work ahead in life, a consuming ambition.

The interviewer beheld the embodiment of a living character in the very person of the one who imbues others with play characters. He asked concerning her own life. She smiled back at him indulgently, patiently, as though he had failed to grasp her vision.

he had failed to grasp her vision.

"I always wanted to be an actress," said Mrs. Church. "And I had many offers to go on the stage. But I never did so because it took me away from a home and my two children. Now I have my opportunity, through the medium of sound, perhaps more comprehensive than the old theater ever could become."

"MY EXPERIENCE as a school teacher, head of my own private school, and as an instructor of the Williams Institute, in Berkeley, comes in good stead in my KGO Radio dramatic work.

"I will sa, without blushing that we owe our growth of Radio drama technique almost altogether to the help we have had from listeners. Thousands of letters have been sent to us. From this great pile of writing we have learned about our short-comings and have found the way to go for future development of the Radio drama.

"I know there are many people, particularly those who have had rich experiences on the stage, who believe the Radio drama to have serious limitations. But I believe, when better Radio cars are developed and possessed by the mass of our listeners, that the audio drama over Radio will surpass any other form.

"In the theater, or even the home, the spoken drama loses much of the word value of its line because of the necessity of projecting voice tones into the farthest corners. Fine inflections are not possible under the stress of such projection. But in Radio drama, we speak right into the ears of our listeners. The other day I read an article stating that Radio drama technique differed from

stage technique in that words must be separated from each other by slight pauses to give the listener a chance. This is not true within a reasonable distance from a big broadcaster. Naturalness and spontaneity are the key words of our player's technique.

"YES, we have lots of fun giving our plays before the microphone. Not all the laughs are for our listeners. My whole company always feels a little nervous; and I do myself, when a new player comes with us. Among other things, we dread the terror of twisted phrases, or mispronounced words, which will distort their meaning.

distort their meaning.

"Not long ago, one of the men in my company, testifying in a murder case in the play, 'The Thirteenth Chair,' said. 'This girl was known to have taken tea with the man just half an hour after he was shot!' Many Jetters came in about it, and our Radio actor would not believe until the end of the play, that he had said it. The substitution of the word 'after' for 'before' did the frick'.

said it. The substitution of the word after for before did the trick.

"One of the women in the cast of another play, describing the simplicity and purity of an English home, said: 'There are pictures on the wall which no one could look at without blushing.' Poor girl, she was a little nervous, it being her first time before the microphone, and she slipped in the word 'no.'

"One of our pretty ingenues, 'just before the Eastertide, won the prize, however, for twisted phases. She said: 'Immaculate conception' when it should have been 'Immaculate' condition.'"

"" TO ONE can doubt the way our audience

"NO ONE can doubt the way our audience listens in to our plays, after reading a few hundred letters, which we receive. Not long ago I read one from a family who had listened. Bert Horton, our leading man, said: "Call the ambulance!" Just at that moment an (Continued



the sounds that seem to emanate from actualities. That, in a few words, is the essence of Radio drama. Illusions, effects, situations, must be fitted and floated through this stream of sound without visible substance. It is the work of the director to shape the material and guide it through this channel."

For a moment the deep, intelligent eyes of the silver-haired ploneer of this interest. haired pioneer of this important phase of Radio



wilda Wilson Church (upper left) as she appeared to an interviewer at the KGO Radio studio in San Francisco Mrs. studio in San Francisco Mrs. a writes in the necessary alterations to make it most adaptable to the listening andience in the homes beyond the vision of the players. In the circle Mrs. Church is seen as she gives interpretation of their spoken interpretation of their spoken interpretation of their spoken as she sits outside the studio following the script and listening to the rehearsal under the same conditions as the voices are transmitted to Radio listeners. She gives her instructions through the telephone.

Old Style Dances Win Favor

GRANDAD FIDDLERS All the Rage As Colleges Join Movement to Displace Jazz. "Everybody's Doing It."



Henry Ford's Old Style Dance Or-chestra playing over the WEAF chain at New York, seems to have stolen a march on jazz. (Left to right) W. Hallun, cymbalonist; C. A. Perry; Maurice Castle and Edwin Easter, dulchner.

"Which ones?" asked Moni.
"All four of 'em," said Dad.
And before Graham McNamee at
WEAF had time to shift microphones there were six "kids" doing
the barn dance on the parlor floor.
Typical—it really happened just
about like that in many homes!

F IT didn't happen during the Henry Ford recitals it may have been during one of the many other similar programs that have been growing in vogue over the Radio from one end of the country to the other for the past two years.

"Why don't you put on those old-time fiddlers for a novelry," suggested a friend to Dick Haller, director at the KGW station, Portland, Ore, along at the beginning. Nobody knew off hand just where to find them, for they had been disbanded for about five years—the particular ones to whom the speaker had referred. But at last the old chaps were brought together. They dusted off their old fiddles and felt a trifle nervous at the moment of their first appearance before the microphone.

But once they were tuned up and the announcer began calling the dances they felt as young and eager as ever. Listeners were enthusiastic and demanded more concert. Vaudeville managers sent for them. They were booked for a tour down through California. Business became so brisk for these old-time fiddlers that they opened an office in Portland and now have more bookings than they can fill.

The popularity of their style of music spread eastward. Old-time fiddlers were jerked out of the 'srivacy of their rural communities' and stood before the microphones of scores of stations. They fiddled many golden hours off the programs with the saxophones and jazz bands.

microphones of scores of stations. They nume many golden hours off the programs with the saxophones and jazz bands.

Go around the dial any Saturday night and you will find an old-time fiddler's contest at one studio or parn dance at another. Big cities are following suit just as ardently as the country stations.

George Hay, when he was at WLS, Ghicago, inaugurated the barn dance at that station. It became a rage with the WLS listeners. They still have it. When the Solemn Old Judge switched microphones from WLS and went to WSM, Nashville, he discovered Uncle Jimmy Thompson, 82 years old, who never yet has been defeated in more than one hundred fiddling contests and he has been fiddling for more than sixty years.

Then (Continued on page 24) (Continued on page 24)

Uncle Jimmy Thompson (center) and George Hay at WSM micro-phone, Nashville. Contestants at old fladler's contest University of Arkansas (left). Colleges are backing old style dance fad.

AS HENRY FORD reversed the dance pen-

As Henry FORD reversed the dance pendulum?

Is the Charleston the last convulsion of the wild and furious jazz?

Are our feet already turning backward toward the old barn dance, the waltz, the square, polka, minuet—tits gyrations of our fathers, grandfathers and still further back?

further back?

Whatever may come of it, Radio is bound to be the medium to wield the most potent influence. Which means, of course, that you have been reading about or tuning in on the old-style dance orchestra which Mr. Ford assembled and put on the air over the WEAF chain.

In a million or more homes this series of old-fashioned dance programs was heard—and, according to the applause letters, the old tunes must have held the dials very consistently throughout the series.

"O H BUD! Listen! Don't turn it off—ain't it funny!" giggled the young flapper as the steady, vibrant fiddle song came galloping out of the loud speaker in strident measures.

Grandad, sitting in the big Turkish chair looked up from his reading, beamed a juvenile smirk, placed his paper on the bookstand at his elbow and got to his feet with a jig pose.

jig pose.

"Gee! That makes me feel young," he chortled, rubbing his palms together and working him-

self into a shuffle. Grandmom, who was embroidering a doily for Sue's hope chest, peered over her glasses with a slight shock of surprise. Grandad sidled over and pulled her out of her chair. "Don't be silly," she said, but she smiled as she said it and joined with him.

"Swing your partners to the right," came the voice from the loud speaker.

And, ding bust it—away they went, granddad and grandmom!

"Come on, Bud" commanded Sue. "We don't leave."

grandmom! "Come on, Bud," commanded Sue. "We don't know what it is but we'll soon find out." Bud surrendered just as Dad and Momsey entered the room.
"Look at the kids!"



Boy's Voice First Across Atlantic?

Harold Robinson, New Jersey Boy Scout, Maintains He Was First to Be Heard in Europe by 'Phone Transmission and Submits Letter to Prove He Was Tricked Out of Credit

By Armstrong Perry

DID Paul Godley and Edwin H. Armstrong STEAL the credit for the first amateur transmission and reception across the Atlantic ocean? Harold Robinson, an American Boy Scout, first claimed the record with what we believe are authenticated proofs. His 'phone transmitter was heard in Aberdeen, Scotland, according to George W. G. Benzie, who listened in This occurred on October 6, 1920. Armstrong, aided by others, discredited Robinson. Read the story as written by a man who has followed the case for years.

ITH the sixteenth anniver-sary of the Boy Scouts of America due early in February, it is a fitting time to clear the name of the Boy Scout, who, ac-cording to the evidence, was the first Radio amateur to make his voice and

Radio amateur to make his voice and music heard across the Atlantic.
Harold Robinson, a scout living in Keyport, New Jersey, and his father, Hugh Robinson, superintendent of an airplane company, aunounced in Nowember, 1920, that they had received a report from Aberdeen, Scotland, stating that George W. G. Benzie, also an amateur, had heard their music, voices and call letters on October 6, 1920. The first report was followed by others from Benzie and another amateur, James Miller. I was employed at the national headquarters of the Boy Scouts of America and was especially

interested in the Radio activities of the scouts, so I visited the Robinsons at their station, 20R. I discovered no reason for doubting their statements.

The Radio Club of America (New York) had offered a prize for the first transatlantic transmission by an amateur. An investigating committee was appointed to consider the Robinson record. After a year had passed, this committee presented its report, in which it was stated: "We find that Station 2QR was not heard in Scotland as reported." With the report was published a letter from the Robinsons stating that they were convinced that, according to the evidence secured by the committee, the Scotchmen were in error in believing that they had heard the station. It was apparent that if the Robinsons made their report knownsons mad

ing that their station was not transmitting when it was reported to have been heard, Harold had violated the first Scout law: "A Scout is trust-

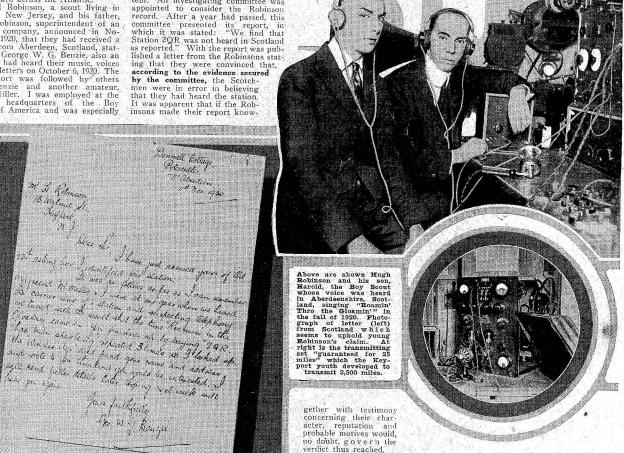
worthy."

Wondering what evidence could be submitted to disprove their record, I asked a lawyer about it. He said the testimony of persons who were not at either station at the time of transmission would not have much weight, and that in a court action the testimony of the men who were at the stations, to-

his station heard across the Attanuc. Believing Mr. Armstrong and the others to be honest, they gave them the letter. They say they never saw the evidence Mr. Armstrong promised to have them.

evidence Mr. Armstrong promised to show them.

The next day Mr. Armstrong and some colleagues entered the A. R. L. tests with a station erected especially for the purpose. There is evidence that a wave length was used that was extraordinary and illegal under the terms of their license and improper under the of their license and improper under the



gether with testimony concerning their character, reputation and probable motives would, no doubt, govern the verdict thus reached.

I asked the Robinsons what had changed their minds concerning the reports from Scotland. They said they had not changed their minds, but that they had been tricked into giving the letter to the committee. F. H. Armstrong and other members of the committee, they said, called on them the night before the American Radio Relay league transatlantic tests started, in 1921, and told them the committee had evidence, which would be shown to them later, disproving the committee had evidence, which would be shown to them later, disproving the record. They asked the Robinsons, in the interest of the amateur game, to give them a letter that would show that the opportunity was still open for some amateur to be the first to make

rules of the contest. I am told they were threatened with legal action because of their violation of regulations. Nevertheless, they were credited with being the first amateurs to make their signals heard across the Atlantic.

At the receiving station, in Scotland, was Paul Godley, representing the American Radio Relay league. To him went the credit of being the first amateur to receive amateur signals across the Atlantic. He stated in his report, published in QST, an amateur magazine and mouthpiece of the A. R. R. L., that he doubted whether he ever had his antenna properly adjusted for any wave. length other than that of the Armstrong (Continued on page 24)

Organ Is Favorite at WEAR

VINCENT H. PERCY Takes Radio Listeners on World Tours via Music, Then Starts Second Jaunt into Realms of History. Cleveland Station Presents Programs of Interest to All Classes.

By MARSHAL TAYLOR



RGAN recitals are becoming more popular over the Radio as receiving sets and loud speakers are improved. In trying out a new loud speaker in his home a few evenings ago the writer was overwhelmed with the faithfulness of the reproduction. Low notes that had hitherto been lost in the abysmal depths came floating into the room with gentle sweetness, exquisite in clarity and beauty.

In fact, the pipe organ had never before under any circumstances seemed so delightful, even in the studios and big auditoriums and we have heard some of the best of them from Salt Lake to New York. It was better than in the actual presence of the organ itself. We do not pretend to be an expert on acoustics, but it may have been that these particularly pleasing results were obtained not only because of the wider range in the timbre of the loud-speaker, but because in the studio the sounds coming from different points were blended together in the microphone and poured out at the 'terminal from one, small orifice that made each not equilibrant from the

small orifice that made each note equi-distant from the

T HIS, by way of organ prelude, brings us to Vincent H. Percy, organist at WEAR, Cleveland, Mr. Percy and his organ have made WEAR famous just as Al Carney at WHT, Chicago, also has made his station famous for its organ.

Mr. Percy started on his aerial road to fame last summer through a series of recitals he called a "Trip Around the World."



While one of the principal features of the WEAR station at Cleveland is its pipe organ concerts, there are plenty of other features to give the station general interest. Madam Susanne Dreger (above) is one of them. She plays classical plano solos and sometimes accompanies the singers.

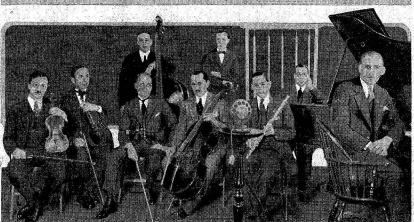
Listeners who tuned in at the beginning of the series were wafted on the mellow notes of the organ to foreign shores by a variety of folk songs and national classics. As the numbers were introduced, Mr. Percy, acting as the guide and conductor, interpolated short verbal sidelights which created the atmosphere of the country to which the listener was to be transported. Ireland with its music, Scotland and its characteristic music, England—merry old England; France, Germany, Russia, Spain, Italy, Turkey, Greece, China, Japan—all distinctive in musical characteristics, were visited through the talented fingers and the keys of the famous Metcalf Memorial organ, at which Mr. Percy presided. presided.

presided.

Of course, Mr. Percy is proud of his "vehicle" and attributes much of his success to its unusual power and scope. The organ is located in the Euclid Avenue Congregational church and was dedicated in May, 1920, to members of the congregation who were in the military service during the World War. It was named for Leslie I. Mettop, down; Fred True, Albert Downing, Floyd Campbell and Class. Pottier. Goodwar conditions and effort made it possible. It is comprised of six compressed to six

Wingfoot male quartet (left) top, down; Fred True, Albert Downing, Floyd Campbell and Chas, Pottier. Goodyear con-cert orchestra (below), Ivan Francisci, director.

It is comprised of six com-plete organs in one, in-cluding the great, swell, choir, solo, echo and pedal organs.



IN the construction of the Metcalf Memorial organ there are 100 miles of wire, 20.854 electrical connections and 3,505 pipes. Wind for the organ is supplied by the operation of a ten-horsenower electric ten-horsepower electric

motor.

These incidental details These incidental details and many more are included in a pamphlet prepared by Mr. Percy for the listeners of WEAR, who frequently request information about the wonderful organ they hear from this station.

organ they near from this station.

One thing about these organ tours, distance and time do not count. Mr. Percy would just as soon (Continued on page 24)

OFFICIAL AND FINAL CONFIRMATION PROGRAMS

Sunday Evening, January 24 OAR, Lima, Peru, 380 meters, speci Sunday Evening, January 24
OAX, Lima, Peru, 380 meters, special, international broadcast; hand greetings to United States listeners; national music of the United States; orchestra; address; dance music.

LOW, Buenos Aires, Argentine, 300 meters, native music; announcements in Spanish, English and French.

LOX, Buenos Aires, Argentine, 375 meters, special program.

HA, "Morag," Hamburg, Gernfany, 292.5 meters, classical musical program.

ZLO, London, England, 362 meters, Radio quartet; Charles Leggett, cornet solo, Clay Thomas, baritone.

SMM, Bournemouth, England, 385 meters.

Wireless orchestra, Gerald Kaye, tenor; Philip Taylor, baritone; Winfired Scott, soprans.

tenor; Philip Taylor, baritone; Winifred Scott, soprano. **EAJ13, Barcelona, Spain, 460** meters, program in Spainish music; "Las Corsarias," "Valencianas;" "The Night of Love;" La Verbenade la Palonia, "Servillanas;" "La Dolores. **5XX. Daventry, England, 1601** meters, same program this night as 21.0.

Monday Evening, January 25 "Vox Haus," Berlin, Germany, 505 ters, special program of German

"Badlo Wien," Vienna, Austria, 530 meters, recital of chamber of music by Sedlak Winkler; string quartet by Municipal Opera company, playing compositions of Haydn and Mozart.

BAJT, Madrid, Spain, Radio Union, 373 meters, featuring Zacarias Areas, tenor; sextet, "Govescas" by Grandos; tenor. "Le Partida" by Alzarez; "Jota Del Trus De Los Tehorios" by Serrano; sextet, "Dona Fraisquitta"; "Grandinas" by Berera; closing sextet, "Seville" by Alberrez.

Alberrez.

EAJ13, Barcelona, Spain, 460 meters, program from famous operas; "Tosca:"

"Sampson and Deliah;" "Faust;" "Car-

men."

— Prague, Czechoslovakia, 368 meters, "My Homeland," by Frederic Smetana; LA. Hamburg, Germany, 292.5 meters; concert program, selections by Weber; Kreisler; Strauss; Schumann, Brahms.

— Stuttgart, Germany, 450 meters.

Kreisier; Strauss; Schumann, Brahms.

Stuttgart, Germany, 450 meters.

Wir Gehen In's theater, "from operetta
Paganini," "Glocken der Liebe!," Boston
Valse," by Lehar; 'Ioh Habe Nein Herz
in Heidelberg Verloren," by Burke;
"Der Schonnenschein," by Carl Struve;
"Wenn der Liebe Nicht War," fox-trot,
by King; "Teresina, Teresina," from the
operetta by Strauss; "Die Kleine Pagode," by Benatzky, "Shanghai," by
Nichols; "Hier Schlager War Dort,"
one and two ette-orchestra; 'Im Prater
Elluhn Wieder die Baume;" "Das Wiener
Palikerlied," by Stolz; "Besuoh mich mal;
in Korsica," from operetta "Teresina,"
by Strauss; "So'ne Landpartie," Shimmy
dance, by King.

by Strauss; "So'ne Landpartie," shimmy dance, by King.

S. Muenster, Germany, 410 meters, Wagner Tannhauser overture; Lizst preludes; Beethoven Romance in G for violin solo and orchestra, Grieg Nordische Weisen, One, Im Volkston, Two; Kuhreigen and Bauertanz for string orchestra; Strauss Rosevkavalier watz.

Munich Germany, 495 meters accept

dische Weisen, One, Im Volkston, Two; Kuhreigen and Bauertanz for string or chestra; Strauss Rosevkavalier waltz.

— Munich, Germany, 485 meters, concert, Anny Rosenbergers' Chamber music, quartet; "Eriksgang and Kormungmarsch." from Die "Folkungen," by Kretschmer; "Grosse Fantalsie" on Melodies," by Wagner; "Intermezzo" and "Barcarolle," from Tales of Hoffmann, by Offenbach; "Hungarian Dance" and songs.

OAX, Lima, Feru, 380 meters, "International Law and Radio," talk in English, by Dr. Oscar Miro Quezada, "My Old Love," Mexican song. Esparza Otero, soprano; Serenade, Widorpiano, harmonium, flute, violin, violincello; "Dance of the Witches," McDowell, piano; "E Ben do andro Lontano," Srta. Consuelo Paernio; Impressions of the Evening, violin; "Piropos Limenos," poems; "Ollanta," Peruvian opera, Maestro Vallerriestra, soprano, contralto; "El Llanto del Inca," characteristic native waltz, orchestra, OAX, "Ritorna Vincitor," Verdi, soprano, waltz, Moskowsky, piano; Lima Girls, fiirtation, orchestra, OAX, "Ritorna Vincitor," Verdi, soprano, waltz, Moskowsky, piano; Lima Girls, fiirtation, orchestra, OAX, "Radio Yaitura, 375 meters, program of national Spanish music; announcements in Spanish, English and French.

LOW, Buenos Aires, Argentine, Radio Ymsers, special musical brogram.

SBR, Brussels, Belgium, 263 meters, program unconfirmed.

— Breslau, Germany, 416 meters, program

Breslau, Germany, 416 meters, pro gram unconfirmed.

Tuesday Evening, January 26
5XX, Daventry, England, 1,601 meters,
station trio: Paul Specht's Canadian
band; Cavalliria Rusticana; Prederick
Hall, harpist; Walter Glenn, tenor.
5WA, Cardiff, Wales, 381.6 meters, same
program as 6XX, Daventry, England,
given above.

Aberdeen, Scotland, 497.1 meters, orchestra; Dorothy Froest. wireless orchestra; Dorothy Froest, mezzo-soprano; Robert Anderson, bari-

tone.

LOW, Buenos Aires, Argentine, 300 meters, special musical program.

LOX, Buenos Aires, Argentine, 375 meters, special musical program.

EAJI3, Catalana, Barcelona, 460 meters, program from opera "la Geisha" by Jones; three numbers by Lehar, Couni of Luxumberg; La Viuda Agegre by Bva.

Bva.

210. London, England, 365 meters, Paul Specht's Canadian dauce orchestra, from the "Kit Kit Club," rendering "If You Care," "Arraby," "Brown Eyes, "Pretending," "Yes, Str. That's My Baby," Oh' Boy What a Ghi," "Melody in F," by Rubenstein, and "Indian Dawn."

piano; "Quenas," native waltz, orchestra OAX; 'Pearls of Brazil, 'soprano, piano; 'Granada,' Albeniz, orchestra OAX; 'Egend, opera. 'Iris,' Mascagni, orchestra; 'Serenade of the Kisses,' De Michell, orchestra OAX; 'Unhappy Love,' 'vocal and piano; 'May,' or-hestra OAX, 'A Furtive Tear,' tenor, Marcial Calonge, piano; 'The Wood on the River, piano; 'Taviata, vocal and piano; Sria Valentina Olin, piano; Sra Ayarza de Morales Solar; 'Rusticanela,' fox-trot, orchestra OAX.

Wednesday Evening, January 27 You Care," "Arraby," "Brown Eyes,"
"Pretending," "Yes, Sir, That's My
Baby," 'Oh! Boy What a Girl," "Melody
in, P." by Rubenstein, and "Indian
Dawn."

OAX, Lima, Peru, 380 meters, "The
Plebiscite of Tacan and Arica," short
dissertation by Ing. Carlos Jiminez
Correa; "Variations," light soprano,

linist; two duet numbers; song; Straus

Innist; two duet numbers; song; Straus waltz by orchestra.

BAJY, Madrid, Spain, 373 meters, jazz band and tango orchestra.

Breslau, Germany, 416 meters, violin solo, Dr. Aifred Laserstein; caprice for flute and pjaho, Herman Zanke; tarantella for cello, Curt Hasemann, duet for flute and violin with piano accompaniment.

Prague, Czechoslovakia, 368 meters, musical program.

Prague, Czechoslovakia, 368 meters, musical program.

"Radio Wien," Vienna, Austria, 530 meters, chumber of music, Schonerumer ters, chumber of music, Schonerumer waitz by Lanner; second symphony by Schubart, Turkish March by Mozart, Peer Gyut suite 1 by Grieg; bits from opera by Strauss.

LOW, Blenos Aires, Argentine Republic, 300 meters, musical program.

LOX, Blenos Aires, Argentine Republic, 375 meters, special musical program and entertainment.

Wednesday Evening, January 27 OAK, Lima, Peru, 380 meters, group of poems recited by their author; "Dance Granados, piano; "In the Cloister," or-(Continued on page 9)

No More "B" Batteries on Your Radio

At last, a practical reliable "B" battery eliminator for your radio. Does away with "B" batteries; no charging; no replacing. Always 100% efficiency in "B" current. The most revolutionary development in radio.

Genuine Fansteel

Eliminator Sent for Only





The Balkite "B" is connected to your radio just like "B" batteries and attached to an ordinary electric light socket. Replaces "B" batteries entirely and furnishes "B" current direct from regular house lighting current tubes or less. Simplifies radio receiving. More convenient, more economical and more efficient than dry or wet "B" batteries. Operates storage battery or dry cell tubes and gives tubes longer life. Entirely noiseless. Creates no disturbance in reception. Has no bulbs, nothing to break, wear out, replace or get out of order. Requires no change in your set, no extras to buy. Operates from 110-120 AC, 60 cycle current. Measures 8 3-16 inches by 8 inches by 3!4 inches. Current costs only 1-20 of a cent per hour.

500 a Month, if satisfied after trial

Only \$1.00 with the coupon below brings the Balkite "B" to your home on trial. Try it out thoroughly before you pay another penny. See how it improves reception. See how much more convenient than using batteries. Judge for yourself how it will save you money and make your radio set more enjoyable. Then, if not satisfied, send it back at our expense and we'll refund your \$1.00 plus all transportation charges. If you decide to keep the Balkite "B," start paying only \$5.00 a month until you have paid the total price of only \$\$5.00. That's the price others ask for spot cash. We give you the lowest cash price on easy monthly payments you will never feel.

STRAUS & SCHRAM, Dept. R8412 Chicago Enclosed find \$1.00. Ship special advertised Balkite "B" the price of the start of the st

Send Coupon

Don't miss this opportunity to get the genuine Balkite "B" at the rock-bottom cash price on easy monthly payments. Send coupon now while this offer lasts. Order by No. Y-8578A, \$1.00 with couon; \$5.00 a month; total price \$35.00.

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Dept. R8412

Chicago, Ill.

Enclosed find \$1.00. Ship special advertised Balkite "B" Battery Eliminator. I am to have 30 days free trial. If I keep it, I will pay you \$5.00 monthly. If not satisfied, I am to return it within 30 days and you are to refund my money and any express charges I paid.

Balkite "B" Battery Eliminator, No. Y8578A, \$35.00

8			
Name		 	
St., R. F. I or Box No.) .		
Shipping Point	3.5		
Post Office.		Stat	e .

WAHG Great Organists Series Continues



FINAL CONFIRMATIONS

(Continued from page 8) chestra OAX; "Voices of Spring," by Strauss, sung by Elvira Sanchez, twelve-year-old Spring." Sorrow," Indian song on primitive instrument; "Yaravi," "Zana," and "Marinera y Ton-face." with sits you caultar plane. dero," native airs, voice, guitar, piano, bandurria and cajon; "When the Soul dero, native ints, voice, gutar, piano, bandurria and cajon; "When the Soul is Lulled to Sleep," tenor solo; "The Little Black Girl and the Shoe Polish" native popular song, orchestra; conlemporary Peruvian poetry, recitation; "Little Princess," Spanish sorig, soprano; "The Little Peruvian Girl," two-step, orchestra Old.

Thursday Evening, January 28
A, "Norag," Hamburg, Germany, 292.5
meters, Wagner concert, soloists, Ferdinand Schneider, Bernhard Jakschtat;
Norag orchestra under direction of
Adolph Secker.

Adoph Secker.

HFF, Vox Haus, Berlin, Germany, 505
meters, overture, Mozart number; overture by orchestra; soig, Wagner's
"Lohengrin"; Sfrans "Danube Waltz" by
Frinkstude orchestra.

LOX, Buenos Aires, Argentine, 375 meters, musical program and entertain-

ters, musical program and entertainment.

LOW, Buenos Aires, Argentine, 300 meters, special musical program.

Radio Wien," Vienna, Austria, 530 meters, Silving band playing six numbers;
Gold and Silver waltz by Lehar,

"Fiedermauss" overture by Strauss,
Narcissus by Nevin; Liebestod and
Liebesfreud by Kreisler; second Hungarian rhapsody by Lisat; Night in
Vienna by Komsak.

Stuttgart, Germany, 446 meters,
selections from Wagner's "Melstersinger" overture to "Leonoren", Aria
No. 3 by Beethoven; selections from
Mozart's "The Magic Flute"; "Melody'
by Gluck; song, "Land so Wunderbar"
from Meyerbeer's "Die Afrikanerin";
overture and aira from Mozart's "Figarro"; overture from Weber's, "Freischuetz"; song from Flotow's "Martha";
"Invitation to the Dance" by Weber;
aria from Nicholai's "The Merry Wives
of Windsor"; "Rosenkavalier" waltz by
Strauss.

—, Breslau, Germany, 416 meters, Allego Molto of Mendelsshou's violin concerto in E minor; caprico for flute and piano by Lothar Kempther; tarentello for cello by David Opper; duet for flute and violin with piano accompaniment by Caesar Qui.

and violin with plane accompaniment by Caesar Qui.

— Prague, Czechoslovakia, 368 meters. "Slavische Tanza," by Dvorak.

24.77, Madrid, Spain, 378 meters, concert artists Nino De Los Lobitos and Domino Marin, with station sextet and barrel organ; "Sextet Suspirios de Espana," by Alvarez: "Am Alborada Gallega," by Veiga; "Lobitos Song," by Soleares, entitled "Granadinas," guitar accompaniment by Domino Marin, organ recital, "Pasodoble," Lobitos song by Dulerias and Caracoles, accompaniment by Domingo Marin, guitar, barrel organ schottische; Lobitos song by Guajiras and Fandanguillos, accompanied by Domingo Marin on guitar; sextet tango and Zapatiadode, entitled "Ensedianza Libre," by Gimenez, and "La Dolores Jota," by Breton.

MS, Muenster, Germany, 410 meters,

Libre," by Gimenez, and "La Dolores Jota," by Breton.

MS, Muenster, Germany, 410 meters, "Hoch Heidecksburg March," by Herzer Rosen; "Aus Dem Suden Waltz," by Strauss, "Jones," from the operetta "Die Geisha." "O Tanz Du Kleine Geisha." "Goldschlied"; soloist, Lisa Hillow; "Waldteufel Ganz Allerliebstt," "A Merry Medly Willy Wittig," "Fall Dollarprinzessin;" Casa songs sung by Anton Himkamp, "Lacrima Christo," by Bohn; 'In Der Waldschenke," by Simon, "Der Schimme Zecher," by Reissiger; Strauss Radetsky march.

OAK, Lima, Peru, 380 meters, "The Problem of Tacna and Arica After the Decision of President Coolidge," address, "Take the Ring I. Gave You," sopranetenor duet; "El Condor, Pasa," prelude, Orchestra OAX; "Eight Variations, on an Inca Theme" Rev. Pather Paulo C, Aguilar; Sacred music by mixed chorus of three voices; Nocturne No. 3, Chopin, piano; "Lorelei," Orchestra OAX; "Prelude and Allegro," Pugnani-Kreisler, violin; "Sad Little Sister," tenor solo; "The Lima Today Which Likes Radio," talk; "She Is My Love," fox-trot, and hymns of Peru and the United States, Orchestra OAX.

—, Munich, Germany, 485 meters, orchestra Oax. orchestra OAX; "Eight Variations on an Inca Theme," Rev. Pather Paulo C. Aguilar; Sacred music by mixed chorus of three voices; Nocturne No. 3, Chopin, piano; "Lorelei," Orchestra OAX; "Prelude and Allegro," Pugnani-Kreisler, violin; "Sad Little Sisten," tenor solo; "The Lima Today Which Likes Radio," talk; "She Is My Love," fox-trot, and hymns of Peru and the United States, Orchestral Concert, overture to "Die Beden Nusaren," by Doppler, and "Der Schonen Blauen Danau Waltz," Strauss; program unconfirmed.

28th. Bainburgh, Soctland, 324 meters, program unconfirmed.

28th. Bainburgh, Soctland, 324 meters, program unconfirmed.

Sport Broadcasts

Track Meet

Saturday, February 13 WOI, Ames, Iowd (270m-1110kc) Drake-Grinnell-Ames, 7:30 p. m., Central time. Hockey

Tuesday, February 16
WBZ, Boston (333.1m-900kc) Boston
Bruins-Pittsburgh, 8 p. m., Eastern time.

Wrestling
Fridday, February 19
W/OI, Ames (270m-1110kc) Oklahoma
Aggies-Ames, 7:30 p. m., Central time.

Basketball Games

Saturday, February 13
WSUI, Iowa City (483.6m-620kc) Michigan-Iowa, 7:30 p. m.; Central time.
WIP, Philadelphia (598.2m-590kc) University of Pennsylvania-West Point, 8:15 p. m.; Central time.

Monday, Pebruary 15 KWSC, Pullman, Wash. (348.6m-860kc) University of Idaho-W. S. C., 7:30 p. m.,

Pacific time.

Pacific time.

Tiesday, Pébruary 16

WNAD, Norman, Okla. (254m-1180kc),
University of Oklahoma-Oklahoma A. M.
College (time to be announced).

WRBO, Lansing, Mich. (285.5m-1050kc).
Notre Dame-Michigan College, 8 p. m.,
Eastern. time.

KFRU, Lawrence, Kan. (275m-1090kc).

K. U.-lowa State College, 7:30 p. m., Central time.

tral time.

Friday, Pebruary 19
KWSC, Pullman, Wash. (348.6m-860kc)
University of Washington-W. S. C., 7:30
p. m., Pacific, time.
KUOM, Missoula, Mont. (244m-1230kc)

Montana State College-University of Mon

tana (no time given),
WKAR, East Lansing, Mich. (285.5m-1050kc) Michigan State College-Carnegie Tech., 8-9:15 p. m., Eastern time.

