RADIO LORE FOR NOVICE AND EXPERIENCED FAN

11. S. Senate Scene of Battle Over Broadcasting Networks

WRTL Director Charges Commission Has "Deeded Air" to Chain Group.—Caldwell Says Board Has Been Sympathetic Toward Small Stations

BY ROBERT D. HEINL.

The United States Senate has been broadcasters. the scene of a battle royal over chain the scene of a battle royal over chain stations between D. W. May of Station WTRL, Midland Park, N. J., who describes himself as a small broadcaster and Federal Radio Commissioner O. H. and Federal Rather Cone, who de-caldwell of the Eastern Zone, who de-ended the commission's policy with

tion before the senatorial committee.
This he followed up with a broadside his he followed up with a broadside favor of a single group, being advised of this, Commissioner Caldwell came back with an equally ram and lengthy reply through Semu-tor Copeland of New York.

The gist of Mr. May's accusations

were that the Federal Radio Commission has throttled radio broadcasting in this country, has practically "deeded the air" to a chain group, and has ae-

With Providence Radio Hams

dquarters of the American Radio Relay League, that radio amateurs of the United States and Canada are being asked to participate in the second annual international transmission test next month. A number of Providence amateurs have indicated that they will participate in the test.

Conducted under auspices of league, the test is to be held to enable communication with radio enthusiasts sbroad. It is designed to promote international fellowship and good will and to permit amateurs to try for distance records which will be official ones.

Various prizes are to be awarded the stations making the best transmission scores. The opening date is Feb. 6, Entries, however, must be in A. R. R. L. headquarters by Feb. 1. The test comes to a close the night of Feb. 19.

All amateurs who own transmitting stations are eligible, whether they are A. R. R. L. members or not, it is said.

At the request of the Federal Radio Commission, hundreds of amateur eperators of the nation, among them a number in Rhode Island, are sending reports on reception to Washington since the recent clearing of the air channels. These reports will be given important consideration by the comon when it shapes its program for further clearing of the air this year.

The amateurs make observations of six or seven stations, filling in questionnaires as to interference. They stipulate whether heterodynes are "Negligible." "Annoying" or "Objectionable." The reports so far are virtually unanimous in characterizing general reception conditions as good. There is still considerable heterodyning and some broadcasting stations are failing

one man in the world—a former radio

inventor of radio apparatus, doesn't even have a set. It doesn't amuse him and it doesn't interest him to hear a

corded harsh treatment to the small

"By a clever and one-sided publicity bureau maintained in Washington, the public has only received the commission's viewpoint of broadcasting and the necessity of eliminating hundreds of stations so as to give the radio pub-Caldwell of the Eastern Zone, who defended the commission's policy with regard to the chains.

May took his first shot at Caldwell when the latter was up for confirmation before the senatorial committee. The followed up with a broadside favor of a single group.

didressed to each Senator, which was didressed to each Senator, which was failly presented to the Senate as a whole by Senator Borah of Idaho. Upon being advised of this, Commissioner being advised of this, Commissioner and have practically crushed the small broadcaster. The commission apparament and lengthy reply through Senators and lengthy reply through Senators. Mr. Caldwell stating that a great num-ber of Schators had called upon him and the other members of the commission for the purpose of interceding for their constituents, but that they (the commissioners) refused to do any-thing, and that they proposed to rid the air of all so-called interference Commissioner Caldwell stating he was not responsible to anyone in the matter, except to the President of the United States, and that what he was debted by the property of the President of the United States, and that what he was doing had the approval of the Presi-

dent.
"Mr. May's allegation that the commission members are harsh and intol-erant in their actions and choose to disregard the advice of members of Congress are not only denied by me, Commissioner Caldwell responded spiritedly, "but will be properly regarded as absurd by the many members who have counselled with the Radio Com

Mr. Caldwell said the attitude of the commission has always been particuarly sympathetic towards the small stations and independent operators. "Indeed," he went on, "the small staions which are doing a good job ir their communities have been given every possible advantage, and where such stations are in isolated regions,

increases in power have been authorized for them up to the very limits of interference elsewhere. Unfortunately, however, as is generally known, we have not half enough channels to permit good service by our 680 sta tions. Nevertheless, the commission

ers have struggled days, nights and week-ends with the problem of fitting n these small, independent stations by while broadcasters might continue or their places on the air."

Whereupon Commissioner Caldwell declared that the 65 chain stations perated by the single group referred o, are, with two or three exceptions. udependently owned and operated and that these stations merely purchased their "few hours of daily chain prochain programs known as a 'chain serv

"The manifest independence of chain stations," Mr. Caldwell continued, "is evident from reading over the following list of the principal chain stations

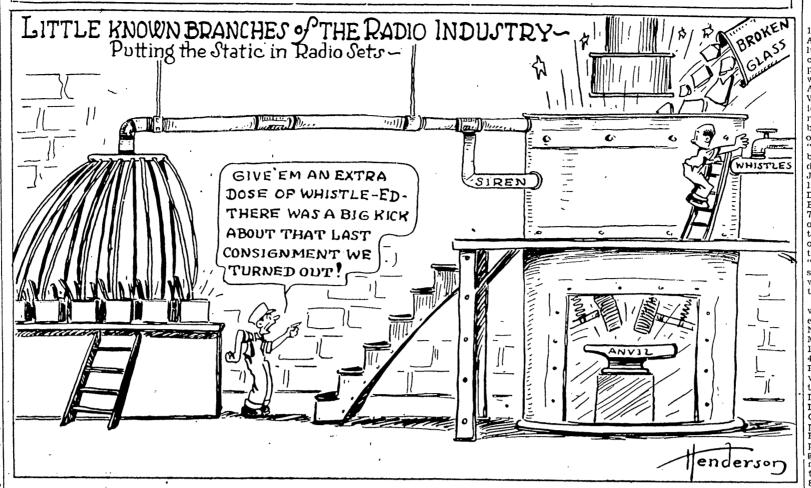
"The Courier Journal Company and some broadcasting stations are failing to keep their transmitters properly tuned; they say.

To the amelouse there is no such that they say. thing as getting tired of radio. So it will be of considerable interest to Providence "hams" to learn that there is Philadelphia, Pa.; Congress Square Hotel Company, WCSH, Portland, Me.; Kaufman & Baer Company, WCAE Pittsburgh, Pa.

word comes from Paris that Edouard Branly, who in France is credited with being the "father of radio," considers radio out of fashion. Branly, a noted inventor of radio conservative. Bankers' Life Company, WHO, Des Moines, Ia.: The Outlet Company, WJAR, Providence, R. I.; Worcester, Telegram, WTAG, Worcester, Mass. "I no longer follow the improvements in it," he says. "My researches are in another direction now."

Palmer School of Chiropractic. WOC. Davenport, Ia.: Washburn-Crosby Company, WCCO, Minneapolis, Minn.: Na-

SHORT CIRCUITS



Weekly Radio Test

1-Should the caps be off the battery when it is charging? 2-Do new speakers increase

volume 3-How much does the "C" battery, by biasing, reduce the

drain on "B" batteries? 4—How many stages of audio amplification are advisable? 5-What is the difference be-

tween a uni-rectron and a duo-rectron? (Answers to the Radio Test will be found elsewhere in the (Copyright, 1928.)

tional Life and Accident Company, WSM, Nashville, Tenn.: and Memphis Commercial Appeal, WMC, Memphis(

"At present the time occupied by hese chain programs averages less than two hours per day for each station, naking such chain duplication of negigible importance. Later, if this purechain time increases, or as better ndividual programs are developed by ther stations, now below 1000 kilocycles, such stations have, under the ommission's procedure of hearings, reourse to contest with the present ocupants the right to those 'distance' channels. And they will be assigned hese channels if it can be shown that uch reassignment would from the tandpoint of diversification of programs, be in the greater interest of sibilities in years to come. distant as well as local listeners."

