# RADIO LORE FOR NOVICE AND EXPERIENCED FAN

### RADIO PROGRAMS

WJAR starts broadcasting at 2 p. m. with the Summer Radio Church, sponsored by the Federal Council of Churches, presenting Rhoda Arnold, soprano; Hazel Tuthill, contralto; Grant Kimbell, tenor, and Ernest Naftzger, baritone. Sixty Musical Minutes will be sponsored by the Federal Council of Churches at 3 p m. The baccalaureate croises of Brown University, direct from the First Baptist Meeting House, Providence, will be heard at 4:30 p m. W. H. P. Faunce, president of Brown University, will give the address. The Weymouth No. 79 American Legion Band will be on the air at 6 p. m. and the Capitol Theatre program at 7:30 p. m.—Correct time.

10:30 p. m.—Weather report.

10:35 p. m.—Braseball scores.

20:50 p. m.—Braseball scores.

20:50 p. m.—Goodrich Silvertown quartet and orchestra.

20:30 p. m.—Correct time.

20:30 p. m.—Correct time.

20:30 p. m.—Correct time.

20:30 p. m.—Housewives Radio Exchange, a department conducted by Mrs. Wood on matters of household interest.

20:20 p. m.—Housewives Radio Exchange, a department conducted by Mrs. Wood on matters of household interest.

20:21 program.

21:10 a. m.—Radio household institute.

21:10 p. m.—Suddle program.

21:10 p. m.—Radio household institute.

21:10 p. m.—Weather report.

22:25 p. m.—Providence Journal and Evening Builetin news flashes.

23:26 p. m.—Weather report.

24:26 p. m.—Providence Journal and Evening Builetin news flashes.

25:27 p. m.—Weather report.

26:28 p. m.—Broball scores.

26:29 p. m.—Broball scores.

27:20 p. m.—Weather report.

28:20 p. m.—Broball scores.

29:30 p. m.—Broball scores.

29:30 p. m.—Broball scores.

29:30 p. m.—Weather report.

29:30 p. m.—Broball scores.

29:30 p. m.—Broball scores. tone. Sixty Musical Minutes will be spousored by the Federal Council of Churches at 3 p m. The baccalaurente ercises of Brown University, direct from the First Baptist Meeting House, Providence, will be heard at 4:30 p m. W. H. P. Faunce, president of Brown the Capitol Theatre program at 7:30 p. m. Tomorrow at 10 p. m. will be broadcast the Pinafore chorus under the direction of Prof. John Mullen. The Paul Whiteman and his band at 10 p. m. on Tuesday. Wednesday at 8:10 p m., William Martens, baritone, and Leonard Langlois, violinist, will be on the air. Thursday at 9.55 p. m., Col. P. H. Quinn of the Democratic State central committee will talk on "Registration." The Rhode Islanders dance band will be on the air at 7:35 p. m and 8:05 p. m. on Friday. The boys' and girls' H-4 program, sponsored by the United States Department of Agriculture, will be broadcast from the sta-tion Saturday at 9 p. m. WEAN commences its week of pro-

grams at 11 a. m. with the service from the Mathewson Street Methodist Episcopal Church. The Columbia Chain programs will be heard at 3:00, 4:00, 9:00, 9:45 and 10:15 p. m. At 6:30 p. m. will be broadcast an organ recital and at 7 p. m. the Asia Serenaders. Tomorrow at 3:15 p. m. will be broadcast the baseball game from Kinsley Park— Providence Grays vs. Springfield. At 6.15 p. m. on Tuesday the American broadcasting period will present "America for Americans?" Wednesday the usual program will be broadcast. Thursday at 8:01 p m, the Two Hundred and be on the air. Uncle Red will be broadcast under the auspices of the Providence Safety Council at 6:05 p. m. on Friday. Jimmy Walsh and his or-chestra will be broadcast from the station at 11:05 p. m. on Saturday.
WLSI begins its broadcasting at 10:30
a. m. with the service from the First

church of Christ, Scientist, The In-ternational Bible Students' program will be heard at 5 30 p m. At 8 p. m. will be heard the service from the Church of the Seventh Day Adventist. Tomorrow at 8 p. m. Harold Eddy and his orchestra will be broadcast. Charles Miller and his orchestra will be on the air at 7 p. m. on Tuesday. An organ recital will be broadcast from the station at 7:15 p. m. on Wednesday. The Movie Club with the Twilight Hawaiian quintet will be heard at 8:15 p. m. on Thursday. Friday the usual program will be observed.

WFCI starts broadcasting at 10:45 a. m. with the service from the Central Falls Congregational Church. Family hour will be broadcast tomorrow at 6 p. m. Tuesday the usual program will be heard. Harold Briggs and his entertainers will feature "The Harmony Twins" at 7:05 p. m. on Wednesday. The Exide Battery boys will be on the air Thursday at 7:05 p. m. The customary program will be broadcast the

remaining days of the week.
WCOT commences its week of programs at 1.30 p. m. with the Wailana Hawaiian ensemble. Jacob Conn will be on the air at 2 p. m. on current events. Tomorrow at 2.30 p. m. a studlo program will be heard. At 7:30 p. m. on Tuesday, Anna Bart, soprano, and Felix Testa, pianlst, will be broad-cast. Wednesday at 7:30 p. m. the Alosha quintet will be on the air. Thurs day and Friday the usual programs will be heard. Francis Connell, harmonica specialist, will give a program at 2:45 p. m. on Saturday.

#### WJAR-THE OUTLET COMPANY-484

\$:00 p. m.—Summer radio church spon-sored by the Federal Council of Churches presenting Rhoda Arnold, sopranto: Hazel Tutnili, contraito. Grant Kimbell, tenor, and Ernest Nattzger, baritone. George Vause, di-

v Nattzger, baritone. George vause, urector.

8:00 p. m.—"Sixty Musical Minutes," sponsored by the Pederal Council of Churches under the direction of George Shackley. Presenting a group of musicians from the New York Symphony and New York Philharmonic orchestras, and a male quartet consisting of Fred Vetlel, first tenor. William Cruger, second tenor; Johr Quine, baritone; and Emerson Williams, bass.

liams, bass.

9. m.—Baccalaureate exercises of Brown University, direct from the Pirst Baptist Meeting House, Providence, R. I. Address by W. H. P. Faunce, President of Brown University. 6.00 p. m. Weymouth Post No. 79, Ameri-

6.00 p.m.—Weymouth Post No. 79, American Legion band.
7.25 p. m.—Weather report.
7:30 p. m.—Capitol Theatre program.
9:00 p. m.—Crovidence Journal and Evening Bulletin news flashes.
Monday
10.45 a. m.—Musical program.
11:15 a. m.—Radio household institute.
1:05 p. m.—Providence Journal and Evening Bulletin news flashes.
1:10 p. m.—Studio program.
1:30 p. m.—Sweather report.
1:32 p. m.—Continuation of studio program.
1:33 p. m.—Continuation of studio program.

1.35 p. m — Continuation of studio program

6:55 p. m — Providence Journal and Evening Builetin news flashes.

7.00 p m — James G. McDonald. Topic: "One of the Outstanding Personalities in the Modern Czechoslovakian States."

7:15 p. m.— Musical program under the direction of Harold Strong, tenor, accompanied by Violette Marks.

7:50 p. m.— Weather report.

7:55 p. m.—Buseball scores.

8:00 p. m.—Ocedar shining hour.

8:00 p. m.—Ocedar shining hour.

8:00 p. m.—General Motors family party.

10:00 p. m.—General Motors family party.

10:00 p. m.—General Motors family party.

John Mullen

10:30 p. m.—Fisk Time to Retire Boys.

11:00 p. m.—Fisk Time to Retire Boys.

11:00 p. m.—Forcidence Journal and Evening Builetin news flashes

11:05 p. m.—Baseball scores.

Tuesday Tuesday

10:45 a. m.—Musical program.

11:15 a. m.—Radio household institute. 103 p m—Providence Journal and Evening Euletin news flashes.
1:10 p m.—Studio program.
1:30 p m.—Weather report.
1:35 p m.—Continuation of studio pro-

6 45 p.m. Providence Journal and Evening Bulletin news flashes.

punits\*

p. m - Seiberling singers,
p. m -- Severady hour,
p. m -- Columbia Phonograph hour
feeturing Paul Whiteman and his
band

feeturing Paul Whiteman and his band
11 00 p. m - Clicquot Club Eskimos
11 00 p. m Correct time
11 30 p. m Providence Journal and Evening Bulletin news flashes.
12:35 p. m.—Baseball scores.

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 2 m.—'Beauty Talk." 8 30 p. m.—Camp Fire Girls' program.
9 00 p m.—Columbia broadcasting system program.

y radio.
. m.—Rhode Island Tuberculosis As

11:00 a. m.—Rhode Island Tuberculosis Association talk.

11:05 a. m.—Musical program.

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

1:05 p. m.—Providence Journal and Evening Builetin news flashes.

1:00 p. m.—Studio program.

1:30 p. m.—Weather report.

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

1.30 p. m—weather report.

1.35 p. m.—Continuation of studio program

7.25 p. m.—Providence Journal and Evening Builetin news, flashes.

7.30 p. m.—Coward comfort hour.

8.00 p. m.—Susseball scores

8.05 p. m.—Musical program under the discretion of Helen C. Place.

8.30 p. m.—Weather report.

8.35 p. m.—James F. McKenney, tenor, accompanied by Violette Marks.

9:00 p. m.—Rhode Island State Board of Public Roads talk.