Germany Is 'Pipe' If You Know How

In Which Mr. Canaday Puts One Over on Mr. McCulloch, His Rival DX Friend

By S. J. Doss
FORT WAYNE, Ind.—There may be
two more "bitter" Radio rivals in Fort
Wayne than O. P. Canaday, of the Canaday Manufacturing company, and Robert
McCulloch, assistant postmaster, but if
there are they haven't come forward to be recognized.

there are they haven't come forward to be recognized.

Both are extremely proud of their respective sets and rivalry in tuning in on difficult stations to get is at a high pitch. Just now, Mr. Canaday is enjoying a good laugh at his friend's expense and "here's the how."

European test week naturally provided both fruitful ground. On one of the nights Mr. McCulloch received an invitation from his rival to "come over and hear Germany." "I've been getting it over my Radio." Mr. McCullouch was skeptical but willing to be convinced. Accordingly, he was on hand at the appointed hour. Mr. Canaday 'tuned in on Stuttgart, Germany."

Music unmistakably Teutonic came clearly through the loud speaker and amoment later. Mr. McCulloch and other hearers present were informed in German as to the station and the next selection. "Wonderful, not a bit of static," grudgingly admitted Mr. McCulloch, reaching for his hat and coat with the words and almost dashing out of the Canaday home in his anxiety to tune in on Stuttgart with his own set.

his own set. He didn't get it, however. The answer

was:

In order to hoax his friend and rival, Mr. Canaday had arranged a small talking machine in the basement of his home and had attached his loud speaker to it by means of a rubber hose running through a cold air duct near the receiver. Three wax records in German comprised the foreign station's program and Dr. Walter Kruse, local German-speaking physician and accomplice in the hoax, played the part of the "German announcer."

A new insignia for United States naval Radio electricians, until recently classi-fied as gunners Radio, in the form of "a jagged spark," has been adopted for uni-form wear.

TOP Bloops and Human Static!

THE hour was that which occurs in every 24 known as 10 to 11 p.m. Central time. The day was the 26th of January—this year. Somewhere out in the darkness to the Eastward a score of European stations were shattering distance and atomic quiet with all the power available from great dynamos and acres of storage batteries, in the hope that some small part of their great power might reach American shores in the form of enjoyable entertainment. The tubes of three carefully adjusted super-heterodynes glowed dimly in the quiet of the laboratory. Each was attached to an antenna and the dials went reientlessly back and forth in patient search of fragments of the music and speech speeding Westward. "Bloop, bloop," whur-rr click, click, bloop, said the big special with the neutralized, honeycomb intermediates. "Whistle, whistle, crash, bloop, bang and a coupla bongs," answered the shorter but fatter special with the resistance coupled intermediates.

The third, not to be outdone, retaliated with a siren whistle that started high, went down to a grumble and again soared to a piercing screech. Suddenly the big

ARE You a Blooper and if so, Why? The Foreign Tests Showed the Evil of Blooping. You Can Prevent It Easily and Simply. This Article Tells How.

By the TECHNICAL STAFF

"If the broadcast listeners would take effective steps to put a stop to the squealing of regenerative sets, probably 25 per cent, of Radio interference would be removed in many localities," says the Interference Co-ordination committee's report of the National Electric Light association. On this subject, Radio Guide states, "Apparently every one cooperates except the Radio listeners themselves, just the people one would think would try the

rance; much of it is wilful and in disregard of the rights of others. Do YOU know what causes squeaks? Do YOU know what oscillation is? Do YOU know what regeneration is? If you do not, and you'd like to, so you can do your bit toward making the world safe for a setrespecting Radio set to operate in, then read on.

read on.

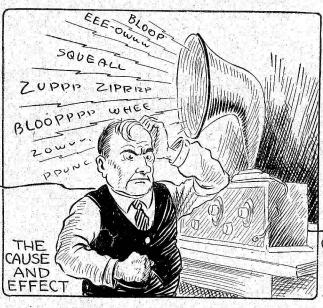
Principle of Regeneration

The principle of regeneration, as

circuit a current of electricity of the same frequency as that of the received electric waves. The energy, therefore, which comes down the antenna wire is automatically strengthened by impulses from the output of the tube.

Unless properly controlled, this action-will continue to build up until the saturation point or climax is reached, the tube being then said to be in a state of oscillation, it causes howling and squealing in your own and your neighbor's receiving sets. Regeneration should therefore never be allowed to proceed to this point as it then constitutes a public muisance.

Your Set Can Oscillate
You may be one of hundreds of thousands who can say, "But, my set is not a single circuit regenerative receiver. Mine is a five tube, so made that it cannot oscillate." That may be perfectly true, but if your set has tubes, anywhere from one to ten, it can cause interference. That may upset all your ideas on the subject; it may not agree with statements you've seen elsewhere, but it CAN cause interference. This brings us to the point that whether your set is to be classed as a



THE RACING DIALS

special landed on an orchestra. For a moment the melody poured forth, clear and pure with but a slight background of the ever present static. Then it died, with the grumble of a nearby blooper as its swan song. The search went on. At 200 meters, at 350, at 425, at 500, always the chorus of whistles, bloops, grumbles and clicks. Occasionally, the hum of vibrator or violet ray machine varied the monotony. One more snatch of music, one announcement was all the reward for the hours of building, the hours of search. Reports that trickled in during the rest of the week indicated that such was the result of the International tests for about 2,000,000 other set owners.

Who Is to Blame?

Who Is to Blame?

Many were the invectives used to comment on the condition of the atmosphere. New words were coined to properly express disappointment and chagrin. The older words were run to death. All of which has lead to much speculation and argument on one technical staff as to who is to blame. Let's first take the stations. Surely, no one can logically lay the finger of blame on them; the Americans were quiet at the times requested, the Europeans and South Americans were on their waves aid not heterodyning. Second, there are the makers of sets. You cannot blame them. The Radio public wants range, coast to coast reception and dance volume on everything from KFI to WEAF.

range, coast to coast reception and dance volume on everything from KFI to WEAF. To even approach such needs, regeneration must be possible on from one to three tubes. You people wanted it, you got it. A recent survey made by the Department of Marine and Fisheries of Canada relative to Radio broadcast conditions in the more populated centers in the Dominion indicates that approximately fifty percent of the "preventable interference" which prevails is caused through the incorrect operation of regenerative receiving sets by the broadcast listeners themselves. An article prepared by Mr. Andrew J. Allen, secretary of the National Broadcast Listeners' league, states that the most difficult sources of interference to vercome, and which create as much annoying and widespread interference to Radio reception in all cities at this time as any other cause, are the squeals, whines, whistles, squawks and howle of the radiating receivers.

hardest to behave. Regenerative sets still hold all records for interference and practically every magazine and newspaper in the country has run articles warning about such outints. Radio etiquette among broadcast listeners calls for the elimination of such interference. If each listener would remember that every time his set whistles coincidental with his tuning of it, he is sending out that same whistle to annoy all other listeners for a considerable area, it is believed that much of the trouble would soon be eliminated."

So there you are: no matter what agency investigates the complaints of the Radio public as to squeals and howls during international Test week, or any other time, the blame comes right back to the aforementioned Radio public's own door. Part of the interference is due to igno-

I WON'T BLOOP CLUB



CANT GET EM BRIGHTER

looper" depends upon the amount of the interference. So far in this article one would gather that interference is caused only when the set breaks into oscillation, to be recognized by the youl in one's own set. That is the extreme; any tube set radiates, causing interference, when the regeneration is advanced to the point where distortion creeps in.

set. That is the extreme; any tube set radiates, causing interference, when the regeneration is advanced to the point where distortion creeps in.

Some sets are supposedly "balanced" or neutralized so that high amplification can be had in the radio frequency amplifier tubes without the possibility of oscillation. Such construction is designed to set up a reverse feeding back around the radio frequency stages so that any regenerative feeding back will be offset and cannot build up into the condition known as oscillation. That is all very well at the particular wavelength at which the neutralizing was carried out but the further away in the broadcasting wavelength band that one gets, the greater the regeneration, and in most cases this closely approaches actual oscillation. These sets certainly can and do radiate.

Can "Bloop" 1,000 Miles

You and many others may question the extent to which such radiation interferes with others. It is this which determines whether one is a blooper or not. A lighthouse keeper in New York harbor, who is located several miles from shore, finds that, his only form of interference is caused by whistling receivers whose interference must travel at least five miles to enable him to hear it. In another case an amateur is reported to have experimented with such a device and was actually able to exchange signals with another station over a distance of five miles with only a WD-11 tube used as a detector. An oscillatory circuit can be built around a 199-tube, with only 140 volts B battery, and trainmission accomplished, at times, over 1,000 miles.

In Cleveland two tests were conducted under joint auspices of the Cleveland Palain-Denler and the Cleveland Radio association, to determine the extent of the area affected by oscillating Radio receivers. In one of these tests the oscillating set was heard clearly within a radius of 50 miles. An interesting incident is contained in Mr. A. J. Allen's article, mentioned before. "I was trying to locate a neighborhood blooper which was a source.

(Continued on page 24)

PLEDGE Rd

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

Make of my_set:	Signature
Number of	Address
tubes is:	City and State

I am cooperating in this campaign with Station...

Upon mailing this pledge to Radio Digest, "I Won't Bloop Club" membership card sultable for wallet or framing will be issued.

OYSTER DISHES ARE STRICTLY AMERICAN

BETTY CROCKER PRESENTS WAYS OF PREPARING

Food Expert Says We Should Perfect National Cookery Like People of Other Lands

By Betty Crocker

WE IN the United States are constantly talking about the famous old German dishes, the reast beef old England, Italian spaghetti, and the wonderful French sauces and pastry. I wonder how many of you realize that, we have some very fine culluary productions that are distinctly American. If we would be 100 per cent American we should at least know the dishes for which our land is famous, and furthermore, we should endeavor to perfect our national cookery so that we can point to it with pride, as do the people of these other lands.

Oysters are distinctly American, largely

lands.

Oysters are distinctly American, largely due no doubt to the fact that we have such an enormous production in this country. Oyster stew, oyster cocktail, and oysters on the half shell, are no doubt the most popular oyster dishes.

"MISS KITTY" GIVES RECIPES FROM WMC



"Miss Kitty," otherwise Katherine Nelson, of WMC, Memphis is making a fuver in the Southlands with her Monday and Thursday morning home economics discussions. Bighteen years of experience are behind this pretty domestic science specialist, although she doesn't look that old, and her rapidly growing audience which tunes in her 9:50 a. m. talk twice each week speaks well for her knowledge.

which times in her 9:50 a. m. talk twide each week speaks well for her knowledge.

This is the season when oysters are best, and so we should use them often. Any seasonable food is not only cheaper when in season, but is also much better that reason it is always wise to use such feed in its natural season as much as possible.

If wonder if you know that oysters come in different sizes. At large markets you may find as many as five sizes, and they usually vary in price, according to

Daily Women's Program Popular KFNF Feature

Afternoon Talks and Golden Rule Circle Winning Friends

SHENANDOAH, Iowa,—Although the Henry Field Seed company station, KFNF, here is regarded as the most popular farmers station of America, its feminine friends are legion and the jumber is rapidly increasing. Every afternoon from 3 to 4 p. m. Central time, the program is known as the ladies' hour and features songs and talks of interest to housewives, with the musical numbers being mostly in answer to requests.

Every Wednesday afternoon a special talk on flowers is given by Mrs. Helen, Fisher, sister of Mr. Field. Mrs. Fisher is a garden specialist and is capable of giving explanations and hints regarding the care of flowers.

Another feature of the station which the women have been especially interested in, is the Golden Rule Radio circle, which is an informal union of people who write in to the station that they are trying to live according to the Golden Rule. A certificate of membership is issued as an incentive to live such a life.

Woman Champ Set Builder

KANSAS CITY, Mo.—Mrs. J. R. Gar-rison, 1002 East Thirty-third street, here, has become a strong contendahas become a strong contender for honors among amateur set makers. She has just recently won second prize in a receiver building contest in the five and six-tube class. Mrs. Garrison's entry in the contest was a six-tube Bremer-Tully counterphase, and last year she constructed five-tube set.

worth, Texas. Why he's so married, ne has a brand new C. B. Jr., and the you wish to make of it.

Pamous Oyster Stew
Oyster stew is especially good because it is so hot and stimulating. The combination of the oysters with milk and butter gives us a very wholesome and appetising dish. There is nothing more welcome than a piping hot oyster, stew after a sleigh ride, skating party, or long automobile ride.

There is oyster stew, and then again (Continued on page 12)

Worth, Texas. Why he's so married, ne has a brand new C. B. Jr., and the you wish in chard neight point of the old block is broad-easting all night, thus getting in training to take over his daddy's job later on.

Continuing along the popular WBAP strain, for the boy chums this time, let me tell you shelks about a dandy, fine girl you must tune in. She's known as ferr a sleigh ride, skating party, or a long automobile ride.

There is oyster stew, and then again (Continued on page 12)

(Continued on page 12)

SHORT WAVES

By Marcella -

Now what ever prompted you. Ellen, to believe that "Tom Thumb" and Peter MacArthur, both of WOC, Devenport, are one and the same? Yes, the voices are very, very similar. But then, Mr. Twamley, the studio director of the Twamley, the studio director of the Trumbis' director it must remain.

"Bill" W. G. Hay, ex-KPKX and ex-WOK, is now doing a full turn on WGN and WLifs. The Tribune tells me he is so popular they had to put special heavy railings in the studio to keep the ladies away. But why run after him? He's not a ladies' man. He's a Scoo-ootchman and his beloved is his bonine wife (whose lemon fluff pies I reported on previously). But you can't help liking him, can you?

Graham McNamee doesn't sing over the Radio to my knowledge, but I have written him just to be sure, Will let you know soon.

E. L. Tyson is all wrought up over what I said about him recently. He says his wife will call me to account to explain why I said he was probably single. Well, the charming WWJ announcer didn't tell me whether he was matrimonially zero or not, and he didn't have that worried look, so I just thought he must be single—just like I am. But now the truth comes out.

Speaking of benedicts, girl friends, here's another one to cross off the mash note list. To wit, one CEL, or C. B. Locke, announcer for WBAP, the Hired Hand-Star Telegram station at Fort Worth, Texas. Why he's so married, he has a brand new C. B. Jr., and the younger chip off the old block is broad-casting all night, thus getting in training to take over his daddy's job later on.

(Continued on page 12)

WOMEN'S PROGRAMS INDEX

Saturday, February 13

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

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

Monday, February 15

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

WTAG (208m-1120kc) Talk, Marjorie Woodman, mirse. 0

WEAR (389.4m-770kc) Home service talk. WHT (399.8m-750kc) Women's program. (11.15 01.15 91.5 91.5 81.5 WTIC (375.9m-830kc) "Interior Decorating," Mrs. C. Barstow. 0.350 93.6 3.50 KFAB (370.7m-889kc) "Therior Decorating," Mrs. C. Barstow. 0.350 93.6 (11.5 Enjoy Clething Ciths," Mary Borrosson. WTIC (475.9m-630kc Housewife's forum. 11.48 10.45 WCCO (416.4m-720kc) "For the Jam Pot," Betty Crocker. WDAF (365.6m-820ke) 'For the Jam Pot," Betty Crocker.
WHT (399.8m-750kc) Home Service talk, Betty Crocker.

Crocker.

19 08. Household hints.
WGJ (437.5m-670e) "Baiking Talk," Cleve Carney. Starches the Tropics Send You," Maude R.
Jarobs. NGJ (437-504-590/sc) Anosenate mass. Clove Carameter (197-50-197) (197

7:15 p. m. 6:15 p. m. 5:15 p. m. 4:15 p. m. WKAR (285.5m-100ke) "Improvised Equipment for Lurge Quantity Cookery" Elizabeth Bentis. 7:30 6:30 5:30 4:30 WKAR (285.5m-1000ke) "Billing of Selecting Domestic Floor Coverines," Wintfred Getteny, 8:45 6:45 4:45 4:45 WKAR (285.5m-1000ke) "Foods to Serve for 100 People," Louise Ciennas.

Tuesday, Pebruary 16
Eastern Central Meuntain 6930 a.m. 8.300 a.m. 7.300 a.m. 6.300 a.m. 7.300 a.m. WTAM (288m-1120ke) Talks to Mothers, Rosebello Jacolus. 9

WEAR (389.4m-770ke) Home service talk. WHT (399.8m-750ke) Women's club, Jean Sargent. WMCA (340.7m-858ke) Home sarker's but. 180.00 (1870m-118.3 When's club, Jean Sargent. WMCA (340.7m-858ke) Home maker's butr. 180.00 (1870m-118.3 When's club, Jean Women. Wents to Know, Misses Miller and Fried Women. Wents to Know, Misses Miller and Fried Tilden. Some Questions, Winfired Tilden. 19

12.1 (19.00

| 12.00 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.5 8 7 6 5 WPG (299.8m-1000kc) Fashion Flashes. 8:30 7:30 6:30 5:30 KGO (361.2m-830kc) As a Woman Thinketh.

Wednesday, February 17 Wetnesday, February 1 Eastern Central Mountain Pacific 9:30 a.m. 9:30 a.m. 7:30 a.m. 6:30 a.m. WWJ (352.7n-350kc) Tonishi's dinner, 10 9 8 7 WWI (352.7 m - \$50ke) Tonisht's dinner, 7 m - 10 m - 20 m | 11:30.a.m. | 10:30.a.m. | 9:30.a.m. | 8:30.a.m. |
KFAB	(349.f.m.\$20.cc)	Spring Toules
11:45	10:45	9:45
WCCO	(416.4m.720.cc)	American Foods Served American Style, Betty Cocker.
WDAF	(365.6m.820.cc)	American Foods Served American Style, Betty Crocker.
WHT (393.8m.750.kc)	Home Service talk, Betty Crocker.	Crocker. 12 n. 11 10 9 WGN (302.8m-990kc) Household hints. WQJ (447.5m-670kc) "Child Welfare," Dr. Lena

12:30 p. m. 11:30 10:30 9:30 WEBH (370,2m-\$10kc) Fashion and Household WEBH 1370,2m-310ac) results of fashions. Talks. WGN (302.8m-390ke) Discussion of fashions. 12.35 11.35 10.35 9.35 KYW (585.m-590ke) Fable talk. 10. XPO (428.3m-20ke) Sowing talk. 3 12. n. 12. XPO (428.3m.700ke) SewIng lalk.

WCCO (416.4m.720ke) Woman's hour. 'Social Pates and the Indeterminate Sentence,' Dr. Smiley Blanton. "2 p. m. i p. m. WLW (422.3m.710ke) Cooking school. WCC (483.6m.620ke) Home Management schedule, Aunt Jane.

WOC (483.6m-cource) rume namenous and Aunt Jane.
WOJ (437.5m-670kc) "Muffins That Are Popular,"
Helen Downing: "Pools Fasts Versus Fads."
Kean K. Rich.
450 2-30 130
KFNF (263m-1140ks) Flower talk.
2 2 5. 1. 2001. 14 100. 1 10. 2 10

Thursday, February 18

Eastern Central Mountain Pacific 330 a. m. 830 a. m. 7-20 a. m. 6-30 a. c. m. 907 (55-30 a. c. m. 100 (55-30 a. c. m. 100 a. m. 100 a

with the County of the County

Talks, m. 11:35 10:35 9:35

EXVM (535.4m-560ke) Table talks.

10 Table 12 n. 11

EVO (428.3m-700ke) Domestic science. 10

EVO (428.3m-700ke) Stories for Children Under Six, Marjorie Culter. 2 pt. m. 1 p. m. WOC (483.6m-620kc) Home Management schedule. Aunt Jane. WQJ (447.5m-670kc) "Invite Your Neighbors to Afternoon Tea," Helen Downing; "Care of the

Feet," Dr. Frank Furch; Golf lesson, Ralph Thorm.
5 p. m. 4 p. m. 3 p. m. 2 p. m. KFOA (d54.3m-690ke) Home helps.
KSD (694.1m-550ke) Women's hour.
530 p. m. 4.39 p. m. 3.30 p. m. 2.30 p. m.
64. (322.4m-560ke) Elossorives' matines.
615 5.15 4.45 3.30 p. m. 510 p. m. 615 Cover.
615 COA (322.4m-5930ke) Cultinary hints, Clara Hoover.
615 COA (322.4m-5930ke) Fashion review, Sally Dec. Aya (1922-un-939ke) Fashion review, Sally Dec.

KFOA (454.3m-669ke) Today's recipe.

KFKU (276m-1090ke) Why Study Dostin,
KFMU (299.8m-10090ke) "How Do Children Get
Their Food Habits?" Emma Johnson; "Pootry for
Children," B. Francell Wilson.

KRAO (316.7m-839ke) "The Family Rudget,"
Lucile O. Rust; "Food After Forty," Pearle
Roby.

Friday, Pebruary 19

Eastern Central Mountain Pacific 5:30 a.m. 6:30 a.m. 7:30 a.m. 7:30 a.m. 6:30 a.m. 7:30 a.m. 7: Friday, February 19 12:30 p. m. 11:30 10:30 9:30 WEBH (370.2m-810kc) Household and fashion Lalles, WGN (302.8m-990ke) Discussion of fashions, 12.35 11.35 10.35 9.35 KYW (353.4m-560ke) Table talk, 1.45 10.45 WOAW (526m-570ke) Sunshine Sunday dimer nenu, 2.n.m. 2.n.m. (2.n.m. 2.n.m. (2.n.m. 2.n.m. 2.n.m. 2.n.m. 2.n.m. (2.n.m. 2.n.m. 2.n.m. 2.n.m. 2.n.m. 2.n.m. (2.n.m. 2.n.m. 2.n. | WOAW (526m-570kc) | Sunshine Sunday dinner menu. | 2 p. m. | 1 p. m. | 12 n. | WCCO (416-im-729kc) | Women's liour. | 1 p. m. | 12 n. | WCCO (416-im-729kc) | Women's liour. | 1 p. m. | 12 n. | WCCO (482,6m-629kc) | Home Management, Aunt Janne. | WOJ (447.5m-670kc) | For Dlabes, "Helen Downstein | Londones for Lunciers," Mary Hate Martin. | WFAA (475.5m-639kc) | Housemakers programs. | WFAA (475.5m-649kc) | Wental (475.5m-6

AN EVENING AT HOME WITH THE LISTENER IN IN CENTRAL TIME

Call	Location	Met.	Saturday	Sunday	Monday	A STATE OF A	(No.		
AT9 CFCA	Fort Bragg, N. C.	435	Silent Silent	5:00- 6:00 6:00- 8:00	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Silent Silent	Silent 6:00-11:00	Thursday 7:00- 8:5	5 Silent
CICA	Toronto, Ont Galgary, Alta Edmonton, Can	516.9	11:00- 1:00 10:00-12:00	Silent 8:30- 9:30 1:45- 2:45	Silent	Silent 8:30-9:0	SHent 0 7:00- 9:00	Silent 9:00-10:0 10:00-12:0	Silent Silent 9:00-12:00
CKAC CKNC CKY	Terento, Ont	356.9	6:00-10:30 7:00- 9:00 8:00-11:00	1:45- 2:45 Silent 7:00-10:00	7:00-10:00	6:00-10:3	Silent Silent	6:30 - 8:30 Silent	Silent Silent
CNRO CYL	Ottawa, Ont	434.5 480	7:30-12:30 Silent	Silent 9:24-10:54	Silent Silent	Silent 9:24-10:5	7:30-11:00 7:30-12:30 Stlent	Silent Silent	Silent Silent 9:24-10:54
KDKA	Pittshurch Pa	350	8:24- 0:24 5:30- 8:58 5:30- 9:30	3:00- 7:45	8:24- 9:24 5:30- 8:50	8:24- 9:2- 5:30-I1:3	8:24-9:24 5:30-8:55	8:24- 9:24 5:30-11:00	8:24- 9:24
KFAB KFDM KFI	Lincoln, Nebr Beaumont, Texas	340.7 315.6	5:30- 9:30 Silent 8:00- 5:00	4:00-11:00 8:00- 9:00 6:00- 1:00	5:30-10:30 Silent -8:00- 1:00	8:00-10:30	5:30-10:30 Silent	Silent Silent	5:30-10:30 8:00-10:30
KFIF		261 288.5	6:30-10:45 5:30-6:30	2:30-11:45 Silent	6:30-10:45 9:00-11:00	6:30- 7:30	8:00-1:00 6:30-12:00 9:00-11:00	8:00-1:00 6:30-10:45 7:00-8:00	6:30-10:45
KFMQ KFMX KFNF	Northfield, Minn.	336.9	Silent Silent	Silent 7:00- 8:00 7:30- 8:30	7:30-8:80 Silent 7:00-9:00	9:30-10:0	9:00-10:00	8:00- 9:00 Silent	Silent 10:00-11:00
KFOA	Shenandoah, Ia Seattle, Wash Columbia, Mo	454.3 499.7	7:00- 9:00 10:39- 1:30 Silent	Silent 7:30-8:30	8:45-12:00 6:15-7:15	10:30-12:00 6:15-7:15	8:45-12:00	7:00- 9:00 Silent 6:15- 7:15	7:00- 9:00 8:45- 1:30 12:00- 2:00
KFVE KFWB	St. Louis, Mo Univity City, Mo	240	9:15-10:15	4:00-10:15 Silent	9:15-10:15	9:15-10:13	9:15-10:15	Silent	9:15-10:15
KFXF KGO	Hellywood, Calif Colorado Springs, Oakland, Calif	250	9:45 - 2:00 8:00-10:00 10:30 - 2:00	11:00- 1:00 6:30- 8:00 5:30-11:30	9:00- 2:00 7:30- 9:30 8:00-12:00	7:30 - 2:00 8:00 - 1:00	Silent	9:00- 2:00 8:00-10:00 10:00- 1:00	9:00- 2:00 Silent
KGW	Los Angeles, Calif.	491.5	8:00- 2:00 8:00- I:00	9:25-12:00 8:30-12:00	8:00-11:00 Silent	8:00 - 2:00 8:30 - 1:00	8:00- 1:00	8:00-10:00 8:00- 3:00	11:00-12:30 8:00- 1:00
KIAP KIR KLDS	Sintipok, Minn Seattle, Wash Independence, Mo.	384.4 440.9	Silent 10:30-12:00 8:00- 0:00	4:00- 5:00 9:15-11:00 6:30-10:00	9:00-10:00 9:00- 1:00 Silent	Silent 10:30-12:00 8:00-11:59	9:00-10:00 9:00-12:00 Silent	Silent 10:30- 2:00 8:00- 9:00	9:00-10:00 10:30- 1:00 Silent
KLX	Oakland, Calif Shenandoah, Iowa	508.2	Silent 6:00-11:00	Silent 4:00- 6:00	6:00-12:30 6:00-11:00	Silent. 6:00-11:00	6:00-12:00	Silent 6:00-11:00	6:00-12:30 6:00-11:00
KNX	Hellywood, Calif Denver, Celo	322.4	8:15- 4:00 10:00-12:00	4:00-12:30 4:00- 9:45	8:15-2:00 7:30-11:30 8:30-9:30	8:15- 2:00 7:30- 9:30	7:30-1:00	8:15- 1:00 7:30- 8:30	8:15- 2:00 7:30-10:00
KOB KOIL KPO	State College, N.M. Council Bluffs, Ia. San Francisco, Cal.	278	Silent 7:00- 3:00 8:35- 2:00	Silent 7:00-12:00 7:00-1:00	6:00-12:00 8:40- 1:00	Silent 6:00-12:00 8:15- 1:00	Silent 6:00- 7:15 8:15- 1:00	Silent 6:00-12:00 8:15- 1:00	8:30-9:30 7:00-12:00 8:30-1:00
KPRC	Houston, Texas	296.9 315.6	7:30-12:00 10:00-12:00	7:30-10:30 8:45-10:45	7:30-10:00 Silent	7:30-9:30 10:00-11:30	7:30-12:00 Silent	7:30-12:00 10:00-11:00	Silent Silent
KSD KSL KTAB	St. Louis, Mo Salt Lake City, Ut. Oakland, Calif	545.1 299.8 240	7:00-10:00 9:00-12:00 Silent	6:15-9:15 10:00-12:00 9:45-1:00	7:00-12:00 9:00-12:00 10:00-12:00	6:55-10:00 10:00-12:00 10:00-12:00	7:00- 9:00 9:00-12:00 Silent	6:55-10:00 9:00-12:00 11:00- 2:00	7:00-10:00 10:00-12:00 10:00-12:00
KTBI KTCL KTHS	Los Angeles, Calif. Seattle, Wash Hot Springs, Ark	293.9 305.9	Silent Silent 9:00-11:00	9:15-11:30 '8:10-11:10 9:00-11:30	Silent	10:00-11:00 10:00-11:00 9:00-11:00	Silent Silent 9:00-11:00	10:00-11:00 Silent 9:00-11:00	Silent 9:00-2:00
KTW	Seattle Wach	374.8 455 261	Silent 9:00-12:00	9:00-11:30	Silent 10:00-11:80	9:00-11:00 Silent 9:00-12:00	Silent Silent	Silent 8:00- 9:30	9:00-11:00 Silent
KWSC	Pullman, Wash Brownsville, Tex	348.6 278	Silent -6:00- 7:00	Silent 2:30- 3:30 4:00- 8:00	9:30-11:00 8:30- 9:30	Silent 6:00- 7:00	9:30-11:00 6:00-7:00	Silent 6:00- 7:00	Silent 9:30-11:00 6:00- 7:00
NAA PWX	Chicago, III	535.4 434.5 400	7:00-10:00 Silent 7:30-10:00	Silent	Silent 6:45- 7:00 Silent	7:00-12:30 7:30- 8:30 Silent	7:00 - 1:30 Silent 7:30 - 10:00	7:00-12:30 Silent Silent	6:00- 7:00 7:00- 1:30 Silent
WADC WAHG WAMD	Richmond, N. Y	400 253 315.6	7:30-10:00 5:80-6:30 11:00-1:00 6:15-12:00	Silent 5:30- 6:30 Silent	5:30- 6:30 6:30- 1:00 7:00-12:00	5:30-10:00 SUent	7:30-10:00 5:30-6:30 6:30-11:00	5:30-10:00 Silent	Silent 5:30-10:00 7:00-10:00
WBAL	Minneapelis, Minn Baltimore, Md Fort Worth, Tex	244 246 475.9	Silent 9:30-11:00	7:00-10:00 5:30- 6:30 9:30-11:00	5:30-12:00 7:30-12:00	8:45- 9:45 5:30- 8:00 7:30-11:00	7:00-12:00 Silent Silent	6:15-12:00 5:00- 9:00 7:30-12:00	7:05-12:00 5:30- 8:00 7:30-12:00
WBBM	Sisiht, Wis	226	Silent 8:00- 1:00	8:00-2:00	9:00-10:00 6:00- 7:00	Silent 8:00-12:00	8:00- 9:00 8:00- 2:00	7:30- 8:30 8:00-12:00	8ilent 8:00-10:00
WBBR WBCN WBZ	Staten Island, N.Y. Chicago, III Springfield, Mass	286	8:00-1:00 7:00-9:00 9:00-1:00 5:80-7:80	8:00-9:15 5:00-12:00 7:00-8:00	7:00- 8:00 Silent	Silent 9:00 - 1:00 5:00 - 9:15	Silent 8:00-12:00 5:00- 9:15	7:00- 8:00 9:00- 2:00 5:00- 9:15	Stlent
WCAE	Pittsburgh, Pa Washington, D. C.	461.3	7:30-8:30 Stlent	5:30- 7:20 8:00- 9:15	5:00- 9:15 7:30-11:00 6:00-10:00	7:00-10:00 Silent	7:30-9:00 5:45-11:00	8:00-10:00 Silent	9:00- 1:00 5:00- 9:15 7:00- 8:30 5:00-11:00
WCBD	Philadelphia, Pa Zion, Ill	278 344.6	Silent Silent	4:00-10:30 8:00-10:30	7:00-10:30 Silent	5:45-11:00 8:00-10:30	5:45-12:00 Silent	5:30-11:00 8:00-10:30	5:00-11:00 6:30-10:30 Silent
WCCO WCX WDAF	Minn-St. P., Minn. Detroit, Mich Kansas City, Mo	516.9	6:15-11:05 5:00- 6:00 6:00- 1:00	4:10- 8:15 6:15-7:15 4:00- 4:45	6:00-10:00 5:00- 8:00 6:00- 1:00	6:15-10:00 5:00- 1:00 6:00- 1:00	7:00-12:30 5:00- 8:00 6:00- 1:00	7:00-11:05 5:00-8:00 6:004 1:00	6:15-11:05 5:00-10:00
WDBO	Winter Park, Fla. Providence, R. I	240 440.9	8:00- 9:30 Silent	4:00- 5:00 Silent	8:00- 9:30 Silent	8:30-10:00 6:45- 7:00	6:00- 1:00 8:00- 9:36 6:25- 7:40	5:00-8:00 6:004 1:00 8:00-9:30 6:45-7:00 5:00-11:00	6:00- 1:00 8:00- 9:30 6:45- 7:00
WEAF WEAO WEAR	Cleveland, Ohio	491.5 293.9 389.4	5:00-11:00 Silent 6:00-12:00	1:00- 9:15 Silent 6:00- 9:15 5:00- 9:00	5:00-11:00 Silent 7:00-11:00	5:00-11:00 6:00- 8:00 6:00- 9:00	5:00-11:00 7:00- 8:00 6:00- 7:00	7:00-10:00 8:00-10:00	5:08-11:00 Silent 6:00-10:00
WEBJ	New York, N. Y	370.2 272.6	7:00- 2:00 Silent	5:00- 9:00 Silent	Silent	7:00-12:30 7:00- 9:00	7:00-12:30 7:00- 9:00	7:00-12:30 Silent	7:00-12:30 6:00- 8:00
WEEI WENR WFAA	Boston, Mass Chicago, III Dallas, Tex	348.6 266 475.9	Silent 6:00- 2:00 6:30-11:00	2:00-11:30	7:30- 9:00 Silent	7:00-10:00 6:00-10:00 6:30-12:00	7:00-10:00 6:00- 2:00 Silent	7:00-10:00 6:00-10:00 6:30-12:00	7:00- 8:00 6:00- 2:00
WFI	New York, N. Y Philadelphia, Pa	272.6 394.5	10:30- 1:00 7:00- 8:30	6:30- 7:30	6:30- 9:30 0:30- 1:00 Silent	10:30 - 1:00 7:00-11:00	10:30- 1:00 Silent	0:30-1:00 7:00-10:00	6:00- 2:00 6:30- 9:30 10:30- 1:00 Silent
WGBU	New York, N. Y Fulford, Fla New York, N. Y.	315.6 278 252	5:00-10:30 5:30-12:00 Bilent	8:30-11:00	6:00-6:15 5:30-12:00 7:00-10:00	5:00-10:30 5:30-12:00 Silent	5:00-7:30 5:30-12:00 7:00-10:15	5:00- 7:45 5:30-12:00 Silent	Silent 5:30-12:00
WGES WGHB WGHP	Oak Park III	250 265	8:00- 1:00 5:30-12:00	5:00- 7:00 Silent	5:00-7:00 5:30-12:00	5:00 - 1:00 5:30-12:00	5:00- 1:00 5:30-12:00	5:00- 1:00 5:30-12:00	7:00-10:00 5:00-1:00 -5:30-12:00
WGN WGR WGY	Clearwater, Fla Detroit, Mich Chicago, Ili Buffalo, N. Y	270 302.8 319	Silent 6:30-10:00 Silent	3:00- 9:15	6:00- 8:00 6:30- 7:00 7:30-12:00	6:00-8:00 6:30-11:00 7:00-10:00	6:00-8:00 6:30-11:00 7:00-12:00	8:00-10:00 6:30-11:00 7:00-10:00	8:00-10:00 6:30-11:00 7:45-12:00
WHAD	Milwaukee, Wis	379.5 275	8:00-11:00 Silent	5:30- 9:00 8:15- 4:15	5:30- 7:30 6:15-10:00	6:00-10:00 6:15- 7:00	Silent	5:45-10:30 6:15-7:00 6:30-10:00	6:15-10:00
WHAR WHAS WHAZ		275 399.8 379.5	6:30- 9:30 7:30- 9:00 Silent	6:50-12:15 4:00- 5:00	6:30- 9:00 Silent 8:00-11:00	6:50-12:15 7:30- 9:30	7:30- 9:00	6:30-10:00 7:30- 9:00 Silent	6:30-12:15 7:30-9:00
WHN	Kansas City, Me New York, N. Y	365.6 361.2	Silent 6:30- 9:00	Silent 8:00- 1:30 4:00- 4:30 4:00- 8:30	7:00-8:00 7:00-11:00	Silent 7:00-10:00 8:30- 9:00	9:00-10:30	7:00-10:00 7:00- 9:00	Silent 7:00- 8:00 6:30-11:30
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STATIONS IN ORDER OF WAVE LENGTHS

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		2.6 WEBJ	302.8	WLIB	352.7	WWJ	405.2	WOR	475.9	WBAP
		72.6 WFBH	305.9		356.9		406	WBAR	475.9	WTIC
		73 WRW	305.9	WJAR	356.9	CKNC	410.7	CKAC		
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		0.2 WNAC	322.4		379.5	WHAZ	434.5	NAA	508.2	KLX
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SHORT WAVES

By Marcella (Continued from page 11)

(Continued from page 11)
ental name. She's a beauty—20 years
old, bright red hair, all that a bachelor
could desire. The Hired Hand heard her
sing last fall and gave her a special
course in microphone singing. She had
never seen' a mike before this winter, at
WBAP. Now her popularity is overwhelming—has been from the start—
and her mail averages somewhere between 150 and 250 cards and letters a
day. The postman hewilders her for she
hasn't yet quite conceived that she is
gaining fame continent-wide. The H. H.
informs your special goesip pervader that
she no doubt will return to Kansas City
"when the robins bloom" as she is visting Fort Worth, for the mild winter climate (adv) and to get away from the
harsh winters up north (not adv). Any
Saturday night from 9:30 fc 11; p. m.
Central time, will bring her in on 475.3
meters.

