RADIO LORE FOR NOVICE AND EXPERIENCED FAN

RADIO PROGRAMS

the Sunshine Boy, will be on the air at the remaining days of the week.

7:50 p. m. on Friday. Saturday at 9:15

WCOT begins its weekly programs at p. m. will be broadcast the Third Na-11:30 p. m. with the Waliana Hawaiian tional Oratorical Contest in which Hon-1 troup. Jacob Conn will talk on current

8.01 p m. The Columbia Chain pro- air at 2.30 p. m. on Saturday. grams will be broadcast at 3 p ... 4 m., 9 p. m., 9.30 p. m., 10 p. m. and An organ recital will bo, broadcast from the station at 6:30 p Tomorrow at 2 p. m. will be broadcast the "Conference on the Cause and cast the Contenence on the cause and cure of War." The speaker will be President Faunce. Tue day the Colonial band will be on the air at 9:15 p. m. Wednesday the usual program will be heard. Thursday at 8:30 p. m. will be broadcast the Shakespeare players of the Basement Studio group. Uncle Red will be on the air at 6:25 p m. on Fri-day. At 3 p. m. on Saturday will be broadcast the baseball game from Aldrich Field, Brown University vs. Prov-

idence College. WLSI commences its week of broadcasts at 10.30 a. m. with the service from First Church of Christ Scientist. At 5:30 p. m. will be broadcast the International Bible students' program. The service from the Church of the

Recreation

5,000 miles of cool, de-

lightful travel on largest,

Fortnightly service by new

S. S. Galifornia, largest

steamer ever built under

the American flag, and the

splendid S. S. Manchuria

One Way Water - One Way Rail From home town back to

home town. Steamer either way. Choice of rail routes

across Continent. \$350 1st

Class. \$225 Tourist Class.

One Way-\$250 1st Class,

8125 Tourist

and S. S. Mongolia.

astest ships in the service.

Route

WJAR starts its week of programs at 3 Seventh Day Adventist will be heard at 8 p. m. Harold Eddy and his orconference. At 4 p. m will be heard the Men's Conference The Weymouth 8 p. m. Tuesday at 7 p. m. will be Post American Legion band will be on broadcast Miller's dance orchestra. The the air at 6 p. m. the Capitol Theatre Providence College orchestra will be program at 7.30 p m., a talk entitled heard on Wednesday at 5 p. m. Al "Our Government" by David Lawrence Blakely, the novelty man, will be on the at 9 p. m and the Robert W. Powers' air at 9 p. m. on Thursday. Friday orchestra at 9.15 p. m. Tomorrow at orchestra at 9.15 p. m. will be broadcast a safety playlet to be given by junior members of the Providence Safety Council of the Falls Corgregational Church. Tomorrow

"Beware—The Match Boys." A safety Mrs. Robert Johnston, chairman of the talk will be given at 8 p m. on Tuesday Motion Picture Committee, Pawtucket sponsored by the Providence Safety Woman's Club, The Family hour will be broadcast The "Victor Herbert Memorial Concert" will be to the Herbert Memorial Concert will be the structure of the str proadcast direct from the Crystal room gram by the Exide Battery Boys will of the Ritz-Carlton Hotel, New York, at be given at 7.05 p. m. on Thursday.

9 p. m. on Thursday. Tommy Martir, The usual programs will be broadcast

tional Oratorical Contest in which Hon-Herbert Hoover. Secretary of the De-partment of Commerce, will speak.

WEAN begins broadcasting at 11 a.

Mounlight Maids will be observed. Lorettas'
m, with the service from Mathewson, 7 30 p. m. on Tuesday. Wednesday,
Street Methodist Episcopal Church. At
2 p. m. will be heard the Dudley radio
carollers who will also be on the air at
nell. harmonica artist, will be on the
air at 2.30 p. m. on Saturday

WJAR-THE OUTLET COMPANY-181.

WJAR—THE OUTLET COMPANY—ist.

Today.

Dr. Cadman.

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.—"Our Government," by David Lawrence.

9:15 p. m.—Robert W. Powers' orchestra.

Monday.

10:40 a. m.—Providence Journal and Evening Bulletin news flashes.

10:45 a. m.—Musical program.

10.45 a m.—Musical program.

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

11 05 p. m.—Providence Journal and Evening Bulletin news flashes. 1:10 p. m.—Studio program. 1 30 p. m.—Continuation of studio pro-

1 30 p. m.—Continuation of studio program
6.30 p m.—Providence Journal and Evening Bulletin news flashes.
6.35 p m.—Safety playlet to be given by junior members of the Providence Safety Council of the Oxford street grammar school, entitled "Beware—The Hatch Boys"
6.45 p. m.—Earl Shean and his orchestra, assisted by William I. Carrigan, tenor 700 p m.—James G. McDonald, topic, "Red Russia"

700 p m.—James G. McDonald, topic, "Red Russia"
7.15 p. m.—Earl Shean and his orchestra.
7.30 p. m.—Baseball scores
7.35 p m.—Catholic Charity Fund appeal.
7.40 p m.—Musical program under the direction of Harold Strong, tenor, accompanied by Violette Marks
7.50 p. m.—The Rhode Island historian.
8.00 p. m.—O'Ceder shining hour.
8.30 p. m.—A. and P. Gypsies.
9.30 p. m.—General Motors family party.
10.30 p. m.—Fisk Time to Retire boys.
11.00 p. m.—Correct time.
11.00 p. m.—Providence Journal and Evening Builetin news flashes.
10.45 a. m.—Providence Journal and Evening Bulletin news flashes.
10.45 a. m.—Musical program
10.55 a. m.—Musical program
11.55 a. m.—Radio Household Institute.

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 — Weather report. m -Continuation of studio pro-

6.45 p m — Providence Journal and Eve ning Bulletin news fiashes 6 50 p m.—Weather report. 6 55 p m.—Baseball scores.

7.00 p m.—Associat Scores.
7.00 p m.—Soconyland sketches.
8 00 p m.—Safety talk, sponsored by the Providence Safety Council
8 05 p m.—Musical program by Norman C Martin, tenor, accompanied by G Albert Scothon and Howard Bell, pianist.