9:05 p. m.—Musical program under the direction of Christian Charles Clark, baritone. assisted by Duarte-Mullancy-Cuilen trio. Rose Millman, accompanist.

laney-Cullen trio. Rose Millman, accompanist.

9:55 p. m —Col. P. H. Quinn, of the Democratic State central committee will talk on "Registration."

10.00 p. m —Holsey-Stuart hour.

10:30 p m —Correct time.

10:30 p m —Providence Journal and Evening Bulletin news flashes.

10:35 p. m.—Buschall scores.

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

hy radio
10.30 a. m.—"Beauty Talk"
10.45 a. m.—A, and P. Bureau of Home Economics.
11.00 a. m.—Musical program.
11:15 a. m.—Radio household institute.
1.05 p. m.—Providence Journal and Evening Bulletin news flashes.
1 10 p. m.—Studio program.
1.30 p. m.—Weather report.
1.35 p. m.—Continuation of studio program.
7.30 p. m.—Providence Journal and Evening Program.

7.30 p m —Providence Journal and Evening Bulletin news flashes
7.35 p. m.—Rhode Islanders dance band
8 00 p. m.—Baseball scores
8 05 p. m.—Rode Islanders dance band.
8 35 p m.—Roy Partington, tenor, accompanied by Violette Marks.
9 00 p. m.—'An Evening in Paris'
9 30 p. m.—Automobile Club of Rhode Island.

9 00 p. m—'An Evening in Paris'

9 30 p. m.—Automobile Club of Rhode Island.

9 35 p. m.—Hewsitan Irland quintet.

10 00 p. m.—Pamolive hour.

11 00 p. m.—Providence Journal and Evening Bulletin news flashes.

11 05 p. m.—Baseball scores.

Saturday.

10 45 a. m.—Musical program

11:15 a. m.—Providence Journal and Evening Bulletin news flashes.

1 10 p. m.—Providence Journal and Evening Bulletin news flashes.

1 10 p. m.—Al Williams and his orchestra.

1 30 p. m.—Weather report.

1 35 p. m.—Al Williams and his orchestra.

8 20 p. m.—Providence Journal and Evening Bulletin news flashes.

8 25 p. m.—Brovidence Journal and Evening Bulletin news flashes.

8 25 p. m.—Goldman band concert under the direction of Edwin Franko Goldman direct from the campus of New York University.

9:00 p. m.—Boys and Girls 4-H program sponsored by the United States Department of Agriculture direct from the National Press Club Auditorium, Washington, D. C.

10:00 p. m.—Providence Journal and Evening Bulletin news flashes.

10:05 p. m.—Baseball scores.

WEAN-THE SHEPARD STORES-275 Today

11:00 a m—Service from Mathewson Street
Methodist Episcopal Church
3.00 p m—Symphonic hour, Columbia
Ohain program: Overture to "A Midsummer Night's Dream," Mendelssohn;
"Symphony in G Minor," Mozart, "Un
Poco Triste," Josef Suk: "Valse from
Berenade," Tschaikovsky, suite (transscribed for strings by Albert Coates,
Furcell, United Symphony orchestra.
400 p. m—Cathedral hour, Columbia Chain Today

Purcell, United Symphony orchestra.
p. m —Cathedral hour, Columbia Chain
program: Credo from "Messe Solevvelle," Gounod, solo volces, chorus
and orchestra; "O Bone Jesu," Palestrina-Taylor, women's volces; Banctus
from "Messe Sollenelle," Gounod, tenor
'solo, quartet, chorus and orchestra.
Benedictus from "Messe Solennelle,"
Gounod, soprano solo, sextet, chorus
and orchestra; "Slumber Bong." Ries,
orchestra; Agnus Dei from "Messes
Solennellie," Gounod, solo voices,
chorus and orchestra. "Ave Maria,"
Nessler, male quartet: Postlude: March
from "Tannhaeuser," Wagner, orches-Nessler, male quartet: Postlude: Marc from "Tannhaeuser," Wagner, orches p. m.-Organ recital

17a.

rs. - -United Military band, Columbia p m - Onted aintary band, common Chain program: Overture "Il Guar-any," Gomez; "Turque," Eilenberg; "Canzensite," Herbert; "In Lover s Cancellste. Include Staters, Wald-tenfel: "On Jersey Shore," Pryor; "Wedding of the Rose," Jessel: quar-tet from "Rigeletto," Verdi, "Pride of America," Goldman: "Simolo Confes-sion," Theme; "Star and Stripes," Fion,"
Sousa.

Sousa.

Monday.

9 45 a. m — Women's Institute program, conducted by June Abbott
10 00 a. m — Women's Institute orchestra.
10 30 a. m — Good Grocerics," by Sally Sawyer, 11 00 a m.- Shepard Stores concert ensem-

ble.

11 30 p. m -- Musical program.

11 55 a. m -- Time signals.

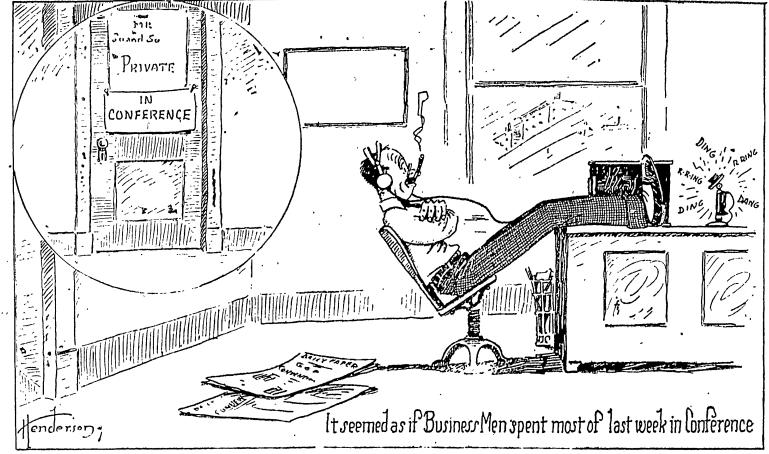
12 00 m. Asia Serenaders

12 30 p. m. Weather report.

100 p. m. Providence Journal and Evening Bulletin news flashes.

100 p. m. Providence Journal and Evenning Bulletin news flashes
1.05 p.m. Official market report of Providence Bureau of Markets, Rhode Island State Department of Agriculture.
1 10 p.m. Good gardening
3.15 p.m. Baseball game, broadcast from Kinsley Park—Providence Grays vs.
Springfield
6 00 p.m. Providence Journal and Evening Bulletin news flashes.
6 00 p.m. Port Arthur orchestra.
7 00 p.m. Port Arthur orchestra.
7 00 p.m. Gode instructions by radio through the courtery of the American Radio Relaw League, Inc.
7 30 p.m. Gorrect time
8 00 p.m. Gerrect time
8 00 p.m. —Honolulin quintet.

SHORT CIRCUITS



9:30 p. m.- Columbia broadcasting system program.

10:30 p m -- Columbia broadcasting system program.

11:00 p m -- Providence Journal and Evening Bulletin news flashes.

Tuesday.

9:45 a. m. - Women's Institute program, conducted by June Abbott

10:00 a. m. -- Home service radio chat. 6 00 p. m. - Proyidence Journal and Evening Bulletin news flashes.
6 05 p m. - Code instructions by radio through the courtesy of the American Radio Relay League, Inc.
6:30 p m. - Biltmore Hotel concert orchestra.

7 30 p m.- Information service, 8 00 p. m. - Correct time,

7 30 p m... Correct time.
8 00 p. m. Correct time.
8 01 p m. Shepard radio minatrels.
9 00 p. m. Rhodes orchestra.
10 00 p m. Biltmore Hotel orchestra.
11 00 p m. Providence Journal and Evening Builetin news flashes
11.05 p m. Jimmy Walsh and his orchestra.

WLSI-LINCOLN STUDIOS, INC.-248.

Christ, Scientist, 5 30 p m —International Bible Students'

8 00 p m.—Harold Eddy and his orchestra Tuesday.

7.00 p m -Charles Miller and his orches

7:15 p. m — Organ recital. 8:00 p. m.—R. I. Welder's program. 9:00 p. m.— Prof. Franklin N. Strickland, talk.

Thursday.

WFCI-FRANK CROOK, INC .- 212.

10.45 a. m.—Service from Central Falls Con-gregational Church. Monday.

Monday.

2 00 p. m — Studio program.
6 00 p. m.— Pamily hour.
6.45 p m — Talk by Mrs Robert Johnston chairman motion picture committee Pawtucket Woman's Club.
7 00 p m — Baseball scores.
7.05 p. m.— To be a ynounced.
Tuesday.

Wednesday.

Thursday.

2 00 p. m — Musical program. 6 00 p. m.-- Pamily hour. 7:00 p. m.-- Basebil scores,

fainers, featuring Twins,"

2.00 p. m.—Musical program.
6 00 p. m.—Family hour.
7 00 p m — Baseball scores.
7.05 p. m.—Exide Battery boys.

2 00 p. m --Studio program. 6.00 p. m --Faintly hour.

7 00 p. m.—Baseball scores.
7 05 p. m.—To be announced Saturday.

8 00 p. m. Pamily hour. 7.00 p. m.—Baseball scores.

2 00 p. m .-- Virginian Troubadours.

WCOT-CONN'S OLYMPIA-225.

Today. 1 30 p. m.--Wailana Hawailan ensemble. 2 00 p. m.--Jacob Conn on current event: Monday.

2:30 p. m.—Studio program.
7.30 p. m.—Blanchard's better be protected hour.

Tuesday.

Wednesday.

2:30 p. m. Studio program.
7:30 p. m. Organ revital.
8:00 p. m. Mustan program of the Wesleyan Church of the Nazarene.