The Hired Hand told me about Bessie, the Sunflower Girl, in a letter explaining about his married life. He is married, it seems, and his wife 'raises h...'' (the H. H.'s own words) most of the time because he refers to his home as his boarding house. Hard lines, aren't they girls. Better write to him and sympathize.

This is not a WBAP column, but I must add one more thought. That delightful orchestral marvel who leads the band at the Texas hotel, heard from Fort Worth, is not an Indian just because his name is Chief Gonzales. He's of Spanish decent, and dark—and HANDSOME.

Ish decent, and dark—and HANDSOME.

The "Oh Henry" Boy. Walter Preston, known to thousands of WIBO listeners, is married, Sarah. Sorry, my dear, but he's very happy. No chahee at all. He directs WIBO now, having been recently promoted, and has a beautiful tenor voice, as you know. Besides being married, he proves himself a model husband by liking to play bridge and winning a prize now and then. Very good looting, slender, 'built for speed,' weighs about 140 pounds, is about five feet eight inches tall, and Charleston's modestly but admirably.

You home-seeking fair ones, you experimental cooks, listen with Georgia to the facts regarding Wayne Meyers, the new announcer at WIBO. Wayne is single. I place that first because that its the first question Georgia saks. He is also one of the most even-tempered men I have had the good fortune to met. His hobbies are his mother and music. He supports his mother for his dad is dead. Went overseas for the big fight and there got acquainted with another now bepular announcer. Pat Barnes of, WHT. Wayne Meyers is now 27 years old. stretches up five feet five inches, weighs 135 pounds, has hair "betwixt and between" and looks at you through gray eyes. He is persistent and careful, nice and pleasing. He sings if urged, and as an excellent matrimonial quality, I must add, he does not play golf. new announcer at WHEO. Wayne is single. I place that first because that is the first question Georgia asks. He is also one of the most event-tempered men I have had the good fortune to meet. His hobbies are his mother and music. He supports his mother and music. He supports his mother for his dad, is dead. Went oversens for the big fight and there got acquainted with another now popular announcer. Pat Barnes of WHT Mayne Meyers is how 27 years old, stretches up five feet five inches, weighs 135 pounds, has hair "betwith and between" and looks at you through gray eyes. He is persistent and careful, nice and pleasing. He sings if urged, and as an excellent matrimonial quality. I must add, he does not play golf.

What deep secret would you like to know about your favorite broadcast star?

Drop me a note, girls and boys, and Til do by best to answer here. MARCELLA.

OYSTER AMERICAN DISH

(Continued from page 11)

(Continued from page 11) there is cyster stew. It is all according to the way you make it. A certain chef, in New York city is quite famous for his cyster stew. His secret is in the way he prepares the cysters. He cooks them in butter quite slowly for several minutes before adding to the milk. It is quite surprising what a difference that one thing makes in the flavor of the stew.

stew. This is the way we prepare it in our model kitchen: Model Kitchen: One pint of oysters, ½ cup butter, 1 teaspoonful salt, 1 pint of milk, ½ cup of cream.

Method: Pick over the oysters, removing any pieces of shell. Melt butter in a sauce pan. Add the oysters and cook gently until the edges curl. Seald the milk and cream. Add to the oysters. Season with salt and pepper. Let stand hot several minutes, then serve. This stew may be made-with all milk, or with a larger propertion of cream, according to how rich you wish it.

a larger propertion of cream, according to how rich you wish it.

Scalloped Oysters

In preparing scalloped oysters, use equal parts of bread crumbs and cracker crumbs. If you use all bread crumbs the mixture will be too wet, and all cracker crumbs are objectionable because they soak up too much of the oyster liquor. Here is our recipe for scalloped oysters that has been very popular among our friends all over the country.

One pint oysters 1½ cups crumbs, I chaspoonful salt, ¼ teaspoonful pepper, 1/3 cup butter, 4 teaspoonsful cream, 4 teaspoonsful oyster liquor.

Method: Be sure to use half bread crumbs and half cracker crumbs in this recipe. Place a layer of the mixed crumbs in a buttered baking dish. Add a layer of oysters. Season with salt and pepper and dot, with butter. Add another layer of crumbs, then more oysters, and season as before. Pour over the cream and liquor. Cover with another layer of crumbs. Bake in a moderate oven thirty minutes (\$50° Fahrenheit).

Pried Oysters

minutes (\$50° Fahrenheit).

Fried Oysters

I have discovered that many people think of fried oysters as a restaurant dish, and seldom, if ever, attempt to prepare, them at home. Fried oysters are very easily prepared, and there is, no reason why you cannot have a fried oyster supper at home whenever you wish. Drain off any liquor. Roll each oyster in four so that it is entirely covered with a coating of four; then dip in egg, roll in sifted bread crumbs and fry in deep fat.

ADVANCE PROGRAMS FOR THE WEEK

Saturday, February 13

Headlineys Today

Enstern Central Mountain Pasith

8 p. m. 7 p. m. 6 p. m. 5 p. m.

WFI (394:5m-700kb) Boosters' club.

WFI (394:5m-700kb) Boosters' club.

WTAMI (385-4m-770kb) Hollenden heim:

WAMID (244m-1230kb) Mailment's musics 5:10

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11:15 | 0:15 | 0:15 | 8:15
KTRS (374.8m-800ke) Big Four Hawattans orchestra.

Saturday, Silent night for: CFAC, CFCA, CNRA, ONRO, CNRE, CNRM, CNRM, CNRT, CNRY, ONRY, CKKF, KLX, KMA, KOAC, KOB, KQP, KSAC, KSO, KTAB, KWSC, WABB, WCX, WOOD, WEAO, WEBJ, WEEW, WEEL, WGCP, WGST, WHAD, WHAZ, WGR, WHB, WHO, WHY, WGR, WHAY, WAR, WHAY, WGR, WGS, WRYA, WHAB, WHIC

Eastern Time Stations

Eastern Time Stations

GFGA, Teronto, Can. (356.9m-840kc), late news reports.

GKAC, Morteral, Can. (410.7m-730kc), 715 p. m.,
Windoor hotel dinner hour: \$3.0, studio concert; 10.50.

GKNO, Toronto, Can. (356.9m-840kc), 2 p. m., CNCO.

chamber orchestra; Arthur VanderVoort, bass; HazelHall VanderVoort, suprano, 5-10, Chatles B. Bodley.

Hall VanderVoort, suprano, 5-10, Chatles B. Bodley.

NRO, Ottawa, Can. (434.5m-690kc), 5 p. m., Chatesu
Laurier concert orchestra; 8.16, Myriah, Kendell, Pianlai; Mrs. F. J. Henring, violitist; Maric. Riesardi, Chateau Laurier danse oraciestra.

NRO, 358. (310.5m-20.5m), 10.5m, 10.

William Penn hotel; 7:39, Legion banquet; 8, Youngatown artists.
WEAF, New York, N. Y. (491.5m-610kc), 6:45-7, 7:20
a. m., health exercises; 4-5 p. m., dance program; 6v
12 infidinitit, dinner music; Ross Gorman and his ortclustra; Chamber musical, Elvira Boni, sogram; Nino,
Ituisi, bass; American vocal quartet; Rosella Sheiner,
John Chamber and Sheiner, Sogram; Nino
uttilists; John Guinning and Shein Zuckerman, Jaine
Barrett and his orchestra; Vincent-Lopez and his
Barrett and his orchestra; Vincent-Lopez and his

doutlists; Irvine Players, two one-ad, plays; Hughie Barreit and bis ord-nettrix; Vincent Lopez and his week and bis ord-nettrix; Vincent Lopez and his week and the control of the contro

orchestra.

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

orchestra.

WHAR, Atlantic City, N. J. (275m-1890kc), 2 p. m., Seastile botol, trio, 7:39, lecture period; 8, Seastile WHAR, Atlantic City, N. J. (275m-1890kc), 2 p. m., Seastile botol, trio, 7:39, lecture period; 8, Seastile WIP, Philadelphia, Pa. (3692m-1890kc), 6:45 a. m., setting-up exercises; 7, setting-up exercises; 10, menu talk, Mrs. Anna B. Sott: 10:30, reducing exercises; 11 p. m., organ rectila; 3, Dal Ruch and his Arcentian; 8 with politic stries; 8, sports concert, Dr. Francels D'Ellacu; 8:15, basketball game, University of Penn. vs. West Politic 10:35, Chaner to Colonel George E. Krup, Postmaster of Phila., speakers; Senator George C. S. New, Postmaster-General of U. S.; 11:15, organ rectila, Germantown theater.

WIAR, Providence, R. I. (305-9m-980kc), 1:05 p. m., Zikes Bon Ton cordentra. (304-5m-760kc), 12:02 daily slammar; Staniey theater organ rectila; Arcadia carle cancer: orchestra; 2, dance orchestra; 4:30, Cotton Pickers' chance orthestra; 7:30, Bonjamb, Franklin hield: concert orchestra. (366m-1130kc), 6:15-7:15 p. m., dinner music, Hotel Laftgotte orchestra; 7:30-8:30, musical program, 13:30-9, musical program, Beaver Products company, 9:30-19:30, program, Sumits Polat. Deducts of program, 10:30, Program, 10:30, Program, 10:30, Woofmanston Inn orchestra; 10:30, Norman Pearce, reader; 11, Ernic Golden and his Hotel McAlpin excended; 11, Ernic Golden and



This beautiful actress is Miss Kay Hammond whose readings over WSMB, New Orleans, have charmed thousands. Miss Hammond is an athlete and enthusiastic sportswoman. She is also a leutenant in the Ambulance Corps of America.

WNAC, Beston, Mass. (280.2m-1070kc), 6 p. m., Smilers; e. 230, Shopard Colonial dinner dance; \$1.5, intercellege of the control of the contro

High Lights of the Week

"SUNSET LIMITED OF 1926" takes to the ether from KPRC, Houston, Saturday night. This is one of the latest vehicles of the year to carry light opera music. The crew is the Southern Pacific give club. Another event of the evening is the intercollegiate glee club concert at WNAC, Boston. Colleges competing are Boston university, Clark, Holy Cross, Wesleyan, Williams, Boston college, Brown, Bowdoin, Middlebury and Trinity. Boy Scouts are meeting this same evening at WTIC to celebrate their sixteenth anniversary.

Scouts are meeting this same evening at WTIC to celebrate their sixteenth anniversary.

Hired hand, branchman, Klondyke, miner, engine wipen, vaudeville and cabaret singer are a few of the past professions of Allen McQuhae, tenor, who sings from KPO, San Francisco, Sunday, Mr. McQuhae is now famous for his Irish songs. The twinght program of WBAL, composed entirely of Grieg music given by the WBAL concert orchestra, will also tempt fans to dial 246 meters. John Wilbourn is the tenor soloist.

The Cincinnati community committee will play a pretty compliment to the governor of Ohio Monday evening when all his favorite musical compositions are given by the community quartet. Slavonic rrusic by the Zahpad trio is the Monday feature at KFI, Los Angeles.

CNRV of Vancouver will enter the

dramatic world Thesday when the three-act play, "Peg o' My Heart," is produced. This promises to be the Radio theatrical event of the CNR stations. An interesting series of lectures on points of peril in concemporary diplomacy is scheduled for Thesday evenings at KFMX. Northelad. Prof. Keith Clark's talk this week will be on Mosul as a stragetic point of the Near East. This city is located in Syria.

Historical gilmpses of the West during the heroic struggle of Colorado trail blazers in 1858 and 1859 will be given Wednesday from KOA, Denver. "There Were Giants in Those Days" is the subject of the talk by Joseph Emerson Smith.

Madame Olga Samaroff, planist, who was heard recently over the WEAF chain, will talk at 5 p. m., Eastern time, from WTIC Thursday. An airplane trip to the Big Ten universities will be taken by the Columbus men's quartet from WEAO this same evening. Snappy news items from each campus and university songs will entertain the listener.

Paul Ash and his merry-mad gang will invade the studio of KYW, Childen will begin at 11 p. m., Central time. Peaul Ash is as informal with his Radio audience as he is with his stage spectators. A merry time is always had by all.

(RC, Washington, D. C. (468:5m-640kc), 12 m., organ rectal; 1 n. m., Familion hotel orchestra, Daniol chwalow, director; 6, Lee House trio, Sam Udrin, director; 7, Irvine Boernstein's Hotel Washington or-chestra; 8:3d, students' concert; 10:30. "Crandall's

Chuxlow, director; 9, Lee House trio, Sam Udrin, director; 7, triving Bornstein's Hold Washination or chestra; 8:30, studients' concert; 10:30, "Crandal's Sturday Nighteen." (2835.6)—1680ke, 9-7, m. director; Washination or concert; Speed Washor serenders; Gold Staubardensenble; 10:12, Speed Washor serenders; Gold Staubardensenble; 10:12, Speed Washor serenders; Carl Hall. Howo, director. WARG, Worstein, 20:13,

Central Time Stations

Central Time Stations
(KY, Minnipeg, Can. (384-4m.7260c), 9 p. m., concert,
J. A. Banfleid, Limited, Royal Alexandria hotel,
J. A. Banfleid, Limited, Royal Alexandria hotel,
FAB., Lincoln, Nebr. (387-3m.420kc), 2-3 p. m., proSchnoller and Mueller musicale.
(FEQ. Oak, Nebr. (287-3m.420kc), 2-3 p. m., proKFEQ. Oak, Nebr. (288-3m.4040c), 2-3 p. m., prodimer concert. KDKA. (288-3m.4040c), 5-30 p. m.,
Louise
Mason, softron, Francis Horiser, tenor, 18rd Hilliard,
Unritioner, Octo Roitlemberger, bass, Frank Towelsey, orKFKF, Shenandash, Iswa (255m.1404c), 7 p. m., oddtime music, Emerson Sisco, director; 11, old-time
fieldling.

fiddling: KMA, Shonandoah, lowa (252m-1190ke), 6-7 p. m., non-ular musical program; 9-41, pipe organ revital. Wil-

schulet; Amy E. Witming, accompanies.

(FMF. Shenandan), Iowa (258m. 1498ke), 7. p. m., notional content of the content of the

Hollis, Frank Westphal and his All-American, Pioneers;
Rita McFawa, Mary Etheler, voen inumbers; instruWFAA, Dallas, Tex. (478-98-630kg), 3:30-4 p. m.,
Tom Fowler, violinist; 4:30-5, James G. Gritnes, planisis; 6:30-7:30, Baker hotol orchestra; 8:30-9:30, J.
Weeley Hubbell club, voed and instrumental music
weeley Hubbell club, voed and instrumental music
tenor, organ, 8-9, plano, orcan, orchestra; 1:1-1. "Uke
Giti," pipe organ, orchestra, violin, plano.
WGN, Chiclup, III. (302-88-590kc), 10-10-15 a. m.,
spood health period; 10:15-19:35, entertainment for
shat-ins; 11-11:39, novnling, organ, concient, Cliniago
entertainment for children; 19:40-2-30, luncheon concert music; 2:30-5, Lyon and Healy sults reclain;
3:25. Port o' Missing Men; 3:30-4:15, tea time music;
4:30-5, synocyation mitines, Edward Genedict, organist; 5:30-5:37, Skeexix time; 6:30-6:45, dinner consical program; 10-10:10, "Sam in Henry," Radio
comin strip; 10:10-10:15, old-time favorite songs; 10:1611, dance music; Correll and Gooden, Preda Leonard
and Jewell Barnett, songs.
WHAD, Milwarkee, Wis. (275m-1090ko, 11 a. m. blano-

where moves, correll and Gooden, Freda Leonard and Jewell Earnett, songs, 1998(s), 11 a. m. planologue, Ands Hertel; story for children, Fase Me-Boath; Margaret Cunntingfam, planist; Willard Kalelbe, tento banjo solist.

WHAS, Louisville, Ky, (399.8m-70ke), 1-2 p. m. concert, Benson thio; 246-339; concert, anylines of Madge Wright; 4-5, concert, Music Box of Harry Currio; readinas, Marilas Poor Robinson; 136-9, concert, Correct, Concert, Richard Rent, director; music from automobile; show, 1988 and 1988.

automotile show.
WHBO, Chiago, Ill. (226m-1360kc), 2-4 p. m., program
for shut-ins, Ted Tfortto, plantst; Dan Russo, violinist; Marte Tully, sporano, Wayne Meyers, reader,
Peul Holzman, plantst; Lenore Friedman, soprano;
6-8. dhmer cencert; Watter Friedors, open zecuednight; WHBO string trio, Elste, Orr, soprano; Ruth
Ford, contraites, Mr. Leonard, bartions.

IRISH TENOR GUEST ARTIST AT KPO



artists: S. hatland burn dance, with Ruth Efficient, 14, Ford and Glenn; Rath Emerson; WJS 8 win where?

H. Ford and Glenn; Rath Emerson; WJS 8 win where?

R. W. Greinard; Ohio (422.5n - 7080; 7 n. m. hop-win content chain of the Schalary Hawdise Indicated in the Schalary Hawdise Indicated in the Schalary Hawdise Indicated in Schalary Hawdise Indicated in S. St. Valondina's day feature; the third annual WJW beauty contest for grandmethers; 9, those miss. Castle farms—6786c, 5415 n. m. Topy-Turry time; 6, Chicago theater arean; 6.30, Rotel Lasselle orchesters; 7, Frederick Daw and Hessell Pract; 9, 176-fazzo theater revue.

WMBS. Chicago theater arean; 6.30, Rotel Lasselle orchesters; 7, Frederick Daw and Hessell Pract; 9, 176-fazzo theater revue.

WMBS. Chicago, Hill (250m-2308c), 7-S. p. m. Thismospheric in the School of the Scho

LcClaife hotcl orchestra; song numbers, Peter MacArthur, baritone, 270m-1110ko, 12:30 p, m., chimes,
WOI. Chicago, III. (447.5m-570ko), 11:12 m., character
WOI. Chicago, III. (447.5m-570ko), 11:12 m., character
Sullivan, percolator; Rose in., koffee Matssh, Jerry
Sullivan, percolator; Rose in., koffee Matssh, Jerry
Sullivan, percolator; Rose
Junistis; Hal Lamsing, ukullele; 7-8, dimer concert,
Ralbi Kelin, nianolegue; Anne Kelin, mezzo-soprano;
Ulta Pike Joster, soprano; Mary Trasia Rouse, painst.

Mountain Time Stations

Mountain Time Stations

KFXF. Colerado Springs, Colo. (250m-1200kc), 8:80-11
p. m.. studio musicado.

KGA, Dewre, Colo. (3224m-930kc), 12:15 p. m., Riatto
theater musicale; 9, Harmony Peerless orchestra; 10:30,
Schouerman's Colorado corchestra.

Schoueman's Colorado orchestra.

Pacific Time Stations

KF1, Les Ampeles, Calif. (467m-642kc), 5:30-6 p. m.,
California serenaders; 6. Nichtly doings; 0:15, KF1's

sesing California; 0:30, rest pocket proprami; 0:45,
Fessing California; 0:30, rest pocket proprami; 0:40,
Fessing California; 0:40, rest pocket proprami; 0:40,
Fessing California; 0:40, Lonice Kies ethic

trio; 10:-11, Packard Radio club with usual favorites;
11:-3 u. m., KF1's midnight fruite, Don Meaney, master of ceremonias.

KF0A, Seattle, Wash. (454-3m-660kc), 9:30-11 p. m.,
Sackle Souder's chab. (261f. (322-dm-1200kc), 0:4:30,
Fessing California, California, California, California, California, California, California, r-7:30, investors hour; 7:30-9, Long

Beach Municipal band; 9:11, Echophone artists frolic.

Sunday, February 14

Headliners Today

Eastern Central Mountain Facif 6:30 p. m. 5:30 p. m. 4:30 p. m. 3:30 p. WBAL (246m-1220kc) "All Greig" program.

8 7 6 5 WLWL (288.3m-1040ke) Paulist choristers. 8:30 7:30 5:30 5:30 WCAU (278m-1080kc) Bonwit-Teller light opera com-

9 8 7 6 WTIC (475.9m-630ke) Church of the Good Shepherd

choir.

9:15
8:15
7:15
6:15
Wigap (491.5m-610kc), WEEH, WCAP, WJAR, WGR, WCAE, WSAI, WWJ, WC, WCCO, WGN, WEAH, KSD, WTAG, WOO, Alwater Kent program.

gram. 90ke, Opera, "II Trevatore," 10:30 9:30 7:30 7:30 7:30 8:30 7:30 KTHS (374.8m-800kc) Bost loved sougs of the Southland:

it 10 9 8

EHJ (405.2m-740kc) Fifteenth Annual Orange Show

Eastern Time Stations

GFGA, Taronto, Can. (356.9m-940ke), 11 a. m., 8t. Paul's Angelian church services, Ganon H. J. Cody. Paul's Angelian church services, Ganon H. J. Cody. Stations of the church services, Ganon H. J. Cody. Stations, 11 p. m., Thiothy Saton Memorial church services, I. p. m., Gorgan Satoletons, Endyl Payue; venal and instrumental. H. King, J. S. Saton, J. Saton, J. S. Saton, J. S. Saton, J. S. Saton, J. Saton, J. S. Saton, J. S. Saton, J. Saton, J. S. Saton, J. Saton, J.

Bonwitt Teller Light Opera company; 9, Potash and Perimutier.

WEAR. New York, N. Y. (491.5m-610kc), 2-3 D. m. Service of the Control of the

Kent hour.

Wfl. Philadelphia Pa. (394.5m-750kc), 4:30 p. m., Isilk,
Hon. Walter M. Chhardler; 7:30, services. Arch Street
Hon. Walter M. Chardler; 7:30, services. Arch Street
Active Chardler, Dr. Clearence E. Macachino; 9:10-4
Attention of the Chardler Street Street
WGBS, New York, N. Y. (315.6m-9289-0), 3:30 p. m.,
Crystal Pulace ordeotra,
WGCP, New York, N. Y. (252m-1190kc), 3-5:20 p. m.,
Sunday afternoon conserts.

Sunday afternoon concert.

We Y, Schenectady, N. Y. (379.5m.7500c), 10.30 a. m.
Services, Rumanuel, Bantia, church, Reach, W.
Gogers, pactor; 12:30 n. m. symphomy, Reach, W.
Gogers, pactor; 12:30 n. m. symphomy, Conductor, Control of the Control

9. studio program; 10. Gedfrey Lochow, violinist. WJZ.

WGR, Buffalo, N. Y. (319m-940kc), 10-45 a. m., Westminister Presbyterian church; 7:45 p. m., Central Presbyterian church; 9:15, Jointly with WFAF, Atwater-Presbyterian church; 9:15, Jointly with WFAF, W

hour.

WLIT. Philadelphia, Pa. (394.5m-760ke), 2:15 n. Areadia cafe concert orchestra; 6:39, Benjamin Friin organ rocital; 7, Benjamin Franklin hotel coorchestra.

Arradia cate centeral ordestra; 6.29. Benjamin Frankfurder, centellat; 7. Benjamin Frankfurder, centellat; 7. Benjamin Frankfurder, centellat; 7. Benjamin Frankfurder, C. WLWL, New York, N. Y. (285.3m-1940kc), 8.p. m., Pullst central formation, 1913. Presiptorian church. Rev. Steward M. Robinson, pistor, 729 p. m., Churchill tabernated evening services, 1924. The m., Come Fossilet will be served a fine formation of the control of the con

Clarence K. Bawden.
WREO. Lausing, Mich. (285.5m-1050kc), 10 n. m., chimes, belfry Plymouth Congregational church; 10:30, services, Dirts Baptist church, Rev. Ralph W. Hodts, patter; Mrs. Henry Chambers, organist; 7: p. m., services, Central M. E. church, Rev. Frank Kingdon.
WTAG, Werester, Mass. (26m-1/20kc), 45:30 p. m., Y. M. C. A. Program; 7:20-5:15. Capital theater; 0:15-10:15, Anna Case, soprano, Atwater Kent Radio hour.

WBAL GIVES GREIG PROGRAM SUNDAY

Sunday, February 14

Central Time Stations

CRITTAL I IMC STATUSE CKY, Winnipen, Can. (384-n-780kc), 7 p. m., church services; 9, Bvereidy hout, classical music, Barle C. Hill's Capilot theater orchestra. KFAB, Lineola, Nebr. (340,7m-850kc), 12-2 p. m., cr-riestra; 4-5.30, espere service; 9-11, maidtalla. m., FOR Beaumont Toxas (615,6m-806kc), 13-2 West Physical Computers (1998), p. m., services, March Physical and Capilot (1998), p. m., services, March Physical and Capilot (1998), p. m., services,

services, First Christian church; 7:30 p. m., services, First Christian church. (KFEQ, Oak, Nebr., (267.7m-1120kc), 4 p. m., Sutton Nebr., old-time fiddlers; 8:30-10, Eddle Fales' dance

KFEL, Oak, Nebr. (267.7m.1128ko), 4 p. m., Sutton. Nebr., old-time fiddlers; \$3.0-10, Eddler Fales' dance orchestra.

Kr. M., St. M. (275m.1040ko), 4 p. m., ves. Kr. M., St. M., St.

Greene; 9:15, Walmut Park chdir; Mrs. C. E. Haden, opportunity of the control of

archis, Jetty McMillan, director, 14, 100428 con-RPIG, Hantson, Tex. (289.m-1010ke), 10345 a.m., First Mcthodist church services. Rev. A. Frank Smith, pastor; Mrs. E. G. Rountee, organist; Mrs. John Wes-ley Graham, director; 7 p. m., St. Paul' gellines, rung by Edith Brown; 7:39, St. Paul' Methodist church services, Rev. K. P. Barton, pastor; Mrs. Anna Clytte Pumkatt, director; Editin Brown, organist; 8:39, con-

sentence, Rev. A. F. Darron, phasor, Asirs. Ann. Cloud-rect. St. Louis, Mo. (345.1m-550kc), 6:15 D. m., St. Louis Poel-Dispate concert orchestrs; 3:15, Atwater Kent. Dispate and the concert of the concert Kent. Dispate and the concert of the concert Kent. Dispate and the concert of the concert Kent. Dispate and Park. Ark. (374.8m-600kc), 11-12:16 p. un., Saith Luke's Eniscound clurch serv-reites, Rev. Charles Collins, postor; 9-9:15, tenor solo-rectical, Arthur Platty; 9:15-9:30, phaso selections, Elizabeth Bowe; 9:30:10, songs, New Arthurian hotel server. Server. Server. Server. Arthurian hotel server. Server. Server. Server. Server. Server. Server. KWMG, Brownwille, Texas (278m-1600kc), 2:30 p. im., church service. KWMG, Brownwille, Texas (278m-1600kc), 2:30 p. im., church service. (1615cd V. Barnes, president; "Washington and Lin-coln." Dr. Edgar DeWitt Joney, 9:30, classical pro-ceeding the control of the control of the con-perties. Unitarian church services, John Dictrich, postor; 6:45, Arthur H. Pasat, Leune Faust and WAMD, Ra-dio stock company; 9:30, Gayle Wood, plantist; Harmony WBAP, Fert Worth, Texas (475sm-530kc), 2:30 p. im.

dis John Charles Bernes, Sanah Jacksky, Mission of the John Charles Bernes, Sanah Jacksky, Mission Charles Texas Intel Royals (1874). He work plannist, Harmony hurricane.

WBAP. Fort Worth, Texas (475.9m-5300ke), 9:30-p. m., Chief Gonzales' Texas Intel Royals.

Charles Texas Intel Royals.

Charles Texas Intel Royals.

Charles Texas Intel Royals.

Cassical program; William P. Zinner, tenor; Harold Morava, Jyric tenor; Kantor and Kritz; Sandy Meek and Harry Somik; Edm. Wheeler Ballard, herpits: Hitche Carusa and Monlin Rouge operate quartet; 4-5.

Shayne, xylophonist; Pete Kuller; Tip trio; Ziegeler sisters; Two Jays; Harold Anderson; Charlle Gariand; George Tiurn, uhe and Eazzo; visualized Hawaligns and Charles (1984). The Carusa and Monlin Rouge or-chestra; Vivian Sheffer, contralio; Panuline Shiffler, violinist; Rudy Worker, Flood Falsh; 12-2, Nutly Worker, Flood Falsh; 13-2, Nutly Worker, 13-2, Nutly Mission, 13-2, Nutly Missi

Sabbath vespers. WDOD, Chattaneoga, Tenn. (256m-1170kc), 7:39-9 p. m.

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

wertiese Weiberge, III. (370.2m-810ke), 19:35 a. m., Services of the control of t

G. Mitchell; Eugene Wallenius, (tenor; Marie Tully, sopratio.
Wild, Mosseheart, Ill. (370.2m-810kc), 7:45-8:45 a.m., Catholic services; 9:49-19:30, Protestant services; 3-41 p. m., Mosseheart Sunday concert.
WKAF, Milwattee, Wis. (2007), 1916, 1916, 1917, 19

Ruse to Who Later servine through the Later projects; WMBB, Chicago, Ili. (250m-1200kc), 5-5 p. m., Tria-pon orchestra; Woodlawn theater orchestra; Earle Smith, Eucle O'Hara; Rob Duffy; 7:40-9. Fifth Church of Christ, Scleiffust; 9-11, Triano orchestra; Woudlawn theater orchestra; Jack Goodwin; Billie Allen Ltd. Rob Remet. Woodlawn theater orchestra; Jack Goodwin; Billie Allen Hoff, Bob Bennet. WNAD, Norman, Okla. (254m-1180kc), 9:30 p. m., Mu

WOAN, Lawrenceburg, Tenn. (282.8m;1060kc), 9-19 p. in. quartet, sacred soings.

Persiting Palace orreletirs; Hosic O'Haré's Cocount Grove orchestra; Cauliot ileuter complete musicale.

WOG, Kanasa City, Me. (275m-1680kc), 11-12:30 p. m., services; 7-2:45, secricus.

WORD, Batavia, III. (275m-1690kc), 20; n. m., secretics; 7-2:45, secricus.

WORD, Batavia, III. (275m-1690kc), 20; n. m., secretics; 20:10:30, 1. B. S. A. choral singers; Howard Hanks; Phyllis Burton try, Me., 40:66, secretics; 9-10:30, 2. M.; Servicus, 19-10:40, 19-10



One of the voices well loved at KHJ, Los Angeles, is that of Ruth Pitts, soprano, above. She is a coast favorite. The young artist to the left is Rosita Bscalana, planist, who ap-pears this month when the New England Conservatory of Music gives a program at WBZ, Springfield.