8.30 p m.—Seiberling singers.
9 00 p. m.—Eveready hour
10 00 p. m.—Clicquot Club Eskimos.
10 30 p. m.—Correct time
10 30 p m.—Providence Journal and Evening Bulletin news flashes.
10 35 p m.—Baseball scores.
Wednesday
10 00 a m.—Providence Journal and Evening Bulletin news flashes
10 05 a. m.—Housewives Radio Exchange, a department conducted by Mrs. Wood on matters of household interest Questions submitted will be answered by radio.

by radio.

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.

gram.

6 45 p m—Rhode Islanders.

7 20 p. m—Providence Journal and Evening Bulletin news flashes.

7 25 p. m.—Catholic Charity Fund appeal.

7 30 p m.—Weather report.

7 35 p. m—Father and son series sponsored by the Providence Better Business Bureau.

talk.

8 00 p m —American Magazine and Wom-an's Home Companion hour.

9 00 p. m —Ipana Troubadors.

9 30 p. m.—Goodrich Silvertown Quartet

and Orchestra

10 30 p m —Correct time.

10 30 p m —Correct time.

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

10 35 p m.—Baseball scores.

10 05 a m—Providence Journal and Evening Bulletin news flashes.

10 05 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 a. m—Musical program

11 15 a m—Radio Household Institute.

10 p m—Providence Journal and Evening Bulletin news flashes

10 p m—Studio program

1 10 p m —Studio program
1 30 p m —Weather report
1 35 p m.—Continuation of studio pro-

1 35 p m.—Continuation of studio program
6 50 p m —Providence Journal and Evening Bulletin news flashes.
6 55 p m —Baseball scores.
7 30 p m —Kaytonik Trio
7 30 p m —Coward Comfort Hour
8 00 p m —Dodge Brothers' presentation.
8 30 p m —Weather report.
8 35 p m.—William J McKenna, baritone, accompanied by Violette Marks.
9 00 p m —'Victor Herbert Memorial Concert.' direct from the Crystal Room of the Ritz-Cariton Hotel, New York city

city

10 00 p m -- Halsey-Stuart program

10 30 p m -- Correct time

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

10 35 p m -- Baseball scores.

Weekly Radio Test

1. Why are tests for audio transformers almost invariably concerned with the pri-mary winding? 2. If audio transformers are of

two different ratios, which one comes first in the circuit, assuming they are not marked? 3. Is a single metal plate effective in shielding stages of modern sets?

What is meant by "capacity ratio" of a condenser' 5. Does it indicate the degree

of condenser efficiency? (Answers to these questions will be found elsewhere in the Radio Section.) (Copyright, 1928.)

10.00 a m—Providence Journal and Evening Bulletin news flashes.
10.05 a.m.—Housewives Radio Exchange, & department conducted by Mrs Wood on matters of household interest. Questions submitted will be answered by radio.
10.40 a.m.—A and P. Bureau of Home Economics.

onomics.

m —Musical program

m.—Radio household institute. m.--Radio household m ---Black Jacksons.

11 30 a m—Black Jacksons.

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—Pollyanna.

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

6.00 p. m.—Mutual Bavings Bank hour,

7.00 p. m—Baseball scores

7.05 p m—Criterion Quartet

7.07 p m—Tommy Martin, 'The Sunshine Boy''

7.50 p m—Tring Creater in a contract of the sunshine Boy''

7 40 p m — Tommy Martin, 'The Sunshine Boy''
7 50 p m.—Irving Crocker, in a program of popular songs
8 00 p m.—Kohala Hawaiians.
8 30 p m.—Maj. Alonzo R Williams, general manager of the United Electric Railways, in a, five-minute that with the people of Rhode Island
8.35 p. m.—Roy Partington, tenor, accompanied by Violet Marks
9 00 p. m.—Whittail Anglo-Persians.
9 30 p m.—Rhode Island Automobile Club.
9.35 p. m.—Hawaiian Island quintet.
10 00 p. m.—Porrect time
11.00 p. m.—Porrect time
11.00 p. m.—Porrect time

hie.

11 55 a m -Time signals
12 00 m - Musical program.
12 30 p m - Weather report.
1 00 p m - Providence Journal and Evening Bulletin news flashes
1 05 p m -Official market report.
1 10 p m -Good gardening
1 15 p. m. - Daily hazard report.
4 00 p m - Organ recital
4 30 p m Weather report
6 00 p m Providence Journal and Evening Bulletin news flashes
6 03 p in -Army recruiting realities revealed ning Bulletin news flashes.

Saturday.

10 40 a. m.—Providence Journal and Evening Bulletin news flashes.

10.45 a. m.—Musical program.

11 00 a. m.—Congressional Club talk.

11 5 a. m.—Radio household institute.

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

1 30 p. m.—Al Williams and his orchestra.

1 35 p. m.—Veather report.

5 p. m.—Providence Journal and Sevening Bulletin news flashes. 6 03 p in -

tra.

6 25 p m.—Providence Journal and Evering Bulletin news fiashes.

8 30 p. m.—Baseball scores.

8 35 p. m.—Wather report.

8 40 p. m.—Rhode Island Humane Education Society

8 45 p. m.—Walkikiers Hawaiians.

9 00 p. m.—Correct time

9 00 p. m.—Walkikiers Hawaiians.

9 15 p m.—Third National Oratorical contest.

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

WEAN-THE SHEPARD STORES-275

WEAN—THE SHEPARD STORES—275

Today.

11.00 a m.—Service from Mathewson Street
Methodist Episcopal Church.

2 00 p m.—Dudley radio carollers

3.00 p m.—Symphonic hour, Columbia
Chain program—Overture to "A Life
for the Czar." Glinka, United symphony orchestra, suite, "Impressions
d'Melancolique," Tschaikovsky, Victor
Bay and United symphony orchestra.
Festival at Bagdad from Symphonic
Suite, "Scheherazade," Rimsky-Korsakoff, United symphony orchestra.
Suite: "Scenes Pitteresques" (Picturesque Scenes), Massenet, Marche,
Air de Ballet, Angelus, Fete Boheme
(Bohemian Festival), United symphony
orchestra.

4.00 p. m.—Cathedral hour, Columbia

orchestra.

6 30 p m —Organ recital

7 00 p. m.—Asia Concert Orchestra.

8 00 p m —Correct time

8 01 p m —Dudley radio carollers

9 00 p m — 9 00 p m —Don Voorhees, Columbia Chain program —"Land of the Loon," Eastwood. "Dreamers's Tales,"
Norman Peterkin. "Jurame," Maria Grevia "Eastern Romance," Rimsky-Kersakoff "Westward," Cecil Burleigh "Reverie," Debussy, concert orchestra.