Saturday.

2 30 p m -- Studio program. 2 45 p m -- Francis Connell, harmonica

7:30 p. m .- Rooney's pioneer entertainers

OUT OF TOWN STATIONS

To-Day

EASTERN STATIONS

KDKA-PITTSBURGH-316.

8 00 p. m -New Victor releases. Wednesday.

Today. m ---Service from Pirst Church of

9.45 a. m. Women's Institute program, conducted by June Abbott
10.00 a m.—Home service radio chat.
10.30 a. m.—Musical program
11.00 p. m.—Shepard Stores concert ensemble.
11.30 a. m.—Musical program.
12.30 p. m.—Musical program.
12.30 p. m.—Weather report
10.00 p. m.—Weather report
10.00 p. m.—Providence Journal and Evening Bulletin news flashes.
10.00 p. m.—Official market report of Providence Bureau of Markets, Rhode IsJand State Department of Agriculture
11.10 p. m.—Good gardening talk.
4.00 p. m.—Weather report
6.00 p. m.—Weather report
6.00 p. m.—Providence Journal and Evening Bulletin news flashes.
6.05 p. m.—Army recruiting realities revealed.

ning Bulletin news flashes.

6 05 p m.—Army recruiting realities revealed.

8 15 p m—American broadcasting period, "America for Americans."

6 30 p m.— Dinner dance
7 30 p m.—Information service.
7.59 p m.—Correct time.

8.00 p m.—Op'ry House Tonight—present
"The American Flag"

9 00 p. m.—Columbia broadcasting system program

10.00 p m.—Columbia broadcasting system program

10.00 p m—Columbia broadcasting system program
11.00 p. n.—Providence Journal and Evening Bulletin news flashes.
Wednesday.
9 45 a m—Women's Institute program, conducted by June Abbott
10.30 a. m,—Women's Institute orchestra.
11.00 a. m.—Shepard Stores concert ensemble.
11.30 a. m—Musical program.

11.00 a. m.—Shepard Stores concert ensemble.

11.30 a. m.—Musical program.

11:55 a. m.—Time signals

12.00 m.—Musical program

12.00 p. m.—Weather report.

100 p. m.—Providence Journal and Evening Bulletin news flashes.

1.05 p m.—Official market report of Providence Bureau of Markets, Rhode Island State Department of Agriculture.

1.10 p. m.—Good gardening.

4.00 p. m.—Musical program.

6.00 p. m.—Musical program.

6.00 p. m.—Asia Serenaders

7.05 p m.—Asia Serenaders

7.05 p m.—Narragansett Hotel concert ensemble.

8.00 p. m.—Correct time.

8.01 p. m.—Correct time.

8.02 p. m.—Correct time.

9.02 p. m.—Columbia broadcasting system program

10.00 p. m.—Columbia broadcasting system

program 10 00 p. m.—Columbia broadcasting system

10:00 p. m.—Providence Journal and Evening Bulletin news flashes.

Thursday.
9 45 a. m.—Women's Institute program, conducted by June Abbott
10:00 a. m.—Home service radio chat.
10:00 p. m.—Household hinters.
11:00 p. m.—Shepard Stores concert ensemble. Wednesday,

2 00 p. m —Studio program,

6 00 p. m - Ernic and his Danceland orchestra

7 00 p. m.-Baseball scores,

7,05 p. m.-Harold Briggs and his entertainers, featuring "The Harmony

ble.

11:30 a. m.—Musical program.

11:55 a m — Time signals.

12:00 m.—Musical program.

12:30 p. m — Weather report.

12:35 p. m — Organ recital.

10:0 p. m — Providence Journal and Eve-

12 30 p. m.—Weather report.

12 35 p. m.—Organ recital

1 00 p. m.—Providence Journal and Evening Bulletin news flashes.

105 p. m.—Official market report of Providence Bureau of Markets, Rhode Islund Department of Agriculture.

1:10 p. m.—Good kardening talk.

3:15 p. m.—Eastern League baseball game, broadcast from Kinsley Park, Providence Grays vs. Hartford.

6:00 p. m.—Providence Journal and Evening Bulletin news flashes.

6:05 p. m.—Code Instructions by radio through the courtesy of the American Radio Relay League, Inc.

6:30 p. m.—Port Arthur orchestra.

7:30 p. m.—Information service.

8:00 p. m.—Port Arthur orchestra.

7:30 p. m.—Sing by Shepard Store chorus, by Sally Bulletin news flashes.

Friday

8:30 a. m.—Sing by Shepard Store chorus, by Sally Sawyer.

11:00 k. m.—"American Homemakers" by Miss Ida S Hartington.

10:30 a. m.—"Good Groceries" by Sally Sawyer.

11:00 a. m.—"Microphone gets suggestions from Dorotty Llow"

11:55 a. m.—Time alghals

12:00 m.—Mussical program.

12:00 p. m.—Weather report

1:00 p. m.—Providence Journal and Evening Bulletin news flashes.

1:00 p. m.—Weather report

1:00 p. m.—Weather report of Providence Bureau of Markets, Rhode Island State Department of Agriculture. 2:30 p. m - Studio program.
2:45 p. m
7:30 p. m -- Anna Bart, soprano soloist,
and Felix Testa, planist
8:00 p. m. Romeo Colando, tenor soloist, 2 30 p m. Studio program. 7:30 p. m.-- Alonha quintet. Thursday. Thursday.

2.30 p. m — Studio program.

7:30 p. m Olympia radio service hour, featuring Prof. Zangar, the noted Hindu mentalist.

Friday.

1·10 p. m. Good gardening talk.
4.00 p. m. - Musical program.
4.30 p. m.-- Weather report.
6.00 p m.-- Providence Journal and Evening Bulletin news flashes. ning Builetin news flashes.

6.05 p. m.—"Uncle Red." auspices Providence Safety Council.

6.26 p. m.—Radio talk by couriesy of Rhode Island Society of Optometry.

6:30 p. m.—Jimmy Walsh and his orches-6:30 p. m.—Information service. 7:30 p. m.—Information service. 8:00 p. m.— Correct time.

m.- Correct time,
m.- Musical program,
m. Columbia broadcasting system program. 10:00 p. m.--Columbia Broadcasting System program.

n m -- Providence Journal and Eve-11;00 p m -

ning Bulletin news flashes.

Saturday

9:45 a m.—Women's Institute program conducted by June Abbott.

10:00 a m Children's session

10:45 a m.—Shepard Stores concert ensemble. 11:00 a m.—Shepard Stores concert ensemble.

11:30 a. m.—Musical program.

11:55 a. m. Time signals.

12:00 m.—Port Arthur Orchestra.

12:30 p. m.—Weather report.

1:00 p. m.—Providence Journal and Evening Bulletin news flashes.

1:05 p. m.—Good gardening.

4:00 p. m.—Musical program.

4:30 p. m.—Weather report.

WAAM—NEWARK—349.

11 00 a m.—Service from Second Presby terian Church
3 30 p. m.—Studio ensemble.
4 10 p. m.—Joseph S. Loughran, tenor. Continued on Page Nine.

Weekly Radio Test

1. Why is it that two owners of the same make and model of set frequently find tuning to vary?

2 Is it permissible to use a lightning arrestor indoors? 3. What year is regarded as the commencement of the "gold rush" period in radio? 4. Why do changes in the lead-

In often seem to make recep-tion poorer? 5. Does it makes any difference restor is used for the aerial and lead-in?

(Answers to these questions will be found elsewhere in the Radio Section.)

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BITTER FIGHT SEEN

Many Stations Take Exception to Proposed Elimination.

Thursday.

8 00 p. m—Mrs. Marian Tetreau, astrologist.

8.15 p. m.—Movie Club with the Twilight Hawaiian quintet.

9.00 p. m—Al Biakely, the novelty man.

Friday.

7.00 p. m—International Bible students' program.

8 00 p. m.—Steinert Duo-Art program.

8.30 p. m.—Home hour with the WLSI homemakers

Saturday.

Silent. While Judge Robinson and Mr. Caldell, members of the Federal Commission, were in New York investigating the situation in the area said to stand most in need of a general clean-up, increasing evidence indicated that broadcasters were prepared to make a bitter fight against license revocation, according to the Washington

One station after another has announced that it will be represented in Washington when hearings on revocation are inaugurated, prepared to de-fend its assertion that it serves the public interest, convenience and necessity. Not only individually is the fight to be waged. In certain areas -- Brooklyn, for example-stations are combin-ing forces so that the representative

through revocation is sustained, the the smaller antenna. problem of providing good broadcasting If the courts rule otherwise, further attempts to clean up radio under the present law will be futile.

RADIO FOR THE DEAF

Headphones Can Be Used Along With

are hampered by poor hearing and who numbers of fine wires connected to-cannot secure the enjoyment from the gether. This can be hung up or laid on radio set that others take as a matter the floor under the carpet, of course. Although the information Using the electric light has often been given, the question has circuits through devices sold for the been asked repeatedly, as listeners who purpose is likely to result in a fairly give a thought to the old folks or those good proportion of static so that these with poor hearing want to know how to methods are not highly recommended provide them with headphones, without for special use in avoiding static, making it necessary to shut off the In some locations, it is found feasi-

ble resister. This is inexpensive and so is," while the antenna post is are the phones, Connect one terminal nected through a .001 fixed condenser of the headphones to one terminal of to the ground at another point, say the resister. Next, without disconnect- a radiator or water pipe. ing the regular connections of the loud good results can be secured by disconpeaker, attach the remaining head-phone cord to one terminal of the ing it to the aerial post, leaving the speaker, attach the remaining headspeaker, Attach the remaining terminal regular ground binding post unused, of the speaker to the other post on the The underground aerial is advocated With this simple equipment, the lis-

from the loud speaker will be practically "nil" as far as anyone can notice

The Value of a Filter

In order to choke out the interference KPKA—PITTSBURGH—316.