WSA1, Cincinnati, Ohie (325.9m-920ke), 3-4:30 p. m., men's conference, Walter Riland, presiding; music, Cloria Trumpeters; 7-35, WSA1 Radio-chime concert, Cloria Trumpeters; 7-35, WSA1 Radio-chime concert, concerning the conference of the confere

Signation Cutp, in rector.

WSBs, Atlanta, Ga. (428.3m-700ke), 5 p. m., First Bap-list church choir.

WSM, Nashville, Tenn. (282.8m-1060ke), 7:30 p. m., First Prosbyterian church, Dr. James I. Vance.

WSUI, lowa City, lowa (483.6m-620ke), 4 p. m., ves-per service, University orchestra; 9:15, familiar hymns, Celeste Fuhrmann.

Mountain Time Stations

WOAW, Omaha, Nebr. (326m-570kc), 9 a. m., chapel service, Rov. R. R. Brown; 1:30 p. m., matinee program; 6, Bible study period, Sirs, Carl R. Gray, WUC, Davenort, Iowa (835,6m-620kc), 1:2 p. m., Palmer Little symphomy, 2:309-345, Second Christian conference; 8:15-9:13, Atwater Kent Radio srits; 9:35-11:45, Palmer Little symphomy, WOI, Ames, 10:40 acceptance of the conference; 10:40 acceptance of the conference; 11:40 acceptance; 11:40 accep KFXF, Calerado Springs, Colo. (250m-1200kc), 11-1 p. m., First Presbyterian church; 7:30-9-p. m., First Methodist church KOA, Denver, Colo. (322,4m-330kc), 10:55 a. m., St., John's Episcopal cathedral; 3 p. m., Karl O. Staps, orsanist; 7:25, St. John's Episcopal cathedral.

Pacific Time Stations

Pacific Time Stations
KF1. Les Angeles, Calif. (67m.482ks), 4-5 p. m., verper service; 6:30. Nightly doings; 7-8, program, A. H. Grobe & company] presenting the Synetrophase string ensemble; 8-9. Acolian rosidence pipe organ, Dan L. McFarland, oranisi; 9-19. Mabelle Heim and Her Hote Blad band; 19-11, Pacidox Six, dance orchestra. KF08 Blad band; 19-11, Pacidox Six, dance orchestra. KF09 and Seath, Calif. (252m.-1200kc), 9-6-30 p., m., tion; 7-7-49, investment hour; 7-45-9, service, First Church of Christ, Sedentist; 9-11, studio program. KFWB, Hellyood, Calif. (252m.-1190kc), 9-11 p. m., Warner Hrotheer's Gundy might movie froits; 3-64. Smill'is dance orchestra; Acek Kurbs, whistling plan-KGO, Oakhand, Calif. (681, 20-8-80kc), 11 g. m., service, St. Luke's Episcopal church.
KGW, Portland, Ore. (491,5m-610kc), 10:25-12 noon; traile; 8, St. Luke's Episcopal church.

KGW, Portland, Ore. 481.5m.eficks., 19:25-12 noun. services, First Prechyterian church; 7:30-9 n.m., serv-ces, East Side Rapitst church; 7:30-9 n.m., serv-symphony orchestra.

symptomy orchestra.

KHJ, Les Angeles, Calif. (405.2m-740ke), 4-5 p. m.,
Masonic service; 6:30-7, Leighton's Areade eafecteit orchestra, Jack Conshaw, leader; 7-7:30, First Metho-dist Epizochal chutch; 5-10-30, prorram, Filteenti National Orange show at San Bernardino; Jose Arias Moxicum orohestra and entertainers; Acing dinitel., KHX, Hollywood, Calif. (336.3m-890ke), 6:30-7 p. m. Unitarian charch service; 7-9, First Presbyterta.

church of Hollywood; 9-10:30, program, Beverly Hills Nurseries with Russian string trio; Calmon Luboviski, master violinist.

Master Voluniestes, Calif. (428.3m-700kc), 9:45-10:45
a. m., undenominational and non-rectarian church servants. A memory of the memory of the

airector.

KTAB, Oakland, Calif. (240m-1250ke), 9:45-104-104-108.

Bible lecture, Prof. B. G. Linsley; 11-12:39 p. m., church sorvice; 7:45-9:15, church service; 9:39-11, concert.

Monday, February 15

Headliners Today

| Central | Meuntain | Pacific | 7-30 p. m. | 6:30 p. m. | 5:30 p. m. | 5:30 p. m. | 4:30 p. m. | 4:30 p. m. | 4:35 p. m.

nambula."

19.39 9.39 3.30 7.30

KFNN (250m-1200ko) Musicale.

KKIIS (374.5m-800ko) Semi-classic bits.

19.59 9.50 8.50

WITO (475.9m-89ko) Works of Franz Schubert,

Travelers' symphonic ensemble.

"SUNSET LIMITED OF 1926" AT KPRC;

POPULAR CONCERTS INDEX

Saturday, February 13 Eastern Central Mountain Pacific 7:30 p. m. 6:30 p. m. 5:30 p. m. 4:30 p. m WFAA 8 7 6 WAMD, WES. 6 9 8 7 6 WBBM, WEAF, WENR, WGBS, WLS, WMAQ, WNYC. 10 9 8 7 KFAB, KPRC, WBRM, WEBH, WENR, WGN, WLS, WMBB, WREO. 11 10 9 8 KFVE, KFWB, KNX, KTHS, WBSM, WMBB, WOK, WQJ, WRC. WOK, WILL, WRC. 10 10 18 KNX, KOIL, KPO, KPRC, WBBM, WEBH, WLS, WOAW, WOK, WQJ. 1 m m 12 m 10 m WebH, WEBH, WENR, WOK, WQJ, WSAI. 2 I a. m. 12 m. 11 KNX, WBBM, WEBH, WENE, WQJ.

Sunday, February 14 Eastern Central Mountain Pacific
9.p.m. 8.p.m. 7.p.m. 6.p.m.
WBEN 9 8 7
WBBM, WMBB11 10 9 8

Monday, February 15 Eastern Central Mountain Pacific 7 p. m. 6 p. m. 5 p. m. 4 p. m. WBBM, WFAA, WOAW. 6 5 WIBBM. WFAA. WOAW. 6 5 WGBS. 8 WGR. WGR. WGR. WGR. WOX. 6 5 WGR. WGR. WGR. WGR. WGR. WGA. WOAW. WOAW. WO.K. WGG. WGR. WGR. WGR. WGA. WOAW. WO.K. WGG. WGR. WGR. WGA. WOAW. WG. WGB. WGB. KFVE. WGK. 10 KFWE. KI. WAMD. WEBH. WHO. WGK. KFWE. KLX. WAHG, WDAF. WHY. WKR. 2 2 a. m. 1 a. m. 12 m. 11

Tuesday, February 16 Eastern Central Meuntain Pacific 7 p. m. 6 p. m. 5 p. m. 4 p. m. WMCA, WOAW. 8 7
WBBM, WEAR.
9 8 7
WBBM, WEAR, WBZ, WSB.
10 9, m. 9 p. m. 8 p. m.
WBBM, WEBH, WMMB, WOAW.

12 m. - 11 KEWB, WQJ.

Wednesday, February 17 wednesday, February 17
Eastern Central Meintain Pacific
8 p.m. 7 p.m. Meintain Pacific
8 p.m. 7 p.m. WEBL
WFEN, WEBL, WGCP, WFEL, WGCP,
WBRM, WEB, WGCP, WNYC.
10
KFAR, KPRC, WBRM, WEBH, WGCP, WHO.
WMRH. 4

Thursday, February 18 Eastern Central Mountain Pacific 8 p. m. 7 p. m. 6 p. m. 5 p. m. WCAE, WEAF WJAR, WMC, WOC, WSAI. WCAE, WEAF, WJAR, WMC, WGC, WSAI, WBMM, WHAD.

WBMM, WHAD.

KA WERM, WEBH, WEKI, WHAD, WHN, WMBM, WMC, WNYC, WOAW, WSOE, 11 10 KM, KMA, KYW, WBMM, WMBM, WMBM, WOX, WOJ. WOJ.

12 m. 10 m.

Friday, February 19
Eastern Central Mountain Pasific p. m. 7 p. m. 6 p. m. 5 p. m. (CP. WIR. WAMD, WEBM, WGR, WLS.

KEAR, WEBM, WEBH, WMC, WDAP, WHAD, WHEB, WOAW, WSOE,



Monday, February 15

11 10 9 8 WSAI (325.9m-320kc) Community night. 12 (467m-0424kc) Slavonic unusic, Zahnad trio. KNX (338.9m-330kc) Glassmobile minstrels:

Eastern Time Stations ontreal, Can. (410,7m-730ke), 1:45 p.

Eastern Time Stations
(NAC, Montreal, Can. (410,7m-730ko), 1:45 p. m. hundroom mic Can. (358,9m-340ko), 8:10 p. m., CKNO Mickey Can. (258,9m-340ko), 7:15, 8 m., morning soft of the control of the contr

Focke, director; randovine attendance services and the control of the control of

Smith, soprano, Smath Snyder, planist; Kathyrn Frictionre, contratio, Virginia Klein, planist; 1963.9, Farchorne, contratio, Virginia Klein, planist; 1963.9, Farchorne, Carlon, Parker, New York, N. Y. (491.5m.610ko), 6:55. 7, 720. a. m., health exercise; 7:45-8, Drayer service; 11-65. Regina Basner, planist; 4 p. m., Heard Beaugurd, tenor; 6, diluter musics 14 p. m., Heard Beaugurd, tenor; 6, diluter musics 19, x-100. Concert; 8:30, Carlo Miners' trio, Burns Brothers; 9, A. and F. Gyrsies; 10, grand opera; 71.a. Sonnambula; Cesare Sodero, director; 11-15, Bom Bornic and the twelvestudy of the contract of the contra

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

theater orchestra.

WEE, Boston, Mass. (348.6m-866kc). 8:45 g. m., health-exercises; 5:20 p. m., Rainbow Hamblers of Salem; 6:30, Jos Rines and bis Hunters' Cubin orchestra; 7, Bir Brother Cub. 7:45, Pearl Bates Morton, Soprano; 8:15, Black Iron Stitters; 8, A. and P. Gypules; 10,

Scotty Holmes and his orchestra, Imperial marimba Philadelphia, Pa. (394.5m-760kc), 1 p. m., ensemble; 3, O'Henry stories, Emily New land; talk, "Rome," Mrs. W. Ellis Grobers, vue-Stratford emeert orchestra; 7, Bellevue-St

Peter Schubert compositions; Travelers' symphonic ensemblo.
W1. Detroit, Mich. (352.7m-650ke); 7:30-8. z. m. setting-up exercises; R. J. Horton; 9:30, "Tonight) Dinner; 12:50. Jules Klein's Hotel Statler orchestra 3 p. m., Dottoit News orchestra; 8, dinner concert 8, Ford Motor band; 9, A. & P. Gyphies. S. Ford Moto band; 9, A. & P. Gypsies.

Central Time Stations.

CKY, Winnipeg. Can. (384.4m-780kc), 9 p. m., studio program; 11, revue, Metropolitan theates, KFAB, Lincelin, Nebr. (384.7m-860kc), 825.6-83 p. m., dinner concert, 8-35-2 a. m., Unix. of Nebrasita chardram, CFEB, Oak, Nebr. (287.7m-1120kc), 2-5 p. m., Oak talent; 8-19, Edgar high school program, KFKU, Lawrence, Kan. (25m-1404ko), 7-15 p. m., musical numbers, School of Fine Arts; Elise Arbuthnot, sogramo.

wFI, Philadelphia, Pa. (394.5m.7696c), 1, montal room engenible; 3. O Herry savies. Bill of Orden; 6:39. Bellevue-Strateford dance 'orchestra,' 7. Bellevue-Strateford dance' orchestra; 8. Bellevue-Strateford dance' orchestra; 8. Bellevue-Strateford dance' orchestra; 8. Bellevue-Strateford dance' orchestra; 8. Bellevue-Strateford; 9. Bellevue-Belle

KFRU, Columbia, Me. (698, Zm. 600ke), 5:30 p. m. Bella Vista Quadrangie orthestra; 6:15, dimner program. Bella Vista Quadrangie orthestra; 6:15, dimner program. The Columbia lawn entertainers; 9, A. & P. Gypzies; 10, Orland opera.

WKAR Lansine, Mich. (285.5m-1050kc), 8-9.

WKAR, San Lansine, Mich. (285.5m-1050kc), 8-9.

WLIT, Philadelphia, Pa. (394.5m-760kc), 12-92 D. m., daily almanae; Stanley theater organ recital; Arradia carle onnert ordecistrs; 2, Aresida cafe concert ordec-tra; 4.30, recttal; 7.30. Dream Dadry, 6 Stan-ley hour of music; 10, 4x-arcida cafe dance ordecistra; 10-30, vaudwille features, Pay's Knickerbocker Liester; 10-45, Benjamin Frankline II Fallo ordecistra. WLWL, New York, N. Y. (285.3m-160kc), 7.9-8-30 p. m., WMAK, Buffale, N. Y. (2656-1150kc), 7.9-8-30 p. m., Murray Whitenam and his serenders; 8:30-9. Olymnic theater program.

Marray Whiteman and his seremous; 8.30-9. Ournote theater program and his seremous; 8.30-9. Ournote theater program and his ordestra; 30-1 a. m. Gene Fosdick and his ordestra; Phetatocol. Mar. Gene Fosdick and his ordestra; Phetatocol. Gene Bondon, 6.5 m. McA. New Phetatocol. Gene Bondon, 6.5 n. m., Hotel McAlpha, Markay Karatrala Kings; 8, Teroinal minds hour; 9, Iseture, Christian Science, Algorino Harroy-Bathurst, 10-45, Barclay Radio program; 11:39, Deput's ordestra.

Hervey-Bathurst, 10:45, Bartelay Radio program: 11:39, Denny's orrehestra. W VG (New York, W CS0m-5700c), 6:29 p. m., plano, salections: R. Richmond Versatile or orchestra. W OO, Philadelphia, Ph. (508.2m-590ke), 11 s. m., organ recital; 12:32 p. m., Golden's crystal tea nown orchestra: 4:45, organ recital; 7:30, A. Candelou's. French Room orchestra: 8, "Pop" concert; 9, A. and T. Grybels; 10, prind opera, WBAF Grand Opera common; 11. Sylvania Opera, 12. Sylvania Ope

Dentificial's 10-piece novelty orchesters; 11-12, Pfrestone facilie.

KWWG, Brownsville, Texas (278m-1698c), 8:30 p. m., mittary orchestra.

KYW, Chicaso, III.

KYW,

contest. The Springs National Park. Ark. (374.8m-880kb), 99-330 p. in., Eastman elsti orchestra, Jack Lube, director; 9:30-9:55. Arltington stituded quartet; Lon Chassy, tiolinist; Edward Richer, cellist; Henry Haynes, bass, and John Heyn, plants; 10-11, Brick English: 10-10-feet oreely orchestra; 11-12, Firestone

Trition and the state of the st

KFKU. Lawrence, massed months, School of Pino Arts; Eliae Arounnussian Innubers, Innub 4.20-5. Cyrns Barcus, cornelist 4 8.30-7.30, Lone Star Phre's orderative, S.20-8-20, Sears-Robeuté Agricultural WGES, Oak Park, III. (250m-1200ke), 5-7 p. m., Coyne screaders; organ, basso; pianist.

WGN, Oblease, III. (250m-1200ke), 5-7 p. m., Coyne screaders; organ, basso; pianist.

WGN, Oblease, III. (302.8m-990kc), 10-10:15 a. m., good health period; 10:18-10:36, ontertainment for shut-ins; 12:001-12:30 p. m., mono blue cert. Drake concert ensemble 2:30-30. Jyron and Healy artists; rotifal; 3:25. Port o' Missing Men; 3:30-4:15, tea time music, Marshall Pield and company tea room orderestra; 4:30-5. organ recital, Droward Benedict; 6:30-5:07, Skeazs, WHAD, Billwauke, Wis, CZ75m-1090ko, II. a. m., WHAD, Billwauke, Wis, CZ75m-1090ko, II. a. m., Telty Ann Troy, utuled; 6:15-7, Bill Benning's Milwaykee Authleichibu orchestra; 3:30, Marquette university studio program.

ukutele; 6:15-7, Bill. Benning's Milwaukes Almetocheb urchestry; S-10, Marquette university studio protects. Boyal Peacode orchesteri, 3-3:20, organ recital. Mrs. Myttle Falks Zahn, Jr.; 4-5, concert, Harry S. Currlef Smise Bex; readings. ms. 2004.0, 2-3 D. m., White Falks Zahn, Jr.; 4-5, concert, Harry S. Currlef Smise Bex; readings. ms. 2004.0, 2-3 D. m., White Smise Bex; readings. ms. 2004.0, 2-3 D. m., White Smise Bex; readings. ms. 2004.0, 2-3 D. m., White Smise Bex; readings. ms. 2004.0, 2-3 D. m., White Smise Bex; readings. ms. 2004.0, 2-3 D. m., White Smise Bex; prediction of the S

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Wednesday, Februar 12, Wolf, Kfwa, Kh Koo, Wjid.

WSAI PLAYS GOVERNOR'S FAVORITES



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day, February 15: cp: 9. Weel, Wgbu, Vor: 8:25, Wabg; tit, Wgbu, Wgcu, Wgbu, Wgcu, Kfoa, Wgcp, Kfoa, Wgc, Wgr, Whn, Wdaf; 12.

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dnesday, February
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Iršday, February 18;

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day Fébruary 19:
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Whn; 10, Kfve,
Kths, Wgbu, Wgen,
Wgr, Wgi; 10:05,
10:30, Wgen, Whn;
Kfwb, Knx, Kpo. WOAW, Omaha, Nebr. (526m-570ke), 12;45 p. m., Ran-dall's Royal Fontenelle orchestra: 6, entrettainment; 6:20, poundar song period; 0;50, Randall's Royal Zon-control of the control of the

tenelle orchestra; 9, clussical.

WO. Davenort, lowa (48.3.me.20ke), 5;45-6 p. m.,

WO. Davenort, lowa (48.3.me.20ke), 5;45-6 p. m.,

WO. Lawes, lowa (270m-110ke), 7,550 p. m., "The
Perfect Tribute." Plorence McComb,

WOS, Jeffarson Gity, Mo. (440.9m-680ke), 8 p. m., on
wos, stolmist; Alma Gay, Killi, expressionita.

WSAI, Gincinnati, bhio (325.9m-20ke), 8 p. m., A.

and P. Gypries WYAET, 9, grand opera, La, Som
campanity, marter; Governor, 18. Seddec, tener; cou
manity camparate; Governor, favorite musical composi
tions; 12, Frech Sanker's urchestra.

WSM, Nashville, Tenn. (282.8m-1060ke), 6:39 p. m.,

Pramost Carig's ordestra; 7, bedline story interlucis,

S. Seddeck, S. S. Seddeck, 19. S

Students.

KOA, Denver, Colo. (322.4m-930ke), 6-30 p. m., Brown
Palace string orchestra; 5:30, Scheuerman's Colorado
orchestra; 8:45, KOA orchestra; 9, voice culture, John
C. Wilcox; 9:30, KOA orchestra.

orenestra; 8-39, KAO orchestra; 34, voice culture; John C. Wilcox; 8-50, KAO orchestra.

Pacific Time Stations

KF1 Medicandes, Calif. (487m-4324c), 500-6 pt. m.;

KF1 Medicandes, Calif. (487m-4324c), 500-6 pt. m.;

KF1 Sechnic California; 9-35, vest nocket program: 6-45, Radiotorial period, "The Romanner of Radiot;

7-8. Chinese Garden's dance orchestra; 8-9, Sereen Artists string quinted; 9-10, program; Waller M. KF1 and KF0; Zulhyad trio in Shavenic music; 19-11, product program by Melkeichin Profittee; (19-11, product program by Melkeichin Profittee; KFOA, Seattle, Wash. (48-4.3m-600c), 7-8-15 p. m.;

KFON, Long Beach, Calif. (232-4m-1290cc), 6-8-50 p. m.,

Eraylon's theater organ; 6-30-7, amusement information; 7-8, investors; loth; 3-4, press-Polegram profittee; 19-11, program and the string organic profit of the string organic profit organic prof

KFWA, Ogden, Utah (261m-1150ko), 4-5 p. im., organ residal, Paramount theaster; 5-6, Ogden Kallid Geslers; 7-6, Ogden Kallid Geslers; 7-6, Ogden Kallid Geslers; 7-6, Ogden Kallid Geslers; 7-7, 19-8,

Insurance company.

KWSC, Pullman, Wash. (348.6m-860ke), 7:30-9 p. m.,

Glow Williamson, vocalist; Margery Segossenmann.

pianist; Gladys Fraser, violinist.

Tuesday, February 16

Headliners Today

Headliners Today

Eastern Central Mountain Pacific Pp. 10 pp. 10

Tuesday, silent night for: CFCA, CHIC, CKNC, CKY, ONGC, GNBE, CNRM, CNRO, CNRW, CNRT, KFKX, KFKU, KFMQ, KFUO, KFWA, KYX, KOA, KOAC, KOB, KOWW, KUDM, KWSC, PWZ, WABQ, WAMO, WBBR, WCAD, WCAP, WGCP, WGC, WHAD, WHAZ, WJAD, WJAZ, WKAF, WKAQ, WLM, WJ, WTAW, WTIO.

Eastern Time Stations

CKAC, Montreal, Can. (440.7m-730kc), 7:15 p. m., Windsor hotel dinner concert; 10:30, Windsor hotel

GKAC, Mostreal, Can. (410.7m.730kc), 7:15 p. m., Windsor botel dhare concert; 10:30, Windsor botel dhare concert; 10:30, Windsor botel dhare concert; 10:30, Windsor botel dhare CNRA, Monton, Can. (281.1m.1030kc), 7 p. m., Juve-miller, 10:30

FARMERS' PROGRAMS INDEX

Farmer Dinner Concerts

Daily Except Sunday CENTRAL TIME FNF, 12:15-1:35 p. m.

KSO, 12:30-1:30 p. m. WLS, 12 noon.

Saturday, February 13 stern Central Mountain Pacific 5-p. m. 12-45 p. m. 11-45 a. m. 16-45 a. l (270m-110ke) Solls, questions, and answer 6 5 A (309 1m 970ke) Factor program

8 .7 .6 KDKA (309.1m-970kc) Farm program. Sunday, February 14 Eastern Central Mountain Pacific 3:30 p. m. 2:30 p. m. 1:30 p. m. 12:30 p. m. WFAA (475.9m-630kg) Sunday hour for farmers.

MYAA (470,9m-800ke) Stunday hour for farmers.

Monday, February 15

Eastern Central Mountain Pacific
1115 p.m. 12,15 p.m. 115 a.m. 10,15 a.m.
WEAO, (293,9m-1020ke) Timely Economic Information for the Farmer, C. J. West.
WOC (483,6m-520ke) "Alfalfa Meal in the Brood
Sows Ration."

Sows Ration."
135 10:35
KSAC (340.7m-880kc) "Register Your Winter Calf Crop," J. W. Linn. "Cedar Apple Rust," D. R.

Porter.
1.45 | 2.45 | 11.45 | 10.45 |
WO1 (270m-1110kc) Dairy Production:
WMAQ (447.5m-670kc) Radio farm school.
1.50 | 12.50 | 10.50 |
KPEKX (288.9m-1040ko) "Alfaffa Meal in the Brood Sows Ration," Prof. John Evvard.
7 | 6 | 7 | 6 | 7 | 6 | 7 | 6 | Sows Ration," Prof. John Priss. 4
WGY (379.5m -190ke) Agricultural program.
7.45 6.45
VSOE (246m-) 229ke) Hog Raising.
VSOE (246m-) 229ke) Hog Raising.

8 7 6 KSO (242m-1240kc) Farm talk. 7:15 6:15 KSO. (242m-1246ko). Farm talk.

8-115 (242m-1745b). Thoustrial Wages and Farm
Factors. W Grimes. "Growing Sorghums for
Futes." W Grimes.

8-30 (2000). Growing Sorghums for
RFAQ (2008, Sim-1000ko). Parmers right.

KFAQ (2008, Sim-1000ko). Parmers right.

KFAQ (2008, Sim-1000ko). Parmers right.

8-30 (KFAQ (2008, Sim-1000ko). Parmers right.

8-30 (KFAQ (2008, Sim-1000ko). Parmers right.

8-30 (MALTERS). "C. L. McMurray."

8-31 (Northwest. Artanasa, "O. L. McMurray."

8-31 (1908). "Growing for the control of the c

in Northwest Arkansas," O. L. Modurnes, "Keeping Young Farm Politis Buay," W. J. Jernigan, "Hice as an Industry in Arkansas," W. D. Jernigan, "Hice as an Industry in Arkansas," W. D. WAIC (1989, pp. 1960) "Care of Transmission, Differential and Running Gear of the Automobile," Froi, Vizgil Gunder. 5-45. 5-45. WCCO (145, 4m. 1280c) The Farm Vegetable Garden, "Planting and Care of Crops," F. Krant. 9-55. 3-65. 5-45. WCCO (146, 4m. 1280c) The Farm Vegetable Garden, "Planting and Care of Crops," F. Krant. 9-55. 3-65. 5-45. WEAL (240 Un-8806c) "The Value of Pure Vibels, "Planting for Summer and "Pall Blooms," C. Wilgens, 200 C. Willey, 200 C. Wilgens, 200 C. Willey, 200 C. Wil

Tuesday, February 16 Eastern Central Mountain Pacific 11:30 a. m. 10:30 a. m. 9:30 a. m. 8:30 a. m. KFAB (340.7m-880ke) "Brooding the Chicks," S. | 1.50 a. m. | U.50 a. m. | 9.50 a. m. | 8.50 m. |
KPAR (340, 7m. 859kc)	'Brooding the Chicks,' 'S.				
Maradem.	1.15 p. m.	11.15	10.15		
WOU (483.0m. 2916)	'Factors in Successful Poul	1.15 p. m.	12.15 p. m.	11.15	10.15
WOU (483.0m. 2916)	'Factors in Successful Poul	1.23	12.35	11.25	12.35
KSAG (340.7m. 850kc)	'Potato Prospects for Kansus Growers,' E. A. Stockke, 'Boy Champions,' H.				
WMAG (487.0m. 470.0m. 670kc)	11.50	10.55			
WMAG (487.0m. 470.0m. 670kc)	11.50	10.50			
List	12.55	11.55	10.55		
KKKX (283.8m. 140kc)	'Why Do Chicks Die in				
List	12.15	10.50	10.50		
WEAG (293.0m. 1020kc)	Potitry "Brooding Problems of the Pouttry Man,' E. L. Dukan,				
L. Dukan,	1.15	10.50			
WEAG (293.0m. 1020kc)	Potitry "Brooding Problems of the Pouttry Man,' E. L. Dukan,				
L. Dukan,	1.15	10.50			
WEAG (293.6m. 10.00kc)	10.50				
WEAG (203.6m. 10.00kc)	10.50				
WEAG (2					

WKAR (285.5m-1060ke) "Draft Horse Types," R. Hudson. 7

F. PRU (499.7m-500ke), "Horses and Mules as Farm Power." D. Ohttenden.
KSAC (300.7m-850ke). "Beeding Fall Pigs," A. D. Weber. "Feeding fall Pigs," A. D. Weber. "Feeding for Encounted Milk Production of the Company of the

Hines. "Value of Foreign Red Clovers."

Wednesday, February 17

Eastern Centrin Meuntain Paolific Mountain Paolific Moun

Krist Coscons (1998) (1

Thursday, February 18 Eastern Contral Mountain Pacific 1:15 p.m. 12:15 p.m. 11:15 a.m. 10:15 a.m. WOC (488.5m:-620kc). "The Soy Bean—Its Place in Corn Belt Agriculture."

Friday, February 19 Friday, February 19

Eastern Certal Meental Paide
115 n. m. 1215 p. m. 115 n. m. 10 15 n. m.
Wilson Description 115 n. m. 10 15 n. m.
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Wilson State 11 135 n. m.
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ing." Brown Brothers.

8 SO (282m-1240ke) Farm talk.

KSO (282m-1240ke) Farm talk.

5.45

WCCO (416.4m-729ke) Flower Growing-Peronnials, H. R. Mackintosh.
10.45 9.45

KOAC (282.2m-1970ke) "Inspection of the Auto's

Electrical Wirling System," K. F. Coolisan.

Markets and Weather

Daily Except Sunday Eastern Central Mountain Pacific 9:30 a. m. 8:30 a. m. 7:30 a. m. 6:30 a. m. WFAA (475.9m-6:30)cb, Markets. 9:45 8:45 7:45 6:45 KDKA (309.1m-970kc) Livestock, grain.

WLS (344.5m.+870kc) Poultry, dairy, hors, sheen, WOS (440.9m-850kc) Livestock, poultry, eggs, 12.35 p. m. 11.30 10.30 9.30 KRIX (28.3m.-1040kc) Livestock, fruit, vegetables, dairy, WEAR (344.m.+80kc) Markets, weather, WFAA (475.m.+800kc) Markets, WHT (238m.-1260kc) Pruft, weather, WHA (475.m.+800kc) Markets, WHT (238m.-1260kc) Pruft, weather, 1.36 12.30 / 11.30 10.30 KRIIS (374.5m.+800kc) Markets, weather, 1.36 12.30 / 11.30 10.30 KRIIS (374.5m.+800kc) Weather, livestock, poultry, 12.35 11.35 10.35 10.35 KPO (498.5m.-700kc) Butter, eggs, clesses, poultry, 1.45 12.45 11.45 70.45 KOA (322.4m.-800kc) Whether, rudsk, livestock, poultry.

| NPO (428.3m.-100kc) Butter, eggs, cleases, poultry 104 (323.4m.-200kc) Weather, roads, livestock, NPO (1923.4m.-200kc) Weather, roads, livestock, NPO (1923.4m.-200kc) Weather, roads, livestock, NPO (488.5m.-200kc) Weather, grain, livestock, NPO (488.5m.-200kc) Claim markets, WPAA (475.9m.-800kc) Markets, 12 n. WYAA (475.9m.-800kc) Markets, 12 n. WYS, (344.4m.-870kc) Livestock, grain, dairy, fruit. vegetables. WPS (480.9m.-800kc) Markets, grain, 3130 (475.9m.-800kc) Markets, grain, 3130 (475.9m.-800kc) Markets, grain, 3130 (475.9m.-800kc) Markets, weather, 3250 2.50 1.50 12.50 p.m. WYM (382.7m.-800kc) Weather, Chicago Board of Trade futures, Kampas City cash grain report, Omaha grain, livestock, WCO (416.4m.-120kc) Markets, weather, WCO (416.4m.-120kc) Markets, S550 4.50 (475.9m.-800kc) Markets, S550 4.50 (475.9m.-800kc) Markets, S550 4.50 (475.9m.-800kc) Markets, S550 4.50 (475.9m.-800kc) Markets, Markets,

poultry. 11 10 9 8 WCCO (416.4m-720kc) Weather, grain.

"PEG O' MY HEART" COMEDY AT CNRV

Tuesday, February 16

singer, Elizaboth Holtz, accompanist; 9:30, Sea Gulls; 10, 564 McCauley and his Pais; 10:30, Billy Hayes and his archestra. WEAF, New York, N. Y. (491.5m-610kc), 6:45, 7, 7:20 g. m., bealth exercises; 7:45-8, prayer service; 11, Loudse Lawrence tric; 11:25, 11:50, Loudse Lawrence tric; 11:25, 11:50, Loudse Lawrence tric; 12:50, 11:50, Loudse Lawrence tric; 11:50, Loudse Lawrence tric; 12:50, 11:50, Loudse Lawrence tric; 13:50, Loudse Lawrence tric; 13:50, Loudse Lawrence tric; 13:50, Control Lawrence tric; 13:50, Exercady hour; 10, auction bridge came; 10:30, Vincent Lopez and his orchestra; 11:12, Ross Gorman and his orchestra.

9. Evereuty stour, 12-2, and 13-12. Rose Gorman and cent Lopez and his ortenstra; 11-12. Rose Gorman and Ever Lopez, and his ortenstra; 11-12. Rose Gorman and Ever Lopez, 11-12. Rose Gorman and Ever Lopez, 11-12. Rose Lope

Inn orchestra.

WGCP. New York, N. Y. (252m-1190kc), 3 p. m. Ona
Welsh, pianist; 3:20, Paul Hogan, tenor; Isabella Henderson, sonrano; Max Heitt, violitaist; 4:10, Leslie
McLeod, tenor; 4:25, studio program; 4:45, Ukulele
Rob McDonald.

McLeod, tener; 4:25, studio program; 4:45, Ukulele Bob McDonald.
WGR, Suffalo, N. (319m-940c), 2:30 p. m. WGR's afternon program; 6:30, Vincent Lopez Hotel Stater dance orchestra, Harold Gleser, director; 8, jointly with WMAF, including Rive Rive Ribon male quarter, with WMAF, including Rive Ribon four, suction bridge players, and Vincent Lopez and his Casa Lopez or Accessed

players, and Vincent Lopez and nis Casa Lopez or-chestra.

VGY, Schenectady, N. Y. (379.5m-790ke), 2 p. m., music; 2:30, organ rectal, Stephen Bosicalir; 6:30, dinner program, Potter E. Potts' Hotel Van Curler orchestra; 7:45, Marthe band, WEG; 8:30, Edison hour, WIZ; 9:30, WGY orchestra; 10:30, dance pro-

gram.

WHAR, Atlantic City, N. J. (275m-1989kc), 2 p. m., Seaside hotel trio; 7:30, talk; 8, Seaside hotel trio; 11:13. Strand, theater organ recital.