-La Palina hour, Columbia The Mills of the Forest Combate Song From Bulletin news flashes Friday.

10 00 p m — American Singers, Columbia Chain program overture, Compete Song From Bulletin news flashes Friday.

10 15 p m — United Military Band, Columbia Chain program overture, Compete Song From Bulletin news flashes.

10 15 p m — United Military Band, Columbia Chain program overture, Compete Song From Bulletin news flashes.

10 15 p m — United Military Band, Columbia Chain program overture, Compete Song From Bulletin news flashes.

10 15 p m — United Military Band, Columbia Chain program overture, Compete Song From Bulletin news flashes.

10 10 p m — The Providence Journal and Columbia and Columbia Colum rogram -American Singers, Columbia

sored by the Providence Better Business Bureau

p. m.—Baseball scores
p. m.—Rhode Island Medical Society talk.
p. m.—American Magazine and Woman's Home Companion hour.
p. m.—Ipana Troubadors.
p. m.—Goodrich Silverious Cuestian 12 (0) m. Ginson's program
1 (0) p. Providence Journal and Evening
Bulletin news flashes
3 (5) p. m. Official market report for Providence Market Bureau of Markets of
Rhode Island State Department of

of Rhode Island State Department of Agriculture.
p. m.—Dally fire hazard report.
p. m.—Good gardening talk.
p m.—'Conference on the Cause and Cure of War'' Luncheon under the auspices of the R. I. Pederation of Women's Clubs, R. I. League of Women Voters, W. C. T. U. Council of Jewish Women, American Associations of University Women, Women's Church Clubs Bpeaker' President Faunce broadcast direct from Narragansett Hotel.

broadcast direct from Natingansett Hotel.

p. m.—Musical program.
p. m.—Weather report.
p. m.—The Providence Journal and Evening Bulletin news fisshes p. m.—Port Arthur Orchestra
p. m.—Code instructions by radio through the courtesy of the American Radio, Relay League, Inc. nadio Relay League, Inc.
7 30 p. m.—Information service.
7 50 p m.—Sportograms.
7 55 p. m.—Daily golf lesson.
8 00 p m.—Honolulia quintet.
8 30 p. m.—Gibson's program.
9 00 p. m.—Columbia broadcasting system program.

9 00 p. m.—Columbia broadcasting system program
9 30 p m.—Columbia broadcasting system program.
10 00 p. m.—Columbia broadcasting system program.
10.30 p m.—Columbia broadcasting system program.
11.00 p. m.—The Providence Journal and Evening Bulletin news flashes.

Tuesday.
9 30 a m.—Women's Institute program conducted by June Abbott
9 45 a m.—"Swiss Maid."
10 00 a m.—Providence Journal and Evening Bulletin news flashes.

Bowen Coal Co 86 WEYBOSSET ST. Studley Bldg. Gaspee 4378



Brown University Radio Club

With short wave receiver with which they recently entertained Providence radio fans. The club was organized carly this year. Those in the picture are Front row, left to right—Abbott Hutchinson, Walter Barnes, treasurer; C. Newton Kraus, president; Frederic Dyer, vice-president; and Curtis Cushman, secretary. Back row, left to right—Robert G. Mawney, Israel Stepak, Alfonso Fascitelli, Leslie Eaton, Jr., Eugene Gerry and Ernest Hawkinson.

Radio Questions and Answers

Radio Editor, Sunday Journal: Do you think it would pay to install a crystal detector in place of a tube to obtain better tone quality? I have a six-tube receiver, with a 171 power tube and a cone speaker. The re-ception is good, but I have heard that even better results can be obtained with a crystal detector.

J. B. T.

6 05 p in -Army recruiting realities revealed
6 15 p m Peature
6 10 p m Joe McNamara and his Night
Club Band
7 10 p. m - Information service.
7 50 p m - Sportograms
7 55 p m - Daily golf lesson.
8 00 p m - Musical program
8 10 p m - Colonial Band, under the direction of Anthony Di Paima
10 15 p m Bilmore Hotel Orchestra
11 00 p m Providence Journal and Evening Bulletin news flashes.
Wednesday.
9 45 a. m.—Women's Institute program, conducted by June Abbott
10 00 a. m - The Providence Journal and Evening Bulletin news flashes.
10 00 a. m - Musical program.
11 50 a m - Musical program.
11 50 a m - Musical program.
11 55 a m - Time signals
12 00 m Gibton's program
10 p m - Providence Journal and Fvening Bulletin news flashes.
10 m - Official market report for Providence Market Bureau of Markets of Rhode Island State Department of Agriculture

10 Well vou know spa (The quality would probably be slightly better However, because the rystal is much less sensitive than the ube, you would have to turn up the volume control and thereby introduce extra distortion from another source Therefore, the improved tone quality

Radio Editor, Sunday Journal.

of Rhode Island State Department of Agriculture

enaders

p. m. Narragansett Hotel concert en-

semble.

13 0 a m. Musical program.

15 5 a m.—Time signals

12 00 m.—Musical program.

12 35 p.m.—Organ recital

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

1 05 p.m.—Official market report for Prov-

4 00 p m Musical program 4 30 p m - Weather report Continued on Page Eight.

Anthracite Coal

Guaranteed best quality Penn-

sylvania Anthracite, equal to

any sold in Providence and at

\$1.00 per ton less.. White Ash Egg, \$14.75; Chestnut,

\$15; Stove, \$15 per ton. Lehigh Egg, \$15.50; Chestnut, \$15.75; Stove, \$15.75; Pea,

\$12; delivered in your cellar.

All carefully screened. Why

pay more?

7 05 p m

Is it best to insert a whole new set of tubes in the radio outfit at once, rather than to add a new tube now and then as it seems necessary' I note some manufacturers advise a new set D. M. S. Pawtucket.

Agriculture

1 10 p m Good gardening
1 15 p m - Daily fire hazard report,
4 00 p, m - Musical program
4 30 p m - Weather report
6 00 p m - Providence Journal and Evening Bulletin news flashes
6 05 p m - WEAN dinner dance Asia Sergenders

6 05 p m - WEAN dinner dance Asia Sergenders

6 06 p m - Wean dinner dance Asia Sergenders

6 07 p m - Wean dinner dance Asia Sergenders

6 08 p m - Wean dinner dance Asia Sergenders

6 09 p m - Wean dinner dance Asia Sergenders

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6 09 p m - Wean dinner dance Asia Sergenders

6 09 p m - Wean dinner dance Asia Sergenders

6 09 p m - Wea (Well, you know spark plug makers And if you have a little spare cash and don't want to keep track of which tubes are new and which are old, it is Air de Ballet, Augustus, Air de Ballet, Augustus, Columbia Pstytish, United symphony orchestra.