11:00 a. m. Church service.

2:00 p. m.—Roxy end his gang.

4:00 p. m.—Corgan recital.

4:05 p. m.—Organ recital.

4:05 p. m.—Service from Shadyside Preshylerian Church.

6:00 p. m. Bserball scores.

6:30 p. m. Same as wiz.

7:00 p. m. Corect time

8:45 p. m.—Same as wiz.

9:15 p. m.—Same as wiz.

10:15 p. m.—Baseball scores. together and place them across the terconnection between the condensers.

Plano Alds Speaker

By placing the loud speaker near or on top of a plano better results are sometimes obtained. The instrument acte as a giant sounding board, and the various strings of the piano vibrate with their respective frequencies.

## HOW TO DIMINISH SUMMER STATIC

Special Aerials Best Weapons in Warm Weather Skirmish

Wire Strang Up Indoors One Way pherics. - Underground and "Capacity" Antennas Worth Trying, if Possible

During the warmer months of the year, our radio reception is disturbed somewhat by interference caused by stations near by, which are depended upon for the best entertainment, are or o one using much greater power than Ed.) in the past, the static-which hasn't had any such increase in strength-is more in the background than ever, So nowadays it is principally we attempt to listen to the w local stations or tune in on "DX" that we are bothered by this bugaboo. Of

course, when there is a thunderstorm going on near our aerials we are likely to be unable to receive very much. A small-sized nerial is best for summer use when it comes to entertain-ment from the local stations. With the nower now used at radio broadcasting stations and with the sensitive receiv ing sets now in vogue, everywhere it is commonly true that the aerial is much larger than necessary to receive our

local stations enjoyably. This being the case, we are accustomed at times to "tune off" the exact

the purpose. This can be a length of 25 is also desirable, although there is to 50 feet of bell wire strung neatly out nothing gained in going beyond 100 ized the radio for the tracking of criminals, a description of sight along the picture molding, but feet in broadcast reception.—Ed.) there are innumerable other forms of indoor aerials worth using or trying. An aerial of the "capacity" type is Loud-Speaker.

There are a great many would-be window shade unrolled. It consists of adio fans in our American homes who two sheets of paper between which ar

Using the electric light or telephone All you need in addition to a pair of headphonies is a 200,000-ohm, varia-

here and there, and is sometimes quite helpful in reducing static and electri tener who requires phones can regulate at the volume to a nicety, to suit himself length of 50 to 100 feet of well-insu-

deep or so and covered over,

plan is particularly good on a hillside.

A loop aerial is especially serviceable coming in over the antenna, a filter in the power leads to the set will often pointed. A loop placed north and correct the trouble. The filter is constructed as follows: Make two wooden and west successfully. Accordingly, the about 100 feet of insulated wire on a spools with a wire space large enough loop will not receive static from all different about 100 feet of insulated wire on a form about four feet square. The rections. Hence, since the broadcasting station is in a definite direction, apart. The side of a door capable of swinging through 180 degrees makes a coming in over the antenna, a filter in the power leads to the set will often pointed. A loop placed north and correct the trouble. The filter is consolid will not receive stations to east. from the light socket to the set. Then portion of signal volume as compared good place to fasten the loop conect two 1 microfatad condensers to static. Of course, the loop is less. Such a loop is connected in circuit to static. Of course, the loop is less sensitive all around than the outdoor minals of the spools on the opposite aerial, so for equal sensitivity it needs first R. F. transformer, and any man commission because of the establishment of the set. Ground the centre a set with a good deal of radio fre-who knows a bit about radio can show ment of the summer White House at However, we do not need maximum sensitivity for summertime entertainment from near-by stations, so that a ing stations near by makes it possible grams that are broadcast. In the proposition of the station of t

out the broadcasting tangle in both long and short waves, Uncle Sam is constantly increasing the use of this method of communication in practical-

Volume of Business by Radio

Army and Navy Network Numbers 87 Stations Which Link U. S. With Far-Flung Fighting Forces. Wireless Invaluable Aid to Coast Guard

Uncle Sam Transacts Great

navy and the Signal Corps of the army, as well as to build up a chain of stations for the purpose of national defence, the army and navy radio net of the listening public.

The Naval Research Laboratory tests all navy radio equipment and manu-

ions in this hook-up. The network transmits orders and messages between the different army and marine posts, the naval bases, the fleet and headquarters. Station NAA at Arlington is the key station and prob-ably transmits the largest volume of traffic. In addition, messages are accepted at the lowest possible rate for he regular business of the other Government departments and the entire ystem is maintained at a great saving

was organized. There are now 87 sta-

The Navy Department has done commendable work with short waves, hav-ing been in daylight communication with the Pacific fleet at distances up to between 3000 and 4000 miles.

A service to army and navy and ma tant feature, flying conditions being radiated from the local stations on hourly schedules in many parts of the

#### Radio Questions and Answers

Radio Editor, Sunday Journal: I built a set which works fine side the cabinet. But when I put it in the box and connect it up, it operates poorly. On removing it, the set comes to full life again. What do you imagine can be the matter?
Providence.

(It is possible the cabinet is damp and that the contained moisture and the contained dust, etc., act as partial conductors of electricity. Try drying the cabinet slowly in a warm place and wiping it very clean and dry. It is also possible that some unusual strain is in the cabinet and that this moves some of the coils slightly out of place or opens up some of the connections.—

Radio Editor, Sunday Journal:

How long should B batteries last? Edgewood. (How long B batteries should last depends upon many factors. Hours of use, number of tubes, size of power tube, amount of C bias, whether bat-teries are kept cool and dry are some of the factors upon which the life of a B battery depends. However, properly employed, the large, heavy-duty batteres should last from six to nine months of typical radio use.—Ed.)

Radio Editor, Sunday Journals

Is length or height most important n an antenna?

height, rather than length, usually propoints for the station so that the volutes the best choice, although both sorts of radio apparatus and equipment time is not too strong or to change factors are desirable. In speaking of is tested. A service for the calibration ommittees may be dispatched to Washington in July to show cause why licenses should be renewed.

The representative points for the sation so that the volington in July to show cause why liittle smaller aerial in use, the same

| Vides the pleat clinice, attribugan both
| factors are desirable. In speaking of is tested. A service for the calibration
| the setting of the volume dial. With a height, it is well to note that we mean of plezo-crystals used by stations to
| the effective height above the "ground" | control their frequency is maintained,
| the same of the calibration of the cali It will be a bitter fight, the Washington Port says, ending finally in the
courts. If the commission's opinion
that it has the right to clean up radio
Mr. Static is a lot fainter because of
through revocation to evitation to the more accurately. The signals from
the effective height above the "ground"
and not just plain ground. Thus we
and a regular schedule of transmission
might have an antenna atop a 50-story
our broadcasters are just as strong, but
through revocation to evitation to the smaller antenna.

It is not very convenient for most of usually grounded, our "ground" would It is not very convenient for most of usually grounded, our "ground" would waterways of the United States adeus to have a small aerial outside just be 50 stories high, and the antenna quately protected during heavy fogs by for summer work. Accordingly, we find would be just the height above the a system that the indoor type of aerial serves roof, or comparatively few feet. Length signals.

NEW RADIO TERMS

"Optimun Efficiency" Just One for

Fans to Digest. Here are, a few new terms for radio enthusiasts to master. They come at a time when it has seemed as though most of the perplexing features of ra-dio technology had been digested and spread the knowledge necessary to commade plain.

What, for instance, is an inductively tuned antenna circuit? Among other things, what is a minimum adjusting by the President of the United States. condenser, and why is it used at the lew wave length end of the scale? Builders of some of the latest sets are speaking about "optimum officiency."
What is this and what does it do? Ancitier one of the new sticklers is the every secretary in the Cabinet has apterm, "reflected loading effect."

Incidentally, the terms mentioned in one time or another, Secretary of Labor the paragraph above are simply some of the new features incorporated in heard. And so, the radio is the all-Incidentally, the terms mentioned in one—just one—of the new electric sets. important medium in solving Uncle

Know Your Radio

It is necessary first to learn the various cir. aits to be successful in repairlated wire, with the farther end well ing receiving sets. There are upwards of 1000 possible errors an amateur can This make when locating trouble. Learn the uses of the various tubes, about storage batteries and the correct A. B and

instead of the secondary coil of the quency amplication—either a four stage you how to do this.

R. F. circuit or a super-heterodyne. There is no hard and fast rule for

BY HOBERT D. HEINL
While the Federal Radio Commission goes about its task of straightening out the broadcasting tangle in both

United States. The Post Office Department uses the radio to furnish night flying information over its air routes.

All signals, whether from private or Government-owned vessels, along the Department Central in Washington.

method of communication in practical behavior of the probably find the greatest use for the science.

Department Central in Washington.

When an S. O. S. is picked up, the navy silences all broadcasting stations.

A similar type of service is rendered on the Pacific coast. Storm warnings To meet the growing demand of the lifferent internal divisions, such as the Navy Department supplies weather incommunications department of the navy and the Signal Corps of the army, and the Signal Corps of the army, metres (690 kilocycles) for the benefit

factures much of it.