WHN, New York, N. Y. (361-2m-830kc), 12:39-1 p. m., organ; 2:325, vanderlie; 3:15, Lexinaton orchestra; 6, Tretsureland Neighbors; 6:30, Diverglades unchestra; 1-3 and Chateau Shanley; 11:30, Charles King's Hftysfourth Street club orchestra; 13:39-1 a. m., Bob Murphy's orchestra;

land Chateau Shanley; 11:30, Charles King's Pffty-fourth Street elso orchestry; 12:30-1 a. in., Bob Mnr-phy's orchestra. VIP, Philadelphia, Pa. (508.2m-599ke), 1 p. m., organ roctal, Germantown theater; 3, Carolyn Schimminger, soprano; Elizabeth Gerr, planist; Batels Gerhab, con-tralicy Plora Ripka, planist; 6:05, Al Lentz and his some source of the source source, Naouli Walsh; S. Gunnault review, Elliott, Les-ter; 8:15, Civic symbony orchestra of Canden, Ray-mond Yetter, conductor, Helen Buchanan Hitner, solo-ist; 10:35, movie talk, Ell M. Orowitz; 10:30, Pagoda cafe orchestra.

mond Vetter, consuctor, neven home properties, programmer and the contestance. R. 1. (305.5m-380ko), 1:05.0 m., Pagoda onto orthestance. R. 1. (305.5m-380ko), 1:05.0 m., Providence of Ellisonic conservation and the contestance of Ellisonic Contestance of Ellison

mothestra. Work, N. Y. (526n-570ke), 7:10 p. m., orealizate, S. concert, D. Harry Ash's orchestra. 10:35, organ recital; 12:20 p. m. (50:01cm's crystal ta room orchestra; 4:45, organ recital; 7:30, A. Candelort's concert orchestra.

ordenstra.

VOR. New York, N. Y. (405.2m.740ke), 7:15 p. m.,
Jacques Jacobs' Hotel Shelton ensemble.

WRG. Washington, D. C. (468.5m-640ke), 12 m., George
F. Ross, organist; 1 p. m., Hotel Washington orchestur; 7, "Show Shopplins," Leenard Hall; 7:30, U. S.

Marlue band, 8:30, New York Editon hour, WIZ,

Sharing J. W. Spence and his Hotel Mayflower

orgebistra... 2019.

KFAB, Lincian, Nebr. (340/m. 830ke.) 3:30-6:30 p. m., Cow Bell boys; 5:305-10:30, musicale, Univ. of Cow Bell boys; 5:305-10:30, musicale, Univ. of Cow Bell boys; 5:305-10:30, musicale, Univ. of KFDM, Beaumert, Tex. (315,6m. 950ke.) 12:30-1 p. m., band concert; 7:7:30, children's program; 8:10, musical programs South Park Junior college.

KFEQ, Onk, Nebr. (267/m-1120kc), 2:3 p. m., Nolson Chirel's morgani, 8:10, concert, Superior, Nebr. Chirel's morgani, 8:10, concert, Superior, Nebr. Chirel's morgani, 8:10, concert, Nebr. (288.dm. 1040kc), 5:30 p. m., dinner cancert, KDRA, (298.dm. 1040kc), 5:30 p. m., David C. Hangard, vlotinist, KFMQ, Fayettveille, Ark. (298.dm. 1040kc), 5:30 p. m., Exp. (198.dm. 1040kc), 5:30 p. m., dinner cancert, KDRA, (298.dm. 1040kc), 8:45 p. m., dinner public school convocation; music, students of Stephens College Conservatory of Music, 6:15 p. m., dinner program; 6:45, children's hour.

KFYL, University, City, Ma, (240.dm. 1040kc), 6:30 s. m., morning devotional program; 8 p. m., program, vlillam devoti college, Liberty, Mo, 11:39, midnight morgani, organiza, Mary and College, Liberty, Mo, 11:39, midnight morganiza, organiza, Mary and College, Liberty, Mo, 11:39, midnight morganic college, Staberty, Mo, 11:39, midnight morganic college, Blerty, Mo, 11:39, midnigh

hour; 7:30, Ralph Park's dance orchestra; 8:30, Circle H. glee club, Prof. C. A. Hammond, director; 9, Edna Adams, assisted by Mrs. E. E. Sawyer, fianist. KSD, St. Louis, Mo. (545.1m.550kc), 6:55 p. m., WEAF

KSO, Clarinda, Iowa (242m-1240kc), 7-7:30 p. in., music; 7:30-8:30, Snappy Seven; 8:30-9:30, Roy Wilson's orchestra. KTHS, Hot Springs National Park, Ark. (374.8m-800kc), 9-9:15 p. m., organ recital; 9:15-10; dance concert.

9-9:15 p. m., organ recital; 9:15-10, dance concert; 10-11, college night.

KWWG, Brownsville, Texas (278m-1080kc), 8 p. m., songs.

WGES, Oak Park, III. (230m-1200kc), 5-7 p. m., fiste dino; organ basso; 8-9, niano; orchestra; organ; tenor; 11-1.a. m., piano; tenor; soprane; organ features. WGN, Chicage, III. (302.mm-990c), 10-10-15 a. m., gand health period; 10-15-10-15, entertainment for slut-line; 11-11-39, morning organ concert, Chicago healter, Dean Fossler; 12-01-12-30 p. m., noon hour entertainment for children; 12-10-2-30, lumchoon concentration of the control of the contro

Eastern Central Mountain Pacific 9 p. m. W. 18 p. m. W. WCAE, WCBD, WCCO, WEAF, WEEL WGR, WTAG. WAAG, WUW, WMAG, WCC, WORD, WTAG.

WTAG.

(FAB. KPDM. KFMO. KMA. KNX KPRC. KTBS. WCAE. WCCO. WFAF. WEAH. WUEI. WLW. WMCA. WOC. WSAI. WSOE. WTAG. II. 10 KPO. KHJ. KYW. WSAI. 12m II. 10 SKPO. KYW. WHO. WWG. WSAI. 12m II. 10 9 KPO. KYW. WHO. WMC.

Easter Cautal Monatain Pacific 6 p. m. WMC. WEED, WWI. 5 p. m. WCX. WEED, WWA. 5 p. m. WTC. WEAR, WHAD, WYR. WMAQ. WOK. WTTC.

KCO, WEAR, WHAD, WR, WMAG, WOK, WYIC.

STORY, KPRC, KSD, KYW, WAMD, WEZ, WCX, WEAF, WEBL, WHT, WLW, WMBE, WMCA, YGA, WTAG, WYAG, WTAG, WYAG, WTAG, WYAG, WAS, WYAG, WAS, WORD, WAS, WORD, WHAP, WHA, WHAP, W

Thursday, February 18
Eastern Central Mountain Pacific
6 p. m. 5 p. m. 4 p. m. 3 p. m.
WZ, WCX, WEAF, WIF, WMCA, WREO,

WLIB, Chicage, III. (302.8m-990kc), 7-7:30 p. m., musical program; 7:30-8, Gold Dust Twins; 11-1 a. m., dance music, songs, Correll and Gosdon, Freda Leonard and Jøwell Barnett.
WLS, Chicage, III. (344.8m-870kc), 12 noon, R. F. D. noon program; Ford and Glenn; 6 p. m., R. F. D. noon program; Ford and Glenn; 6 p. m., R. F. D. noon program; Ford and Glenn; hilaby time; 7:30, group falles; volces of Apollo club; violini coloist.

Jeanette Rotischild, soprano.

Mountain Time Stations

CNRR, Regina, Can. (475m-640kc), 8 p. m., Al Johnston's Aracidans orderlett.

KFKF, Colorado Springs, Colo. (250m-1200kc), 8:301-10:30 b. n., mutacle
KOA, Denver, Colo. (322.4m-930kc), 12:15 p. m., Riatto

strings, orderletta.

theater musicale; 3:390. matinee; 6:50. Drown Palaces string, orderetra.

Pacific Time Stations

CNRV, Vancouver, Can. (28). int 1950(b), 7:300 p. m., health stalk. Dr. O. S. Parrett; 8:50. "Per of My Heart," comody; incidental music. Marky Galett; 10:30, Cabaret Delmont overheater; Bete Mullar, 10:30, Cabaret Delmont overheater; Bete Mullar, 10:30, Cabaret Delmont overheater; Bete Mullar, 10:30, Salot, Cabaret Delmont overheater; Bete Mullar, 10:30, Salot, Cabaret Delmont overheater; Bete Mullar, 10:30, Salot, Cabaret, 10:30, Salot, Cabaret, 10:30, Salot, Cabaret, 10:30, Salot, Salot, 10:30, Salo

Fewer John Program; 9-13, Long Beach Aero club
KFWA, Olden, Utah (Zeim-H50k0), 4-5, p., organ
rectial, Paramount divester; 3-6, Ogden Radio Gealers'
rrouram.
KFWH Holyweed, Calif. (25m; 1980), 7-6, p. m.,
rectial, Paramount divester; 3-6, Ogden Radio Gealers'
rrouram.
KFWH Holyweed, Calif. (25m; 1980), 7-6, p. m.,
phone bereities; 2-8, Jack Smith's Jacon cardioties,
2-10, Mosley hothers, bank Smith's Jacon cardioties,
2-10, Mosley hothers, bank Gudest, Henry Kaplan,
2-20, Margire Sprause Spour, contralto;
2-20, Margire Sprause Sprause Sprause, Sprause, Sprause, Spraus

KTAB, Oakland, Calif. (240m-1250ke), 12-1 p. m.,

CLASSICAL CONCERTS INDEX

Saturday, Pebruary 13
Eastern Contral Mountain
6 p. m. 5 p. m. 4 p. m.
WCX, WEAF, WMCA, WREO. KGO, KYW, WEAR, WENR, WMAQ, WNYC, WOAW, WOK, WRC. 8 7 6 5 KDKA, KFNF, KOIL, KSD, KYW, WBBR, WGN, WMBB, WNYC, WOAW, WQI FOA. KPRC. KEJ. KYW. WHAS. WIP, WLW. WORD, WSAI, WSOE 7 RMX, KYW. WEAF, WMAQ, WMC, WOORD, WOORD, WMC, WORD, WOORD, WOORD, WOORD, WMC, WORD, WORD KNX, KYW, W WOC, WORD. - 11 10

Sunday, February 14 Central Mountain Pacific 5 p. m. 4 p. m. 3 p. m. Sunday, American Mountain Favore (6 p.m. 5 p.m. 4 p.m. 5 p.m. 4 p.m. 5 p.m. 8 p.m. 6 p.m. 6 p.m. 6 p.m. 6 p.m. 6 p.m. 6 p.m. 7 p KYW. WAMD. WBZ. WEAR, WGBS, WGCP, WKAQ, WLS, WORD. 9 6 7 RFDM, KPRC, KSD, WBZ, WCAU, WCBD, WCCO, WEAR, WGY, WHAR, WHT, WNYC, WRIC, WOC. 12 m 11 10 KHJ, KNX, WOC. 1 a. m. 12 m 11 KNX.

Monday, February 15
Eastern Central Mountain Pacific
6 p. m. 5 p. m. 4 p. m. 2 p. m.
KGO, WCX, WEAF, WMCA, WREO, WWI.
KMA, WCCO, WEAF, WEAR, WHAD, WJR.
WOAW, WOX.
6 5 8 7 WBBR, WBZ, WCAU, WCX, WHAR, WHT, WJAR, WLW, WMBB, WTAG, WTIC. WTIC. 7 WABB, WTAG, WEAR, WEAR, WEAR, WEAR, WEAR, WEAR, WEAR, WEAR, WEAR, WHO, WAR, WOAW, WOULD WOS. 2 WAMD, WCO, WEAF, WHAD, WJAR, WOAW, WSUI, WTAG. KGW, KHJ, KMA, KSD, KTHS, KWSC, WHN, WSAI. 12 m | 10 KGW, WBAP, WSAI. | 10 KHJ. | 12 m | 11 KHJ.

WWI.

8 7 8 5 5 Kenf KSD, KYW, WEZ, WCAF, WCAU, WCA, WEAR, WEEI, WGR, WHAR, WHT, WLS, WMBR, WQJ, WRC, WTIC.

WWI.

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

KYW. WBBR, WBZ, WGAU, WCC5, WCX, WEAR, WEEL, WGR, WGY, WHAR, WHT, WLS, WLW, WMBB, WOAW, WQI, WHAG, WTIG. Friday, February 19
Eastern Central Ap. m. 4p. m. 3p. m. 4 p. m. 3p. m. 4p. m. 7. 6 p. m. 4p. m. 3p. m. 4p. m. 4p.

AND WCX, WNGA, WREO, WWJ.

KGO, WREJ, WRY, WHAD, WR. WMAQ.

WOAN, WOR, WOR, WRIC.

KYW, WARG, WAADD, WRZ, WCAL,

WEBJ, WELL, WHT, WLS, WQJ, WWJ.

KYM, WHAD, WRAD, WAQL, WAG,

KYW, WHAP, WEZ, WAU, WAR,

KYW, WHAP, WEZ, WAU, WAR,

KYW, WHAP, WEZ, WALQ, WALQ,

KYM, WHAP, WEZ, WALQ, WALQ,

KYM, WHAP, WARQ, WALQ, WALQ,

KYM, KH, KPJM, KOA, WCO, WHAD,

KYM, KH, KNX, KPO,

KPMX, KH, KNX, KPO,

KPO,

KYW. Chicage. III. (\$55.6m-596te), 12-38-1 m. m. concert; 1-2. Josel De Blazer and his orchestra; 4.5. Josel De Blazer and his orchestra; 4.5. Josel De Blazer and his orchestra; 5.5. frolic; 6-7. KDEA symphony; 9 more break of music; 10, evening at home; Com-Sanders' orchestra; WAMD, Minneapolis, Minn. (244m-1230ke), 12 m. over the control of the commission of the control of the

organist. WDOD, Chattanooga, Tenn. (256m-1170ks), 9-9:30 p. m.

WOOD, Chattanoosa, Team. (256m:1170ke), 9-9:33 p. m. bridge sume.
WEBH, Chicago, III. (379.2m:810ke), 7 p. m. Oriole orchestra: S. Lydia, Lochen, centralio; Kaltryn Forbes, sapramo; 3. Uniow theater; 11. Oriole orchestra: WEBB, ch. m. Jack Proceed, Proc Palmera, dimerce concert; Rauland-Lyric trio; cello salos; Russell Hendrickson; instrumental numbers; vocal selections; 9:10, popular program; All-American Pioneers; E. G. Milchell, bartone; Bob Bainer, concept readings; William All-American Concert, Charles, Concert, Charles, Concert, Charles, Concert, Charles, Concert, Charles, Concert, Charles, Collection creditors, and charles, Cha

musical program; 10-10:10. "Sam 'n' Henry," Radio conice strip; 10:10-10:15, old-time favorito songs; 10:15-11, dance music; songs, Correll and Gosden, WHAD, Milwaukes, Wis. (275m-1090cb., 11 a. m., pianologue, Andy Hertel; "Getting the First Theusand," Caff Skirncoid; 4p. m., musical numbers; 6:15-8, m., pianologue, Andy Hertel; "Getting the First Theusand," Caff Skirncoid; Apr. Milwaukes Athietic lab orrhestre. Widdle and the strip of the st

phones, Cliff Beben, sanophone, Charles Albus, crumpet, Gordon Switzer, violinist, William Talamini, hardo, with the second special control of the control o

COLUMBUS MEN'S QUARTET AT WEAO

Wednesday, February 17

Houte band. 10:15 ROA (322.4m-930kc) Mirado concert trio. T15 ROA (322.4m-930kc) Victor Horbert solections. 11 ROA (322.4m-1040kc) Victor Horbert solections. 11 ROA (322.8m-1040kc) University quartet. 9 RFRC (295.9m-1010ko) Queen theater orchestra.

Wednesday, silent night for: CHIC, CKNC, CNRA, CNRC, CNRE, CNRM, CNRR, CNRT, CNRV, KFAU, KFOM, KFEQ, KFU, KFOM, KFEQ, KGO, KLOS, KOB, KTAB, WABQ, WBAL, WBBR, WCAD, WCBD, WHAZ, WIF, WHAZ, WIF, WHAZ, WIF, WHAZ, WIF, WHO, WGAW, WIF, WHO, WFG, WRC, WREQ.

Eastern Time Stations
Montreal, Can. (410.7m-730kc), 1:45 p. m.,

lunchom trio.

CNRO, Otthwa, Can. (434.5m-580kc), 8 p. m., Chateau Lauriler concert orchestra; Ottawa male quartet; Mrs. Yersen, Chateau Charlet, Gladys Ewert, planist; Chateau Erren, Chateau Erren, Parkoli, Gladys Ewert, planist; KDKA, Pittsburgh, Pa. (599.1m-970kc), 7:15-8 a m., exercises, O, Shannon; 12:20 p. m., Trinity, church Lentun service; 5:15, Fostman Dan; 6:39, dinner concert; 5:30, Indipendent Wall Paper Pierrets; 9, barn

(ROKA, PHESOURGE, P.A. (2093-181-20-202), Tarthy Concerning exercises, of Shannon, 12:30 p. im., Trainly, Centuries, of Shannon, 13:31-145, Ballater Barlane, and the Shannon, Shann

Samuel Kirkland, Vollinist; Albertine Babat, soprano; 3, saut-im at Hainbrick hospital; 6:39, Jersey Col.; Saut-im at Hainbrick hospital; 6:39, Jersey Col.; WGCP, New York, N. Y. (225m-199ke), 3. p. m., Lillian Rubhi; 3:45, Tracey and Mont; 4:10, Joseph Peoney; Haines Good News Party; 4:35, Jeane A'Dair; 5:10, Charlotte Trystman, Hanlat; 7, or-chestun; 7:30, Clarence Williams' trio 7:50, Kennedy harmony group; 8:15, Clarol de Thouses, himiat. Whenmony group; 8:15, Clarol de Thouses, himiat. A stranger of the stranger of

phones order, 9. WOO American make quantel; 9.25, 1818, 8ev Beerrett, Regres 10, Forz thence study program; 19.30. Hotel Siyvania dance corbestons WOR, New York, N. Y. (465.2m-7468), 6:19 p. m., Hotel Skelton ensemble; 8:30, Hevre sisters; 9:45. Sam Sieged, inaudolimist; 10, Ballin and Race, plano

Salm Siegel, mandolimst; 10, Ballin and Rece, plano WBC, Washinston, D. C. (468,5m-6406k), 21 knon; Gert-rude Smallwood, organis; 1 p. m., Lee House Irio; 4:15, Meyer Davis, Le Parudis Band; 5, music. WREO, Lansing, Mich. (285,5m-1606kc), 6:1 p. m., dinner concert; Speed Wagon Scringders; Goldwinner Charles, Concert, Speed Wagon Scringders; Goldwinner; Deby, Grandwinner; 2, urchestra concert. WTAG, Worcester, Wass. (268m-11206kc), 12:05-29, m., WTAG Orchestra; 8:30-9, Davis saxophone octet; 9-10, program; 10-11, Rosy and Mis garg.

s gang. Cleveland, Ohio (389.4m-750kc), Royal Cana-8-11, city of Cleveland program; 11-1, Royal

WTAM. Cleveland, Onto tonouncer and the diams; 8-11, city of Cleveland programs; 11-1, Royal Canadians.
WTIC, Hartford, Conn. (473-9m-630ks), 6-30 p. m. Hotel Bond trio, 8, epicert, Hartford hospital nurses and trio, 8, epicert, Hartford hospital nurses and Horthan, sonrato, Elizabeth 1800; 8-30, Katherine Horthan, sonrato, Elizabeth 1800; 8-30, organ recital, baura Gaudet; 9-30, organ recital, baura Gaudet; 9-30, organ recital, baura cellal, Hortina, 9-30, "Tonishis esting, un secreties, R. J. Hortina, 9-30, "Tonishis trio, secreties, R. J. Hortina, 9-30, "Tonishis trio, secreties, R. J. Hortina, 9-30, "Tonishis tria, 3 p. m., Detroil News orbested Statics orchester; 8, News orbested and sobiats; 9, dance program; 10, Roxy and his gang.
Cert. S. News orbested mad sobiats; 9, dance program; 10, Roxy and his gang.
Cert. Rox Martina Rathway * program, Pt. Garry Canadian National Rathway * program, Pt. Garry hand.

Winninge, Can. (384-4m-780kc), 7-50 p. m.

Canadian Nations. hotel.

ONRW. Winnipeg, Can. (334.4m-789ks), 7:50 p. m.,
Fort Garry hotel, Irvine Plumm and his Fort Garry
hotel orchestra; 8:45. Lily Clatworthy, soprano; Syd
Barnes, reader; Mrs. J. V. Dillaboush, plantic; 10,
Irvine Plumm and his Garry hotel orchestra; Al
Wilson;

Krigour. KFAB, Lincoln, Nebr. (340.7m-880kc), 5:30-6:30 p. m., dinner concert; 8:30-10:30, American Legion State mmer concert; Sizu-19139, American Legion State program.

KFEQ, Oak, Nebr. (267.7m-1120kc), 2-3 p. m., Oak talent; Si39-10, Pairburg (Nebr.) concert.

KFKX, Hastings, Nebr. (288.3m-1040kc), 5:30 p. m., dinner concert, KDKA1 9, musical program.

KFNF, Shenandaah, Iowa (263m-1140kc), 7 p. m., concert.

KFAK. sastinas. Pater 1988.

KK. sastinas. Pater 1988.

KFNF, Shenandeah, Iowa (25m-140kc), 7 p. m., concert. (KDKA; 8) musical paregram.

KFNF, Shenandeah, Iowa (25m-140kc), 7 p. m., concert. (KDKA; 8) musical paregram.

KFNF, Shenandeah, Iowa (25m-140kc), 7 p. m., concert. (KDKA; 9) musical paregram, 1989.

KFRU, Cytina (Quichangles of Stephens College Conservatory of Music.

KFNE, University Oity, Me. (240m-1250kc), 9:15 p. m., university of Music.

KFVE, University Oity, Me. (240m-1250kc), 9:15 p. m., university of Music.

KFVE, University Oity, Me. (240m-1250kc), 9:15 p. m., university of Music.

KFNE, Oliversity Oity, Me. (240m-1250kc), 9:15 p. m., university of Music.

KMA, Shenandeah, Iewa (25m-1190kc), 11:30-12:30 p. m., Charles Skinner, banjoist; 9:11, Böbble and Jack Shyden.

KFRC, Houston, Texas (23m-1190kc), 11:30-12:30 p. m., Charles Skinner, banjoist; 9:11, Böbble and Jack Shyden.

KFRC, Houston, Texas (23m-1190kc), 11:30-12:30 p. m., Charles Skinner, 11:00 and plane, presenting the band plane, presenting the paregraph of the par

trio.

WDAF, Kansas City, Me. (365.6m-820kc), 6-7 p. m.
Trianon ensemble; 8-10, American Legion; 11:45-1
Ted Weem's Recording orchestra; Eddle Kuhn's orchestra

troubsdeur; 19, concert by Editys' McMallen; 11, Vincont Longer, Hotel Staffer dance or creatra, Handle General Greeker, All Colleges, Greeker, Greeker, Grown and Greeker, McGreeker, McGr



This pretty senorita is Helen Bacigalupi, soprano, will be heard from KGO, Oakland, Thursday night.

cital, Mrs. Myrtle Fulks Zahn, Jr.; 4-5, concert Harry Currie's music box; readings; 7:30-9, concert auspices of Liberty Insurance bank, Joseph J. Eisen

cital, Mr. Myrle Fullez Zahn, Jr. 4-5, concert, Hatry Currier is music box; readings; 7:39-5, concert, Hatry Currier is music box; readings; 7:39-5, concert, auspices of the music box; readings; 7:39-5, concert, auspices of the music box; readings; 7:39-5, concert, auspices of the music box; director.

WHB, Kanas City, Mo. (365.6m-2200.c.) -2.5 p. m., program, Linwood thesier, assisting artists and Morgorian and Morgor

George Thurn, kazoo und uke; The Oxford Glrfs, Juonita Sank and Loretha Clustain, Immony singers, J. Edwin Peterson, tasps; m., Raiph Williams, the Ginger Man, Little Skylarks.

WSAI, Gincinnati, Ohio (2625.6m-220cb, 7 p. n., didine concert, Robert Badzley, 7:39, Davis satupione octal, WEAF, S. Isana Troubadours, WEAF, S. Isana Troubadours, WEAF, S. Atlanteses playing card string quartet.

WSB. Atlanteses playing card string quartet.

WSB. Atlanteses playing card string quartet.

WSB. Atlanteses playing card string quartet.

WSM. Nashville, Tenn. (292.8m-1660kg), 6:39 p. m., Atlanta and West Potin, Rome Land, College, S. Mrs. Lonis Sporty, sontano; 19, Roger Williams University senior quartet.

WSMB. New Orkans, La. (319n-340kc), 9:30-11.39
Cotton Pickin twins.

WSUI, leva Gity, Iowa (483.6m-620kc), 9 a. m., hids school assembly program; 12:39 p. m., Helen Schutzbank, vicilinist.

Mountain Time Stations

Mountain Time Stations

KOA, Denver, Cale, (3224m-30lke), 123-15 n. mt.,
Riallo theater musicale; 6:30 genome string
ordestries; Scheuerman's Coloration ordestries; 10-12,
Broadmoor Rhythm Rustlers.

Broadmoor Dhythm Rustlers.

Pacific Time Stations

(Ff. Los Angeles, Calif. (467m-542ke), 3:30-6 p. m. Norman, Broadmoor California, Calif

Kron. 1008 Brach, Calif. (232,4m-1200k), 6-6-60 Kron. 1008 Brach, Calif. (232,4m-1200k), 6-6-60 p. m., Brayton's theater organ; 6-30-7, amesoment information; 7-8, Investor's musical hour; 8-0, Press, Telegram program; 9-10, roorgan, Sam Abrams, the tailor, 10-11 Kron avitast frolic. et al. Kron. 2018 Frolica Frolica

inidulitht, dance music, Olie Reeves and his orchestra.

KFWB, Hellywood, Galff. (252m-1490kc), 5-6 p. m., schildren's hour. Big Brother club of KFWWB; 8-9, orchestrations; Bether White, blues afters Fan Portly barrione; Esther White, blues afters Fan Portly barrione; Bether White, blues afters Fan Word, barrione; Bether White, blues afters Fan Word, barrione; Bether White, blues afters from Chritic Warner Brothers' frolie, direction Chritic Western White, blues after Christian Parish (Score Brister) and the Company Inneheon concert; 3-4, Edna Julikowski, Russian planist; Goorge Bristove, Cluster Giruler; Jisck Manley, violinist; Frank Paules; G-65, Kalekov, Goorce Orchestra, Hotel St. Franks; G-65, Kalekov, 12:80-130 p. m., concert; G-7, dinner concert; 8-9, concert, Serend United States Infantry band; 9-19, concert; 10-11, KHI Les Annels, Calif. (487, 2m, 2486), 68:80 p. 9, 68:80

Diffied States intentry panel; y-10, content, Av-11, concert.

KHJ. Do Augules, Galif. (495.2m-748c), 6-6:30 p. m., and the content orderstra, Jack Cronshaw, leader: 6:305-730, Galenteria, orderstra, Jack Cronshaw, leader: 10:305-730, Galenteria, orderstra, Jack Cronshaw, leader: 10:305-10; Juckelle Pepolicy: Mickey Juckelle Pepolicy: Mickey Marple; 8, 50. Mars Baumgardt, selentific lecturer; 8:301-01; 30, program, Architects and Engineers association.

S.202-10-20, Program, Architects and Engineers association.

KLX. Oakland, Calif. (508.2m-590kc), 5-5-39 n.m.,
Ann. Elsie's sunset mathers : 530-7, Athens Athleito,
Ann. Elsie's sunset mathers : 530-7, Athens Athleito,
The Company of the Company

and savings from with falls by Sarah Ellen Barnes and savings from the property of the propert

Inncheon concert.
KWSC, Pullman, Wash. (348.6m-860kc), 7:30-9 p. m.,
KWSC, Pullman, Wash. (348.6m-860kc), 7:30-9 p. m.,
Treadwell's dinne orchestra; Rich Whitman, violinist;
Dorothea Ailen, reader.

Thursday, February 18

Headliners Today

| TAPENTUMENT | TOURS WHAS (393-8m-rouse) Acuts mattered and Acuttucky Rambiethee Polos Boy engine 14.

WSM (282-8m-1666ke) Polos Boy engine 14.

WSM (282-8m-1666ke) College Anniversary program.

R Proc (296-9m-1016ke) Operatic excepts.

The summary of the summary o

M.32 (2918-001-900-82, MAL)
h0y3. 9.30 8.30 7.30
WHYA (256m-1170c) Negro chorus.
1 10
WJAZ (323,4m-930)c) Male chorus, 79 yalves.
1 KGO (361,2m-830)c) 159th Infantry band.

Eastern Time Station

CKAC, Montreat, Can. (410.7m-780ke), 4:45 p. m., musical tea; 7:30, Canadian National rathways. GVY, Winnipeg, Can. (344.4m-780ke), 10 p. m., tance program, Venetian Gardens, Chill Menzies and his Collegians.

PIONEER PROGRAM THROUGH KOA

Thursday, February 18

CNRM. Montreal. Oan. (410.7m-730ke), 8:30 p. m., Hart House string quartel. KDKA, Pittbuerih, Pa. (309.1m-970ke), 7:15-8 a. m., exerciaes, O. Shamnori, 12:20 p. m., Lendan service, and the string of the string of

director; Walter Earnest, tenor; 11, cuncart, Poststudio.

WAHG, Bitchmend Hill, N. Y. (315.5m-950kc), 12:30

D. m. Greile matinec trial (120kc), 56:30 p. m., chillipen's program, Madollin, the Boy With the
Wondertul Laun; Hazel Knox; 6:30-7.30, dinner
program, WBAL dinner orchestra, Robert P. Iula,
conductor; 7:30-8, organ infogram; redital, Poshody
Cobservatory of Music, Presterick D. Weaver, organist, 8:10, unsical program; Any Mitchell,
plannist, Hillor Hope Burko, soprano; Adel,
Bobson, burloue; Prederick H. Geddlich, fluitist,
Hendrick Dassers, violinist.
WBBR, New York, N. Y. (275m-100kc), 8 p. m.,
Wachtbower string quartet; 8:30, Walchtower string
quartet.

guardo, WBZ, Baston, Mass. (333.1m-900kc), 6:30 p. m., Little symphony orchestera, KDKA: 7. Hotel Kimball dance orchestra, Bob Patterson, director 8. musical program, Nayes Buick company, Lee Reisman's orchestra; 9. Humbert 'Tork's program, Phillatronolic trio, yeard solidat, 8:30, concert, Prof. Chartes A. Wilhelm, Stellhart, Fine Market, Prof. Chartes A. Wilhelm, Stellhart, Fine Willem, Stellhart, Fine Market, Prof. Chartes A. Wilhelm, Stellhart, Fine Willem, Stellhart, Fine Market, Willem, Stellhart, Fine Market, Gellist: 10:05, Bdwin J. McEnelly and his orchestra.

Walther, collist. 1905. Sowin J. McEneily and hisorchestra.

WGAU, Philadelphia, Pa. (278m-1600k), 639 p. m.,
Billy Hages and his dance orchestra. 230 Stellent,
Billy Hages and his dance orchestra. 230 Stellent,
Elizabeth Papelina, colondara soprano; Michael Ponticeli, operatie tener; Virtuita Klein, piantis; 8345,
Kantly Klds; 9. Berry O'Moore, Irish tener; 9:30.
Musicai Cloids; 9:45, bortesine tesson, Prof. boolittics,
11:30. Club Cadix evide.

WEAF, New York, N. V. (491.5m-610b), 6:35-77-20.

a. m., hostile exercises; 7:45-8, prayer sorvier; 11,
Elinar Ensien, violinis; 1:125, Dirat Brance,
4:13, Dixlo Brand and F. W. Hultquist, songsters;
4:30, Paulin Watton, violinis; 6, dirat regular,
4:30, Paulin Watton, violinis; 6, dirat frame,
4:30, Paulin Watton, violinis; 6, dirate may be a complete the color of t

chestra. WEAO, Columbus, Ohio (293.3m-1020ke), 1:30 p. m., Robert Coleman, planist; 8:15, music; 10, Hotel Fort

What Commons with the Common Process of the

ciub entertainers, WEAF; 10. Silvertown Cord orchestra.
WFI, Phadeidhin. Ps. (26. 5a. 760kc), 10. m. Tea
WFI, Phadeidhin. Ps. (26. 5a. 760kc), 10. m. Tea
converted to the state of the s

Chestra. WGR, Buffale, N. Y. (319m-940ke), 2:30 p. m., WGR's afternon progrem; 5:30; Vincent Lonez' Hotel Statlet dance orchestra, Harold Gieser, director; \$, jointly with WEAF, the Latkinites, Clicquot Club Estimos, Goodrich Stirectown Cord orchestra, direction of Joseph

Goodrich Silvertown Cord orchestra, direction of Joseph Kneckt.

WGV. Schemestedy, N. Y. (372.5 nr. 790.6 , 550 h n. m. Kneckt.

WGV. Schemestedy, N. Y. (372.5 nr. 790.6 , 550 h n. m. chat, L. L. Hogkins; 7.35. Syracuse University program; 9. Royal hour, WJZ. Jo. Elizabeth Joyce, sopranoi: Anthony Resea, butlone; 11.30. organ respectively. Schemester, 10. Sept. 10

inmers; 11:30, powerstande ovenestra; 12, Parony etilb.

mobilestrationer, R. 1, 630-5m-990bc, 5, p. m., Huj
son-Essas orchestra; 9, Clicquet Club Eskimos; 10,
Goodrich Silvertown Cord orchestra;
WIP, Philadelphia, Pa. G502,2m-590kc), 1 p. m., Gimbel ten room orchestra; 5, recital, Students Combes
Concervatory of Music; 6:05, Pagoda, eafe orchestra;
7, Uncle Wip's bedtime stories; 8, "The SesoulCentennial," Hon. Harry, A. Mackey; 8:15, Arline
Smith, sogramp, Margatel Sonder, contration, TheoSmith, sogramp, Margatel Sonder, contration, TheoHenry Mover, accompanist; 9:15, Keiner Louise
Blinker, contrailer, Tem Burke, Irish tenor; 10:05,
real estate talk; 10:15, Al and his Versattle entertainers.

real estate talk; 10-15, Al and his Vertatile enter-tailners.