January, 1927—Many

newed when whatever additional radio legislation to be enacted during the present session is discussed.

JANUARY IN RADIO.

In 1903, President Sent Radiogram King of England

January is a significant month radio history. Following are some chief developments in the science, a ecorded during that month: Jan. 19, 1903-President Roosevelt

sends a trans-Atlantic radiogram to King Edward by way of the Cape Cod and Poldhu stations. Jan. 20, 1904-The first press message is transmitted across the Atlan-

Jan. 14, 1920-Greece passes law making the carrying of wireless appara-tus obligatory on all Greek merchant vessels having 50 or more persons board, including the crew.

Jan. 2, 1921—The first church serv-ice is broadcast direct. Jan. 15, 1921-The first pick-up from

a banquet hall is broadcast; Herber Hoover is the principal speaker. January, 1924-Radio is used in the region of the Great Lakes during a blizzard in the dispatching of trains. Jan. 21, 1925 -- Storm warnings are

adioed to night air mall.

Jan. 4, 1926—The development chain broadcasting begins. 31, 1926—The National Episco pal Cathedral is under construction in Washington: this is probably the first great cathedral in the world to be built with a view to broadcasting pos-

January, 1927-Many high-salaried And there the controversy ends, for arrists make first appearances on air in the time being, but it surely will be sponsored programs.

The Dial's Diary By the Trouble-Shooter

Radio owners entertain many strange notions. They make their own queen experiments, and thereby reach conclusions which are far from accurate. In too many instances it is a question of starting out to prove a fallacy.

One of these odd conclusions which have hunted down has to do with the hissing of a radio tube and the effect of broadcasting upon it. One of my customers has been experimenting with a 200A detector tube of the alkali rapor type and which has a decided tendency to hiss, especially if two stages of 6 to 1, or higher, ratio trans-former coupling are used. He had almost decided to discontinue using this type of tube when he discovered that every time the music came in with good volume the hiss could not be heard.

"The music is drowning out the hiss," he decided. When I asked him how he was getting along with the tube he explained his theory and attempted to demonstrate it by letting me hear the hiss without the bread-caster being on the air and then show caster being on the air and then showing me how it disappeared when the

You see, he started with the idea that the music stopped the hiss and conclusion and work back until he made to expire on March 1.

arrived at the first thing that seemed to demonstrate it. He did not realize that the music itself, in turn, was dependent upon the carrier wave. Starting from the other end, I was able to show him wherein his method

was likely to get him into all sorts of difficulties. When there was an interdifficulties. When there was an intermission in the program from one of the near-by stations I detuned the re ceiver, throwing the carrier wave off slightly. Immediately the hiss ap-peared. And as I tuned the set clearly the hiss disappeared, proving that the carrier wave was stopping it.

LICENSE EXTENSION

Present Radio Permits Not to Expire Although it was originally intended

The reason for this alteration in the commission's policy is explained by Judge E. O. Sykes, acting chairman o the board, as follows:
"In view of the fact that three of
the four present members of the Fed-

cral Radio Commission are yet uncon-firmed by the Senate, I have recommended to my colleagues that the sta-tion transfers and other changes designed to improve reception in the broadcasting band, which were planned to be announced Jan. 15, be postponed until confirmation of a quorum of the could think of no better way to prove commission's membership, and that all his contention than to start with his broadcasting licenses be extended and

RADIO PROGRAMS

WEAN starts its week of programs at Rhode Island Academy of Hairdressing 11 a. m. today with the service from and Cosmetic Therapy. Saturday the All Saints Memorial Church. The Co-customary program will be observed. lumbia Chain programs will be broadcast at 3 p. m., 4 p. m., 9 p. m., 9:30 p. m. with the Hilo Hawaiians. Tomorpo m. and 10 p. m. An organ recital will be heard at 6:30 p. m., and the Asia Serenaders at 7 p. m. Gill Robb Hackett and Joe Lily will be Wilson, National Chaplain of the American Legion, will be on the air tomorrow at 7 p. m. Tuesday at 8 p. m. will be broadcast the modern musical tales of Hofman by the Hofman Hawaiians. ist. Thursday and Friday the customary programs will be broadcast. At 8:30 p. m. on Saturday the station will "Studies of the Constitution" will be broadcast Wednesday at 7:31 p. m., under the auspices of Mrs. Althea M. broadcast Rooney's pioneer entertain-Jencks, in co-operation with the Rhode Island State Board of Education. The

Island State Board of Education. The Dudley radio carollers of the Dudley Bible Institute will be on the air at 7:31 p. m. on Thursday. At 9:45 e. m. on Friday the WEAN Women's Institute conducted by June Abbott will be on the air. June Abbott will give a talk on "Learn to Earn Leisure." "Flowers in the Home" will be the subject of the talk by Marjorie Lanc which is to be broadcast from the station Saturday at 10:45 a. m. WJAR starts broadcasting at 3 p. m. with the Young People's radio conference, under the direction of the Greater New York Federation of Churches. The Men's Cenference from the Bedford Branch Y. M. C. A. will be broadcast at 4 p. m. At 6:30 p. m. the Weymouth Post, No. 79, American Legion, band will be on the air, and at 7:20 p. m. the Capitol Theatre program. David Lawrence, editor of the United States Daily, will give a talk, entitled "Our Government," at 9 p. m., and at 9:15 p. m.—Army recruiting realities revealed. Daily, will give a talk, entitled "Our Government," at 9 p. m., and at 9:15 p. m. will be broadcast the Robert W. Powers Orchestra. Tomorrow at 7:35 gram by Harold Strong, tenor soloist and Flora Gamarch, soprano. The station will broadcast a safety talk at 8:30 p. m. on Tuesday, sponsored by the Providence Safety Council. Wednesday at 8:05 p. m. will be broadcast the male quartet of the Junior League pres entation, "Oh Boy," which is to be presented at the Providence Opera House Thursday the usual program will be ob served. At 9:35 p. m. on Friday will be broadcast a musical program by Thelma Hickey Field, soprano: Ells-

WLSI commences its week of programs at 10:30 p. m. with the program of the International Bible Students, who will also broadcast from the sta tion at 5:30 p.m. The service from the Church of the Seventh Day Adventists will be heard at 8 p. m. The Guernsey skylarkers will be on the air at 9 p. m tomorrow. At 8:30 p. m. Tuesday, Dick Harrington and his gang will be broadthat the licenses of radio broadcasting stations expire Jan. 31, the Federal Radio Commission has announced that all these permits will be extended to March 1. cast at 8:15 p. m., furnished by the

worth Field, baritone, and Mildred Orr.

accompanist. "RCA Hour" will present Walter Damrosch conducting the New

York Symphony Orchestra at 8 p. m

WCOT goes on the air today at 1:30 A musical program will be broadcast at 8 p. m. on Wednesday by Peter Fa-vali, tenor, and Adelaide Faveli, pian-

vealed.
7:00 p. m.—Gill Robb Wilson, National
7:15 p. m.—Musical program.
7:30 p. m.—Correct time.
8:00 p. m.—Honolulu quintet.
8:30 p. m.—'Here's a Book," by Linus
7:17 ravers.
9:00 p. m.—Columbia broadcasting system
8:00 p. m.—Columbia broadcasting system

8:30 p. m.—
Travers.