Bohemian Pstytish, United symphony orchestra, Ph. m.—Cathedral hour, Columbia Bol p. m. Nicholson-Thackray Home Sweet Cassional "Lift. Dy Your Heads." The Voice of the Chimes," Luighin, orchestra, Kyrie from "Mass of the Sacred Heat." On the Columbia Broadcasting System program.

On m.—Columbia Broadcasting System program.

On m.—Columbia Broadcasting System program.

On p. —Columbia Broadcasting System program.

Inter. nevertheless, Isaum.

Iting closer and closer to the average alitie capena.

Iting closer and close certainly a good idea to put in a new set of tubes once a year. You'll surely

Would you please advise whether I will get better results by winding my coils on special insulating forms rather than on ordinary cardboard forms? P. J. H.

Rhode Island State Department of Agriculture

1 10 p m Good sardening talk.
1 15 n m Daily fire hazard report.
1 10 p m Weather report
1 10 p m Providence Journal and Evening to that they are just barely audible. However, cardboard, unless thoroughly dry and thoroughly moisture-proofed, will be a marked difference. The cardboard should be dipped in a pan of melted paraffin. This will boil out molature

All Work Guaranteed WM. E. ARNOLD WM. E. ARNOLD THE RADIO DOCTOR

All Work Guaranteed WM. E. ARNOLD converts are made to the radio craze. The old guard continues in its usual way, with never an evening passing without at least a few minutes at the dials. And so the thing grows and grows.

CAPITOL RADIO SERVICE grows.

CAPITOL RADIO SERVICE GUARANTEED WORK ON CUSTOM MADE SETS

Or Start a Fire

Another reason why the radio will paraffin. This will boil out molature

BROWN RADIO CLUB Three-Stage Amplifiers to be Discussed

at Meeting. Three-stage audio frequency ampli-

flers for use with short wave receivers will be discussed at the next meeting of the Brown University Radio Club. which is to be held in the Engineering Building of the university Tuesday night at 7:45 o'clock. The meeting will be open to the public, according to C. Newton Kraus, President.

A correctly-built three-stage amplifier will be in operation at the meeting. working in conjunction with a short wave receiver.

If time permits, there will also be a discussion of the construction and design of an "all-wave" receiver, capable of covering wave lengths from 15 to 550 metres and using the new shield grid type tube.

RADIO GROWS APACE

Air Entertainment Priceless Part Daily Life. Radio may have its ups and down

in interest, paralleling the frequency and infrequency of nation-wide radio events, but all the while certain constant features are building good will and are carrying the art forward to higher levels of usefulness. The sensationally attractive events on the air tend to make radio appear like a feast or a famine, but as a matter of family attractive events on the air tend to make radio appear like a feast or a famine, but as a matter of family attractive events on the air tend to make radio appear like a feast or a famine, but as a matter of family approximately 30 metres, is occasionally heard between the hours of approximately 30 metres, is occasionally heard between the hours of and 9 a. m. local time. The signals, however, are not of loud speakers.

tend to make radio appear like a feast or a famine, but as a matter of fact radio is a constant feast for those who are tuning in for the regular things that make up the daily bill of fare.

Take the radio set out of the home, or let it get out of order, and these constant features are missed by the average person. While listening in, they may not appreciate the value of such programs to them, but the value is there, nevertheless. Radio has been getting closer and closer to the average awave length of 18 4 metres from 8:30

listener to the real facts. When the big event is over he feels that radio has fallen back into a rut, but a week of splendid features soon offers reas-surance that radio is a steady provider

"Don't play cards with strangers

Safekote

Shingles

don't know. Go to the Safekote

dealer in your vicinity-a man whose reputation you do know. He will recommend re-

liable local contractors to lay your roof. There is no better as-

phalt roofing than Safekote. Made in New England to withstand New England climate. Safepack Mills, Millis, Mass.

SOLD BY

Frank D. McKendall, Providence, R. I. Dudley Hardware Co., Providence, R. I. Champlin Lumber Co., East Greenwich, R. I. Champlin Lumber Co., Centerville, R. I. E. M. Martin Lumber Co., Wakren, R. I. Wardwell Lumber Co., Bristol, R. I. Wakefield Lumber Co., Wakefield, R. I. C. O. Remington, Oakland, R. I. McDuff Coal & Lumber Co., Pawtucket, R. I. Gallacher & Mooney, Pawtucket, R. I. The Kennedy Corp., Danlelson, Conn.

Stations in Britain, Holland, France Heard Here Regularly

Short Wave Transmissions Providing Local Fans With Genuine DX Thrills .- 5SW, Chelmsford, England, One of Best Foreigns, Says Radio Club Head

"What are the schedules of the domestic and foreign short wave stations?"

These and many other questions are
on the lips of scores of listeners of
Providence and Rhode Island who are
considering venturing into the lower

Considering venturing into the lower

The schedule of Station 2XE is identical with that of WABC, as the two

building of a special receiver or an at- volume. tachment for the regular receiver de-

here are at least 10 stations, domestic and foreign, that can be received here they often come in with greater volume regularly and consistently with a good than the regular signals, the quality short wave set. He bases this state—of the harmonics is not so good.
ment on the results of his own observations and experiments of the last few

Station 5SW, Chelmsford, England, he says, is perhaps the most regularly re-ceived of the foreign short wave broadcast stations, as far as Rhode Island listeners are concerned. Working on a wave length of 24 metres and broad-casting the regular programs of the British Broadcasting Company, 5SW is

heard here daily, with the exception of Saturdays and Sundays.

58W is on the air at 7:30 a. m., local time, and from 3 p. m. to 7 p. m. five days of the week. The afternoon and evening programs wind up with the broadcasting of the famous Big Ben chimes in London. From 6 p. m. to 7 p. m., as a rule, dance music is broad-

Station 2NM, Caterham, England, broadcasting on a wave length of 32.5 metres, is heard quite regularly by Mr. Kraus and other short wave listeners. On Wednesdays, at 7:30 p. m., local time, 2NM transmits radio pictures and voice and on Fridays at the same hour, musical programs.