Each year when the ice breaks up in

the far north and the bergs become a menace along the shipping lanes, the United States cutters, supplied by the Coast Guard, are on hand for patrol during the time of danger. Here radio is the means of communication between the cutters and the endangered vessels. This service was established by international agreement shortly after the sinking of the Titanic, following collision with an iceberg, and while the United States actually does the work Governments whose shipping is equally

protected.

Radio is also helpful in the regular duties of the Coast Guard, which answers all S. O. S. calls in the waters it patrols, saving many lives at sea, and in its endeavor to help enforce the 18th Amendment by preventing the landing of cargoes from rumboats.

The Department of Agriculture through its radio division is doing an

inestimable service for the farmers of the country. Through commercial radio stations nearly all of the important research results are placed directly in the hands of the farmer. About 100 stations in the United States dissem-inate this information gratis, the talks and lectures being prepared by a staff of experts in the department. Housewives in the city as well as the-

country also profit by this service-recipes, dressmaking, home making suggestions—an almost complete course in home economics being broadcast Crop and market reports are read over the air daily in many sections of the United States, many times at a great saving to the farmers who real-ize the value of this service and listen

in regularly. Forest fire warnings are also given during the dry summer season.

To the Department of Commerce the inally through the Bureau of Navigation having control of wireless on ships, and it will revert to the Secretary of commerce with the close of the tenure of the present commission. The Radio Division, however, still has a finger in the ple with the commission on hand. having control of the inspection of radio apparatus in commercial stations. examination of radio apparatus on all

slips leaving our ports, the examination of radio operators applying for commercial licenses, etc. Among the main duties of the inspectors are the location of interference and the testing of transmitted signals to determine whether a station is

on its designated frequency.

The Aeronautics Branch has ambilious plans for the use of radio in the development of commercial airways.

The Bureau of Standards, under the Department of Commerce, maintains elaborate radio research laboratories and its work is internationally known. All sorts of radio apparatus and equipment

The Bureau of Lighthouses has the a system of radio beacons and radio for

The Department of Justice has utilbeing broadcast.
The Geological Survey has also used

this means of keeping in touch with research parties in the field, many times as far from Washington as Alaska, Panama and South America. The Bureau of Mines is looking into the possibilities of radio as an aid to locating hidden deposits of minerals and oils. The Public Health Service frequently bat ill health in the country. The Bu-reau of the Budget twice yearly broad-casts its meetings, the report being read Other Government departments and bureaus use the commercial stations for the presentation of their various problems and solutions. President Coolidge is a frequent speaker, having an eager audience for each broadcast. peared before the microphone at

WEBC JOINS CHAIN

Sam's communication problem.

Station at Superior, Wis., Will Be "Presidential Special." President Coolidge will be able to in the reduction of static. The loop of actial receives especially well from points in the plane of the loop, or Wis, to become associated with National Broadcasting Company's system until Sept. 1.

The arrangement has gone into effect. WEBC broadcast reports of the Republican National Convention last week, and will go on the sir with complete descriptions of the National Convention later this month. WEBC recently was granted an increase in power by the Federal Radio ment of the summer White House at

The proximity of the station to Brule Lake will assure the Chief Executive tunately the power used by broadcast- of clear reception of the national pro-

radio frequency, like the neutrodyne. provide entertainment all summer pracA larger size loop than commonly tically unruffled by the atmospheric sponsored by the NBC and associated used is suggested for this purpose, and disturbances.

## **PHOTORADIOGRAM** SERVICE AT HAND

All Sorts of Pictures Being Flashed Across Oceans

Principles of Transmission and Reception Explained. - Subject Not Sent as a Whole, but in Tiny Portions, Translated Into

Dots, Dashes. BY AUSTIN C. LESCARBOURA The photoradiogram, or picture sys tem of transmission, has been developed to such an extent today that ne pictures, portrait photographs, fashion drawings, documents of interest to drawings, documents of interest to banks and bankers, legal papers, archi-

tectural plans, technical designs and so on are now being transmitted to all parts of the globe, there to be reproduced quickly and accurately. It appears incomprehensible at first thought that radio pictures can be transmitted at all. When it is realized, however, that transmission is effected not by considering the picture as whole, but subdividing it into minute portions each for individual analysis, the reasonableness of the process be-

A photographic negative of the pic of the glass cylinder is located a glass

the line as it travels across the nega tive. In the thin part of the negative the penetration is good, but in the dark portions of the film but little of the light beam penetrates.

The light which penetrates the film passes to a photo-electric cell which is

The light variations which are registered by the photo-electric cell are then amplified, by well-known means, until ling of the highest-powered radio transmitters. Thus the light values of the photograph are able to radiate sighals to all parts of the world.

complished by causing the amplified impulses to change the number and length of contacts sent out. A light part of the picture will send very few and very short dots. A gray portion of the picture will send many small s, and a dark portion will send long and heavy dashes.

The initial reception of the dots and dashes from the photoradiogram transmitter is the same as ordinary reception of code or broadcast signals. The radiogram receiver proper.

in the latest type of equipment, is accomplished by the medium of heated air. Special heat-sensitive paper is held the receiver in a manner similar to a typewriter, except that the paper is in a continuous roll. A device termed a "hot-air gun" travels back and forth across the slowly advancing paper. This air at the paper.

The hot air, when it strikes, makes a sepia mark on the paper. The jet of hot air is controlled by a cold-air jet on the side of the gun. The cold-air jet is controlled by an electrically-operated valve. If the valve is closed, the hot-air jet has full exposure to the paper, making a heavy mark. This condition occurs when a signal impulse is coming in from the distant transmitter. This signal actuates the valve, cutting off the cold-air supply.

The radio signal impulse arrives when the photo-electric cell at the transmitter is being exposed to light passed through the film in the glass cylinder. This exposure occurs at every ortion of the picture where there is clear space, consequently a black mark will be registered at the receiver.

Since the picture at the transmitter is a negative, the clear spaces on the

film are the ones to register black on the recorder. This sequence is the normal process of printing the positive in photography. Thus, bit by bit, as the light beam at the transmitter, and the hot-air jet at the receiver, travel back and forth in strict synchronism, the finished is developed.

1. Because each owner probably uses different length of aerial and lead-

There must be nothing near the arrestor that could catch fire. There are few cases where such an arrangement 12 00 m.—Correct time and weather forecasts is necessary.

usually is changed in such a process and the radioist forgets to change his tuning a little in accordance with it. No. Either connection will do except that the lead in and aerial must be attached to the same post of the arrestor and the ground to the other post. The ground connection for the set may be taken from this ground post or from a separate ground in the

Good results are seldom obtained by the set builder unless the exact speci-fications of the designer are followed. The designer has usually tried all the possible combinations before he has approved a description for the last approved a description for publication.

centred in the collar at the apex for the proper adjustment of a cone loud-speaker. If it is shifted slightly from dead centre, there is a strong tension on the pin and this limits the amount of power the speaker can handle without distortion.

## Today's Programs in Brief

For the convenience of radio fans the following hourly schedule of broadcasting today is given in brief form. Figures following station de-note wave-length. The hours are based on Eastern Daylight Saving Time. LOCAL STATIONS

10.30-Church, WLSI, 248. 10:45—Church, WFCI, 242. 11 00—Church, WEAN, 275. 1:30-Concert, WCOT, 225. 2.00-Talk, WCOT, 225. Church, WJAR, 484. 3 00-Music, WKAN, 275. Concert, WJAR, 484.

Concert, WJAR, 484.
4.00—Music, WEAN, 275.
4.30—Brown exercises, WJAR, 484.
5.30—Lecure, WLSI, 248.
6.00—Band, WJAR, 484
6.30—Orgen, WEAN, 275
7.00—Music, WEAN, 275
7.25—Weather, WJAR, 484.
7.30—Concert, WJAR, 484.
8.00—Correct time, WEAN, 275.
Ohurch, WLSI, 248.
9.00—Music, WEAN, 275.
Church, WJAR, 484.
9.145—Music, WEAN, 275.
10.15—Music, WEAN, 275.

EASTERN STATIONS EASTERN STATIONS
9:00—Children's hour, WJZ, 454;
WPAP, 353.
9:30—Church, WKBW, 217.
10.45—Church, WGR, 303; WKBW, 217; WEEI, 448
11.00—Church, KDKA. 316; WQAO. 395; WAAM. 349 WCSH, 366; WGY. 380; WDRC, 283; WBZ, 333.
12.00—Church, WRC, 469; WHAM, 280.

12.00—Church, WRC, 469; WHAM, 280.

12:30—Organ, WHN, 396.
1:00—Feature, WIZ, 454; WHN, 296.
Music, WEAF, 492, WRO, 469.
Organ, WKBW, 217.
1:15—Organ, WKBW, 217.
1:30—Church, WCSH, 368
2:00—Church, WEAF, 492
Orchestra, WHN, 396.
Feature, WICC, 265.
Roxy and his gang, KDKA, 316; WBZ, 333, WIZ, 454; WRC, 469
2:15—Music, WICC, 265.
2:30—Music, WKBW, 217; WICC, 265; WCSH, 366.
3:00—Feature, WQAO, 395.
Music, WBZ, 333; WOR, 422; WCSH, 366, WHAM, 280; WGR, 303.

303.
Ensemble, WJZ. 454
Conference. "MEAF, 492.
Church, WRC, 469.
3:15-Music, WICC, 265.
3:30-Music, WICC, 265; WPG, 273;

WAAM, 349. 4:00—Organ, KDKA, 316; WHAM, 230. Conference, WEAF, 492; WRC, 469. Music, WOR, 422; WJZ, 454. Band, WBZ, 333; WICC, 265. 4:10-Music, WAAM, 349. 4:15-Music, WPG, 273.