9:00 p. m.—Columbia broadcasting system
program.

10:00 p. m.—Columbia Chain program.

Tuesday

9:45 a. m.—WEAN Women's Institute conducted by June Abbott. "Learn to
Earn Leisure," by June Abbott.

10:00 a. m.—Home service radio chat.

10:00 a. m.—Session conducted by Rhode
risland State Federation of Women's
Clubs.

11:00 a. m.—Symphony concert.

11:55 a. m.—Time signals.

12:00 p. m.—Weather report.

12:00 p. m.—Weather report.

12:00 m.—Asia Serenaders.
12:30 p. m.—Weather report.
12:35 p. m.—Continuation of musical pregram.
4:00 p. m.—Organ recital.
4:30 p. m.—Weather report.
6:30 p. m.—Dinner dance.
7:15 p. m.—Correct time.
7:20 p. m.—Peature.

7:15 p. m.—Correct time.
7:20 p. m.—Feature.
8:00 p. m.—Modern musical tales of Hofman by the Hofman Hawalians.
8:30 p. m.—O'ry House Tonight, WNAC players.
9:15 p. m.—Program to be announced.
Wednesday
10:00 a. m.—WEAN Women's Institute conducted by June- Abbott.
10:15 a. m.—Musical program.
10:30 a. m.—Session conducted by Rhode Island State Federation of Women's Clubs.
11:00 a. m.—Symphony concert.

Clubs.
a. m.—Symphony concert.
a. m.—Rhode Island Society for Mental Hygiene, speaker, Esther F. Greene, General Secretary.
a. m.—Time signals.

Continued on Page Eight.



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For the one who desires the best in radio we earnestly recommend ZENITH all electric radio sets. Many satisfied Zenith owners will agree with us that Zenith is the best in radio. Donald B. McMillan selected ZENITH above all others. A world's record of reception-was made ov a ZENITH in Hoboken, N. J., by receiving station JOAK in Japan, a distance of 7270 miles. Call, write or phone and secure descriptive literature. Home demonstrations can be arranged.

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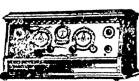
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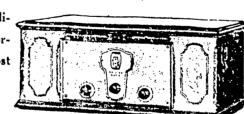
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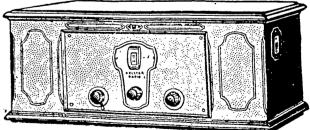
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Continued from Page Seven. m.—Asia Serenaders.
p. m.—Weather report.
p m.—Continuation of musical pro

p. m.—Musical program.
p. m.—Weather report.
p. m.—Boston dinner dance.
p. m.—Dok and his sinfonians.
p. m.—Correct time.
p. m.—'Studies of the Constitution,"
under the auspices of Mrs. Althea M.
Jencks in co-operation with the
Rhode Island State Board of Educa-

Rhode Island State Board of Education.

8:00 p. m.—Rhodes orchestra.
9:00 p. m.—Columbia Chain program.
10:00 p. m.—Columbia Chain program.
10:00 p. m.—Columbia Chain program.

Thursday
9:45 a. m.—WEAN Women's Institute conducted by June Abbott.
10:00 a. m.—Home service radio chat.
10:00 a. m.—WEAN cooking school conducted by Alice Bradley.
11:05 a. m.—Time signals.
12:00 m.—Asia Secenaders.

gram, 4:00 p. m.—Musical program 4:30 p. m.—Weather report.

7:30 p. m.—Correct time.
7:31 p. m.—Dudley radio carollers of the
8:30 p. m.—Broadcast from Metropolitan
6:15 Theatre studio. Theatre studio.

9:15 p. m.—Broadcast from Metropolitan
Theatre—Metropolitan Grand orchestra. 8:30 a. m.—Morning sing by the Shepard

8:30 a. m.—Morning sing v₂

Stores chorus,
9:45 a. m.—WEAN Women's Institute conducted by June Abbott. "Learn to Earn Leisure." by June Abbott.

10:00 a. m.—Session Rhode Island State Federation of Women's Clubs. "American Homemakers," by Mrs. Ida S, Harrington. Iarrington.
. m.—"Good Groceries," Sally Saw-

11:00 a. m.—Good crocertes, Sally Sawyer.

11:00 a. m.—Symphony concert.

11:30 a. m.—'Microphone gets suggestions
from Dorothy Dow.'

11:55 a. m.—Time signals.

12:00 m.—Asia Serenaders.

12:30 p. m.—Weather report.

12:35 p. m.—Continuation of musical program.

12:35 p. m.—Continuation of musical program.

4:00 p. m.—Musical program.

4:30 p. m.—Weather report.

6:00 p. m.—Uncle Red, 'auspices Providence Safety Council.

6:30 p. m.—Dinner dance.

7:30 p. m.—Correct time.

7:31 p. m.—F. M. Hathaway of the Better Business Bureau.

7:35 p. m.—Recital by E. Ansel Dahl, basso, Mabel Johnson, accompanist.

8:00 p. m.—Program to be announced.

9:00 p. m.—Columbia broadcasting system program.

9:00 p. m.—Columbia broadcasting system program.

10:00 p. m.—Columbia Chain program.

10:30 p. m.—Columbia Chain program.

Saturday.

10:00 a. m.—WEAN Women's institute conducted by June Abbott. "Learn to Earn Leisure" by June Abbott.

10:15 a. m.—Musical program.

10:30 a. m.—Flowers in the Home" by Marjorle Lane.

10:45 a. m.—Stopping at the counters with Anne Howe.

11:00 a. m.—Symphony concert.

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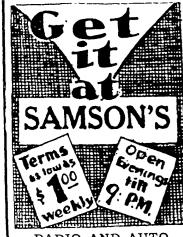
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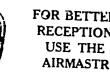
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Today's Programs in Brief 3:45-Music, WRNY, 326. 3:55-Church, WJZ, 454.

4:00—Organ, WGY, 380; KDKA, 316; WHAM, 278. Lecture, WIP, 508. Church, WRC, 469; WAAM, Conference, WEAF, 492; WEEI, 448: WTAG, 517. Music, WFBL, 258: WICC, 265: WOR, 422.
-Music, WPG, 273; WRNY, 326.
-Church, WFI, 408.
Special, WRNY, 326; WICC, 265.