W. K. Ag. 1 Jun. P. R. (340-7m-880kc), 8-8 p. m., W. K. Ag. 1 Jun. P. R. (340-7m-880kc), 8-8 p. m., M. L. P. M. (340-3m-760kc), 12-92 p. m., daily almanae; Stanley theater organ resital; Aragdia cafe concert orchester; 2, Aragdia celfe concert orchester; 2, Aragdia celfe concert orchester; 2, Aragdia celfe concert orchester; 3-430. Harry Connelly, haritane; Anna E. 15-15, annual concerns the second partial conc

Beck, organisk, WRED, Lansing, Mich. (285.5m-1650ke), 6-7 p. m., dimer concert, Spood Wagon Soremaders, Gold Standard ensemble; S-15, varied musical program, Reo Broudensting torchestic, Carl Hall Dewey, director; Thomas E. Metoger, dudist, Walter Sayo, clarimetist; Radiator male quatety yould and instrumental

WRVA, Richmend, Va. (256m-1170kc), 8:10 p. m., Ran-delph-Macon college night; 10:30, Negro chorus.

WTAG, Worcoster, Mass. (268m-1120kc), 12:05-2 p. m. WTAG orchestra; 8-8:30, Larkinites; 9-10, Clicquot Club Eskimos; 10, Silvertown Cord orchestra.

WWI, Detroit, Mich. (352.7m-850ke), 9:39 a. m., "To-night's Dinner"; 12:05, Jules Klein's Hotel Statler orchestra; 3, Detroit News orchestra; 6, dlnher concert; S, concert, WEAR.

Central Time Stations

KFEQ. Oak, Netr. (267.7m-1120ke), 3-3 p. m., Haddam Hans.

KFRU, Lawrence, Ken. (257-7m-120ke), 2-3 p. m., Hads-KFKU, Lawrence, Ken. (275m-160ke), 7-25 p. m., After Fearing, soprano; Vprinis Arnold, pianist; 8, Estitar Ott, soprano, the color of the color of the color of the KFRU, Fasterius, Nebe. (280-3m-160ke), 8-35 p. m., KFRU, Septentielle, Ark. (286-3m-160ke), 8-35 p. m., Lorraino Ailen, Queen of the touries, KFRU, Schembia, Mr. (495-7m-600ke), 8-35 g. m., public school convection; musle, students of Stephens College Conservatory of Music; 4-30 p. m., Bella Vista quadrantic orderests, 2-15, dimen music; 6-35d-men music; 6-35d-Vista quadrantic orderests, 2-15, dimen music; 6-35d-men music; 6-35d.

Visia quadrançle orchestra; 6:15. dinner music; 6:45. children's hour; 7, playlet, dramatic children's hour; 7, playlen's hours, playlet, 20, playlet, 20

Trisaker; Comfort Hinderle, pianisti. Ella Hiertas, contrallo; III. (344,6m-370ks), S. m., Hir finjo, Mised quartet; brass quartet; Carl Newcomer, saxe-phone; Géorge Beem, marinhas sloin; P. B. and Carl Newcomer, cornet and saxonhone: Mrs. Isabelle Nelson, sopranto; Mrs. Nelson and Mrs. Harvood, vocal duets; Mrs. Thomas and Mr. Bartjon, vocal duets; Lilliani Delemen, exading.

WGCO, Minusapolita-St. Paul, Mini. (464-4720ks), WGCO, Minusapolita-St. Paul, Mini. (464-4720ks), Trisaker, WGAP, 2739, revorments. (500-500), Paul Minusapolita-St. Paul Mini. (461-4720ks), Trisaker, WGAP, 2739, revorments. (500-500), Paul Minusapolita-St. Paul Mini. (461-4720ks), Paul Marker, Carlo protestra. 10-20, Arnold, Frank's St. Paul hotel or-clestra.

1 30, programs 3. Cilequot 2861mos; Silvertown Cord-orchettra: 10.29, Arnold Frank's S. Paul hotel or WDAF, Kansas City Me. (385.6m-220ke), 3:30-4:50, pm. Star's stillut crebestra: 6-7, Triano ensemble: 11:55-1. Ted Ween's Recording orchestra; Ted Meyn, Western Cord-orchestra: 12 and Franker Cord-orchestra: 12 and Franker

and, singer; 6:307-230. Baker hotel orchestra; S:30993.0. William Wiley; Siminis; 3 and Andrews,
marimalihoids; 71-12. Martha Moran William,
WES, Oak Park, III. (2500-1200ko), 5-7 p. m., pipe
organ; classical program; 8-3, orchestra; pipe organ;
classical program; 8-3, orchestra; pipe organ;
classical program; 8-3, orchestra; pipe organ;
classical program; 8-3, orchestra; pipe organ;
classical program; 8-3, orchestra; pipe organ;
classical program; pianis.
WGN, Ohicaso, III. (302,6m-990ko), 10-10-15 a; in.,
good health period; 10:15-10-15, orcharcianismed, for
short-ins; 11-10-3, invariant program, connect
moraterianism for dilidera; 12:10-230, hanchese concert music; 2:30-5, Lyon & Health artist recital; 3:25,
Port o'Missing Mora; 3:30-4:16, tea time music;
3:45-7, old-time favorite some; 3:9-10, classical cidera,
clad-time favorite some; 3:9-0. Cliculot Cub Beldinos;
4-10, Silvertown Ord orchestra; 10-10-10, "Sam 'n
Harvits ospis; 10-11-11, donce music; some; Orrela
and, Gooden, Ereda, Leonard and Jewell Barnett.
WHAD, Milwake, Wis. (275m-1900ko, 11-a, m.,
pinanolosu, Andy Merrel; 4-b, m., Mrs. Parno Melley
WHAD, Milwake, Mrs. (275m-1900ko, 11-a, m.,
pinanolosu, Andy Merrel; 4-b, m., Mrs. Parno Melley
Benning's Milwauke Athetic club orchestra.
WHAS, Louisville, Ky, G99, 3m-750ko), 1-2 p. m.,
concert, Benno trio; 3:20, Mrs. Myrele Puthts Zahn,
Mrs. Croganist; 4-5, concert Metre, St. Kramera and
Mrs. Kentusy Rambiers; Keith Kannard, axophone,
clarinet; Warren, Lane, trombors; 1-3,
Humble, sousaphone.
WHB, Kansas Giy, Me. (365,5m-200ko), 7-7:30 p. m.,
organ concert, Linvoed theter, Morrill Morre, organis-

Humble, sousaphone.

WHB. Kanas City, Mo. (365.8m-829ke), 7-7.20; n. m., organ concert. Linvood theater, Morrill Move, organists; 7:30-7-50, aemonatulcal question boy; 8-9, accerdion selos. Clem Cupita; vocal selos. C. Arthur Ruge, beritone; Zelma Waite, accompanist; Hawatian music. Honolulu Strummers; 9-10, program, güdele Sengsters, Harry Taylor, and Sem Martin, assisted by Mrs. Harry Zuylor.

WHO. Des. Morles; Iowa (526m:570ke), 7:30-8 p. m.

orchestra.

Orches

WJJD, Mooseheart, Hl. (370.2n.810ke), 12:1 p. m., Pahner House symphonic players; Palmer House trio; 2-3. organ hour, Howard L. Peterson; 4-5, child artists; assembly of 1250 children; 5-30-7, instrumental; hour; Palmer Guuse symphonic players; House Lordon, Palmer House, Palmer House, Palmer Hour; Palmer Hour; Palmer House, Victorians; Ruff Allamon; 12:30, Settin, up, hour; Palmer House Victorians; Ruff Allamon; 12:30, Settin, up, hour; Palmer House Victorians; Jack Nolson,

rectlat; , Fett am tom, muno some and stando trio consert; Fert all Rush, bartinos Gienn Rowstando trio consert; Fert all Rush, bartinos Gienn Rowstando trio consert; Fert all Rush, bartinos Gienn Rowstands (1985), musicane; 1985, musican

tenor:
WMBF, Miami Beach, Fla. (384.4m-780kc), 7-9 p. m.,
Flestword Radin orchestra: 70-1-a m. Gene Fesdick
and his norchestra: Rechroyol Radin orchestra:
WMCA, New York, N. Y. (346.7m-880kc), 6-p. m.
Hatel Alpin string ensemble: 6-39, Club Capreleo
orchestra: 11, Krnie Golien and his Hotel Meximi orenestra.

WNAD, Norman, Okia., 8:10 p. m., Ernest Sharpe,

vocalist, Helen Rubin, viulinist, 10:30, O. U.

WSSDITURITY LEVEL (22.3m-1.00ec), a l. m. average of the control o

KEXE: Co

Mountain Time Stations
(FXF; Celerade Springs, Cele. (259m-120ke), 8:30 p. m., choir, First Haptist church (OAA, Denver, Cole. (252m-230ke), 12:15 p. m., Rialto the misicale; 8:30, Brown Falue atting or destrict.

theater musicale; 6:30. Brawn Paluce string orchestra.

Pacific Time Stations

KFI, Les Anguese, Calif. (467m-642ke), 5:30-6 p. m.,
Bamboo Gardens orchestra; 6. Nightly doings; 6:15.

KFI Sealong Californis; 6:30, vest booker program;
6:45. Radiotorial period; 7:8; program, students University of Southern Californis; 8:4, program, Audients
(6:15. Radiotorial period; 7:8; program, students University of Southern Californis; 8:4, program, arrange

will and Californis; 8:4, program, students

(FON, Long Beach, Calif. (232.4m-1296k), 6:50;
p. m., Brayton's theaster organ; 6:30-7, animement

information; 1:7-30, larestors' boar; 5:30-7, animement

information; 1:7-30, larestors' boar; 5:30-7, animement

fing Southern Californis; 5:4, program organ, 6:30-7, animement

kFWA, 0gden, Utah (261m-159ke), 4:5-p. m., organ

rectal, Paramount theator; 5:6, 0gden Radio deelers'

program.

recital, Faramount theater; 5-6, Ogden Radio cesses sprocram, CFWB, Hellywwood, Calif. (252m-1190ke), 8-9, m., Hy Kasela and his dince orchestra, Lou Parker, bailaid stracer; Frances St. Geotre, the inzumania attil, van dilli Blake, cenor; 9-10, program, Doir P. Smith, and bill Blake, cenor; 9-10, program, Doir P. Smith, and bill Blake, cenor; 9-10, program, Doir P. Smith, and bill Blake, cenor; 9-10, program, Doir P. Smith, and bill Blake, cenor; 9-10, program, Doir P. Smith, and bill blake, cenor; 9-10, program, Doir P. Smith, and D. Smith,

Chamberlain, baritone; Helen Backgaleni, soprano; Mary Acolla' Chamberlain, tolinist; Hugo Carrer, tenor; Palr Mandessler, tenor; Palr, 159th Interest Carrer, tenor; Palr, 159th Interest Carrer, 150 (260 Mary 2011), 150

Mundeon sensent, 8-10, shallo mearain.

KeW, Portland, Ore. (491)-in-610kd, 12:30-1:30 p. m., concert; 6-7. ddiner concert.

KeW, Portland, Ore. (491)-in-610kd, 12:30-1:30 p. m., concert; 6-7. ddiner concert.

Kell, Los Angeles, Calif. (495-2m-740kb), 6-6:30 p. m., letelabouts Areado enfeteria ordeseria, Jack Comsisave, Letter and Concert.

Kell, Los Angeles, Calif. (495-2m-740kb), 6-6:30 p. m., letelabouts Areado enfeteria ordeseria.

Brandon and Balg. Jesonne le Itaril, sercen starlets. Unide John, 8-10, program, Occivan Brothers with Caswell Coffee orchestra.

Kell, Hollowedd, Oslif. (233n-1260kb), 4-7 m. m. Kell, Loven Dowell, directo.

KN, Hollowedd, Oslif. (236-3m-880kc), 5-5:30 p. m., Samo, Bertle D. Hilands, 8-10, libe Turner orchestra. Loven Dowell, directo.

KN, Hollowedd, Oslif. (236-3m-880kc), 5-5:30 p. m., Samo, John, Joh

Friday, February 19

Headliners Today

Headliners Today

Eastern Central Mountain

8 n. m. 7 n. m. 6 n. m. 5 n. m.

KSD (345 Im-5600k) Hungarian emistr.

KSD (345 Im-5600k) Hungarian emistr.

WIZ (332 Im-5600k) Harbarian emistr.

WIZ (332 Im-5600k) Harbarian emistr.

WIZ (332 Im-5600k) War some.

WIZ (332 Im-5600k) War some.

WIZ (332 Im-5600k) War some.

WIZ (332 Im-5600k) Harbaria hour of music.

9:20 8:20 7:20 6:20

WOS (440.9m-880k) Old fieldlin contest.

CKPAB (3947-m-880k) Duelth remununity enchestra.

10 8:20 7:20 8:20 7:20 8:20 10

Friday, silent night for: CFAC, CHIO, CKMC, CKY, CNRC, CNRM, CNRO, CNRR, CNRW, IFFAU, KFEG, KFKU, KFMQ, KFWA, KFKF, KGO, KFAU, KLDS, KPRC, KUOM, PWX, WBBR, WGAD, WGBD, WEAO, WEBW, WGBS, WGST, WHAZ, WIP, WJAZ, WIRC, WLW, WLWL, WNAD, WRC, WREO, WRVA, WSAI, WSUI, WSMB, WTAM.

Eastern Time Stations

CKAC, Montreal, Can. (410.7m-730ke), 1:45 p. m., luncheon concert.

OKAO, Montreal, Can. (410.7m.730kc), 1:30 D. m. lumphon connect.

KDKA, Pittsbursh, Pa. (309.1m.970kc), 7:15-8 m. m. exerciass, O. Shaunon: 12:20 p. m., Sunday school control of the property of the property

Ulrich and Studies, Association, 1997, 199

BEZ, Bastin, Mass. (333.1m-900ke), 8:30 p. m., Little symphony orchostra, KDKA; 7. Music story hour. Belen S, Loravitt; 8. concert, Edwin McEnelly and his orchestra; 8:30, Hotel Vendome emecrt. Samuel Seiniger, director; 9, opening of Radio ball; 9:30, "Whatdoyoucallit club:" Conley Plaza orchestra; 9:45, Ray Stewartson and his symphonic jazz band; 11:15; Wittstein's orchestra; 12; Bit Faulo and his orchestra; 12:09, Edwin J. McEnelly and j. his orchestra; 12:00, Edwin J. McEnelly and j. hi

Willes and the common of the content of the content

Carmel Weber, pinalist; 3:30. Sucrusian and Aceil; 4:15, studio program; 4:34. Ruly Govan; 5:10, Clare 4:15, studio program; 4:34. Ruly Govan; 5:10, Clare 4:46. Ruly Govan; 5:30. Clar trio; 7:30, Jointly with WEAF, Blanche Blizabeth Waña, story teller-for G. R. Kinney Co.; 9, Winger's Crescent Part entertainers; 9:30, George W. Houck, reader, with Joenard Adman at the pinno in Longitolow's Adman of Stelly'; 10, wend and Grace follow; 10:25, Revitt Humorists; 11. Vincent Grace follow; 10:25, Revitt Humorists; 11. Vincent

PAUL ASH'S MERRY-MAD GANG AT KYW

Friday, February 19

Lopez' Hotel Statler dance orchestra, Harold Gieser, director, John F. Gunderman, Jr., at the organ, WGY, Schenectday, N. Y. (379,5m,790k), 2 p m., Asia Restaurant orchestra; 6:39, International Sansay school, lesson; 7, Juliure program, Lestamar the state of the control of t

ater; 8:15. conecty. "Take a Chanea." WOY players, Ten Davic Clary; 10:30, WeV orchestra; George Clutte, Unright.
Land Clark, 10:30, WeV orchestra; George Clutte, Unright.
Land Clark, 10:30, WeV orchestra; George Clutte, Unright.
Seadde hotel trio; S. Seniahe hotel trio; 11:13; Strand theater organ recitat.
WHN, New York, N. Y. Gist.2m-38480, 6 p. m., Littiman's dinner music; 7, Harry Richman and his second of the control of the control

10:30, Rufus and Austra, 11, concert, concert.

WMBF, Miami Beach, Fla. (384.4m-780ke), 7-9 p. m.,
Fleetwood Radio orchestra; Al Wohlman and Dave

woner.

Whani Beach, Fla. (384.4m-780kc), 7-9 p. nn. Meeters of Badio orchestra; Al Wohlman and Dave Rennic.

WMCA, New Yerk, N. Y. (364.7m-380kc), 6 p. nn. Hotel McAlpin string ensemble; 5:20. Hotel McAlpin string ensemble; 5:20. Hotel McAlpin orchestra. Sect. Model and Model McAlpin string ensemble; 5:20. Hotel McAlpin orchestra. Sect. Model and Model McAlpin orchestra. Sect. Model and Model McAlpin orchestra. Sect. Model and Model and McAlpin orchestra. Sect. Model and McMalpin orchestra. Model and McMalpin orchestra. Sect. Model and McMalpin orchestra. Model and McMalpin orchestra. Sect. McMalpin orchestra. Sect.

Central Time Stations
KFAB, Lincoln, Nebr. (340.7m.886kc), 5:39-8:30 p. m.
dinner concert; 8:30-10:30, Dwight Community or

KFAB, Lincoln, Nebr. (340.7m-880ke), 5:39-6:32 p. m., dinner concert: 8:30-10:39, Dwight Community of FDM, Beaumont, Tex. (315.6m-950ke), 12:30-1 p. m. Refluery band concert, T-130, children's program; 8:10. Refluery band concert, Tolkat, 9:10. Refluery band concert, Rolkat, 9:10. Refluery band concert, Rolkat, 9:10. Varied musical program. KFKY, Shranadoan, lowa (263m-140ke), 7:30 p. m., Refluery band of the state of

m. Walter Nixon, popular planist; 9-11, Mary-program.

Houston, Texas (296.9m-1010ke), 12 m., Frank on, totally hind wonder boy planist.

St. Louis, Mo. (945.1m-550ke), 7 p. m., Hun-un muste, Kordana Brothers; 7:30, commerce hour. Charles Schumacher, tonor.

Charles Schumacher, tonor.

Schulzer Schumacher, tonor.

Schulzer Schumacher, tonor.

Schulzer Schumacher, tonor.

Charles Schumacher, tonor.

violinist; Floyd Falch.

WCCO, Minneapolis-St. Paul, Minn. (416.4m-7206c),
12 m., Dick Long's Dayton trio; 2:30 p. m., Dick
Long's Nankin cafe orchestat; 8:15, Dick Long's
Nankin cafe orchestat; 8:15, Hissly Gardner's dance
Nankin cafe orchestar; 8:15, Hissly Gardner's dance
WDAF, Konsso City, Mo. (465.5m-8204c, 677
Trianor ensemble; 8-9:30, program, Missouri Paedfe
Boosters' club; 11:45-b. m., Ted Weem's Victor
WDAF, Konsso City, Mo. (465.5m-8204c, 677
Trianor ensemble; 8-9:30, program, Missouri Paedfe
Boosters' club; 11:45-b. m., Ted Weem's Victor
WDAF, Konsson, Charles Constanting the Constanting

12 m. Dick Long's Dayton trie, 2:30 p. m. Dick Long's Nankin cate orthestra; 6:15. Dick Long's Nankin cate orthestra; 6:15. Dick Long's Nankin cate orthestra; 8:15. Bisky Gardner's dance long the state of the stat

Orbid Gribsten; 12:39, Irené Bessley, Jack Penevell, Fretz Palmiere, M. (286m-1130ke), 6-7 p. m., dinner concert; Rauland-Lyrie trio; violin and vocal solos; 5:19, broughar progren; Frank Westphal and his All-American Ploueers; Batmony four; George Moran and 2a m., froling; All-American Ploneers; G. W. Voss, Dasso; James Benunott, banjo. WFAA, Balias, Tozas (475-96-630ke), 12:50-1 p. m., 54, Sears-Roebuck Arrientines W. Whaller, S. Sonsaks, T. Sandar, S. James, J. James,

Journal Sourano's Lenor; Manist's 11-1 a. m., bando fliends's cream's Cover orchestra; comendian: "The Gitt!"

Gitt! Gitt. "I (202 an 1990ko), 10-10-15 a. m., bando (Vinent, boy bartlane's Marrilla Carder, bartlane's Marrilla

Ing Palace orchestra; Husk O'Hare's Coronaut Grove orchestra; Capitol theater program; program, WORD. Bathvai, III. (278m-16908k), 7 b. m., program, North Shore line; 7-45, Uncle Dan and WORD Study (49-45, rectiat, Gent Dillard Gum School of Capital); 9-9-15, rectiat, Gent Dillard Gum School of Capital; 9-9-15, rectiat, Gent Dillard Gum School of Sheaffer Feb bumpany; II-11-45, rectifues; "The Golden Age."

chul: 9-9-45, recital; Glenn Dillard Gunn School of Musicis 2-16, readings, 12-11-14, program, W. A. Age. Proceedings, 2-11-14, program, W. A. Age. Proceedings, 2-16, readings, 12-11-14, program, W. A. Age. Proceedings, 2-16, readings, 2-



"Around the World with the Apollo Quartet" is the monthly feature at KYW, Chicago The four gentlemen above are visiting with the listeners many distant places in the world.

W180. Chicage III. (225m. 1330ke) 2.4 p. m. Shut. in programs; 1. Dan Russo, volinist; Ted Poetto, plenist; Marie Tully, soprano; Wayren Mayers, frauder; Connie Cowin, soprano; Irene Beusley, 6.8, dinner concert; Watter Peteton, songater; Evelyn Nelson, planist; string title; Shite Orr, soprano; Florence special feature, Walter Preston, director; Petero, Val. Nelson, Presson, Circletto, Walter Preston, Circletto, Walter Preston, Circletto, Walter, Preston, Circletto, Program, Temple Chainder of Commerce. WJLD, Meoscheart, III. (370.2m.810ke), 12.10 n. m., Palmer House symphonic phayers; trice; 2.3 negan hoor, Howard L. Peterson; child artists; assembly of 1,230 children; 5.36-7, Instrumental hour; Palmer House symphonic phayers; Arch Nelson; Victorians; 8.29, children; 5.36-7, instrumental hour; Palmer House Knisher, Palmer House victorians; 12.30 a. m. Knights of the Burning Candle.

Kessinger; Palmer House-Victorians; 12:30 a. m. Knights of the Burning Caudle.

WKAF, Milwaukee, Wis; C8fm-1f50ko), 10-11 p. m. studio program; S. D. A. quartet.

WLIB, Chicago, Ill. (302.8m-990ko), 7-8 p. m., mugical program; 11-1 a. m. dance musics: some; Correll and Gosden; Preda Leonard and Jewell Barnett.

WLS, Chicago, Ill. (344.6m-570kc), 12 noon R. F. D. noon program; Ford and Glenn; 6-p. m., R. F. D. some program; Ford and Glenn; 6-p. m., R. F. D. some program; Ford and Glenn; 6-p. m., R. F. D. some program; Ford and Glenn; 7-p. m., R. F. D. some program; Ford and Glenn; 7-p. Musical Pletures of F. Stantons Peems; 7:50. Wallase Bruce Amsbary, "Poems of Eduar A. Queet'; 8-95. Westimistic quarter: 8:35, Ford and Glenn; 9. Nash brass heavy program of the Company of the

WMBE, Chicago, Ill. (250m-1200kc), 7-8 p. m., Tri-anon duo; Frank Bordner, barltone; Frank Chaplin etnor; Edith Stonebouse, softano; old home songs 9-11, Trianen orchestra; Woodlawn theater orchestra; Niras Smiley, soprano; Eddie Matts, Billie Donovan Jack Goodwa

p. m., Brayton's theater organ: 6:30-7, amusement information; 7-7:30, courtesy program; 7:30-8, threstors' hour; 3-9, Press-Telegram program; 9-10, studio program; 10-12, Long Bench Bilts No. 883 frolia program; 10-12, Long Bench Bilts No. 883 frolia program; 10-14, Long Bench Bilts No. 883 frolia program; 10-14, Tong Bench Bilts No. 10-14, Tong Bench Bilts N

rectial, Faramount theator; 6-6, Ogden Radio dealers, Program.

KFWB, Hollywood, Calif. (252m-1190kc), 7:20 p. m., Jack Bouz, hunding and fishing secut; 7:30, even-program.

KFWB, Marshutz; 7:45, inderpolions brevitles; 8-9, program of the control of the contro

KHJ. Les Angeles, Calif. (405.2m-740ke), 6-6:30 p. m. Leighton's Arcade cafeleria orchestra, Jack Cromshaw, leaders, 6:30-730, history story, Prof. Hertzog; Richard Headrick, sereen juvenile, and Undie John; 8:10, program, Western Auto Supply company, KLX. Oakland, Calif. (508.2m-500ke), 4:5 p. m. winners hour; 5-6:30, Aunt Eisle's sunser mattice; 8:9:43, studio program; 9:35-10:30, Athens Athletic club corchestra.

KMTR, Hollywood, Calif. (238m-1260kc), 8-10 p. m. Turner orchestra in classical selections, Loren Powell

director.

KNX Hallywood, Calif. (336.9m-890kc), 5-5:30 p. m.,
Samy Jim's series; 5-30, First Fresbyterian, church
oram; 5-55 first Tales, and the series of the control of program. KOAC, Cervallis, Ore. (280.2m-1070ke), 8:15-9:15 p. m/;

program of music.

KPO, San Francisco, Galif. (428.3m.700ke), 7, 730-8
3. m., daily dozon, 10.30, 'Ye Toxone Cryer', 1.30-2
p. m., Ridy Seigne is Fainment hotel correlate; 5:30-6
Resthuchter, 0.30-7. Waldenar Lind and the States
Resthuchter, 0.30-7. Waldenar Lind and the States
Resthurant Lind and the States Restaurant orchestra.

KTAB, Oakhand, Galif. (424m.1250ke), 12-1 p. m.,
luncheon concert, 3:10, program, Breuner's.

KWSC, Pallian, Wash, (348.m-680ke), 7:30-9 p. m.,
Insvald Henneberg, 2ric Dantelson, banjelsts; Helen
Dunning, plantis.

Taps of Gong Are from Spanish Bell

Station WJZ, Mexico City, Sounds Relic of Seventeenth Century Design

Century Design

Century Design

Three taps of the gong and talks in a foreign language have set Radio fains in the United States to wondering whether they were hearing the Farast or Europe. The old gong whose mellow tones have entered son many homes through loud speakers is an ancient Spanish bell out the seventeenth century imported by earlier colonizers in Mexico and now has its resting place in the studio of the 500-watt Westinghouse equipped station CEE at Mexico City, where it begins and ends each program.

What will probably interest the fans more than anything else is that this powerful station which has been heard in more than one distant part of the United States is a government station, owned and operated for but one reason—education. The possibilities of Radio are regarded in this neighboring republic not chiefly for amusement but for the serious purpose of extending education. Dr. Jose Manuel Puig Casaurane, secretary of education, includes in his progressive program the installation of Radio receivers in every public school in the Mexicun republic so that eventually broadcasting will play an important part in every classroom, no matter how remote.

The talks which fans have been hearing on a 350-meter wave length are educational lectures given in Spanish.

Christian Science Radio Service Cures Headache

Although Not Believing in Faith Lady Receives Relief

Lady Receives Relief

AUSTIN, Minn.—One of the strangest happenings accredited to Radio was experienced here recently when a case of cure was reported to a local paper.

A well-known lady of the city was suffering from a severe headache, which was most inconvenient, as she was entertaining guests. None of the simpler methods brought relief, but during the evening the Radio was tuned in to the Christian Science service being broadcast from the Gold Medal Station, WCCO, Minneapolis St. Paul. Before the end of the service, her headache had entirely disappeared. The lady is not a Christian Scientist, but the relief of her headache being coincident with the service made a deep impression on her mind and was reported.

TO BASE ARTISTS' PAY ON REQUESTS

Popularity of Radio Stars Will Determine Entertainers' Remu-neration at Station WSBC

CHICAGO.—Paying the artist in a rec-ord of his popularity, by means of a bulletin board of requests, is the novel idea of "Dynamo" Dave Edelson, director-announcer of the World Battery station here, WSEC, located in the New Southern hotel.

hotel.

Mr. Edelson has been a favorer of the artist himself, throughout his Radio career, from his pioneer days in Radio advertising to his present position as director of his own station. He feels, the inadequacy, in most cases the absence, of remuneration to the entertainers that give the station its name, and seeks to pay them in some equitable way.

A record of popularity is the only way to show the appreciation felt by the invisible audience.

Licence New Cuban Station But State No Wave Length

But State No Wave Length
Washington.—A new Cuban station,
7SR, at Elia; is now broadcasting every
Tuesday and Thursday night at 8:30
p. im, according to a report to the department of commerce. The station is licensed
in the name of Salvador C. Rionda and
uses 500 watts power. No definite wave
length has been assigned, but the station
has the authority to use any wave length
between 200 and 360 meters.
Listeners are requested to suggest a
wave length that will not interfere with
their local stations. Those hearing the
station may cooperate by writing direct
to Mr. Rionda.

Radio Digest

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Vol. XVI

Saturday, February 13, 1926

Join the "I Won't Bloop Club"

Join the "I Won't Bloop Club"

L AST week marked the beginning by Radio Digest of a country-wide organization that will mean much to the future of Radio broadcast reception. It has been named the "I Won't Bloop Club" and its purpose is just what its name implies. There are no fees—it is absolutely free.

Have you joined? Do it today, and get your neighbor to do it likewise. Sign his name on the dotted line of the pledge card—either one clipped from page three of Radio Digest or obtained direct from your favorite broadcasting station.

Broadcasting stations are helping the club's campaign along by telling their respective audiences of the club and asking for memberships. Sign a pledge card, send it to Radio Digest, and receive a membership card. Simple as this arrangement may seem, many people may doubt the ability of this campaign to clarify the air of a few hundred thousand radiating receivers that are unnecessarily punctuating perfectly good broadcast programs with bothersome bloops and squeals.

But it will be effective, however, simple it seems. All we ask is that every listener sign the pledge and abide by the rules. After that the air will be better for broadcasting. You can depend on a man's word, and we are willing to wager that many an "I Won't Bloop Club" member will take steps to stop his radiation. He will either learn how to make his present set non-radiating or will buy a non-radiating receiver.

SIGN THAT PLEDGE NOW!

SIGN THAT PLEDGE NOW!

World Court Debate Makes Epoch

THE Chicago Tribune deserves credit for its enter-prise in bringing the World Court controversy directly before the people through Radio. A debate on the question was staged in Washington by the leaders of the opposing factions before a microphone not far from the capitol itself.

not tar from the capitol itself.

People were enabled to hear both sides of the controversy by their respective strongest adherents.

Afterward they were assisted in making a decision of their own by writing their vote on blanks printed in the Triburg.

the Tribune the Tribune.

It was a distinct step in advance both for newspaper enterprise and Radio service. It opens a new field of endeavor on the part of all newspapers. It was the logical sequence of Radio reports of the football games and other sports.

Why shouldn't the more momentous games that concern our national life be presented as directly and wirdly?

concern our national life be presented as directly and vividly?

It brought our statesmen who are on the firing line of our national front clearly and distinctly before their constituents. They became real. Their voices were physical and not third person reports in cold type. There was no opportunity of intentional or unintentional reportorial bias. They presented their own minds with their own voices directly into the ears of the voters.

This fine stroke on the part of the Tribune was a good thing for Radio. It cultivated a new class of listeners. Business leaders, too busy to take time to listen to the average Radio musical program, take keenly to this sort of service.

Internal problems such as the farmers' financial crisis could be placed vividly and directly before the people by the keenest thinkers and speakers. This, of course, has been done and is becoming more and more common but usually as an incidental talk to some public gathering infinitesimally small compared with the Radio audience.

The Tribune has seized the Radio possibilities with both hands—and strong hands they are. Col. R. R. McCormick, associate publisher, himself assisted in making this Washington enterprise a success. He even visited the president in the White House and the success of his mission there was manifest by the ensuing results.

This event of a direct personal debate between the

the success of its insignation there ensuing results.

This event of a direct personal debate between the strongest men in the United States senate specifically (not incidentally) into a microphone for the benefit of hundreds of thousands of listeners, might truthfully be said to mark an epoch—a new troth between the Radio broadcast and the daily press.

RADIO INDI-GEST

Consternations

Last week when all the nations
Were exchanging oscillations,
I sat beside this superset of mine,
All I got was radiations
Instead of foreign stations,
While the bloopers played the opera "Heterodyne."

There have often been occasions When our European relations Were muddled up and in a manner strained. But ethereal gyrations, Caused by DX animations, Made the greatest foreign rumpus ever gained.

THE NIGHT HERD

Get Out the Gold Award

Dear Indy: A dear friend o' mine said you was checking up on them there International Radio tosts. I got a one and ½ tube (the ½ is a Radiotron) receiver what can't be beat, and the tests proved I was right. Please confirm the following what I tuned in:

A—10.00 to 10:25 p. in, Central time. Sunday. Nothing. I didn't have the set turned on. Please confirm.

B—10:25 to 10:25 p. m. Still nothing. Aerial disconnected. Please confirm.

E—10:26 to 10:30 p. m. Whizzz—wheee, s-s-cr-eectch. Wave length variable. Believed to be Canary Islands. Please confirm.

Wave length variable. Believed to be Canary Islands. Please confirm.

G—10:30 to 10:45 p. m. More howls, shrieks, bloops, blams, zowies, bings, bliffs and crashes. Believed to the static. Didn't have to tune set. Any wave worked. Please confirm.

O—10:45 to 10:50 p. m. 223 meters. Sermon, faint, but if you talked to yourself fast enough you could convince yourself it was loud. Finally worked up courage to tell wife. Please confirm.

R—10:50 to 10:55 p. m. Went to tell wife and get her back to the phones so she could hear Europe "over the loud speaker." Please confirm.

X—10:55 to denouement. Wife shrieks with laughter. "Hah, hah, you poor sap," says she, "This is KFON. The First Church of Christ, Scientist, at Long Beach, California. They haven't learned yet that the tests are on, acct. of being kinda slow out there." Please confirm.

Such an easy way to make money! If you don't get the Gold Award we'll sign a bill of complaint. We've been asked to confirm so many things we are beginning to feel like a bishop. Anyway, here's what you got: A-sia: B-muddled; E-gypt; G-whizz; O-he-ll; R-menia; Y-otted A-sia; 1 X-cited.

> Lost, Strayed or Stolen Oh, Indi, I'm unhappy,
> My eyes with tears are wet—
> Tell me what has happened to
> That Red-Head Gal, Bobette.

SHOBIE

well, Shobie, we're sorry but just last week a letter mailed through Indi-Gest to Bobette was returned. Hope she comes back some day.