4:30--Peature, WEAF, 492. Music--WRC, 469; WHAM, 280, WAAM, 349; WICC, 265. 4:45-Vespers, KDKA, 316. Talk, WEEI, 148. Church, WRC, 469. Music, WAAM, 349; WBZ, 333; WHAM, 280, WOR, 422; WJZ,

Orchestra, WHN, 396. 5.15-Church, WPG, 273. 5 10—Music, WEAF, 492, WGY, 380; WEEI, 448, 'VAAM, 349, 6:00—Band, WEAF, 492, WGR, 303; WTAG, 317; WFI, 405; WTIC, 535, WEEI, 448, WCSH, 356 Music, WGY, 380, WRC, 469; WJZ, 454

WJZ. 454
6 08—Baseball scores, KDKA, 316.
6.25—Baseball, WJZ. 454.
6.30—Music, WJZ, 454; WBZ, 333; KDKA, 316.
6 55—Baseball, WBZ, 333.
7 00—Music, WGY, 380; WTIC, 535; WFI, 405; WHN, 396, WEAF, 492.

Baseball, WTAG, 517; WGR, Church, KDKA, 316; WKBW,

303. Church, KDKA, 316; WKBW, 217. Organ, W.IZ, 454. 7.05-Music, WTAG, 517. 7.15-Church, WIP, 349. Music, WBZ, 333. 7.19-Chimes, WEEI, 448. 7.20-Music, WILC, 535. WBAL, 286; WHAM, 280. WOR, 422. Church, WQAO, 305; WGR, 303; WFI, 405: Capitol Theatre program, WEAF, 492. WTAG, 517, WTIC, 535, WGY, 380. 7.45-Feature, WBZ, 333, WJZ, 454. 8.00-Music, WEEI, 448. WHAM, 280; WTAG, 517, WTIC, 535, WGY, 330. WGR, 422. 8.15-R-ading, WHAP, 236. 8.45-Music, WHAM, 280; WGR, 333, WJZ, 454, KDKA, 316, WBZ, 333. WCSH, 368. 4.48-WHAM, 280; WGR, 303, WCSH, 366, WRC, 469; WEAF, 492. WTAG, 517, WTIC, 535. Feature, WGR, 422. News, WFG, 273; WEEI, 448. 9.10-Music, WFG, 273; WEEI, 448. 9.11-Pianist, WEEI, 448. 9.11-Pianist, WEEI, 448. Barseball, KURS, 336, WGR, 303; KDKA, 316, WGR, 303, WCSH, 366, Atwater Kent hour, WEAF, 492. WGY, 380, WGC, 535. Music, WGBS, 349. WBZ, 333; KDKA, 316. WTAG, 517; WHAM, 280. WFG, 273 Band, WGR, 424. Reader, WHAP, 236. WHI, 405; WGY, 380. WGC, 459. Barseball, WBZ, 333.

5:00 p. m.—Dance orchestra.
7:00 p. m.—Orchestra.
10:00 p. m.—American celebrity hour.
11:00 p. m.—Organ recital.
11:30 p. m.—Orchestra.
12:00 p. m.—Orchestra.

WICC-BRIDGEPORT-265.

4 00 p. m. – Melrose Four. 4.30 p. m. – Jack Robock and his sax.

10:30--Music, WGBS, 349: WPG, 273. 10 45 -Music, WGBS, 349. 11:00--Organ, WHN, 296 Music, WGBS, 349 11:15 - Music, WOBS, 349. 11:30 Orchestra, WHN, 296. Music, WGBS, 349.

12.00 Orchestra, WHN, 296. Church, WBSO, 284. DISTANT STATIONS 12:45 - Feature, WGHP, 277.

2 00-Music, WMAQ, 428; WSAI, 428 Roxy and his gang, KYW, 526. WJR, 441. WOC, 294. 3:00—Music, WGHP, 284, KOA, 336; WMAQ, 428, WBAI, 461, KGO, 384, WSB, 476 3.30-Band, WLW, 428. Music, WIBO, 304.

Music, WIHO, 304.
4:00—Organ, WLW, 484. KFI, 469
Music, KOA, 336. KYW, 526;
WSAI, 461.
4:45—Orchestra, WLW, 428
5:00—Music, KNX, 336. KFI, 460
6:30—Music, WIHO, 304; WMAQ, 428.
WSAI, 461. WJR, 441. KOA, 336.

336.
6.00 - Music, KFI, 469; WSAI, 461
6.30 - Music, KGO, 384, WJR, 441.
6.45 - Music, WMAQ, 428.
7.00 - Music, KOA, 336, WSAI, 461;
KYW, 526
7.30 - Capitol Theatre program, WSB, 476, KOA, 326, WSM, 441, Music, KGO, 469; WJR, 441;
KFI, 469, WSAI, 461, KYW, 526
7.45 - Music, WJR, 441.

KFI, 469, WSAI, 461, KYW, 526
7-45-Music, WJR, 441, 750-Music, WMAQ, 428
8.00-Music, KFI, 469, WMAQ, 428; WSAI, 461
8 10- Trio, WIBO, 304, 8.13-Music, WIBO, 304, Collier's radio hour, KOA, 326; KYW, 526, WJR, 441, 8.45-Music, KOA, 336, WLW, 428, KYW, 529
9.00-Music, WGPIP, 441, Talk, WSB, 476, KNX, 326; WSAI, 461, WOC, 353
9.15 Music, KOA, 326; WJR, 441; WIBO, 304, WMAQ, 428, WSAI, 461,

WIBO, 304, WMAQ, 428, WBAI, 461,
Atwater Kent hour, KGO, 384;
WCCO, 405, WOC, 375.

9 17 Talk, KYW, 528,
9 30-- Music, KFI, 469,
9 45-- Music, KYW, 526,
10 00 - Music, KYW, 526,
10 00 - Music, KSTP, 220,
10.15- Music, KOA, 326; WLW, 448;
WSAI, 481, WCCO, 405,
WMAQ, 428,
10 32 - Music, KFI, 469,
11 45-- Music, WOC, 375,
11 100 - Music, KFI, 469, KNX, 336;
WMAQ, 428, WGHP, 277
11 115-- Music, WCC, 375
11 130-- Music, WCC, 405
12 30-- Music, WCC, 405
12 30-- Music, WCCO, 405
12 30-- Music, KFI, 469, KNX, 336,
12 30-- Music, KFI, 469, KNX, 336,
10 0 Orchestra, KFI, 469,

Faulty Reception.

Before complaining about broadcast-

ng reception, radio listeners should see

Laurel Time and the Month of June are delightful at

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A homelike place where you can get away from transient crowds and play in the open with reduced people who come to enjoy the beautiful White Mountain so mery, invigorating air and good sports Golf, tenuls, fixing, a fine sylmany pool, etc. Special facilities for hildren. Terms medicate Scaron opens July 1, Write Box 15.

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THE GLENDON DAVISVILLE-CONTOOCOOK, N. H.

istener should be placed on a standard 90 miles from Boston on State road to Lake Sunapre Open for 20th season Entertains 100 guests, bootling, bathing fishing, tennis, dance payilion Golf near Chicken Dinner Sunday. Motorists accommodated, \$12 a week. Illustrated circular. H. J. Bean, Prop

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Near North Woodstock, N. H. If a hydrometer is not available for testing a storage battery, a good voltmeter can be used without difficulty Each cell should register 2.2 when fully charged. When each cell shows 1.3. Terms for board and room \$19.00 to \$27.00 to \$27 WHITE MOUNTAINS

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AND ANNEX WHITE MTS. GLEN, N. H. Ideal for rest and recreation, Comfort-

able beds, Poultry, eggs, milk, vege-tables from our farm, Home cooking. Modeen conveniences. \$16.00 to \$18.00 Week. Accommodate 20, MRS, CHARLES GRANT

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"The House with the View" In the White Mountains

Booklet

No fee to quests for golf SUGAR HILL, N. H.

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CHOCORUA, N. IL.
Delichtfully situated in the foothills of
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May to Nov.
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> HOTEL SPRUCES WHITEFIELD, N. H.

JAFFREY, N. II. In the White Mountains A Nice Place for Nice People AT FOOT OF MONADNOCK MOUNTAIN Mr. and Mrs. George L. Crockett 70 Miles from Boston 100 Airy Rooms, 50 with Bath. 30 Open Pireplaces Rates Moderate, Tel. Jaffrey 119. E. C. SHATTUCK Ownership-Management

> "FRANCONIA NOTCH" WHITE MOUNTAINS GREENLEAF INN NORTH WOODSTOCK, N. H. Sightly location. A modern up to date Inn. Excellent table. Sports. Rates \$4.00 and \$5.00 per day. American plan Weekly rates on application.

nock Accommoda-tions for 40 guests American Plan Excel-lent food, Reasonable rates, Booklet on re-quest G. H. Greenleaf, Mgr. PLEASANT VIEW FARM WEST THORNTON, N. II.

in Pemigewasset Valley, one quarter mile from Daniel Webster highway. Rooms convenient to baths. Table supplied with our own farm products. Central to all points of interest in White Mts. Write for reservations. W. E. DOBSON, Prop. DEER PARK HOTEL

North Woodstock, White Mts., N. H. The rendezvous for Providence people.

Hole golf course on hotel grounds, ree to guests, tennis, mountain climbing, dancing, orchestra. Special rates for season guests. Booklet.