265.
4:45—Church, KDKA, 376.
5:00—Conference, WTIC, 535.
Church, WFBL, 258.
Music, WHAM, 278.
Featurr, WLWL, 370.
5:15—Music, WRNY, 326: WAAM,

Feature, WJZ, 454.
Vespers, WBZ, 333; WHAM, 278.
Muslc, WGY, 380.
5:45—Orchestra, WAAM, 349.
6:00—Organ, WOO, 508.
Muslc, WEAF, 492; WFI, 405.
Forum, WRNY, 326.
6:15—Orchestra, KDKA, 316.
6:30—Feature, WHAM, 270; KDKA, 316; WBZ, 333; WBAL, '286; WJZ, 454.
Band, WEAF, 492; WGY, 380; WGR, 303; WEEI, 448; WRC, 469; WTAG, 517.
Muslc, WTAG, 517.
Muslc, WTAG, 517.
Muslc, WAAM, 267; WBZ, 333; WJZ, 454.
Forum, WICC, 265.
7:20—Caultol Theatre pregram, WEAF, 492; WGY, 380; WTAG, 517; WRC, 469; WTIC, 535.
News, WEEI, 448.
7:30—Church, WGR, 302; WOO, 508.
Muslc, WFEI, 448; WJZ, 454.
Talk, WBAL, 286.
7:45—Muslc, WBZ, 333.
8:00—Church, WLWI, 270.
Muslc, WHAM, 278; WBAL, 286.
8:15—Muslc, KDKA, 316; WBZ, 333; WJZ, 454.
8:30—Readings, WHAP, 236.
8:15—Chimes, WGR, 422.
9:00—Church, WBAL, 286.
Talk, WEAF, 492; WTAG, 517; WGY, 280; WGR, 303; WRC, 469; WTIC, 535.
Feature, WGR, 225.
Muslc, WFBL, 258; WHAM, 278.
Muslc, WFBL, 448; WPG, 273.

MIISIC, WEBS, 278, 278, News, WEEI, 448; WPG, 273, 9:10—Music, WEEI, 448; WPG, 273, 9:15—Atwater Kent hour, WEAF, 492; WGR, 303; WEEI, 448; WGY,

380: WFI, 408: WRC, 469. News, WTAG, 517. Music, WBZ, 333: WJZ, 454: WHAM, 278: KDKA, 316; WGBS, 349.

9:30-Music, KDKA, 316: WFBL, 258: WHAM, 278: WJZ, 454: WOR, 422. Music, WHAM, 278; WJZ, 454;

WOR, 422.

9:45—Music, WHAM, 278; WJZ, 454; KDKA, 316.

10:00—News, WBZ, 333.
Music, WFBL, 258; WOR, 422; KDKA, 316; WHAM, 278; WPG, 273; WJZ, 454;

10:05—Music, WBZ, 333.

10:15—Music, WBZ, 333, 10:15—Music, WJZ, 454; KDKA, 316.

Music, WJZ, 454; KDKA, 316.

Orchestra, WIP, 508.

Drama, WEAF, 492; WGY, 380; WRC, 469; WFI, 405.

10:20—Talk, WEEI, 448.

DISTANT STATIONS

11:45—Special, WGHP, 277.
12:00—Concert, WSAI, 428.
1:00—Music, WOC, 353; WLW, 428.
2:00—Music, WMAQ, 428.
Roxy and his gang, KYW, 526; WOC, 253;

1:00— Music, WOC, 353; WLW, 428.
2:00— Music, WMAQ, 428.
Roxy and his gang, KYV, 526; WOC, 353.
3:00—Conference, WOC, 353.
Organ, WLW, 428.
Music, WMAQ, 448; WGHP, 294; KYW, 526.
4:00—Music, WSAI, 428; KFI, 469; KGO, 545; WLW, 428.
5:00—Music, WMAQ, 448; WOC, 353.
6:00—Music, WMAQ, 448; WOC, 353.
6:00—Music, WNR, 441; KGO, 384; KFI, 469.
\$:30—Travelogue, KYW, 526.
Drama, WSAI, 428.
7:00—Ensemble, WJR, 441, Music, WOC, 353.
7:15—Music, WMAQ, 448.
7:20—Capitol Theatre program, WSM, 341; WSB, 476; WWJ, 575; WSAI, 428.
8:15—Music, WMAQ, 448.
8:15—Music, WMAQ, 448.
8:15—Music, WMAQ, 448.

WCCO, 405: WLW, 428: WSAI, 361, 8:30—Music, KFI, 469: KGO, 284, 9:00—Talk, WSAI, 361: WSB, 476; WWJ, 375. Music, WCHP, 294, 9:15—Music, WLW, 428: WJR, 441, Atwater Kent hour, WSAI, 291; KMTR, 526: WSM, 341; WOC, 353: WWJ, 375: WSB, 476. 9:17—Talk, KYW, 528, 9:30—Music, KFI, 469; KGO, 515; WJR, 441, 10:15—Drama, WSAI, 428: WOC, 353. Music, WMAQ, 448: KYW, 526, 10:35—Music, KFI, 469: MIX, 336; WMAQ, 448. 11:30—Organ, WGHP, 319, 11:30—Organ, WGHP, 319, 12:00—Music, KFI, 469; KNX, 336, WMAQ, 448.

9:00 p. m.—Arcadia dance orchestra.

Thursday.
8:00 p. m.—Mrs. Marian Tetreau,
troligist. 8:15 p. m.—Twilight Hawalian quintet. 7:00 p. m.—International Bible students' program.

8:00 p. m.—WLSI studio hour.
8:15 p. m.—Musical program furnished by
R. I. Academy of Hairdressing and
Cosmetic Therapy.
8:30 p. m.—Cinderella ballroom dance orchestra.

Saturday.
7:00 p. m.—Hotel Dreyfus string ensemble.
10:00 p. m.—Hotel Bütmore orchestra.

WCOT— CONN'S OLYMPIA—225.
Today.
1:30 p. m.—Hile Hawailans.
Monday. 2:30 p. m.—Studio program. 7:30 p. m.—Feature. Tuesday.

Tuesday.

2:30 p. m.—Studio program.

7:30 p. m.—Bobby Hackett and Joe Lily in uke and plano specialties.

8:00 p. m.—Joe Houlihan's melody boys.

Wednesday.

2:30 p. m.—Studio program.

7:30 p. m.—Arthur Guilmet in vocal selections.

8:00 p. m.—Peter Favall, tenor, and Adelaide Favall, planist.

Thursday.

2:30 p. m.—Studio program.

2:30 p. m.—Studio program.
7:30 p. m.—Milt MacNiel and his black-stone serenaders, Rock and Rye in yocal specialties and Ernest Reddy,

tenor. Friday.

2:30 p. m.—Studio program.

7:30 p. m.—Ford's musical aces. Saturday.

2:30 p. m.—Studio program.

2:30 p. m.—Rooney's pioneer entertainers.

OUT OF TOWN STATIONS To-Day

EASTERN STATIONS.

KDKA--PITTSBURGII--316. a. m.—Correct time.
a. m.—News of the Pittsburgh Automobile Show. tomonie Snow.

11:00 a. m.—Church services.

1:00 p. m.—Musical program.

2:00 p. m.—Roxy and his gang.

4:00 p. m.—Organ recital.

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4:45 p. m.—Service from Shadyside Pres-byterian Church.

byterian Church.

6:15 p. m.—Symphony orchestra.

6:30 p. m.—Cook travelogue.

7:00 p. m.—Correct time.

7:00 p. m.—Service from Calvary Episcopal Church.

8:15 p. m.—Collier's radio hour.

9:15 p. m.—Paula Hemminghaus with muted trombone.

9:30 p. m.—Vibrant melodies.

9:45 p. m.—Utica Jubilee Singers.

10:00 p. m.—Correct time. m .- Correct time m.—Correct time.
m.—Utica Jubilee Singers.
m.—Don Amaizo, the wizard.

WAAM—NEWARK—349.

11:00 a. m.—Service from the First Presbyterian Church.

3:30 p. m.—Mary Mellick and Fred Shaw.

4:00 p. m.—Service from Old First Church Community.

5:15 p. m.—Jersey Troubadours.