Another foreign short wave broadcast

tation, heard consistently in Providence, is PCLL, Kootwijk, Holland, the wave length of which is 18 metres. PCLL's programs are heard regularly around 10 a.m., local time, each Wednesday and at 11 a. m. each Thursday, when church services and chimes are broadcast. Broadcasting on an irregular sched-

ule, 2FC of Sydney, Australia, has been heard frequently in Providence, between the hours of 6 and 8 a. m. These broad casts are in the form of musical pro grams and come in on a wave length o 28.5 metres. Another Australian station, 3LO of

TUNE YOUR DIALS TO GA. 8640 EXPERT RADIO SERVICE All Work Guaranteed

REPAIRS ON ALL MAKES, INSTALLATIONS, ETC. 540 Smith St. Dexter 1788

We sell, service and repair all standard makes of radio apparatus.

"What can I hear if I install a short WGY program, beginning at 5 p. m., ave set?" local time, and also is on the air upon "What are the schedules of the dospecial occasions. The program sched-

regions of the radio spectrum.

Local radio experts answer by saying that there are enough short wave stations in the world today broadcasting.

The schedule of Station 2XE is identical with that of WABC, as the two broadcast simultaneously. KDKA's short wave schedule coincides. tions in the world today, broadcasting regular broadcasts, and its short wave on fairly regular schedules, to make the signals are heard here with tremendous signals are heard here with tremendous

Providence fans with short wave sets cidedly worth while.

According to C. Newton Kraus, President of Brown University Radio Club. tions, these harmonics ranging from 50 to 200 metres or thereabouts. Although

SEEKING QUARTERS

Radio Commission Must Leave Com-

merce Building. Having housed the Federal Radio Commission in the Commerce building at Washington for a year or so, it seems Hoover that he needs the space. As a result the commission is looking for quarters and is expected to move to some other building in Washington on or before July 1.

Inasmuch as the radio division of

the Department of Commerce is so closely identified with the work of the commission, Mr. Hoover has consented allow Chief Radio Supervisor Terrell to move his offices along with those of he commission.
In the beginning the Radio Commis-

sion was so utterly without funds that they had no money to pay salaries, buy chairs-much less to make expenditures for office rental. So Mr. Hoover took the commission under his wing and in addition to advancing oney for current expenses from the none too husky appropriations of the radio division of the Department of Commerce, cleared part of the fifth cor of his already overcrowded main uilding for their occupancy.

There they have been ever since. In the meantime "the child has grown" until the commission now requires 30 rooms at least to meet its needs, and having appropriations available for the purpose are now enabled to move into quarters of their own.

Misery Loves Company A Chicago dentist turns on a radio then a patient gets into his chair to have a tooth pulled. Misery loves company.—Atlanta Constitution.

CHIROPODIST PARK DAVIS 77 Washington St. Tel. Gaspee 1515

By Appointment

Marshall & Co. Authorized Radiola Service ere They KNOW The Neutrodyne R-A-D-I-O Exclusively

94 DORRANCE STREET Opp. Narragansett Hotel hammann The Walter W. Massie

Radio Sales and Service Bureau 16 Windsor Rd., Edgewood Telephone Broad 0507 MASSIE SERVICE "THE BIG 1/2"

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BUY YOUR RADIO

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LARGE VARIETY **EXPERT RADIOTRICIANS** CONVENIENT TERMS

68 YEARS OF SERVICE M. STEINERT & SONS



STEINERT BLDG.

Special Musical Features When "OLD FOGEY" Broadcasts NEXT WEDNES-DAY EVENING at 8 o'clock over STATION WLSI

Something Different Every Time Lots of Folks find these broadcasts helpful as well as entertaining. Will YOU be there?

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Welders par excellence, Bullders of Riweld (pronounced Ryeweld) Batteries, Automotive Jobbers, Oil Burner Distributors. P. S. Want the correct time? You can get it any week day between 8 A. M. and 6 P. M. at our Oll Burner Division, Valley and Ayrault Streets, at Davis Park, Gaspee 2989



Exchange St. Gaspee 5111-5415

cates of this system do not claim per-fection of audio amplification but rather emphasize the defects in radio amplification. They maintain that if there is too high an amplification in

the r. f stages, there will be a tendency to amplify a considerable amount of

noise and distortion before it reaches

the detector stage.

Just which side will come out ahead

is difficult to tell. Important work is being done by both, and each group

is represented by radio manufacturers

OLD SOL BLAMED

Sun's Bombardments Cause of Fading Radio Signals. Old Sol is getting a shady reputa-tion with the radio experts

The old boy, it seems, occasionally goes on a tantrum and bombards the earth with electrified particles which

disturb the radio atmosphere. This, scientists believe, is often responsible

for poor reception or fading.

Dr. L. W. Austin of the Bureau of

Standards, who is making a special study of phenomena, says there is a re-

lationship between solar activity and radio waves, but scientists have dis-covered no good means of measuring

"While the observation work thus far

must be considered to be in the pre-liminary stage, it seems probable that

the relations of solar activity and radio phenomena will be found to be as wor-

thy of study as those of solar activity and terrestrial magnetism," said Dr.

Signals were very weak and faded our.

Vacation Time

Have your clothes carefully Cleansed or Dved through the Eveready System.

PRIVATE WORK ONLY

of sincerity and reputation.

£,

hese effects.

RADIO PROGRAMS

Continued from Page Seven.

6:00 p. m.—Providence Journal and Evening Bulletin news flashes.
6:05 p. m.—"Uncle Red," auspices Providence Safety Council.
6:25 p. m.Radio talk by courtesy of Rhode Island Society of Optometry.
6:30 p. m.—Jimmy Walsh and his orchestra.

7:30 p. m.—Information service. 7:50 p. m.—Sportograms. 7:55 p. m.—Daily golf lesson.

8.00 p. m.—Horace Partridge, sportsman. 8:30 p. m.—Sandy MacParlene and als Chimney Swallows. 9:00 p m.—Columbia Broadcasting system program. 10:00 p. m.—Columbia Broadcasting system

program. 10:30 p. m.—Columbia Broadcasting system

10:30 p. m.—Columbia Broadcasting system program,

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

Saturday.

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

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

10:05 a. m.—Children's hour.

10:45 a. m.—'New and Attractive Merchandise,' by Evelyn Alden.

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

11:30 s. m.—Musical program.

11:55 a. m.—Time signals.