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· NORTH WOODSTOCK, N. H. Home Comforts Our Molto. Nice Comfortable Rooms. Good Food, Come Once—You Will Always Come. M. B. DONAHUE, Prop. HILL TOP HOUSE

NORTH WOODSTOCK, N. II. The Beart of the White Mountains A small house with a homelike atmosphere. Clean, comfortable beds. Hom cooking. S18.00 PER WEEK
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SUNSET FARM N. WOODSTOCK, N. H.
Electric lights, bath, pleasant rooms with
running water. Good beds. Fresh products from the farm.
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TOURISTS ACCOMMODATED AT THE BUENA VISTA HOUSE In the Heart of the White Mountains.

WOODSTOCK, N. R. Comfortable rooms for overnight guests.
Meals served all hours. Reasonable rates.
Home cooking. Garage accommodations. ELMER E. HANDY, Prop.

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North Conway, N. H.

In the most picturesque region of the White Mountains
Famous Mineral Spring Water Rooms with Bath or Hot and Cold Running Water.

Golf, Tennis, Handball, Daneing,
BOOKLET
J. W. THOMSON, Prop.

For pleasure-filled days and nights fine dry air, rest and relaxation

COME TO HOTEL RANDALL Brook trout fishing, tennis, horseback riding, mountain hiking, motoring. GOLF COURSE

ALSO SUNSET INN OPEN JULY 1st TO OCTOBER H. H. RANDALL & SONS No. Conway, N. H. `Lucy Farm House"

White Mts. No. Conway, N. II Bathing, mountain climbing, tennis Excellent table. Auto livery. Electricity, modern equipment. Open all year. Booklet on request. ARTHUR O. LUCY, Prop.

White Horse Villa NORTH CONWAY, N. H. Beautiful Location in the White

Bathing, tennis, golf, mountain climbing.
Pine woods and river Fresh farm products.
Comfortable house. Come for a happy vacation. Rates reasonable.
Address P. P. SMITH BROOKSIDE INN

White Mts. No. Conway, N. H. On thain highway, short distance from center of town. Convenient to all churches and points of interest. Home cooking. Vegetables, milk, eggs from our own farm. \$16.00 to \$18.00 week. MRS. CHESTER SAWYER

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BIRCHMERE FARM White Mts. Kearsarge, N. H. At the base of Hurricane and Kearsarge Mountains. Home cooking.

own table products. \$16.00 per week.

Modern conveniences.

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KEARSARGE, N. H. Pleasantly situated in heart of White Mts. Good table, airy rooms, fresh vegetables, milk, eggs, Home cooking, Mod-ern conveniences. Golf, horseback rid-ing, dancing, auto livery, \$14 to \$16 week. Tel. No. Conway 12-11. E. F. EASTMAN, PROP.

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hite Mts. Kearsarge, N. H. Quiet, homelike, large airy rooms, home cooking, fresh eggs, milk and vegetables. Modern conveniences. Accommodate 10; \$14 to \$16 per week. Circular. Tel. No. Conway 12-12. Mrs. W. W. Hamilton.

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White Mts. Kearsarge, N. H.
A beautiful location on the slopes of Mt. Kearsarge. Tennis, Golf, Saddle Horses, Bathing. Home table. New dance pavilion. Music, Booklet. Spe-cial rates to July 7. Spend July 4th

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Jackson, N. H. White Mts.

Close view of Mt. Washington; high and cool. Trout streams, woodsy walks, bathing, dancing, tennis, golf. Best of food, clean rooms—nice people. Away from main highways, \$15 to \$24 per veck. Booklet.

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HOUSE White Mts.,
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An inviting and picturesque vacation
home. Golf. Tennis. Bathing. Trout
Fishing. Mountain Climbing. Many important improvements, including elevator.
Accommodates 125. Booklet on request.
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Open June 15th to Oct. 18th.

Most rooms with running water and bath.

Fresh vegetables and milk from our own farm. Convenient to all points of interest.

Write for booklet and rates.

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INTERVALE N. H.
Ideal location from which to tour White Mountains, Comfortable rooms, good table and service. Golf, Tennis, Bathing, Clock Golf. Reasonable rates. Write for reserva-

J. A. BARNES' SONS. SMITH'S TAVERN In the Switzerland of America

Intervale, N. H. Reasonable rates, splendid table, homelike atmosphere. Tennis, golf, mountain climbing, horseback riding. Everything to make one's vacation a most enjoyable one. Write for booklet.

NEWELL A. SMITH, Prop LAKE SUNAPEE.



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In a wee white

Inn on the Lake:
If you pass it you've
made a mistake,
There's chicken—and
cream
And the pie is "A
Dream"—
At this cozy white Inn
on the Lake.

Russell Inn LAKE SUNAPEE, N.H. Mrs. Stella C. Russell Keeper of the Inn Summer—Fall—Winter

GRAND VIEW HOTEL Formerly Pleasant Home Hotel on Laks Sunapee, Georges VIII, N. II, Redecorated, sun-parlor, hot and cold water, private baths, steam heat, good meals, Dance hall, croquette, tennis, golf, horseback riding Bass and Salmon Fishing—All Water Sports July Rates \$25 and up (2 in a room) Aug. \$30 and up per week Christian clientele. HENRY MEYER, Prop.

The Brocklebank NEW LONDON, N. H.

Four lakes and three ponds nearby for fishing and boating. Golf and all out-door sports. Horseback riding. 1100 ft. elevation. Excellent table. Write for klet. F. B. GAY AND SON, Props.

> The Glengae NEW LONDON, N. H.

Rest, Recreation, Eat and Sleep Write for Booklet WALTER E. GAY, Prop.

MAPLEWOOD FARM NEW LONDON, N. H.

Enjoy your vacation on a farm near Lake Sunapec, on main road to White Mountains. Excellent table, own farm products. Tourists and week-end partles accommodated. Write for rates and booklet. M. E. BARRETT

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Ideal Summer Resort Hotel, excellent food rooms, fishing, boating, bathing, dencing movies, golf, mt. trails, unsurpassed view of lake and mountains, near Catholic, Protestant churches, amusements, \$21 to \$24. JULY THE BEST VACATION MONTH. Booklet. H A. KATHAN, Prop LAKE SUNAPEE.

LAKE SUNAPEE, N. H. OPENS JUNE 23

An ideal resort for recreation in the foothills of New Hampshire Modern in every appointment. Every room an outside one. Golf nearby, Fins bathing, boating, fishing, horseback riding. American Plan, \$5.00 up. An ideal resort for recreation is riding. American Plan, \$5.00; Concerts and dancing. Booklet, LEWIS R. DUDLEY. Ownership-Management

A Charming Old New England Home CHASE'S 可能療 overlooking Lake Sunapee

Boating. bathing, fishing, golf near by Rooms with or without bath, running waith real Home Cooking. "Our House is Homey and Informal." Genuine Hospitality. Accommodating 35 guests. Special July rates \$18-\$30 week. Anna Chase, Hostess, Georgea Mills, N. H.

HAMPTON BEACH An Ideal Place To Spend Your Vacation

HILL-CREST INN Hampton Beach, N. H. "A Home Away from Home"

ON OCEAN FRONT American Plan · Rates Reasonable Write for reservations Tel. Con.-JOSEPH A. HURLEY, Prop. THE HELENA

HAMPTON BEACH, N. H. AMERICAN PLAN
Special rates by month or season Make Reservations Farly Mrs. J. J. Powers, Hostess

OCEAN FRONT

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American Plan. Centrally located

Fish and meat menus at every meal Booklet on request. Tel. 8038. ETHEL POWERS UHLIG, Prop.

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Centrally located. Ocean view. Hot and cold running water every room. Rates reasonable. THERESA R. MORSE

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Ocean front. Rooms with bath: Shore dinners. Broiled live lobsters a specialty. Equipped for large or small banquets. Dancing parties accommodated. Rates on application.

THE LANGLEY

B STREET намртох веаси, х. н. 🎊 Centrally located. Rooms reasonable, rates. Special rates June and July. Write for reservations or Tel. 8117-2. EDMUND LANGLEY, Prop.

THE GARLAND Hampton Beach, N.H.

OCEAN FRONT EUROPEAN PLAN JAMES W. GARLAND, JR., Prop. Write for Reservations. Tel. 169 Newfound Lake

PASQUANEY INN On Shore of Newfound Lake, six miles from Bristol. Beautiful walks and drives, canceing, bathing and aquaplaning, saddle horses, golf. LANDLOCK SALMON AND TROUT FISHING NOW. Electric lights, baths with modern plumbing, telephone: excellent water. Daily rates \$4.50 up. Weekly rates \$22 up. H. W. HAMMOND, Prop. BRIDGEWATER, N. H. MAINE

PIONEER INN & 'CAMPS BRIDGTON, MAINE

June 1st to Oct. 15th. Lake shore, camps with twin beds, bath, open fire, electric lights. Unexcelled table. Fishing, Swimming, Golf. Tennis. \$5 day, \$32.50 week. Reduced rates June, Sept., Oct. Booklet \$32.50 week. It.
Oct. Booklet.
L. I.-PIKE

STONELEIGH MANOR BRIDGTON, MAINE

Ideal location on Highland Lake. Rooms en suite with bath, \$5 to \$6. Open June 25th to Sept. 16th. Table sup-plied from our own gardens. Fishing, Golf, Tennis

WISCASSET INN Wiscasset, Maine FISKE HOUSE Damariscotta, Maine
American or European. Open all year.
Reduced rates May. June, Sept. Oct.
Dining room open 7 A. M. to 10 P. M.
A la carte or table d'hote.

ture to be transmitted is placed around a glass cylinder of the photoradiogram transmitter. On a spindle in the centre prism. A beam of light refracted by the prism is focused to a very small point on the negative. This point of light is oscillated back and forth across the inside of the glass cylinder. By this means, in a single crossing, the light has covered a narrow element of the negative. At the end of each stroke ward to present a new element of the

picture to the light. The light beam is thus exploring the light values of all individual parts of

the electric eye of the equipment. This device is sensitive to the intensity of the light which strikes it. The flow of minute current through the photo minute current unrough the photo-electric cell is exactly proportional to the light intensity. If the cell is ex-posed to much light, maximum current will be passed. When but little light reaches it, as during the passage of a dense portion of the negative, only a correspondingly small current will be

Practically, the actual control is ac

signals are then amplified to a predetermined degree and fed to the photo-The actual recording of the picture.