5:45 p. m.—Orchestra,

WBAL—BALTIMORE—286,
p. m.—National Church of the Air
p. m.—Cook travelogue.
p. m.—Concert orchestra,
p. m.—Cantata, "The Conversion
St. Paul" St. Paul."

WBZ—SPRINGFIELD—333.
m.—Service from South Congres

tional Church 1:00 p. m.—Musical program. 2:00 p. m.—Roxy and his gang. 3:00 p. m.—Musical program. 5:30 p. m.—Musical program. 5:30 p. m.—National Church of the Air. m.—Ensemble.
m.—Collier's radio hour.
m.—Ensemble.

10:00 p. m.—Ensemble.
10:00 p. m.—Correct time and news.
10:05 p. m.—Musical program.
10:35 p. m.—Correct time and weather.

Continued on Page Ten TOURS



"Old Fogey"

Is on the air every Wednesday evening at 8 o'clock over Station WLSI-261 Metres.

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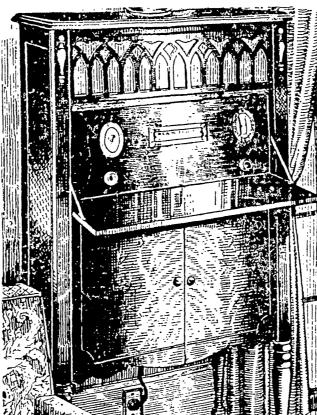
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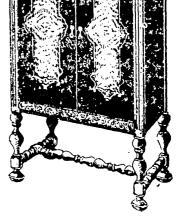
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For the convenience of radio fans the following hourly schedule of broadcasting today is given in brief form. Figures following stations de-note wave length.

The hours are based on Eastern Standard Time.
LOCAL STATIONS. 10:30—Church, WLSI, 361. 11:00—Church, WEAN, 275. 1:30—Concert, WCOT, 225.

DUAL STATIONS.

10:30—Church, WEAN, 275.

1:30—Concert. WCOT, 225.

2:00—Conference, WJAR, 484.

Music, WEAN, 275.

4:00—Conference, WJAR, 484.

Music, WEAN, 275.

5:30—Church, WLSI, 361.

6:27—Weather, WJAR, 484.

7:00—Music, WEAN, 275.

Music, WJAR, 484.

7:00—Music, WEAN, 275.

7:20—Concert, WJAR, 484.

7:30—Currect time, WEAN, 275.

8:00—Church, WLSI, 361.

9:00—Music, WEAN, 275.

Talk, WJAR, 484.

9:13—Orchestra, WJAR, 484.

9:30—Music, WEAN, 275.

Talk, WJAR, 484.

9:30—Music, WEAN, 275.

EASTERN STATIONS.

9:00—Feature, WJZ, 454.

10:20—Church, WFI, 405.

10:30—Church, WHAM, 278.

10:45—Church, WGR, 303; WIP, 508; KDKA, 316; WBZ, 333.

10:47—Special, KDKA, 316: WRC, 265.

11:00—Church, WEEI, 448; WICC, 265.

11:00—Church, WEEI, 448; WICC, 265.

11:00—Church, WEEI, 448.

2:00—Church, WEAF, 492; KDKA, 316; WBZ, 333.

1:15—Orchestra, WEEI, 448.

2:00—Church, WEAF, 492; KDKA, 316; WBZ, 333.

1:15—Orchestra, WEEI, 448.

2:00—Church, WEAF, 492; KDKA, 316; WBZ, 333.

1:15—Orchestra, WEEI, 448.

2:00—Church, WEAF, 492; WFBL, 258.

Orchestra, WRC, 469.

Feature, WEI, 448; WICC, 265.

Roxy and his gang, KDKA, 316; WBZ, 333; WJZ, 454.

2:30—Sunday school, WOO, 508.

Music, WBZ, 333; WEEI, 448.

Ensemble, WJZ, 454.

Conference, WEAF, 492.

Music, WBZ, 333; WEEI, 448.

Church, WRN, 326.

Organ, WPG, 273.

3:20—Feature, WRN, 326.

Orchestra, WGY, 380.

Music, WGY, 380.

Music, WGY, 380.

Music, WBL, 258; WRNY, 326.

Orchestra, WRN, 326.

Orchestra, WRD, 263; WICC, 265.

3:30—Feature, WRN, 326.

Orchestra, WRD, 326.

Orchestra, WGY, 380.

Music, WJZ, 454; WEEI, 448; WRNY, 326.

Concert, WHAM, 278.

11:55 a. m.—Time signals. 12:00 m.—Asia Serenaders. 12:30 p. m.—Weather report. 12:35 p. m.—Continuation of musical pro-

gram.

4:00 p. m.—Musical program.

4:30 p. m.—Weather report.

6:30 p. m.—Boston dinner dance.

7:00 p. m.—Dok and his sinfonians.

7:30 p. m.—Correct time.

8:00 p. m.—Program under the direction of C. C. Rinebarger.

8:30 p. m.—Basement studio group.

9:15 p. m.—Program to be announced.

WJAR-THE OUTLET COMPANY-484 Today.

6:27 p. m.—Weather report. 6:30 p. m.—Weymouth Post, American Legion band.
7:20 p. m.—Capitol Theatre program.
9:00 p. m.—'Our Government" by David
Lawrence.
9:15 p. m.—Correct time.
9:15 p. m.—Robert W. Powers's orchestra.

talk. 11:15 a. m.—Radio household institute. 11:30 a. m.—Providence Better Business Bu-

11:30 a. III.—Insulance
reau talk.
1:30 p. m.—Studio program.
1:30 p. m.—Studio program.
1:30 p. m.—Weather report.
1:35 p. m.—Continuation of studio program.
6:45 p. m.—Earl Shean and his orchestra asissted by William I. Carrigan, tenor.
7:30 p. m.—The Soconyans.
8:00 p. m.—Weather report.
8:05 p. m.—Meather report.
8:05 p. m.—Male quartet of the Junior presentation, "Oh Boy," to be piesented at the Providence Opera House.
8:15 p. m.—Musical program under the direction of Fred H. Deitz, Jr., baritone.

3:00 p. m.—Young people's radio conference under the direction of the Greater New York Federation of Churches.
4:00 p. m.—Men's conference from Bedford Branch Y. M. C. A.

9:15 p. m.—Correct time.

Monday.

10:45 a. m.—Muscla program.

11:15 a. m.—Radio household institute.

1:05 p. m.—Studio program.

1:130 p. m.—Weather report.

1:35 p. m.—Continuation of studio program.

7:30 p. m.—Weather report.

7:35 p. m.—Musical program by Harold Strong, tenor soloist, Flora Gamarch, soprano.

8:20 p. m.—'The Rhode Island Historian.'

8:30 p. m.—Correct time.

8:30 p. m.—Correct time.

8:30 p. m.—A. & P. Gypsies.

9:30 p. m.—General Motors family party.

Tuesday.

10:45 a. m.—Musical program.

11:15 a. m.—Fadio household institute.

1:05 p. m.—Gudio program.

1:30 p. m.—Weather report.

1:35 p. m.—Continuation of studio program.

6:30 p. m.—Roberts school orchestra, under direction of Raymond Roberts.

6:55 p. m.—Weather report.

7:30 p. m.—Weather report.

7:30 p. m.—Weather report.

7:30 p. m.—Weather report.

7:30 p. m.—Weather seport.

8:00 p. m.—Selpeling singers.