12:00 m.—Prot Arthur crchestra.

12:30 p. m.—Providence Journal and Evening Bulletin news flashes.

1:05 p. m.—Official market report for Providence Market Bureau of Markets of Rhode Island State Department of Agriculture.

1:10 p. m.—Good gardining talk.

Rhode Island State Department of Agriculture.

1:10 p. m.—Good gardening talk.

1:15 p. m.—Daily fire hazard report.

3:00 p. m.—Baseball game breadcast from Aldrich Field—Brown University vs. Providence College.

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

6:05 p. m.—Gode instructions by radio through the courtesy of the American Radio Relay League. Inc.

6:30 p. m.—Hotel Biltmore orchestra.

7:30 p. m.—Information service.

7:50 p. m.—Sportograms.

7:55 p. m.—Daily golf lesson.

8:00 p. m.—Shepard radio minstrels.
9:00 p. m.—Rhodes orchestra
10:00 p. m.—Biltmore Hotel orchestra.
11:00 p. m.—Providence Journal and Evening Bulletin news flashes.
11:05 p. m.—Jimmy Walsh and his orchestra.

WLSI—LINCOLN STUDIOS—248

10:30 a. m.—Service from First Church of Christ Scientist.
5:30 p. m.—International Bible Students' program.
8:00 p. m.—Service from the Church of the Seventh Day Adventist.

Monday
8:00 p. m.—Barrold Eddy and his orchestra.
8:30 p. m.—Catholic Charity fund speaker.

Tuesday
7:00 p. m.—Miller's dance orchestra.
8:00 p. m.—New Victor releases.
8:00 p. m.—New Victor releases.
8:30 p. m.—Catholic Charity fund speaker.

Wednesday
5:00 p. m.—Providence College orchestra.
7:15 p. m.—Organ recital.
8:00 p. m.—Rhode Island welder's program.
9:00 p. m.—Talk by Prof. Franklin N.
Strickland.

Thursday

Strickland.

Thursday

7:30 p. m.—Franklin Smith and his trio,
assisted by Hazel White, soprano.
8:00 p. m.—Mrs. Marian Tetreau, astrologist.
8:15 n. m.—Movie Club with the Twillight Hawaiian quintet, assisted by the Movie Club tenor.
8:00 p. m.—Al Blakely, the novelty man.
7:00 n. m.—International Bible Students' program. 7:00 n. m.—steinert Duo-Art program. 8:00 p. m.—Steinert Duo-Art program. Saturday

WFCI—FRANK CROOK, INC.—242

10:45 a. m.—Service of the Central Falls Congregational Church.
Monday.
2:00 p. m.—Musical program.
6:00 p. m.—Family 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 announced.
Tuesday.
2:00 p. m.—Studio program.
6:00 p. m.—Family hour.
7:00 p. m.—Baseball scores.
Wednesday.
2:00 p. m.—Eurlie and his danceland orchestra.
7:00 p. m.—Baseball scores.
7:05 p. m.—Musical program.
7:00 p. m.—Haseball scores.
7:05 p. m.—Husclad program.
7:00 p. m.—Husclad program.
7:00 p. m.—Studio program.
7:00 p. m.—Highland four.
7:00 p. m.—Highland four.
7:00 p. m.—Baseball scores.
7:05 p. m.—Highland four.
7:00 p. m.—Baseball scores.

200 p. m.—Studio program.
6:00 p. m.—Highland four.
7:00 p. m.—Baseball scores.
7:05 p. m.—Exide Battery boys.
Friday.
2:00 p. m.—Musical program.
6:00 p. m.—Family hour.
7:00 p. m.—Reo Wolverines.
8:00 p. m.—Pawtucket Boys' Club harmonica band. monica band. Saturday.

6.00 p. m.—Family hour. 7:00 p. m.—Baseball scores.

Tuesday.

2.30 p. m.—Studio program.

7.30 p. m.—Loretta's Moonlight Maids.

Wednesday.

2.30 p. m.—Studio program.
7:30 p. m.—Studio program.
7:30 p. m.—Arthur Guilmet, tenor.
Thursday.
2.30 p. m.—Studio program.
7:30 p. m.—Olympia radio studio ensemble.
Friday.
2:30 p. m.—Organ recital.
8:00 p. m.—Organ recital.
8:00 p. m.—Program by Wesleyan Church of the Nazarene.
2:30 p. m.—Francis Connell, harmonica artist.

7.30 p. m.—Rooney's Pioneer entertainers.

**RDRA—PITTSBURGH—316.

10.45 a. m.—Correct time.

11:00 a. m.—Church service.

2 00 p. m.—Roxy and his gang.

4:00 p. m.—Correct time.

4 00 p. m.—Organ recital.

4.45 p. m.—Service from Shadvside Presbyterian Church.

6.03 p. m.—Baseball scores

6:15 p. in.—Symphony orchestra.

6:30 p. m.—Cook's travelogue

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

WAAM-NEWARK-349.

speaker
3:50 p. m.—Golembiewski Trio.
4:00 p. m.—Kane, Gildey and Scott.
4:30 p. m.—Lyric quartet.
5:10 p. m.—Edward Farley, pianist.
5:30 p. m.—Jubilee quartet. WBAL-BALTIMORE-286.

WBSO-BABSON PARK-286. 12.00 m -Midnight ministry.

WBZ-SPRINGFIELD-333.

WBZ—SPRINGFIELD—333.

10 45 a. m.—Bervice from South Congregational Church.

2 00 p. m.—Roxy and his gang.

3 00 p. m.—Moe Mitchell Chapple

4.00 p. m.—American Legion hour.

5 30 p. m.—National religious services.

6.30 p. m.—Mitchel Ahern, baritone, and Anne Cuillinane, pianist.

7:00 p. m.—Correct time and baseball scores.

7:06 p. m.—Blue and gold hour.

7:40 p. m.—Public opinion.

8.15 p. m.—Public opinion.

8.15 p. m.—Collier's radio hour.

9 15 p. m.—Tango orchestra.

9 45 p. m.—Phantom and shadow.