ANSWERS TO WEEKLY RADIO TEST

Under certain conditions, yes

3. 1923. Because the length of lead-in

Tip to the Set-Builder.

Small changes in the set may seem practical, but they frequently interfere seriously with proper functioning at some other point. Adjusting Cone Speaker. It is essential that the pin be exactly

#### **RADIO PROGRAMS**

Continued from Page Seven. 30 p. m .- Wall entertainers.

m.—Jubilee quartet. . m.—Organ recital.

WBAL—BALTIMORE—286.

M.—Concert orchestra.

M.—Same as WJZ.

M.—Same as WJZ. WIBO-BOSTON-104. 1:15 p. m.-Organ recital. WBSO-BABSON PARK-384. m.-Midnight ministry. WBZ—SPRINGFIELD—383.

m.—Trinity Churen service.

m.—Same as WJZ.

m.—Classic melody.

p. m.—Classic merody.
p. m.—Same as WJZ.
p. m.—Game as WJZ.
p. m.—Corerct time and baseball scores.

WCSH-PORTLAND-366.

11.00 a. m — Service from State Street Church

1:30 p. m.—Radio Parish Church service.

2:30 p. m.—I. B. S. A

3:00 p. m.—Same as WJAR.

6:00 p. m.—Same as WJAR.

9:00 p. m.—Same as WJAR.

9:15 p. m.—Strand organ. WDRC—NEW HAVEN—283.
a. m—Service from the Church of the Redeemer.

the Redeemer.

WEAF—NEW YORK—402.

1:00 p. m.—An hour of chamber music with Katherine Palmer. Soprano.

2:00 p. m.—Same as WJAR.

3:00 p. m.—Same as WJAR.

4:00 p. m.—Genia Zielinska, soprano, and Winifred Young Cornish, pianist.

4:30 p. m.—Malaid singers.

5:00 p. m.—Ballad singers.

6:00 p. m.—Bame, as WJAR.

7:00 p. m.—Bame, as WJAR.

7:00 p. m.—Baseball acores.

7:00 p. m.—Baseball acores.

7:00 p. m.—Baseball acores.

7:00 p. m.—Gene as WJAR.

9:00 p. m.—Classical trio

9:15 p. m.—Atwater Kent hour.

9:45 p. m.—Biblical drama.

WEEL—BOSTON—418.

WEEL-BOSTON-418.

10.45 a m.—Service from First Church of Christ. Sicentist

5 00 p m.—Sam Curtis radio chat.

5 00 p m.—Bam Curtis radio chat.

6 00 p. m.—Bame as WJAR.

7 19 p. m.—Sessions chim's.

7 20 p. m.—News dispatches

8 00 p. m.—Sager hour of hospitality.

9 00 p. m.—Sessions chimes.

9 10 p. m.—Sessions chimes.

9 11 p. m.—Mewspaper sidelights.

9 11 p. m.—Mewspaper sidelights.

9 11 p. m.—Masterpiece planist.

9 15 p. m.—Same as WAFF.

9 45 p. m.—Correct time

p. m.—Same as WEAF. p. m.—Same as WEAF. p. m.—News dispatches WFI-PHILADELPHIA-105. 6:00 p. m.—Same as WJAR 7:00 p. m.—Same as WEAF 7:30 p. m.—Service from Arch Street Pres-byterian Church. m.—Instrumental ensemble.
m.—Corerct time.
m.—Same as WJAR.

WGBS-NEW YORK-349.
p. m-Radio minstrels
p. m-String quartet.
p. m-Seamus O'Doherty, tenor.
p. m.-String quartet.
p. m-String quartet.
p. m-String quartet. WGR-BUFFALO-303.

casts
3 00 p m — Same as WJAR.
6 00 p m — Same as WJAR.
7 00 p m — Baseball scores
7 30 p m — Service from Central Presbyterian Church.
9 00 p. m — Same as WJAR.
9 15 p m — Same as WJAR.
9 15 p m — Game as WEAP
9 15 p m — Correct time

WGY-SCHENECTADY-380.
m -Service from First Reforme

WGY-SCHENECTADYThe schurch of the schurch of the

WHAM—ROCHESTER—280.

12 00 m—Service from Brick Presbyterian Church
3 00 p m—Down melody lane.
4 00 p. m—Same as WJZ.
4 30 p m—Popular concert.
5 00 p m—Same as WJZ
7 30 p m—Studio program.
8.00 p m—Concert trio
8 45 p m—Same as WJZ
9 15 p m—Music recital
10 15 p. m—Organ recital
11.15 p. m.—Weather forecast.

WHAP—NEW YORK—236.

8:00 p m—Sacred music.

8:15 p. m—Augusta E Stetson, C S. D.

Christian Science readings

9:15 p m—Sibyl Marvin Huse, religious reading. WHN—NEW TORK—306.
m.—Organ recital.
m.—Three little Sachs.
m.—Theatre orchestra.

WJZ—NEW YORK—454.

9 00 a. m.—Children's hour.
1 00 p m.—National concert orchestra.
2 00 p m.—Roxy and his gang.
3 00 p m.—Classic melody.
4 00 p m.—Friendly hour
5 00 p m.—Trailight revertes
6.00 p m.—Sonata, Mathilde Harding and
Arcadle Blenkonhoiz
6 25 p m.—Baseball scores and summary
of programs.
6.30 p m.—Arion male chorus assisted by
string trio

planist
7 45 p. m.—High spots of me'odv.
8 45 p. m.—Whittall Anglo-Persians.
9.15 p. m.—Goldman Band.
10,15 p. m.—Correct time. WKBW—BUFFAI.O—217.

9:30 a m.—Episcopal service.
10:45 p m.—Public worship.
1:00 p m.—Organ recital
2:30 p m.—Polish program
7:00 p m.—Evangelistic service
10:15 p. m.—Back home gospel melody hour
from thes tudio.

WOR-NEWARK-122 3 00 p. m.—Same as WEAN
4 00 p. m.—Same as WEAN
5 00 p. m.—Jean Lambert Dale, "Father's Day."

7 30 p m.—Organ recital.

8.00 p m.—Choir invisible

9 00 p m.—Same as WEAN

10.15 p. m.—Same as WEAN

WPAP-PALISADES-395 9.00 a. m—Children's hour

WPG—ATLANTIC CITY—273
3.30 p m—Cheatore and his band and
Pauline Talma, soprano
4.15 p m—Community vocal and instrumental recital
5.15 p m—Religious service.
9.00 p m—News flashes and baseball scores scores
9 15 p. m — Symphony orchestra.
10.30 p. m — Correct time
10.30 p. m — Sunday evening musical.

WQAO—NEW YORK—30X 11 00 a. m —Calvary morning services. 3 00 p m.—Inspiration hour. 7 30 p m —Inspiration hour. 7.30 p. m.—Calvary evening services.

WRC-WASHINGTON-460

12 00 m -Church service.
1 00 p. m.-Chamber music.
2 00 p m.-Same as WJZ
3.00 p m.-Same as WJAR
4 00 p. m.-Studio program
4 30 p m.-Bame as WEAF
5 00 p. m.-Service from Washington Catheral. edral.

6 00 p m — Same as WJAR.

7 30 p. m — Same as WJAR.

9 00 p m — Same as WJAR.

9 15 p m — Correct time

9 15 p m. — Same as WEAF.

10 15 p m. — Same as WEAF.

10 45 p. m — Weather forecast.

WTAG-WORCESTER-517

WTIC-HARTFORD-535

WTAG-WORCESTER—
6:00 p m.—Same as WJAR.
7:00 p m.—Same necital
7:30 p. m.—Organ recital
7:30 p. m.—Organ recital
9:00 p m.—Same as WEEI.
9:00 p m.—Same as WEEI.
9:15 p m.—Correct time
9:15 p. m.—Correct time
9:15 p. m.—Correct program.
10:00 p. m.—News bulletin.

6 00 p m —Same as WJAR.
7 00 p m —Old World Cathedrals.
7 20 p. m —Violin recital.

Distributors.

that they have standard equipment properly installed. Many of the poor programs are due to one of the follow-ing causes. Cheap sets made only to dians.
3 15 p m—Popular song hits
3 30 p m—Eric Peterson and his melosell, old obsolete sets, home-made sets, sets not in proper condition, improper installations or ignorance in handling the radio receiver and ignorance in tuning There may be conditions where WIP-PHILADELPHIA-319.
m -Service from Holy Trinity complaints are justifiable, but the

7 30 p. m -- Same as WJAR. 9 00 p. m.--Same as WJAR. 9.15 p. m. Baseball scores

basis on three points before he can complain. First, that his set is of standard construction or better; second, that it is in good operating condition, and third, that it is installed 7.00 p m—Arion male chorus assisted by string trio
7.00 p m—Scene from "The Port and the Goose" by the Irish Guild players.
7.30 p. m—Mme. Lolita Cabrera Gainsberg. the battery should be placed on charge without further delay.

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