7:00 p. m.—Voter's service.
7:30 p. m.—Vational musicalities.
7:30 p. m.—National musicalities.
7:30 p. m.—Sallads of Old New York,"
by Arthur Gulterman.
8:00 p. m.—Selberling singers.
8:30 p. m.—Selberling singers.
8:30 p. m.—Selety talk sponsored by the
Providence Safety Council.
8:35 p. m.—John Sidney Dexter King, baritone soloist, and George Noble,
planist.
9:00 p. m.—Correct time.
9:00 p. m.—Correct time.
9:00 p. m.—Auction bridge game.
10:00 p. m.—Auction bridge game.
Wednesday,
10:00 a. m.—Housewives radio exchange. A
department conducted by Mrs. Wood
on matters of household interest
Questions submitted will be answered
by radio.
11:00 p. m.—Betty Crocker home service
talk.
11:13 a. m.—Radio household institute.

tone. 9:00 p. m.—Ipana troubadors.

9:30 p. m.-Goodrich orchestra and quartet. Thursday.

a. m.—Housewives radio exchance. A department conducted by Mrs Wood on matters of household interest Questions submitted will be answered Questions submitted will be answered by radio.

11:00 a. m.—Musical program.

11:15 a. m.—Radio household instirute.

1:05 p. m.—Studio program.

1:30 p. m.—Weather report.

1:35 p. m.—Continuation of studio pro-

1:35 p. m.—Weather report.

7:15 p. m.—Continuation of studio program.

7:15 p. m.—Weather report.

7:20 p. m.—F. Stewart Stranahan, Jr., of the Title Guarantee Company of Rhode Island, will give one of a series of human interest talks.

7:30 p. m.—Coward comfort hour.

8:00 p. m.—Dodge Brothers presentation.

8:30 p. m.—The Boy Friends.

8:55 p. m.—Rhode Island State Board of Public Roads talk.

9:00 p. m.—Correot time.

9:00 p. m.—Clicquot Club Eskimos.

Friday.

10:00 a. m.—Housewives radio exchange. A department conducted by Mrs. Wood on matters of household interest. Questions submitted will be answered by radio.

m.-Betty Crocker home service

11:00 a. m.—Betty Crocker home service talk.

11:15 a. m.—Radio household institute.

1:05 p. m.—Studio program.

1:30 p. m.—Weather report.

1:35 p. m.—Pollyanna.

8:00 p. m.—Weather report.

8:00 p. m.—Allen T. Usher and Charlie

8:00 p. m.—Weather Teport.
8:00 p. m.—Allen T. Usher and Charlie Carpenter.
8:15 p. m.—'Rhode Island Members of the Continental Congress," one of a series of historicals talks sponsored by the Rhode Island Society Sons of the American Revolution, by Post President Charles Dean Kimbali.
8:20 p. m.—Cuddy trio.
8:30 p. m.—Roy Partington, tenor soloist.
8:40 p. m.—Willard E. Smith, violinist.
8:50 p. m.—Roy Partington, tenor soloist.
9:50 p. m.—Correct time.
9:00 p. m.—Whittall Anglo-Persians.
9:30 p. m.—Rode Island Automobile Ciub talk.

9.35 p. m.—Musical program by Thelina Hickey Field, soprano: Ellsworth Field, baritone, and Mildred Orr, accom-panist. 10:00 p. m.—Palmolive hour.

Saturday.

10:45 a. m.—Musical program.
11:45 a. m.—Radio housenold institute.
1:05 p. m.—Al Williams and his orchestra.
1:30 p. m.—Weather report.
1:35 p. m.—Al Williams and his orchestra.
7:45 p. m.—Weather report.
7:50 p. m.—Feature.
8:00 p. m.—Feature.
8:00 p. m.—RCA Hour" presenting Walter Damrosch conducting the New York symphony orchestra.
9:00 p. m.—Philco hour, "Ahe Chocolate Soldier."
WISI—LINGUES STURMON

WLSI-LINCOLN STUDIOS, INC.-261.
Today.

10:30 a.m.-International Bible students' 10:30 a. m.—International Bible Students'
5:30 p. m.—International Bible students'
program.
8:00 p. m.—Service from the Church of
the Seventh Day Adventist.
Monday.
7:00 p. m.—Hotel Dreyfus string ensemble.
10:30 chargen skylaskers.

ble.

9:00 p. m.—Guernsey skylarkers.

Tuesday.

7:00 p. m.—Narragansett Hotel orchestra.

8:30 p. m.—Dick Harrington and his gang.

10:00 p. m.—Hotel Bilimore orchestra.

Wednesday.

6:00 p. m.—Providence College dance orchestra.

8:00 p. m.—Musical program.

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BY HENRY W. CHILDS

Technical High School VIBRANT with nervous energy, a senior pushed into the biology class, nodded to one or two of his friends, and drove full speed ahead to my position at the blackboard. "Want you to come up to the chemistry room," he panted, "right away. There's a bat up there. It's flopping around on the floor. I wanted to get to but I didn't dare. Nobody wanted to touch it. Said to get you. Come

We were in the midst of a biologic discussion which I disliked to interrupt at that time but there was no easy way out of it. The boy was so much in earnest that I could not disappoint him. Furthermore the inter-ruption had been so abrupt and the cause of it so entrancing that we could never go back to the original problem until the bat had been disposed of. One look around the class showed that, "Go ahead," urged one

"I'll look out for the gang," added another. I dodged out from under a festoon of red tape and trotted up to 5-15 on the bat hunt, armed with an empty candy box and a sheet of

In the meantime a valiant chemist had managed to tip a chalk box over the bat which was temporarily flightless. I slipped the thin cardboard under the bat and could then lift cardboard, bat and box. Another shift brought the animal into the smaller box. A glass bell jar was found which had a wide bottom, arched top, and was fitted with an opening at the top for a cork. This was very convenient for our purpose because it was wide enough for the animal at the bottom, permitted the stretching of the wings er its back, without the chance of irritating them on any wire screen, a good, draft of air could be brought in by perching the bottom of the bell on small supports with the warm air rising through the opening at the top. The bat could not escape and since light was admitted from all sides we had a good opportunity for seeing its action clearly. On our return to the biology room

the boys there had a chance to con-sider this curious flying mammal with livelier interest than was manifest when bats had been lumped with a larger group of mammals for comparative anatomy. We had a free for all discussion that brought out many interesting points of view. Perhaps some day we shall finish the other discussion but the group was so pleased with the unexpected turn of the day's program that they probably will re-member it long after they have forgotten about the other matter. Mayor was poor teaching on my part but

it was good "learning" on theirs.

The bat went the rounds with me that day. At lunch it was parked on a shelf overlooking a tableful of men. When one of them arose, to take his hat from the hook just below the shelf, the bat was startled, stretched its wings, and made its curious chattering squeak. To say that the gen-tleman was surprised is to state 't Forthwith the animal was put on display where the entire ground could look it over and exchange comments. Any tendency toward formality was overlooked in the spontaneous interest in the live captive.

In the science classes for Freshmen our discussions of automobile engines were postponed and we spent half an hour in chitter-chatter. I jotted down the first comments and questions but utes as the youngsters looked over the newcomer. The reader may find that some of these questions are similar w those that arise in his own mind. Perhaps he would like to try answering the others. Later on, I shall comment about the mysteries of batdom.

'Where'dsa get 'im, Mr. Childs?"

What are those black things on the "What is it-a muskrat?"