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-notes wave length. The hours are based on Eastern Daylight Saving Time. 5 10-Music, WAAM, 349 5 15—Talk, WOR, 422. Church, WPG, 273. Music, WRNY, 326. LOCAL STATIONS 5.30—Church, WBAL, 286; WJZ, 454; WBZ, 333; WHAM, 280, Music, WEAF, 492, WGY, 380, WEEI, 448, WAAM, 349

LOCAL STATIONS

10.30—Church, WISI, 248.
10.45—Church, WFCI, 242.
11:00—Church, WEAN, 275.
1:30—Concert, WCOT, 225.
2:00—Music, WEAN, 275.
Talk, WCOT, 225.
3:00—Music, WEAN, 275.
Conference, WJAR, 484.
4:00—Music, WEAN, 275.
Conference, WJAR, 484.
6:00—Band, WJAR, 484.
6:00—Band, WJAR, 484.
6:00—Band, WJAR, 484.
7:30—Concert, WJAR, 484.
7:30—Concert, WJAR, 484.
8:01—Music, WEAN, 275.
Church, WISI, 248.
8:01—Music, WEAN, 275.
Talk, WJAR, 484.
9:15—Orchestra, WJAR, 484.
9:30—Music, WEAN, 275.
10.00—Music, WEAN, 275.
10.00—Music, WEAN, 275.

EASTERN STATIONS

9.00—Children's hour, WJZ, 454: WPAP, 353.
Feature, WCSH, 362.
9:30—Church, WKBW, 217.
10:44—Chimes, WEEI, 448.
10:45—Church, WGR., 303. WKBW, 217. WEEI, 448.
11:00—Church, KDKA, 316. WDRC, 283. WQAO, 395. WAAM, 349. WCSH, 362; WHAM, 280: WGY, 380.
12:00—Church, WRC, 460.
12:30—Organ, WHN, 396.
1:00—Feature, WJZ, 454: WHN, 396. Music, WEAF, 492. WRC, 469. Organ, WKBW, 217.
1:30—Church, WCSH, 362.
2:00—Church, WCSH, 362.
2:00—Church, WEAF, 492. Orchestra, WHN, 396. Feature, WICC, 265. Music, WIAM, 280. Roxy and his gang, KDKA, 216. WHA, 230. EASTERN STATIONS

Feature WICG, 265.

Muslc, WHAM, 280.

Roxy and his gang KDKA, 316. WBZ, 333: WJZ, 454: WRC, 469

2.30—Sunday school, WOO, 349.
Church, WCSH, 362.
Muslc, WICC, 265
3:00—Feature, WQAO, 395
Muslc, WBZ, 333: WRNY, 326: WOR, 422
Talk, WGY, 380.
Ensemble, WJZ, 454.
Conference, WEAF, 492. WCSH, 362: WTIC 535: WICC, 265.
Ohurch, WRC, 469.
3:10—Muslc, WRNY, 326.
3:15—Organ, WPG, 273.
3:20—Muslc, WRNY, 326.
3:25—Muslc, WRNY, 326.
3:25—Muslc, WRNY, 326.
3:50—Muslc, WRNY, 326.
3:55—Vespers, WJZ, 454.
WKBW, 217: WRNY, 326.
3:55—Vespers, WJZ, 454
4:00—Organ, KDKA, 3:16: WHAM, 230.
Conference, WEAF, 492: WGY, 280: WTIC, 535: WTAG, 5:17: WCSH, 362: WGR, 303. WEEL, 448
Muslc, WOR, 422: WAAM, 349:

448 Music, WOR. 422: WAAM, 349; WICC, 265, WRNY, 326. WICC, 265. WRNY, 326. Band, WBZ, 333. 4:15-Music, WPG, 273: WRNY, 326 4.30-Feature, WHN, 396: WAAM, 349. Church, WFI, 405: WHAM, 280

10:00 p. m.—Correct time.
10:01 p. m.—Continuation of program.
10:15 p. m.—News.
10:20 p. m.—Baseball.
10:25 p. m.—Musical program.
11:00 p. m.—Correct time and weather reports.

WDRC—NEW HAVEN—283.

11:00 a. m.—Service from the Church of the Redeemer

12.00 m.—Correct time.

WCSII-PORTLAND-362.

9:00 a. m.—13 class. 11:00 a. m.—State Street Church service. 1:30 p. m.—Radio Parish Church. 2:30 p. m.—International Bible Students'

ence under the direction of the Greater New York Federation of

Ohurches.
p. m.—Men's Conference, Bedford
Branch, Y. M. C. A.
p. m.—String ensemble with Ivor

gion band.
7:00 p. m.—Hans Barth, concert planist.
7:30 p. m.—Capitol Theatre program
9:00 p. m.—'Our Government," by David
Lawrence.

WEEI-BOSTON-118
a. m.—Westminster chimes.
a m.—Service from First Church of Christ Scientist.

WFI-PHILADELPHIA-405

4 30 p m—Chapel service under the auspices of the Church Federation of Philadelphia.

Philadelohia.

6:00 p. m.—Weymouth Post American Legion Band

7:00 p. m.—Baseball scores

7:05 p. m.—Hans Barth, concert planist.

7:30 p. m.—Service from Arch Street Pres
byterian Church

WGBS-NEW YORK-349.

p. m.—Konevsky Trio
p. m.—"Achievement Day Period,"
tributes to modern heroes and heroines, by David Rosenthal
p. m.—Konevsky Trio
p. m.—Euett Hugh Duncan Grant.
p. m.—"Voodoo," the first negro grand
onera

9:15 p m.—Organ recital 9:45 p. m.—Biblical drama

Weymouth Post, American Le-

program.

3:00 p. m.—Same as WEAF.
4:00 p. m.—Same as WEAF.
6:00 p. m.—Same as WEAF.
9:00 p. m.—Same as WEAF.
9:15 p. m.—Strand Theatre organ.

4 45—Vespers, KDKA, 316, Music, WRNY, 326 5:00—Music, WICC, 265, WRNY, 326, Church, WRC, 469, Orchestra, WHN, 396.

6.45-Music, WRNY, 326 6.00—Band, WEAF, 492; WGR, 303; WCSH, 362, WTAG, 517, WFI, 405, WTIC, 535; WEEI, 448, Lecture, WRNY, 326; WAAM, 340 Music, WGY, 380. WRC, 469. Organ, WOO, 349.

6 08—Baseball scores, KDKA, 316. 6 15—Orchestra, KDKA, 316 6 30—Travelogue, WJZ, 454; KDKA, 316. WHZ, 333 Forum, WHAM, 280. 7.00—Music, WGY, 380: WBAL, 286: WTIC, 535: WHAM, 280: WHN, 396. 396. Baseball scores, WEAF, 492. WTAG, 517. WGR, 303; WBZ, 333. Church, KDKA, 316. WKBW,

Organ, WJZ, 454. 7:05-Music, WJZ, 454: WEAF, 492: WFI, 405: WTAG, 517.