Or Put House on a Turn-Table

I have changed the direction of my aerial and now cannot tune in several of my old stations, although I have received many new ones. As I cannot change back to the old direction on account of lack of space, what would you suggest as a remedy?

D. X. HUNTER

As the technical department couldn't solve that

As the technical department country sort was turned over to us. Our correspondence course, that made us wealthy, didn't think that an important question, but you might try to have the stations moved. (In next week's issue, Indi will describe and explain his first hook-up since becoming a member of the technical staff, It will show how to connect a player plane to a set with more or less tubes.—Editor's Note.)

There Is Blood in the Moon

Incre is blood in the Moon

It looks too bad for pesty announcers. Last week
Blooper got three lines of a poem and couldn't get the
last one, so asked Indi to get the gang to help him.
Here are the first three lines:

I Know of An Announcer
Who's a Pest Upon the Air—
If I Can Get a Bouncer

And here are some of the suggestions that have come into the office. Have you any? You know the prize is an autographed heterodyne squeal.

"I think murder would be fair." J. A. C.

* * * "He'll want to say a prayer."

PETE

"He'll be minus hide and hair."

Be a Cake-Eater

Dear Indi: Please send some Radio Digests to me. My wife has been trying out recipes until, I'm sorry to confess, I have the Radio Indigest. So hurry please before I die from eating her pesky old Radio ple.

A. MICHIGANDER

Englishman Loses Control?!

"Jones carries his loyalty a bit too far." "How's that?" Humo:

Bump: "Hows that?"
Hump: "He smashed his new five-valve set by jumping to his feet when, at the end of the program, the band played God Save the King." LONDON BOBBY.

Two Kinds of Radio Bills



Condensed BY DIELECTRIC

Radio dramas may still require touching up, or toning Radio dramas may still require touching up, or toning down, here and there to meet the requirements of unseen action, yet there have been examples of such entertainment quite complete. The latest of these came through Station WJZ. New York, with the "screenless Radio drama" called "Just Suppose." It was not difficult to follow the action of the plot as seasoned artists spoke their parts with good diction and histrionic ability; however, this could have been done more easily had the male voices sounded less alike. Listeners were confused at times to know if Prince Ruppert or Tony spoke.

In some of the correspondence addressed to the editor of Radio Digest, there have been decided preferences for jazz and dance music generally. It doesn't seem to me that programs are overbalanced with classical music, although the trend is toward more of the classics. Most stations devote a part of each evening to dance music alone. Improvement in broadcasting ballroom music is noticeable in that less time is consumed than formerly with announcements between numbers. Many stations have received comment to that effect in these columns and I wish to add another: WHT, Chicago, which seldom interjects more than the station call and possibly title of the succeeding selection. selection.

Station WSM, Nashville, Tenn., conducted a special test night with evident success. Smith's dance orchestra furnished the main attraction with a full portfolio of popular hits rendered in an approved fashion. Such announcements as were made were given with pepterse and interesting. It should be remarked, in lairness to both listener and broadcaster, that the call letters of this station should receive less speedy dispatch in order that one may be sure of the station which he is tuned. This is an easy matter to correct and ranks as one of the most important items to receive attention. receive attention.

Splendid organ recitals are heard now and then from the high school auditorium in Atlantic City, N. J., broadcast through Station WPG. A number of complaints have reached me from devotees of this instrument who were tuned to the World's Playground during a recent recital, stating their exasperation over a thirty-minute broadcast with no reference to the station's location. This is not habitual, I wish to say, and probably will not occur again. In the course of groups of musical numbers, it sometimes happens that no announcement is heard between selections in a group, but only at the beginning and end. In classical programs, the continuity of a symphony may be seriously interrupted by applause between movements; call letters can hardly be classed with that, and they should be announced slowly and often.

If you were tuned to Station KSD, St. Louis, while the Bankers Choral club was broadcasting, no need of my mentioning how profitable was the time spent listening to their harmonies. Choral singing should entertain as many people as any other feature broadcast and no one can truthfully deny the presence of exceptionally well trained choruses in the country. More of them should be on the air than are now heard.

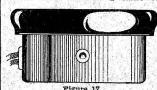
These community concerts grow on one and cause wonder that we had to wait so long for them to join Radio entertainment. Another such program through Station WSAI, Cincinnati, gave opportunity for music lovers to rejoice in the artistic work of Miss Vreeland, Mr. Beddoe and the Cincinnati symphony orchestra.

ABC Radio Fundamentals for Everybody

Chapter VI-How Grid Functions

By Milo Gurney

BEFORE explaining the action of the third or grid element of a vacuum tube, and its associated essentiate that but he receiver diaphragm. Unless the large and condenser and C battery, it appears important that both he receiver diaphragm. Unless the place of the Radio head phone or loud speaker be first explained. This is the emble one to more fully realize the communating part which the grid element of a catterning to picture a particular attempting to picture a



at B-B.

As the head phones are a part of the circuit through which battery current of the tube socket, and on the other to basses over the space charge, or electron that as it flows through the wires upon that as it flows through the wires upon the grid is alternately charged, negative

protant for successful operation.

It is apparent that the grid valve action is created through the alternate positive and negative value of the current reaching it. However, these alternate charges are not sufficient to furnish the nicety of control which is desired. Therefore, a negative booster, or C battery is placed in series with the grid circuit, and just ahead of the grid leak. This is usually of a 4-volt value, with the negative pole of the battery connecting to the grid leak. The purpose of this applied voltage is to counteract the effect of the positive alternating signal voltage, in order that the grid may be maintained at a predetermined negative bias, consistent with securing the best operating point out the curve of the tube. As a discussion of this point involves much that is foreign to an article of this type, it will not

be gone into for fear of adding compli-cations.

cations.

A Simpler Explanation

The above then is how the grid functions, and I guite realize that it is as meaningless to you as it was to me when first explained in a similar manner—so I won't let it go at that. I will give you in a very few words, my boy Jack's explanation, as all fathers of boys have "very bright" boys. One evening, after drawing numerous diagrams picturing grid action, and exhausting every known means for the conveyance of intelligence to him, with side remarks which included "dumb," "no brains' etc., etc., he piped "dumb," "no brains" etc., etc., he piped up with "Oh, yes, I've got it, and under-

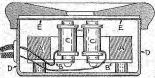


Figure 18

stand it better than you do. Now, listen, here is the way a grid works. The little electrons which leave the filament, can't jump as far as the big ones, so they make, just half a jump and land on the grid. Then old man positive sees a bunch of them on there, and cracking his whip says: 'Get outta here,' and they being scared almost stiff, take another jump to the plate. So you see, daddy, part of the time the little and the big ones are jumping and part of the time they ain't, and that's why the current varies.' Which explanation after all is pretty close to the truth and surely utterly devoid of technical verbage. So I take it back—Jack's explanation is the one to believe dank. stand it better than you do.

Without doubt, any attempt to explain the action of the grid must of necessity (Continued on page 24)

BIG PRICE REDUCTION

THE FORD of LOUD SPEAKERS

\$650

Fultone Loud Speaker has conclusively proven to the radio world that a reproducer could be made and sold at \$6.50 which would handle music or speech in volume as perfectly as any speaker at any price. The horn is solid, non-ring-

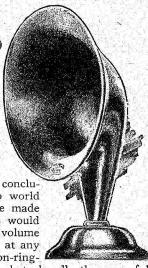
ing and wide-throated enough to handle the powerful reproduction from super-heterodyne or reflex. The adjustable diaphragm permits matching Fultone to any receiver and "B" battery voltage.

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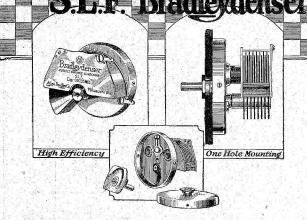
Chicago, Ill. CITY AND STATE.



Tear Off, Fill in, Mail Now

...for which ship me (

HALL & WELLS, Inc., 4600 Lincoln Aven CHICAGO, ILL.



A Compact Straight-Line-Frequency Condenser

THE new S. L. F. Bradleydenser is the outcome of long, careful research in condenser design. It provides straight-line frequency tuning over the entire circumference of a 36o-degree dial. Stations are widely and evenly spaced over twice the dial-spacing of ordinary condensers. This unique control is obtained by using a special cam on the condenser shaft which provides the straight-line frequency tuning now demanded by all set builders.

JNOTHER feature of the new S. L. F. Bradleydenser is the compact design which eliminates the long eccentric rotor plates. The Bradleydenser can be substituted for any condenser on a set without interfering with other parts on the panel. The one-hole mounting also simplifies installation. Be sure to bring your set up-to-date by getting a set of S. L. F. Bradleydensers from your nearest dealer.

ed for any concenser on a set without interfering with other parts on the panel. The one-hole mounting also simplifies installation. Be sure to bring your set up-to-date by getting a set of S. L. F. Bradleydensers from your nearest dealer.



Mail the Coupon

Allen-Bradley Company, 290 Greenfield Ave.. Milwaukee, Wisconsin

Please send us your latest literature on the new S.L.F. Bradleydenser and other items of the Allen-Bradley

WAS BOY SCOUT FIRST? ORGAN WEAR FAVORITE

WAS BOY SCOUT FIRST?

(Continued from page 6)
station. After letting Armstrong in for
the record, he acknowledged receiving
signals from others.

Mr. Godley reported that he had interviewed. Benzie and Miller about their
record and that they had taken the matter
in a sportsmanilike manner, but I have
been unable to find that either he or they
ever stated that they contradicted the reports sent to the Robinsons.

I have investigated the Robinsons and
the Scotchmen. They all have excellent
reputations for trutifulness and nonesty,
as I can prove by letters from unprejudiced persons. Benzie's father state
that the Robinson station was heard as
reported. I have investigated Armstrong
and Godley. They are, and were at the
time of the 1921 A.I.R. R. ". tests, professional Radio men. They made good
use of the publicity gained by their
"record," for their own benefit.

Arisstrong was engaged in litigation
against Dr. Lee Deforest, who manufactured the transmitter used by the
Robinsons. Armstrong won, and some
years later, after it was reported that he
had received a million dollars for his
regenerative circuit patent, another court
decided in favor of Dr. DeForest. I wrote
to Armstrong, telling him what the Robinsons said about the way in which he
obtained the letter from them. I received
in vestigating committee, that discredited

insons said about the way in which he obtained the letter from them. I received no reply.

I have asked all the members of the investigating committee that discredited the Robinson record, including Mr. Armstrong, A. A. Hebert and L. G. Pacent, where the evidence might be seen on which their decision was based. I also asked President Burghardt (presiding at that time) of the Radio Club of America. The evidence has not been made available. President Maxim of the American Radio Relay league says he never saw it. Mr. Armstrong said that Benzie and Miller made a mistake in reporting the time the Robinson station was heard.

The evidence in my possession has been submitted to the editor of Radio Digest and he states that it appears to be conclusive in establishing the Robinson record. Their station succeeded in getting across again in later A. R. R. L. Lests. Benzie, now in India, where he became an engineer on a toa plantation, has verified the reception of broadcasts from the British Isles, and his reception has been confirmed.

Did Armstrong and Godley steal the Robinson record?

Has the Radio Club of America the evidence that Armstrong promised to show

Robinson record?

Has the Radlo Club of America the evidence that Armstrong promised to show the Robinsons? Is it conclusive? Will it be made public?

If not? You say it!

"BLOOPER" WAR OPENS

"BLOOPER" WAR OPENS
(Continued from page 10)
of terrific annoyance and interference to
myself and many other listeners. I tuned
my set to the station the other fellow
was trying to receive that night, and
then I shut off my set and went calling.
At a nelghber's house a square away, I
found him sitting there toying with the
dials while his highly oscillating set with
brightly lighted tubes, was squealing all
over 'Kingdom Come.' He was trying
to get the station for which I had left
my set tuned, and I said to him: Let brightly lighted tubes, was squealing all over 'Kingdom Come'. He was trying to get the station for which I had left my set tuned, and I said to him: 'Let your dials remain as they are, don't turn off your set, and come up to my house.' My friend did as I suggested and when I turned on my set in his presence, in came his squealing interference. Then I said: 'Now call your wife on the telephone and tell her to move the dials back and forth, and let's see what happens.' Every time she turned the dials past the point of resonance for the station we both had tuned in, you can imagine the terrific howls, yelps, whistles, squawks and squeals that surged in through my loud-speaker, since my set has enough volume to fill an auditorium. 'My friend was convinced that he was a 'Radio disturber,' and promised to get a non-radiating receiver, but he still uses that interfering, 'blooper' although the occurrence happened some time ago, and he goes on disturbing other listeners within a radius of many miles. He is not a member of the Broadcast Listeners association of our city, but should be for his own good as well as that of other listeners whose enjowment he spoils."

Such situations as this are retarding the use of Radio. The sooner a compulsory remedy is found to prevent "radiated regenerative interferences" of this character from interfering with broadcast reception, the sooner will the art of Radio come into general favor for all around usefulness as an indispensable scientificutility for social and economic advancement, in furtherance of private and public education, entertainment and human progress.

(Having shown where the blame lies for this unfortunate condition of the atmos-

progress.
(Having shown where the blame lies for this unfortunate condition of the atmosphere and the extent to which a few can spoil the pleasure of hundreds of others, this discussion will be continued next week and for several issues to come and will take in preventive measures on various types of receivers.—Editor's Note).

(Continued from page 7) take you back to the trumpets of King Tut and can do it just as easily as he can to the Oriental fantasias of modern Arabla. At present he is on the air with a tour into the historical past. He has organized ah historical society for those who accompany him—membership cards are issued to those who write for them. They travel each Thursday evening back to music of past generations. generations.

A T WEAR it seems that sincere effort has been made to plan programs, which will, in their general course, please all classes of listeners. The regular weekly features include classical, semi-classical, juzz and talks by prominent speakers. New York relays, including the Atwater Kent hour on Sunday evenings, also are broadcast from WBAIL. The Goodyear concert orchestra entertains during Sunday afternoons, under the direction of Ivan Francisci.

Sunday evenings from 7:50 to 8:30, the WEAR quartet, which is composed of Leona Brown Woodcock, sopenaro and accompanist; Edith McArt, contralto; Albert Downing, tenor and director, and Gay Domidson, baritone, offer songs and song cycles particularly suited to this Fireside hour.

our.
The dinner concerts from 7 to 8 every vening are furnished by the well-known rehestras from the Hotel Cleveland and totel Statler, under the direction of Friederick Jansen and Maurice Spitalny

Hotel Statler, under the direction of Priederick Jansen and Maurice Spitalny, respectively.

The jazz music of the station is furnished by Warmack's singing syncopators. This orchestra offers a program late each Tuesday and Friday, atong with a half hour dinner concert from 7:00 to 7:30, on this latter evening. They also offer a program on the first and third Saturdays of the month from midnight to 1:30 a. m.

The WEAR studio instrumental ensemble, which just recently made its debut before the Radio audience, is composed of Leona Grown. Woodcock, staff planist'and director! Howard DeGant, violity: F. E. Sommer, cello: Bruce McAdoo, viola, and Herman Walten, flute. This ensemble' is to be one of the regular features on the WEAR programs.

A B C'S OF RADIO SETS

(Continued from page 23)
be clouded as it involves so much of the technical in order to treat the subject fairly. I trust that those of you who are sufficiently interested spek out the public library. A most traitful evening can be spunt in learning more about this wonder of Radio.

wonder of Radio.

(In the article on ABC fundamentals next week Mr. Gurney will explain the different types of audio frequency amplification, which when added to the detector serve the loud 'speaker.—Editor's Note.)

OLD DANCES WIN FAVOR

OLD DANCES WIN FAVOR

(Continued from page 5)

Henry Ford produced. Mellie Dunham of Maine, and Mellie, at the foot of the fliver king's throne in Detroit, challenged the world to take away his claim as the grand champion fiddler. Uncle Jimmy heard about it and was shocked.

"You tell that up-Main feller," said Uncle Jimmy to Hiszoner the S. O. J. "that any time he wants to meet a real fiddlin champeen Fill be listenin' to proposals. But it aim't fair for a youngster like him to hope for to beat a real of timer like me whose been fiddlin' at the dances since he was a baby on his mother's knies. Why he's only seventy-two. I was plowin' a field 'fore he was born'.

Latest advices from the front fall to state whether Mellie and Uncle Jimmy have signed up for a match with Mike as the referee.

WHEN the honors have been decided between Mellie and Uncle Jimmy the winner will doubtless be confronted by a score of new challengers. For instance there will be Mr. John Baltzell Step E. Oho avenue, Mt. Vernon, O., is the "champion old time fiddler of Ohio, Indiana and Kentucky, also Edison and Okch artist and very well-known as a Radio entertainer. He plays every Friday, 1 p. m., at WEAO, Ohio State University, Columbus, and has played at WBAM, WLW, WTAM and WHR."

It is probable the winner will have to settle with the champion of Connecticut, declared at the finals of a state contest for old-timers, over fifty years old, at Hartford Courant and the Capitol theater.

And Michigan will have to be reckoned with, according to a letter from the Michigan State college at East Lansing. It says: "One hundred letters in one day as the result of a single program is the record made at WKAR, the college Radio station. An old-time dance program played by an

(Continued on page 26)



The Eveready Hour

LIKE the fabled ship in which Jason brought home the enchanted fleece of gold, the Eveready Hour brings a rich treasure of entertainment to chaum the harborhomes of its hearers.

Inaugurated two years ago, the Eveready Hour was an adventure in broadcasting-an hour of connected entertainment, uninterrupted by the frequent injection of the name of the broadcaster.

Many of these programs have become famous. Thousands of letters voice the appreciation of our audience and ask for repetition of favorites. We make no requests for these letters, but they mean much to our artists and to us, and are of great value in helping us in our efforts to arrange programs of a distinctive nature and pleasing to the vast audience.

Radio has already become a highly specialized art worthy of the most scrupulous code of ethics, and the Eveready Hour represents a sincere effort to pioneer in providing the most acceptable form of radio entertainment.

Eveready programs cover a wide range of entertainment and human interest, transporting us to periods of wholesome simplicity; to barren islands where marooned sailors meet adventure, starvation and death; to battle-scarred France with singing doughboys; to emotional heights by telling with music the stories of the seasons; and to memories of yesteryear aroused by old ballad and musical comedy favorites.

. Eveready Hour begins at 9 p.m. each Tuesday night, Eastern Standard Time.

NATIONAL CARBON Co., Inc., New York — San Francisco Canadian National Carbon Co., Limited, Toronto, Ontario

> Tuesday night means Eveready Hourp. m., Eastern Standard Time, through the following stations:

WEAF-New York WJAR-Providence WEEI-Boston WTAG-Worcester WFI-Philadelphia

WSAI-Cincinnati WWJ-Detroit WOC-Davenport WEAR-Cleveland wcco-

Radio Batteries -they last longer



OPERATING AND TROUBLE SHOOTING

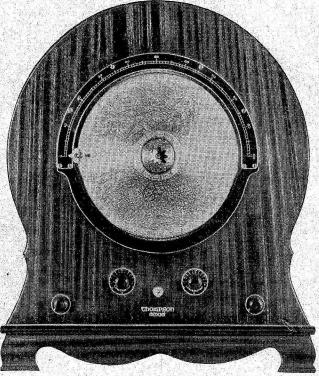
OPERATING and Trouble Shooting, is a Radio Digest feature, the purpose of which is to give practical information on the operation, care and cure of simple troubles in every kind of receiver. Standard Radio receivers of wide distribution and use are studied from the standpoint of instructions for installing and connecting, tuning and operating, and remedying little difficulties. The suggestions below, if executed faithfully, will make winter broadcast listening yield all there is to yield to the reader and give your set a fair chance to show its worth.

For the Owner of a Thompson Minuet Receiver

THIS is a five tube tuned radio frequency receiver of unique design both as to external appearance and internal mechanical assembly. It employs a straight circuit (non-reflex) which thickness two tubes operated as radio frequency amplifiers, a detector and two stages of audio frequency amplification. In appearance, the Minuet is distinctly unlike any other receiver and its compact construction and simple operation represent a most successful combination of two goals long sought, for by engineers. A cone type speaker is built into the front of the cabinet and internal compartments are provided for the necessary batteries. The tuning arrangement is about as close to single control as one can get at this stage of Radio's development and the major tuning is accomplished with the Station Selector Pointer which travels around the upper edge of the speaker diaphragm.

This is one of the first sets on the market to use tubes of the UX type and the new power tubes. The user has two choices as to tubes and batteries although in either case dry cells furnish the filament power. When this receive is operated at what the manufacturers choose to call "Regular Volume," five UX-199 tubes are to be used and this combination will provide ample volume for all practical purposes. To meet special conditions, a combination of tubes is possible which grives "Extra Volume" and here the user inserts four UX-199s and one UX-120. As we tried out the set in the laboratory, the "Extra Volume" combination was used which makes necessary the following batteries: 6 Columbia Ignitor dry cells, 3 Eveready No. 772 B battery units and 1

STEINITE LABORATORIES.



Eveready No. 766 B battery used as a Cl battery.

To connect the Eveready Ignitor dry cells use the short wires provided with the set. The center terminal of one is, connected to the edge terminal of a second and the center terminal of this second one is connected to the edge terminal of a third. This makes up one series group. The other three cells are connected this way to form another series group. Place the two rows of three close together so that the open edge terminals of each group are at the same end and the open center terminals at the other. Now connect the center terminal of one group to the center terminal of one group to the center terminal. With a heavy cord or tape tie the six cells together and place them in the bottom compartment at the right side (looking at the set from the rear).

Connecting Batteries

161 Radio Bldg., ATCHISON, KANSAS

Eveready No. 766 B battery used as a C is to be connected to one of the edge terbattery.

To connect the Eveready Ignitor dry groups. The solid yellow covered wire

connects to one of the center terminals at the other end of the series. The three number 712 B units are placed flat one on top of the other at the left side of the compartment with negative terminals to the left and plus terminals to the right. The bright red wire from the set goes for the bottom plus post, a short connector goes from the bottom negative post to the center battery's plus post and to this same plus post connect the instroom and red lead. The center negative post must be connected with a short connect to the top plus and to this top plus post we also connect the maroon lead. This leaves only the minus of the top battery open and the head which is black and red connects to that.

The C battery, which in this case is an Eveready B unit, is placed on the shelf in the very top of the set with minus to the left. Three leads come up through from the set to this shelf and the solid black one goes to the negative battery terminal. The black and green goes to the plus 18 post and the pure green lead is connected to the plus 22½ post of the battery.

Rigging the Aerial

Binding posts for the connection of aerial and ground are directly behind the

Rigging the Aerial

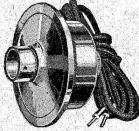
Binding posts for the connection of aerial and ground are directly behind the set proper. The ground connection is made as usual, to a water pipe and will a ground clamp. About two inches of the pipe are to be scraped shiny and the ground clamp secured at this point with a wire from the set, run to it as directly as possible, fastened to the clamp. The antenna can be erected either indoors or outdoors but the latter is preferable. The total length of the ground wire, the lead-in and the antenna proper should not exceed 125 feet. A single wire stretched between two chimneys, two trees or the house and the garage, and insulated from the supports at each end by a small Pyrex or porcelain insulator will give the best results. If, for example, the ground wire is 10 feet long and the lead-in from aerial to set will be 35 feet long, the wire between insulators should be about 65 feet long. Should the supports be further apart than this, the remainder of the distance can be filled in with rope or wire between the insulators and the further support.

(Continued on page 26)

(Continued on page 26)

Big Price Reduction

FULTONE LOUD SPEAKER FOR YOUR PHONOGRAPH



Fits Any Make Now Only

The unit will be shipped on a satisfaction or money back basis on receipt of price in money order or currency.

This unit is the secret behind the un-paralleled success of Fultone Speaker. Its large diaphragm and bobbins of fine

wire are protected from injury by a heavy nickel plated case through the back of which adjustment is made by means of a special key. The pole pleces are not made from a solid plece of iron but are assembled from 15 laminations of carefully chosen steel.

Tear Off, Fill in, Mail Now Tear Off, Fill in, Mail Now

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HALL & WELLS, Inc. Chicago, Ill.

HALL & WELLS, Inc., 4600 Lincoln Avenue, CHICAGO, ILL. NAME ADDRESS CITY AND STATE



REAL NEWSBOY ADDS REALISM TO DRAMAS



Mrs. Wilda Wilson Church wanted a real newsboy to take the part of "Puffy" in "Just Boys," which was broadcast over Radio Station KGO, San Francisco, so she picked Reginald Wood (above), who was

KGO AND RADIO DRAMA

KGO AND RADIO DRAMA

(Continued from page 4)

ambulance whizzed past the house where the family was gathered. The mother ran to the door crying—My! That ambulance certainly got here quick!

"The KGO players have given a drama each week for almost two years. Our repertoire has included almost all kinds of plays, but mostly those written for the stage—farce, comedy, melodrama, and the more serious heavy dramas.

"Every time we broadcast we are sure to get letters from entirely opposite reactions. Some will say, This is the best play you have put on yet!" Others will say, 'It was all bunk! Between these two extremes range the variety of opinions and appreciations of this multiple-minded ear, into which we pour our audio dramas every Thursday night. Letters have come from hospitals, shut-ins, niety-year-olders, from San Quentin penitentiary, from men working on the roads in the mountains of the west, and from children just learning to write.

In time, I believe, dramas will be written just for the Radio. In fact, it is being done to a certain extent today; although no one, to my knowledge, has been able to establish a veritable Radio technique.

been able to establish a veritable Radio technique.

"The person who cannot enunciate clearly, phrase correctly, make the printed word come ALIVE—who cannot make stories LIVE by the spoken word—will soon have no public voice. I believe the Radio audience wants sincerity and naturalness. In other words, the Radio drama must seem like life itself, coming out of ear-phones and loud-speakers. For all the listeners know, it may be real life itself, instead of a spoken play in a studio before a microphone."

A newsboy on the streets of San Francisco, yelling out his wares, was recently selected by Mrs. Church to take the starpart in the Radio drama. The boy made good, created a sensation among listeners for his newsboy talk and realism, and is now one of the regular members of the cast of KGO players.

The boy's name is Reginald Wood, and he took the part of "Putty" in the drama, "The Delinquents," written by Catherine Browning Miller, was produced on the New York stage under the name "Just Boys." In the stage production of the

play the part of "Puffy" was taken by Ernest Truex.

According to Mrs. Church, listeners are becoming more and more insistent on realism in the play over the air. Her experience with Reginald Wood has convinced her that the way to get realism is to go out and select people in real life to take the parts in plays produced herors the microphone. before the microphone.

OPERATING THE MINUET

(Continued from page 25)
One can now install the tubes and care should be taken to see that the UX-120 is placed in the proper socket. Being in a hurry, the writer did not watch this point carefully and looked for the resulting distortion for half an hour before finding that the UX-120 was in a radio frequency socket. Looking at the set from point carefully and looked for the resulting distortion for half an hour before finding that the UX-120 was in a radio frequency socket. Looking at the set from the rear and reading from left to right, the first three tubes are UX-199, the fourth is the UX-120 and the last is another UX-199. It will be found that two of the holes in the sockets are larger than the other two and that two of the pins in the lookes are the two sounds of the tubes are somewhat larger. Then the tube until the proper pins are fust above the proper holes and then a firm, steady push downward will set the tube firmly.

Behind the fifth socket mentioned above, there is a coil with three binding posts marked 1, 2 and 3 with a flexible lead coming up to them which may be secured to any one. If your antenna and ground system is close to 125 feet overall, slip this lead on post number 1; if the length is about 75 to 90 feet use post number 2 and, if an indoor aerial or very short outdoor aerial is employed, use post 3. The back can now be replaced on the sabinet and we are ready to put the set into operation.

**Operating the Minuet*

The back can now be replaced on the cabinet and we are ready to put the set into operation.

Operating the Minuet

Below the speaker on the front of the set are four small knobs; the two in the center are called "Compensators," while that at the extreme left is a volume control and that at the right is the filament control. Turn the two end knobs toward the right so the small pointers are about horizontal and to the right. Set the Compensator knobs at 0 position. Insert the small key provided in the battery switch (between the Compensator knobs) and push it inward until it stops, then lock in position with a slight turn either left or right. This operation lights the filaments of the tubes and must be done each time the set is put into operation.

Slowly move the Station Selector Pointer over the tuning scale from 0 to 100 and back, until a broadcast station is heard. Adjust position of this pointer as closely as possible for maximum volume. The small Compensator knobs are then adjusted separately for maximum strength—and that's all there is to thining in a station. On this first trial, however, it will be necessary to adjust the Volume and Filament Controls for best results. If these knobs are turned unnecessarily far to the right, the life of both the batteries and tubes will be considerably shortened. With a distant station tuned in with Station Selector and Compensators, turn the Volume and Flament knobs back to the left until a diminution of volume is noticed, then back to the right just a bit. At this adjustment the tubes are giving maximum possible results and increase in filament brilliancy resulting from turning the knobs to right would do no good.

To Shift Antenna Lead
While presumably the Compensator knobs would have to be readjusted slightly for each station we did not find this the

the knobs to right would do no good.

To Shift Antenna Lead.

While presumably the Compensator knobs would have to be readjusted slightly for each station we did not find this the case. With the left Compensator at 0 and that at the right at 2 to the left, all stations were brought in at maximum and no adjusting of the Compensators from these positions did any good. If excessive interference is encountered from powerful locals and no amount of fine tuning will completely separate them, open the back of the set and shift the antenna lead, on the coll, from post 2 to post 2 or from post 2 to 1, as the case may be. More range and volume may be secured on 3 but the selectivity will be increased, making reception more pleasant and tuning easier with this wire on post 1. The set is turned off by turning key to point where it springs out and it can either be left partly out or entirely withdrawn as you prefer.

OLD DANCES WIN FAVOR

OLD DANCES WIN FAVOR

(Continued from page 24)

orchestra composed of employees at the college brought forth this deluge.

"With the beginning of Henry Ford's old-time dance music fad, the "Power House Gang" at the college decided to form an orchestra. Fred Sherman, sixty-eight years old, claims the local championship, which he has held for the past forty years. He has been challenged by Jep Bisbee, Ten states were represented in the letters received."

Station KFMQ of the University of Arkansas considers its program incomplete without an occasional contest between old-time fiddlers.

So it seems that Mr. Ford is in a fair way to claim immortal fame for reasons (Continued on page 28)



World's Greatest Speaker Values

Construction of B Current Power Supplies

Part III—Thordarson UX-213 Tube Type

By George Walters

Price Correction

In THE list of parts presented in the last issue with the Molliformer B Power Unit, the price of the kit from C. E. Jacobs was given as \$17. This is the price of FW4 kit, a four jar assembly, while the kit used to FW8, containing eight jars and listing at \$22.50. The total cost of parts is therefore \$27.70.

on the Unitrola receiver, recently described in Radio Digest, not a trace of num could be found, even with the head receivers connected after the second stage.

The Special Transformer

This type has not been widely constructed chiefly because few transformer makers have brought out suitable gransformers for use with this new RCA tube. There are plenty of transformers for the Raytheen tube, but this one was signored. Requests began to come in to Thordarson, however, so the transformer and chokes used in this third unit were designed and are now available. The transformer is known as type R197 and comes, complete with twisted cord and light plug as input and six binding posts for output. There are two secondaries needed, one to light the filament and one to supply the high voltage. The filament secondary develops 5 volts between the outer terminals and has a center tap which is the positive output point. The large secondary develops 5 volts between each outer terminal and the center to the context of the secondary develops. The property of the large secondary develops 5 volts between each outer terminal and the center to the outer terminal and has a center tap which is as the positive output point. The filament and one to supply the high voltage. The flament and one to supply the high voltage. The flament and one to supply the high voltage. The flament and one to supply the high voltage. The flament and one to supply the high voltage. The flament and one to supply the high voltage to never the output point. The flament and has a center tap which is last point being the negative output point. The chokes are both compact and neating appearance with an inductance value each of 30 Henries. They are known as type R196 and two are necessary. The filter used in this layout is the same, as that provided for the Raythen-Acme combination, which was the first type described. Again we use some of the most keed by Tobe Deutschmann, neatly encased, easily menuted and available in the desired sizes. Allen-Bradley's line

Reted by Tobe Deutschmann, neatly encased, easily mounted and available in the desired sizes. Allen-Bradley's line is called upon for a number 10 Bradley-ohm and a 10,000 ohm Bradleyunit. Daven at Newark supplies the mounting, available everywhere now, for mounting the Bradleyunit. The socket is Benjamin's justly well-known spring-cushioned Clar

the Bradleyunit. The socket is Benjamin's justly well-known spring-cushioned Clera-tone, while the binding posts can be either Walnart or Eby Ensign.

The front panel size will depend largely upon whether you intend placing this equipment in a cabinet. If you are going to, use a /x12x3/16 piece of Formica, but if it will be left in the open you can do as the writer did and use a 6x7 scrap. It should be remembered that this tube is going to get pretty warm in operation, so, if the unit is enclosed, provide plenty of holes around top and bottom for circulation of air.

In PRESENTING this series of B clearly from study of the top view photospect in size first, then the next most is used, the hole for the Bradleyohn is largest in size first, then the next most is used, the hole for the Bradleyohn is the last a type of which very few have as yet been made, but having the advantage of extremely small size and absolutely no hum. This combination about to be described measures but 6 inches from the tip of its UX-213 tube to underside of baseboard, 8 inches in depth and 104 inches in width. Not much bigger than a large capacity B battery. Tested

Price Correction

N THE list of parts presented in the last issue with the Molliformer of the property of the presented in the last issue with the Molliformer of the most power of the property of the presented in the last issue with the Molliformer of the property of the presented in the last issue with the Molliformer of the property of the presented in the last issue with the Molliformer of the presented in the last issue with the Molliformer of the presented in the last issue with the Molliformer of the presented in the last issue with the Molliformer of the presented in the last issue with the Molliformer of the presented in the last issue with the Molliformer of the presented in the last issue with the Molliformer of the presented in the last issue with the Molliformer of the presented in the last issue with the Molliformer of the presented in the last issue with the Molliformer of the presented in the last issue with the Molliformer of the presented in the last issue with the Molliformer of the presented in the last issue with the Molliformer of the presented in the last issue with the Molliformer of the presented in the last issue with the Molliformer of the presented in the last issue with the most of the presented in the last issue with the most of the presented in the last issue with the most of the presented in the last issue of the last size from the bottom and 114 inches from the bottom and 114 inches from the bottom and 114 in

Figure 3. Wiring diagram of Thordarson UX-213 B unit.