"Can you raise bats?"
"Dead?" "Do you have to keep it wet?" "Say it's got fur like a muskrat, at that." "Like a mouse!"

"Is that right, that bats have a family every six months?"
"Is it a big one or a little one?" "Young one, all right."

"No, its big enough."
"Go on—I've seen
(spreading his hands). "What does it eat?"
"What's his name, Mr. Childs?"

"Can it fly in the daytime?"
"Yes," added another, "but it can't see."
"How can it live without air?" de-

manded one who overlooked the ventilating device.

"Are you going to cut it up?"
"Look at the wings come out. Gee—
they're big."
"Turn it around so I can see."

"Say, Mr. Childs, is it supposed to be a bird or an animal?" "It's a rat." "Can it fly?"

'Get in your hair.'

"No. It's not a bird."
'Dare you to lift up the cover."
"Why? Is it dangerous?" "Is it grown-up?"
"Sure. See the fur."
"Do bats have nests?"

'Do they have eggs?"
"You gotta look out for bats 'cause they'll get you in your sleep.'
"How will they get you?"

"I'd like to see him move again."
"Are you going to keep him?"

New let me reply to some parts of that questionnaire! Probably the bat had been in hiding in the attic for its long winter sleep, but the prolonged warm weather roused it, it found a break in the skylight, got down into the chemistry lab, found it too warm to sleep and the supply to sleep and the supply of wingelinsects so poor that it was unable to supply itself with sufficient fuel for active flight.

"Is it alive?" is the commonest question asked by children when they first see well mounted specimens in museums.

The black structures on the sides were the folded wings. They are about the length of the body with projections showing at the ends of the folded black. The ed joints. The tough membranous skin stretched across the wing and over the tail gives a large surface for glidling. Hooks are used by the bat in hanging upside down normally when at test.

Confusion with musicat indicates the city boy's unfamiliarity with common wild animals. His impression of a photograph in some book of a furbearer crouched as this bat was, may be the explanation. The others, who be the explanation. The others who debated whether it might be a mouse

or a rat were not much nearer, except I should not like to attempt to raise bats. The consumption of mosquitoes and other tiny insects would be so

great that I could never keep up with the demand. "Dead?" Our natural assumption is that a non-moving animal is The 'possum, puff adder and that play 'possum take advantage of that. Camouflage of a close sitting animal is much more effective than

in the case of a rapidly moving creature because the eye is attracted by movement. I think that this was one of the arge brown bats rather than the little brown bat, but whichever speci-men it was it seemed smaller than the

impressions that we have of bats fly-ing about on summer evenings. At such times we emphasize the width of the bat with its enormous wings and hardly recognize, perhaps t tremely short head and tail appear almost as indentations be tween the wings rather than as dis tinct structures as seen in the birds.

Bats can fly both by night and by day but their eyes are adjusted in such a way that they find it more comfortable to travel after twilight. Owls and cats can also see in the daylight although we think of them primarily as being nocturnal wander-

Of course neither a bat nor any other animal can live without some supply of oxygen for supplying itself with sufficient energy to maintain its body heat and activity. In hibernating animals there is some oxidation carried on at a very low rate in which stored fat is the chief fuel. The animal comes forth in the spring very lean and very hungry. I imagine that the fluctuations in warm weather that we have had in such large quantity thus far this winter may have dis turbed some of the other hibernating animals. It seems entirely recsonable that woodchucks have crawled out of their burrows in December and Jan-uary of this season. I shall not no surprised to see such an item recorded one day if this mild weether predominates in late January and Feb-

The bat is a mammal, a fur bearer which lays no eggs but which brings forts its young alive and nourishes them with milk while they are young and helpless. It is not a bird in any sense. It flies but it has no feathers. Some squirrels have learned how to glide but the bat is the best mammal at manoeuvering through air. The ancient flying reptiles, (pterodactyls), the flying fish, as well as many kinds of insects have worked out methods for flight independently of one an-

latitudes. I consider the tradition that, "bats will get in your hair," as more than 99 per cent. Imaginary. One boy told of a camp director who said that a bat did test on the head of a camper once. Otherwise I have heard no definite tale and this one was only hearsay. Camp directors with whom I have associated have been known to

Why should bats settle in hair, any way? They can see well enough to avoid obstructions while in flight. It is true that they seek sheltered nook in which to mang during daylight hours, but it seems unlikely that a bar would choose such a spot.

A bat is dangerous to one who carelessly picks up the animal. A quick cut with tiny sharp teeth is the limit of the damage that can be inflicted Unless an infection with blood poiso ing bacteria chances to occur also, there s no harm done.
Bats are glorious mosquito chasers

They have my full sympathy for they are splendid allies. I object strongly to having them killed for sport or for the sake of making a striking mount with wings spread. In this instance I was helpless to care for the bat and released it in a dismal portion of the building where it may be able to find a new spot where it can continue its Interrupted hibrrnation.

RADIO PROGRAMS

Continued from Page Eight. WDRC-NEW HAVEN-283

a. m.—Service from the Church of the Redeemer. p. m.—Chinatown rescue mission pro-

WEAF—NEW YORK—192.

1:00 p. m.—An hour of chamber music with Katharine Palmer, soprano.

2:00 p. m.—Interdenominational Church services under the direction of the Greater New York Federation of Churches.

3:00 p. m.—Young People's radio conference under the direction of the Greater New York Federation of Churches.

Greater New York Federation of Churches.
4:00 p. ni.—Men's Conference from Bedford Branch Y. M. C. A.
5:30 p. mi.—Feature program.
6:00 p. mi.—Hedi Korngold and Rebecca Davidson.
6:30 p. mi.—Weymouth Post, No. 79, American Legion Band.
7:22 p. mi.—Capitol Theatre program.
9:00 p. mi.—'Our Government," by David Lawrence.
9:15 p. mi.—Correct time.
9:15 p. mi.—Atwater Kent hour.
10:15 p. mi.—Biblical drama.

WEEL-BOSTON-418.
10:50 a. m. Service from Old South Church.

1:15 p. m.—Sager hour of hospitality.

3:00 p. m.—Weekly book talk, John Claire Minot, Literary Editor for the Boston Herald.

Minot, Literary Editor for the Boston Herald.

3:15 p. m.—Sam Curtis radio chat.

3:30 p. m.—Copley players.

4:00 p. m.—Dr. S. Parkes Cadman, Redford Branch Y. M. C. A.

5:30 p. m.—Weymouth Post, No. 79, American Legion Band.

7:20 p. m.—News dispatches.

7:30 p. m.—Correct time.

9:10 p. m.—Newspaper sidelights.

9:15 p. m.—Correct time.

9:15 p. m.—Correct time.

9:15 p. m.—Atwater Kent hour with Wilbur Evans, Mme. Louise Homer and her daughter. Louise Homer Stires.

10:15 p. m.—Crilising the air with Bill Harrison.

WFBI.—SYRACUSE—258

2:00 p. m.—International Bible Students' program.

3:00 p. m.—Columbia Chain program.

4:00 p. m.—Service from the First Presbyterian Church.

6:30 p. m.—Orchestra.

9:30 p. m.—Columbia Chain program.

9:30 p. m.—Columbia Chain program.

10:00 p. m.—Columbia Chain program.

WFI-PHILADELPHIA-405.

WFI—PHILADELPHIA—405.

10:20 a. m.—Service from Arch Street Methodist Episcopal Church.

4:30 p. m.—Meeting from the Central Branch of the Y. M. C. A.

6:00 p. m.—Sonata, Hedi Korngold and Rebeca Davidson.

9:15 p. m.—Correct time.

9:15 p. m.—Atwater Kent hour, with Wilbur Evans, Mme. Louise Homer and her daughter. Louise Homer Stires.

WGBS-NEW YORK-319. 9.15 p. m.-French musical program. WGR-BUFFALO-303

n. m.—Service from Westminster Presbyterian Church. m.—Westher forecast. p. m:—Weymouth Post, No. 79, Amer-lean Legion, Band. p. m.—Service from Central Presby. 7:30 p. m.—Serv. terlan Church —"Our WIP-PHILADELPHIA-508 m.-Service from the Holy

9:00 p. m.—"Our Government," by David Lawrence. 9:15 p. m.—Atwater Kent hour. 10:15 p. m.—Weather forecast. 10:45 a. m.—Service from the fivi, fram., Church.
4:00 p. m.—"The Greatness of the Commonplace," by Carl O. benner.
10:15 p. m.—Symphony orchestry. WGY-SCHENECTADY-380. a. m .- Service from the First Re-formed Church.

formed Church.
p. m.—Symphony Orchestra.
p. m.—Men's Conference,
Branch, Y. M. C. A.
p. m.—Wusical program.
p. m.—Wusical program.
p. m.—Gapitol Theatre program.
p. m.—Capitol Theatre program.
p. m.—Our Government," by David
Lawrence.
p. m.—Correct time.
p. m.—Gorrect time.
p. m.—Biblical drama.

WHAM—ROCHESTER—278.

10:30 a. m.—Morning church service.

3:30 p. m.—Sympheny concert.

4:00 p. m.—Organ recital.

5:30 p. m.—Fireside forum.

7:00 p. m.—Theatre hour.

8:00 p. m.—School recital.

9:00 p. m.—Tommy Weir, tenor.

9:15 p. m.—Vibrant melodies.

9:30 p. m.—Paula Hemminghaus, contraito.

9:45 p. m.—Utica jubilee singers.

10:00 p. m.—Orect time.

10:00 p. m.—Outica jubilee singers.

10:15 p. m.—Utica jubilee singers. WHAM-ROCHESTER-278.

WHAP—NEW YORK—236
p. m.—Sacred choral music.
p. m.—Augusta E. Stetson, C. S. D.,
Carlstian Science reading from the
writings of Mary Baker Eddy and
remarks.

WICC-BRIDGEPORT-265
a. m.-Service from the Park Street
Congregational Church.
p. m.-Alcine Sullivan and Edward

2:00 p. m.—Alcino Malumpy. —Correct time 2:30 p. m.—Correct time. 2:30 p. m.—Mickey Carr and his radio en-

tertainers.
3:00 p. m.—String quartet.
3:30 p. m.—Feature.
4:00 p. m.—Dorothy "Whispering" O'Brien.
4:30 p. m.—Mme. Olga Hoberman and
Lilyan Hoberman.
7:00 p. m.—Bridgeport peoples forum.

WJZ-NEW YORK-151 w.J.—NEW 10RK—131

m.—Children's hour,
m.—Gold Strand group,
m.—Roxy and His Gang,
m.—Ensemble,
m.—Devora Nadworney, contraito,
ssisted by Arcadle Birkenholz, violist.

assisted by Arradic Birkenholz, violinist.

3:55 p. m.—St. George vesper services.

5:30 p. m.—National religious service.

6:30 p. m.—Cooks travelogue.

7:00 p. m.—Correct time.

7:00 p. m.—Summary of programs.

7:30 p. m.—Inforton and Hadley, duets with string trio.

7:45 p. m.—String quariet.

8:15 p. m.—Collier's radio hour.

9:15 p. m.—Paula Haemminghaus, contraito

9:30 p. m.—Vibrant melodies.

9:45 p. m.—Utica Jubilee Singers.

10:00 p. m.—Correct time.

10:00 p. m.—Utica Jubilee Singers.

10:15 p. m.—Don Amaizo, the wizard.

10:15 p. m.—Don Amaizo, (Fe wizard. WLWL—NEW YORK—370. 5:00 p. m.—Columbus Council, K. of 8:00 p. m.—Service from Paulist Churci WOO-PHILADELPHIA-508. 2:30 p. m.—Sunday school. 6:00 p. m.—Organ recital. 7:30 p. m.—Service from Bethany Presby-terian Church.

WOR-NEWARK-122. 3:00 p. m.—Symphony orchestra.
4:00 p. m.—The Cathedral hour.
7:45 p. m.—Sunday evening musical.
8:45 p. m.—Randall Hargreaves, song discourse.
9:00 p. m.—Emerson efferyescent hour.
9:30 p. m.—American singers.

WPG-ATLANTIC CITY-273,

WRNY-NEW YORK-326. p. m.—Boris Gregory, baritone. p. m.—All Souls Unitarian vesper

hour.

3:20 p. m.—Dr. Minot Simmons.

3:30 p. m.—Betty Gould Trio.

3:45 p. m.—Louise Voccol. Choral Society.

4:15 p. m.—Kempton Searles, baritone and assisting artist.

4:45 p. m.—Rutler Davenport players.

5:15 p. m.—American opera artists.

6:00 p. m.—J. I. Mange, President, Associated Gas and Electric Company.

WTAG-WORCESTER-517. 4:00 p. m.—Men's conference from Bed-ford branch.
6:30 p. m.—Weymouth Post, No. 79, Amer-ican Legion Band.
7:20 p. m.—Capitol Theatre program.
9:00 p. m.—"Our Government," by David Lawrence.
9:15 p. m.—Correct time and news 9:15 p. m.—Correct time and news.

WTIC-HARTFORD-535. 5:00 p. m.—Men's conference.
6:30 p. m.—Weymouth Post, No. 79, American Legion Band.
7:20 p. m.—Capitol Theatre program.

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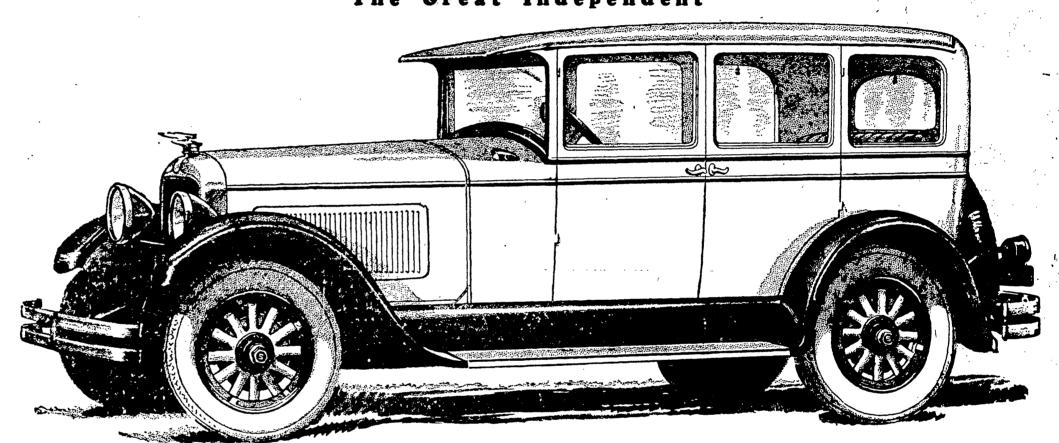
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