For the rear 4 mfd, condenser use the rear right and front left lugs and for define lug on center rear row post of left and front right lugs. The reason test and front right lugs. The reason to grounding cases. The wiring of the trans
I the same connection scheme is followed between the upper pair of constitutions.

Figure 3. Wiring diagram of Thordarson UX-213 B unit.

Choke coils placing a soldering lug on the first, and rear left screw of second, adjusted so they found the same connection scheme is followed between the upper pair of constitutions.

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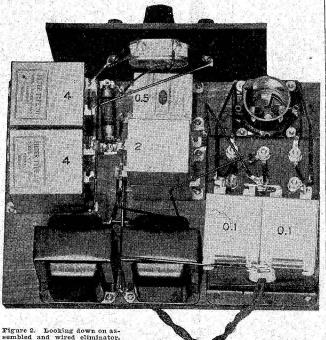
Figure 3. Wiring diagram of Thordarson UX-213 B unit.

choke coils placing a soldering lug on rear right screw of the first, and rear left screw of sécond, adjusted so they touch.

The socket is screwed down with P and G terminals to the front. The extra soldering lug on each outer front transformer binding post is now turned to front and nut tightened. Connect front row outer left post to rear left post of socket and front row outer right post of rear right post on socket. The second soldering lug on each outer rear transformer binding post is now turned outward and nut tightened. A wire is put in from rear outer left post to front left post on socket and another from rear outer right post on transformer to front right post on socket.

The soldering lug on left terminal of first choke is to point upward and is connected, by wire going up and over, to front enter post on transformer. The lower 2 mfd. condenser is now screwed down in center of board with terminals to right. A soldering lug is placed on the front mounting lug politing toward transformer. Put in a wire from the rear connecting lug of the left post on second choke. The second 2 mfd. condenser is then placed on the first and a wire is put in from front lug of one down to front connecting lug of the left post on second from front lug of the upper one is then connected back to the left terminal of first choke. Connect the right terminal of first choke to left terminal of second. Now put in a wire, passing between the chokes, from the mounting screw soldering lug on the front left screw of the front terminal of the lower 2 mfd. condenser.

Then place the two 4 mfd. condensers in position with a soldering lug on the front left screw of the front terminal of the lower 2 mfd. condenser. The Daven mounting goes in next with two soldering lugs on the rear left screw of the front terminal on the lower 2 mfd. condenser. The should touch the right and a soldering lugs on the rear termina



instly well-iknown spring-cushioned Cleratone, while the binding posts can be either Walnart or Eby Ensign.

The front panel size will depend largely upon whether you intend placing this equipment in a cahinet. If you are going to, use a 7x12x3/16 plece of Formica, but if it will be left in the open you can do as the writer did and use a 8x7 scrap. It should be remembered that this tube is going to get pretty warm in operation, of if the unit is enclosed, provide plenty of holes around top and bottom for circulation of air.

Getting down to actual construction, the layout of the apparatus can be seen of the layout of the apparatus can be seen in the place of the condensers of the front three binding posts, except that short leads will be necessary. Place two 1 units face down and side by to reach from lugs on posts to lugs on condensers. Transformer can now be seen of them in place with a large rubber band or string. Two solders in lugs are placed on each of the six thansformer posts. In the rear row of transformer. Now screw down the reach outer post against the outer lug on each outer post against the outer lug on each outer post against the outer lug on each of the lower condensers; solder to these. A short piece of wire can contact the inner lug on each lower 1 contact the front three binding posts, shandled before securing transformer, except that short leads will be necessary to top of them. For, the time being hold them in place with a large rubber band or string. Two solders in lugs on posts to lugs on condensers. Transformer on now be except that short leads will be necessary to top of the reach from lugs or posts to lugs on condensers. Transformer on the served down and the four place with a large rubber of the served down and the four reach from lugs or posts to lugs on the served down and the four reach from lugs or posts to lugs on the served down a



Pigure 1. Front view of completed Thordarson UX-213 B eliminator.



R. F. Heinrich, an artist of international reputation, created the exquisite panel decoration that lifts the new Crosley RFL sets into the realm of the truly beautiful and makes them objects of art in addition to instruments of marked technical superiority.

Two RFL models, \$60 and \$75 without accessories Add 10 per cent to all prices west of the Rockies
THE CROSLEY RADIO CORPORATION, Cincinnati, Ohio COSTS LESS BETTER



THORDARSON—UX-213 TUBE B UNIT

Lis
Thordarson Transformer R197
Thordarson Choke Coils R196
Tobe 4 mfd. Condensers
Tobe 2 mfd. Condensers
Tobe 5 mfd. Condensers
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ON—UX-213 TUBE B UNIT
List of Parts
Thordarson Blec. Mrg. Co., Chicago
Tobe Deutschmann Co., Boston, Mass.
Tobe Deutschmann Co., Boston, Mass.
Tobe Deutschmann Co., Boston, Mass.
Benjamin Blec. Mrg. Co., Chicago
Allen-Bradley Co., Milwankee, Wis.
Allen-Bradley Co., Milwankee, Wis.
Daven Radio-Corp., Newark, N. J.
Buy Mrg. Co., Philadelphia
Tornica Insulation Co., Indianapolis
Radio Corp. of America, New York City
Tool

(Continued from page 27)

(Continued from page 27)

screw soldering lug on the lower 2 mtd.

condenser, on the 5 mtd. condenser and
on the transformer can now all three be
connected together.

A short wire is then put in connecting
the rear connection lug on the 5 mtd. condenser with the rear terminal of the
Daven mounting and the front terminal
of the 2 mtd. condensers Another wire
connects from front terminal of the lower
2 mtd. condenser, across to left to the three
soldering lugs on the case of the 2 mtd.
the case of the 5 mtd. and the case of
the transformer. From these three
grouped soldering lugs run a wire straight
up, and then back, to the center rear
terminal of the transformer.

Connect the rear-connection lug of front
4 mtd. condenser with the front connection lug of the rear 4 mtd. condenser,
and connect this last named point to the
front lug of the rear 4 mtd. condenser,
We now go to the back of the four 1 mtd.
condensers on the transformer. The inner mounting lugs on the two lupper condensers are connected together with a
short piece of wire. Now put in a longpiece-from the grouped soldering lugs on
the adjacent mounting screws of the
chokes, up to, and soldered to, the inner
mounting lugs on the two lower 1, mtd.
condensers. A very short piece can now
connect these two inner lugs of the lower
two with the connected inner lugs of the
upper two.

Connections to Panel

A wire is now bent to touch, at its lower

Connections to Panel

Connections to Panel

A wire is now bent to touch, at its lower end, the front connection lug on the 5 mfd. condenser and the front terminal on the Daven mounting touch the center panel binding post soldering lug, then around to upper side of the Bradleyohin to the left terminal. Now hend a wire so it will connect from the right terminal of the Bradleyohin down to the soldering lug on the right panel binding post; then across to the front connection lug on the front 4 mfd. condenser. The last wire to be put in goes from the rear connection lug of the front 4 mfd. condenser

OLD DANCES WIN FAVOR

OLD DANCES WIN F AVOR

(Continued from page 26)
other than the manufacture of a universal gadster. With the collegians themselves joining in the movement, "back to nor-malcy with the dance," jazz seems to have received a severe kick in the corns.

Perhaps the next step will be a national contest for an Old-Time Fidder's championship. Would the readers of Radio Digest like to see such a contest organized, between leading broadcast stations? Let's have a vote on it.



r, which describes the street of the street WESTINGALE ELECTRIC CO. pt. 180 1751 Belmont Ave., Chica

THORDARSON B POWER

(Continued from page 27)

screw soldering lng on the lower 2 mfd.
condenser, on the 5 mfd. condenser and on the transformer can now all three be connected together.

A short wire is then put in connecting the rear connection up on the 5 mfd. condenser and on the connection lug on the 5 mfd. condenser.





Short hours. B. LG. F.A. X. Free book gives all facts. LEARN QUICKLY AND LASHLY AT HOME THE ACCOUNT OF THE ACCO





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Tithout obligating me in any way, please send wour free book "Rich Rewards in Radio," also

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

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

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Select Your Favorites from the Gallery of Radio Stars

- 3 Jack Little, popular wandering balladist
- 4 Paul. Small, who won fame through Radio 5 Coon-Sanders' "Nighthawks" at KYW
- 6 George Hay, 1924 Gold Cup an-nouncer
- nouncer
 7 Harmony Girls, Edith Carpenter, Grace Ingram
 8 Ford and Glenn, Lullaby Boys of WLS
- of WLS
 9 "Roxy". Rothafel of WEAF chain fame
 10 The Hired Hand, famous "Substitute Announcer" of WBAP
 11 Britt and Finch, popular song-
- 12 Bob Emery, Big Brother of WEEI WEEI 13 "Bill" W. G. Hay, ex-KFKX, now of WLIB

- now of WIJB.

 14 Happiness Boys, jovial singers of WEAF

 15 Lambdin Kay, "Little Colonel" of WSB.

 16 Leo Fitzpatrick, "Merry Old Chief," WJR

 17 Henry Field, 1925 Gold Cupruner-up

 18 Al Carney, organ favorite at WHAT Jane, ladies, adviser at 9 Aunt Jane, ladies, adviser at
- 19 Aunt Jane, ladies' adviser at WOC

- 1 Wendell Hall, king of ukulele ditties
 2 Graham McNamee, 1925 Gold Cup announcer
 2 Jack Little, popular wandering
 - 28 Indiana Male Quartet, popular at WEBH

 - 28 Indiana Male Quartet, popular at WEBH

 29 Jane Novak Blues Singer of Twin Cities, WCCO

 30 Jean Sargent, the original, now at WHT

 31 Ralph Emerson, popular organist at WLS

 29 Edna Adams, "Sweetheart of the Air" at KPRC

 32 Pat Barnes, vaudeville announcer at WHT

 37 R. V. Haller of KGW Hoot Wils Jame

 36 Hours Jame

 36 Quin Ryan, WGN's Uncle Walt and sports announcer

 37 "Willie the Weeper," Ernest Rogers, WSE

 38 Roglers, WSE

 38 Walter Wilson, "Uncle Bob" of KYW

 39 Jack Chapman of Drake hotel repute
 - KYW 39 Jack Chapman of Drake hotèl repute 40 Ray-O-Vac Twins, known coun-try-wide 41 Art Linick, KYW's Mrs. Schla-genhauer

 - genhauer
 42 Frod Hamm of WTAS, now
 WLJB, fame
 3 Meyer Davis Le Paradis orchestra of WRC
 4 "Senator Schultz, WLW's illiterate comic
 5 "Uncle John" Dargett of KHJ
 46 D. R. P. Coats, 1925 Silver Cup
 announcer
 47 Gene Rouse, WOAW's popular
 announcer
- 19 Aunt Jane, ladies adviser as WOC
 20 Vincent Lopez, No. 1 Pennsylvania orchestra
 21 E. L. Tyson, pleasing voice at WWJ
 22 S. W. Barnett, ex-WOC, now WBAL
 23 Art Gillham, "The Whispering Planist"
 24 Paul Greene, announcer at WSAL, "bridge voice" at WSAL, "bridge voic

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

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Radio Digest Publishing Co., 510 N. Dearborn St., Chicago

Two-Tube Short Wave 15-130 Meter Receiver

Part I—The Parts Required

By John G. Ryan

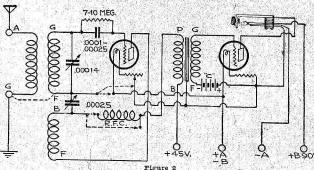
SHORT WAVE RECEIVER

SHORT WAVE RECEIVER

List of Parts

1 Short Wave Coil System
1 Karas Variable Condenser, 00014
1 Karas Variable Condenser, 00025
1 Karas Audio Transformer
2 Bby Cushion Sockets
2 Bnsign Binding Posts
3 Biradleystat
1 Leakandenser, 7 megohms
1 Leakandenser, 7 megohms
1 Leakandenser, 7 megohms
1 Amperite Unit, 1-A
2 Mar-co Dials, Nickel Plated
1 Formica Panel 97 4x18 'x3/16'
1 Formica Tanel 97 4x18 'x3/16'
1 Formica Insulation Co., Indianapolis
Formica Insulation Co., Indianapolis .60 1.85 1.00 .70 1.10

To THE average broadcast listener, the voices of the air are confined to that territory bounded, at one end, by 200 meters, and at the other, by 550 meters. There we find the efforts at entertainment of over 600 broadcasters, some of them clear and broadcasters, some of them clear and converlap in carrier wave from other stations. Did it ever occur to you that in other wave length ranges below or above this band there might be other voices spreading out without interference and with far better carrying power than those you hear?



Below 200 meters there is an interesting land well worth exploring, full of voices in several languages including French, Spanish, code and "ham annateur." The harmonics of scores of breadcasters wander in this short wave territory, frequently coming through in much better shape than the fundamental it is intended one should receive. The mighty KDKA that one usually finds on 309.1 meters has an equally mighty twin brother on 64 meters that spreads out over the country in great shape. The well-known WGY that talks on 379.5 meters for your broadcast receiver has a whole family of brothers that are found on half a dozen waves between 15 meters

Gets Everything

But Noise!

Read this convincing letter from a man who has "listened and marvelled":

marvelled":

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January 25, 1926.
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had it installed. Was pleasantly surprised at results obtained. Much more volume and
selectivity. During European
tests, the night of January 24,
1 omitted he Kane Aerial, I
could not get a sound.

P. M. Boeck"

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y eliminates all power naises such as leaky rmers, generators, motor hums, Delco etc. Cuts static and resemenation and squeaks in two. Dr. Gebrig of Oak-Jal., says it improves his reception fully cent. Do away forever with disagrecable

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tennae. Just send \$1.00 (a check wil do,
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Send at Once for Attractive Proposition

found that a regenerative circuit devised by Roy Weagant, now engineer for De Forest, best fitted their needs. The "hams," to use their own name for them-selves, developed coils of their own, using all the forms of winding known such as Lorenze, spiderweb, honeycomb, diamond-weave, banked turns and spaced turns.



Write for Proof we can show you. It's worthy of your consideration. YAHR & LANGE

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Mfgs.—Super-Ball Antenna Co., Green Bay, Wis.

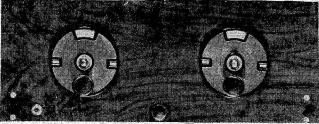


Figure 1

Figure 1

For those who do not care to wind the result would be very disappointing. Their own, or do not knew how, it was: It was decided to use plug-in coils so denecessary for some manufacturer to develop an efficient inductance that could be made commercially, yet be sold at a greasonable price. Mr. F. J. Marco has developed for Aero Products a most excellent set of coils for use in the Weagant hook-up that are now available in all territable of the first own with the Karas. John the intrnediate coil condenser of 90014 mfd. capacity, will ecover the range between 15 and 130 meters. A small base is provided on one end of which there is an adjustable primary. Into this base, by means of a clever plug-in arrangement, three different sets of secondaries and feedback coils are plugged. are plugged.

Three Channels Bunched

In would be possible to design and construct a single coil that could be used with a variable condenser of corrective, which would operate over the range mentioned above but the tuning would be so critical and the three most popular channels would be so bunched together that

The prace coins have 5, 4 min 2 turns, respectively.

In order that the tuning sensitivity would be equally critical from end to end of the dial, no matter which coil was used, a straight line frequency condenser is to be used with this system and naturally, it must be of rugged mechanical strength, with electrical losses as low as possible. The Karas construction meets all these requirements perfectly and the 50014 mfd. size is made especially for this work. In addition, there is required one of Karas standard 50025 mfd. condensers. The writer advises the use of (Continued on page 30)

(Continued on page 30)



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ty in transformers,
they use more Thordarsons than all
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NO ANSWER TO YOUR LETTER? READ WHY

VER sixteen thousand readers of Radio Digest/responded VEB sixteen thousand readers of Radio Digest responded to our request to send in evidence of international Radio reception. To be exact, during the course of the week we received 15,322 letters and 1,462 telegrams asking verification of reception. All telegrams were promptly answered and we endeavored to reply to letters as quickly as possible. In many instances, however, readers did not give us sufficient information to enable our International Test department to determine definitely the stations received.

All communications are being acomounted to the communication of the past tendary verifying reports of reception, and preparing official verifications of international reception.

If your communication was not handled as promptly as you might expect, please be lenient with us and bear in mind that nearly seventeen thousand other readers responded to our request. If your evidence of reception justifies, an Official Certificate of International Reception will be mailed in due course.

SHORT WAVE RECEIVER

Continued from page 29) these, even though you may have others on hand, since the kit was designed by Marco especially for them and those you have may not meet the minimum and maximum capacity requirements. The audio transformer is a Karas also, it was one of the very first to come out with large primary and large fron core giving the improved, and now accepted standard, reproduction. reproduction

Spring Type Sockets

Spring Type Sockets

The sockets chosen are the new spring type made by H. H. Eby company and they are picked for three very good reasons. First, they have a three point wiping contact that gives, a positive contact regardless of the prong diameter or amount of solder on the prong. Second, the tube floats, reducing microphonic noises in much the same way as the Benjamin socket. Third, you have a choice of three types of tubes possible since the UV-201A, the UX-201A or the UX-199, can be used in this socket. The UV-199 cannot be employed in these Sockets. The binding posts also are Eby's, and a dinus A, Plus 45 and Plus 90 are used. The formula is the contact of the contact

Minus B.
Detector filament voltage is regulated by a Bradleystat on the front panel, while the single stage amplifier voltage is gov erned by an Amperite. It your dealer has

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Send 25c Coin or Stamps RADEX, BOX 143-E, CLEVELAND, ().

THE PARTY OF THE PROPERTY AND ADDRESS OF THE PARTY OF THE

no Amperites, see if he hasnit Daven ballast resistors, which are similar. The grid leak and condenser specified are the Daven Leakandenser, the condenser being 60025 mfd and the resistor part, 7 meg-aphms. On this set the matter of grid sight and cordenser values is very critical. To quote Marco. "The smallest capacity possible on the highest resistance leak should be used, providing howling can be avoided. The writer has used 20 micro-microfarads and 12 megohms to good advantage with an ordinary 2024 nuce, but such values usually cause the tube to snap into oscillation with a long drawn howl... You will usually end up with a positive grid return, about .0001 to 0002 mfd, grid condenser and a 7 to 10 megohm leak."

Try Different Resistances

Try Different Resistances

Ty Different Resistances

Try Different Resistances

The Daven Leakandensers come in several sizes, with 7 megoinns as the likely size. If you wish to experiment further on this, however, connect a .0001 or .00015 mfd. fixed condenser across the clips under sub base and try different cartridges of straight resistance in the clips. The choke cold may or may not prove necessary. The receiver pictured here works very well without a choke as the impedance of the primary of the Karas transformer seems sufficient to force the radio frequency current into the feedback coil, rather than permit it to pass through the transformer. If you find that such a choke is desirable it can be readily made. A wooden rad or cardboard tube from % inch to 1 inch in diameter is wound with 200 turns of fine wire, preferably double silk covered of any size such as numbers 36, 38 or 40. On this model the choke was number 38.

(In this article, Mr. Ryan has covered

number 38.

(In this article, Mr. Ryan has covered the circuit and his choice of sparts. Next week, the assembly and drilling will be covered as is usual with the Digest system of presentation.—Editor's Note.)

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ADDRESSES WANTED

THE Technical Editor wishes the present addresses of the follow-ling readers: Mr. Charles Ackorman of Philadelphia, Mr. Fred Bradley of Ann Arbor, Mich, Mr. Robert Harrington of Daytón, Olio, and Mr. Jack Lenox, somewhere on the Orpheum circuit. If you know any of the above please call this to their attention, or write the Technical Editor giving the information.

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CINCINATI.—Mrs. Judith Anderson, expert dietician and culinary teacher, provides the Crosley WLW Radio listeners with excellent recipes every Wednesday at 3:20 p m., Central time. Copies of her recipes are mailed to hundreds of women who send letters to her every week.

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Dartmouth, WMAF
Fail River, WSAR, WTAB
Lowel, WGAO,
MARCHEST WASAR, WTAB
Lowel, WGAO,
MARCHEST WASAR, WTAB
New Bedford Hillside, WGI
New Bedford, WDAV
Springfield, WBZ
Worcester, WABR, WDAS Maryland:

State, City, Call

Michigan:
Ann Arbor, WCBO/
Berriet: Springs, KFGZ
Dearborn, WWI,
Detrolit, KOP, WCX, WWJ
East Laurbing, WKAR
Houghton, AXPMW, WWOA
Kalanazoo, WOAP, WIAQ
Menominee, KFLIB
Mt, Glemens, WABX
For Result, WABX
For Salon, WBBH
Rogers, WBB
Saginaw, WABM Michigan:

Minnesota:
Duluth, KEMS
Hutehlinson, WFAN
Mimeapolis, KFDZ, KFEX, KFMT,
KFOB, WBAH, WCAS, WLAG,
WLB

WLB Moorhead, WPAU Northfield, KFMX, WCAL St. Cloud, WFAM St. Paul, AV7, KFOY

Mississippi: Coldwater, KFNG Oxford, WCBH Pascagoula, WCBG

Pascagoula, WCBG
Missouri:
Butier, WNAR
Cameron, WFAQ
Cape Girardeau, WASAB
Columbia: WARAFIX
Location Cirk, WOS
Johlin, WHAN
Kansas City, WOS
Johlin, WHAN
MASAIX

Montana:
Montana:
Billings, KFCH
Bozeman, KFDO
Butte, KFKV, KFLA
Havre, KFBB
Helena, KFNY
Stevensville, KFJR

Stevensville, KPJK
Nebraska:
David City, KPOR
Fremont, WOAE
Hasting, KPKX
Technisch, WTAU
Ultiestiky Place, WCAI
Ulties, KFGY
Ulties, KFGY
Vork, KFPR

Nevada: Sparks, KFFR New Hampshire: Laconia, WKAV

Laconia, WAAV
New Jersey;
Atlantic City, WHAR
Gamden, WABU, WWAF
Gloucester City, WRAX
Lambserville, WAAX
New WAR, WARS, WABS, WBS,
NEW WAR, WRAZ
N Plainfield, WEAM
Paterson, WBAN
Tenton, WAAL, WOAX, WWAB

State, City, Call

New Mexico: Albuquerque, KFLR Roswell, KFMZ State College, KOB New York:
Albany, WNJ
Buffalo, WGR
Canandaigus, WSAW
Canton, WCAD
Tovia, WMAC

Canandsigus, WSAW
Canton, WCALAC
Intecs, WRAI
Intecs, WRAI
Intecs, WRAI
New York, WBAY
WJZ, WLAW,
WUAW, WSAY
Port Chester, WSAY
Port Chester, WSAY
Rocknetter, WBID, WHAM
Schenetter, WBID, WHAM
Schenetter, WBID, WHAM
Schenetter, WBID, WHAM
STREUE, WBBE, WFAB, WLAH,
WMAM

Tarrytown, WRW Troy, WHAZ Utica, WSL

North Carolina: Asbeville. WFAJ Charlotte. WBT Wilmington, WBBN

North Dakota:
Fargo, KFLY, WDAY, WPAK
Grand Forks, KFJM, KFJQ
Wahpeton, WMAW

Ohie:
Canton AQ® WAAD, WHAG,
Cincinnati, WAAD,
WHAG,
Cincinnati, WAAD,
WHAG,
Claimid, KDPM, WHK, WIAX,
WTAM*
Columbus, WEAV, WCAH, WEAO,
WMAN, WPAI,
Sevice, AWG,
WASD, WARD WMAN, WPAL Dayton, AWS, WABD Dover, WABP Granville, WRI Hamilton, WRI Hamilton, WRI Hamilton, WRI Howark WRIBA Pomeroy, WSAZ Sandusky, WABH, WQAF Springfield, WKAP Toledo, WABR, WTAL Wooster, WABW, WTAL

Oklahoma:
Bristow, KFJK
Chickasha, KFGD
Oklahoma, City, KFJF, WKY
Norman, WNAD
Okmulgee, WPAC
Tulsa, WGAF, WLAL

Tulsa, WGAF, WLAL

Oregon:
Astoria, KFJI
Astoria, KFJI
Astoria, KFDI
Baker, KFDA
Billstoro, KFFU
Billstoro, KFFU
Billstoro, KFFU
Billstoro, KFDF
Bedford, KROF
Medford, KROF
Medford, KROF
Pendleton, KFPE
Portland, KDVG, KFEC, KFIF,
KFOH, KGO, KGN, KGW

KFUH, KGG, KGN, KGW Pennsylvania: Allentown, WCBA, WSAN Altona, WGAW Butler, WKBA Eston, WKBA Eston, WKBA Eston, WKBA Eston, WASA Grove City, WSAJ Harrisburg, WABB, WBAK Havetford, WABQ

State, City, Call

Johnstown, WBBY, WTAC Lancaster, WDBC, WGAL McKeesport, WKAA MCKeesport, WKAA WBF, WGAT, WOAR, WHP, WGAW, WHP, WAAT, WOO, WHISHORD, KG, WGAF, WGA, WGBD, WRAW State College, WPAB VILIATOR, WGAM, WGAN, WGAM, WILKEN-BATTE, WEAK WHIKEN-BATTE, WEAK WHIKEN-BATTE, WEAK WHIKEN-BATTE, WEAK WHIKEN-BATTE, WEAK WHIKEN-BATTE, WEAK WGAM, WHIKEN-BATTE, WEAK WHIKEN-BATTE, WEAK WGAM, WHIKEN-BATTE, WEAK WGAN, WHITEN-BATTE, WHI

Wilkes-Barre, WBAX Rhode Island: Cranston, WKAP East Providence, WKAD Fawtucket, WBBQ Providence, WEAN, WJAR, WRAH, WSAD, WTAG

Provinence, WEAN, WARL, WRAH, WRAH, WRAH, WRAH, WRAH, WRAH, South Carolina Charles, WRAC, WOAH Chemedon, College, WSAC, Greenville, WQAV Seuth Dakota: Brookings, KFDV Rand City, WCAT, Stouth Falls, WPAT, Yankton, WNAX Tennessee: Bemis, WCBI, KNOXIII, WNAV Lawrenceburg, WOAN Nathville WABV FEAS: "FEAS: "

Texas : Texas:
Abliene, WQAQ
Amarillo, WDAG, WQAC
Austin, WCM, WNAS
College Statim, WTAW
Dallas, WDAO, WFAA, KFOP,
KKFEZ, WRB
EI Paso, WDAH, WPAT
Fort Worth, KFEQ, WBAP
GWTAC, KFOQ, WHAB,
WTAC

WIAC HOUSON, KFCV, WCAK, WEAY. WEY, WRAA Orange, KFGX Plainriew, WSAT Fort Arthur, WFAH San Antonio, AS6, WCAR, WOAI WEV, WRAA
Orange, KFGX
Plainview, WSAT
Port Arthur, WSAT
San Antonio, AS8, WC
San Bentro, KFLU
San Marcos, KFMU
Tyler, WOAF
Waco, WIAD, WWAC
Wichita Falls, WKAF

otan: Ogden, KFCP Salt Lake City, KDYL, KFLII; KZN Verment: Bellows Falls, WLAK Springfield, WQAE

Springheld, WUAE Virginia: Arlington, NAA Blacksburg, WEAE Fortress Monroe, WNAW Norfolk, WBBW, WTAR Richmond, WBBL Washington:

Washington:
Aberden, KNT
Bellingham, KDZR
Everett, KFBL
Lacey, KGY
Neah Bay, KFHH
Fullman, KFAE,
Seattle, KDZE, KFHR, KFJC,
KFOA, KFFR, KHQ, KJR, KTW
Spokano, KFIO

State, City, Call

Tacoma, BEI, KFBG, KGB, KMO Walla Walla, KFCF Wenatchee, KDZI, KZV Yakima, KFIQ West Virginia: West Virginia:
Charleston, WPAZ
Clarksburg, WBAK
Clarksburg, WBAK
Wisconstin:
Fond of Lac.
Fond of Lac.
Conse, WAEN
Madison, WHA
Milwatikee, WCAY, WHAD, WIAO
Neerala, WYAA
St. Crofx Falls, WRAL
WALD
Stank, WYAH
St. Crofx Falls, WRAL
WAUDAGE, WPAH

Wyoming: Casper, KFEV Laramie, KFBU Alaska: Juneau, KFIU Hawail:

Hawaii:
Honolulu, KDYN, KGU
Lihue, KFHS
Porto Rieo:
San Juan, WKAQ
Australia:
Willouby, 2FC
British isles:
Aberdeen, 2BD
Birmingham, 5IT
Bournemeuth, 6BM
Cardin, SWA
Lordon, 2LO
Manchester, 2ZY
Newastle, 5NO
Canada:

Canada:
Bellevia, CPCO
Calgray, CPAC, CPCN, CH
Calgray, CPAC, CPCN, CH
Calgray, CPAC, CPCN, CH
Ballita, CPCN, GPA
Hamilton, CFCN, GPA
Hamilton, CFCN, CPCW,
Kingston, CPCW, CJCG
Mont-Joh, CPCW, CJCG
Mont-Joh, CPCW, CJCG
Mont-Joh, CPTO, CPUC, CHYC
Namino, CPTO, CPTO, CHYC
Namino, CPTO CFCN. CHEC.

Nontrea, CEDO
CIGAC
Nanaimo, CFDO
Olds, CICX
OLIAWA, CAC
CICX
OLIAWA, CAC
CICX
Resina, CRCI, CHCD
Sashaton, CFGC
Sashaton, CFGC
Sashaton, CFGC
Sachaton, CFGC
CISC, CRCE
Vancoiver, CFCQ, CHCL, CYCE,

CJSC, CRCE.
Vancoliver, CFCQ, CH
CKCD
Victoria, CFCL, CHCE
Winnipeg, CKY

Mexico: Mexico City, CYB, CYL Switzerland: Geneva, HB1

PART IV-STATION DATA

(The following schedules complete the alphabetical station data list, Part III of which was given last BRAHOM GRIS HIS, FART 111 OR WHICH WAS GIVEN HER WEND. DECOME MICH. ST. BRIEFER, 500 WARTS. THE DECOME SHOWS AND HER ST. BRIEFER ST. BRIEF

Co. Daily ex Sun, 3:30-4 pm, concert; 5-5:30, Women's hour: 5:30-5, children's period; 7-10:30, concert. Sun, 3-5 pm, 5-30; 8:30-10:30.
28Y, Hawana, Cuba. 250 meters. Prederick W. Borton. 20W, Hawana, Cuba. 300 meters. Prederick W. Borton. 22Y, Hawana, Cuba. 200 meters. Vediciphones Elec.

CFG, Willouby, Australia. 1,060 meters. 5,000 watts.
Farmer & Co., Ltd.
2HS, Havana, Cuba. 180 meters. Julio Poever.
210, Havana, Cuba. 180 meters. Paul Perez Falcon.
210, Havana, Cuba. 850 meters. E. Sanchez de

Albunita and Cuba. Solo meters. Alvara Daza.
21.G. Havana, Cuba. 250 meters. Luis Gasas.
21.G. Havana, Cuba. 250 meters. Luis Gasas.
21.G. London, Beg. 355 meters. 1,200 waits. British Broadcasting Co.
280 meters. 20 watts. Manuel G. Salas. Dally ex Sun, 3-4 pm, music. Evening program.

casting Co.
SNO, Newcastle, Eng. 400 meters. British Broaucasling Co.
SSG, Glasgow, Scot. 415 meters. British Broadcasting
SSG, Cardin, Wales. 553 meters. British Broadcasting Co.
SAZ, Cientuagos, Cuba. 200 meters. Valentin Ulivarri.
SSH, Ecoumemouth, Eng. 855 meters. British Broadcasting Co.

6BY, Clenfuegos, Cuba. 300 meters. Jose Ganduxe. 6CX, Cienfuegos, Cuba. 170 meters. Antonio T. Figueroa.

Centragos, Cuba. 25 meters. Educado Lerry.
Calbarten, Cuba. 225 meters. Boardo Lerry.
Calbarten, Cuba. 225 meters. Josefa Alvarox.
Traincuc, Cuba. 232 meters. Josefa Alvarox.
Traincuc, Cuba. 233 meters. Josefa Alvarox.
Compared to the Com

Jones.

Adjustication of the desired process. Alfredo Brooks.

BAZ, Santiago, Cuba. 250 meters.

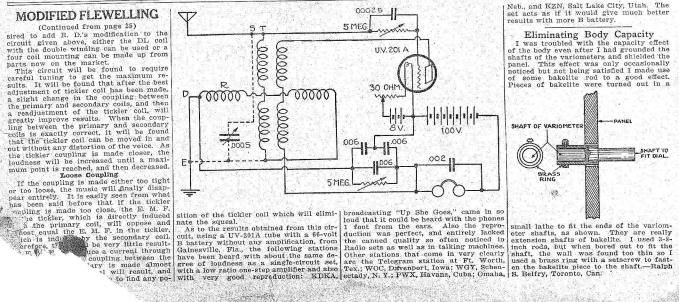
BBV, Santiago, Cuba. 257 meters.

BBV, Santiago, Cuba. 257 meters.

Alfredo Brooks.

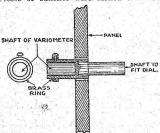
Alfredo Bro

2BD, Aberdeen, Scot. 495 meters. British Broadcasting MODIFIED FLEWELLING



STATE OF STA

Neb., and KZN, Salt Lake City, Utah. The set acts as if it would give much better results with more B battery.



John J.

Iskales

How would you like to dance to Radio music while on a tight rope suspended twenty-five stories above the street level in That is just what Similar was the street level in That is just what Similar was the street while the street was to be suffered in the street was to be enjoying it. Miss Millman is listening in with a miniature crystal receiving set and is using the tight rope for an aerial. This happened in New York city, as will be seen by the Woolworth tower in the background, while thousands of people stood breathlessly watching her, © K. & H.

Girls' Glee Club of Public School. 78, New York city, singing over the Radio from the Board of Education offices as part of the first program broadcast by the Board. 2. C. & A. Fluodo

of a Kadio, says Mr. Bear, one of Breker's trained animals, who spends his leisure moments between acts listening in.