7:55—Music, WJZ, 454: WEAF, 492: WFI, 405: WTAG, 517.

7:06—Music, WBZ, 333

7:15—Church, WIP, 349

7:19—Chimes, WEEI, 448.

7:20—Music, WTIC, 535

7:25—Music, WIIAM, 280.

7:30—Music, WEEI, 448

Church, WGR, 303, WFI, 405; WQAO, 395

Capitol Theatre program, WEAF, 492, WRC, 469, WTAG, 517, WTIC, 535

7:40—News, WBZ, 333

7:45—Feature, WBZ, 333, WOR, 422, 8.00—Music, WEEI, 448, WJZ, 454; WHAP, 236

Church, WLWL, 270

8:15—Music, WIAW, 270

8:15—Music, WHAP, 236

Music, WTFF, 203

Music, WHAP, 236

Music, WHAM, 280

Peature, WOR, 422, WTFF, 203

Music, WHAM, 280

203. Music, WHAM, 280. Music, WPG, 273. WEEI, 448. 9·10—Music, WPG, 273. WEEI, 448. 9·15—Organ, WCSH, 362. WFI, 405. Church, WTFP, 203. Atwater Kent hour, WEAF, 492. WGY, 380. WRC, 469. WGR, 303. WEEI, 448. Baseball scores, WTIO, 535. Music, WGBS, 349. WBZ, 333. KDKA, 316. WJZ, 454. WTAG, 517.

9 30—Reader, WHAP, 236, WGBS, 340, Music, WOR, 422, WTFP, 203, 9 45—Music, KDKA, 316; WJZ, 454, WGBS, 349, WEEI, 448, WBZ, 333
Drama, WEAF, 492, WFI, 405, WGY, 380
Talk, WTFF, 203, 10:00—Music, WOR, 422, KDKA, 316, WHN, 396; WPG, 273, WHAM, 280; WJZ, 454, WTFF, 304, Talk, WGBS, 349, 10:01—Music, WBZ, 333 10:01-Music, WBZ, 333

10 15—Band, WOR, 422.

Music, WJZ, 454, KDKA, 316
WGRS, 349, WTFF, 203:
WKBW, 217
Drama, WRC, 469.
10 20—Baseball, WBZ, 333,
10 25—Music, WBZ, 333,
10 30—Travelogue, WTFF, 203,
11 00—Organ, WHN, 296.
Music, WTFF, 203
11 15—Music, WTFF, 203
11 30—Orchestra, WHN, 296,
12 00—Church, WBSO, 384
Orchestra, WHN, 296.

DISTANT STATIONS 12.45—Feature, WGHP, 277. 1:00—Music, WTMJ, 294. 2:00—Roxy and his gang, KYW, 526: WOC, 294, WRC, 353, WTMJ,

400
Muslc, KFI, 469
7 45—Muslc, WLW, 428, WJR, 441
7 50—Orchestra, WMAQ, 448
8.00—Muslc, KFI, 469; KMTR, 526, WTMJ 294 WTAM, 400.
Talk, WMAQ, 448
8 03—Muslc, WSAI, 361.
8.15—Colller's radio hour, KOA, 326; KYW, 526; WJR, 441, WLW, 428

MUSIC - WWJ. 375: WTAM, 400.

9 15 - Talk, WTMJ, 294; KFI, 469
Music, WJR, 441, WLW, 428,
KOA, 326
Atwater Kent hour, WSAI, 361, KGO, 384, WSM, 341,
WSB, 476; WWJ, 375; WOC.
375; WCCO, 400
9 17—Talk, KYW, 526
9 30—Music, KPI, 469.
9:37—Music, KYW, 526
9 43—Music, WC, 375, WCCO, 405
10 15—Music, WC, 375, WCCO, 405
10 15—Music, WMQ, 448, WSAI, 361,
WLW, 448,
Drama, WSAI, 361; WTAM, 400

103 Aug. 1 Aug.

The Buttle of Theories.
Radio is filled with minor warfares regarding theories, circuits and the various other features of set construc-

7.00 p m.-Old World Cathedrals.
7:20 p m —Arthur Arbour, planist,
7:30 p m —Same as WEAP.
9:15 p. m — Baseball scores and correct time.

One of the current topics of contention is the question as to which is preferable: major amplification in the

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Head of Riding Horses Consisting of Show Ring Horses, imported Irish Hunters, School Horses, and Children's Ponies. Mr. John Ridihough of Blackpool, Eng., has 12 head of horses right from the hunting fields of Ireland.

Down Stag Hounds.

6 6 PAPK SOD been milit by 18 been hunted but brilliant performer No 12 ISLE bay gelding, 4 yrs, 16 been hunted but brilliant performer No 12 ISLE bay gelding, 4 yrs, 16 been hunted but brilliant performer No 12 ISLE bay gelding, 4 yrs, 16 been hunted but brilliant performer by 18 been hunted but brilliant performer by 18 been hunted but brilliant performer hunted but brilliant per

A few of the Top Saddle Horses include Crance Shot, bay gelding, 15-1 hds (8 times shown -8 bine ribbons), ridden by lady Silver Glow, grey gelding, 15-2 hds, 6 vrs. one of the finest prospects we believe in America today, Roseberry, roan marq, 15-2 hds, four white feet and face, goes a sensational trot with the best of manners. A host of near Show Horses that are excellent backs. Several head of children's ponies, etc.

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This property will be sold without limit or reserve of any kind to the highest bidder. It consists of a large three-story building suitable for jewelry or other manufacturing purposes. Also a cottage, both in the very best of condition.

The sale will take place rain or shine.

It is an exceptional opportunity to secure a good manufacturing site within five minutes walk of the center of Providence at a very low price.

radio frequency stages or in the audio amateurs being able to hear only frequency stages. Some of the designers feel that the proper place for the major amplification of the incomthe major amplification of the incoming signals is in the radio frequency strength.

avor of amplification at radio frequency, but rather this plan is favored by its advocates because it avoids certain difficulties in audio amplification, such as distortion and some of the peculiarities which come with power amplification. But there is another side to the question.

Let us contact with a Be sure your storage battery charger is really charging. Only too often the storage battery terminals are so corroded that it is impossible to make a good electrical contact with them, so that no current is actually flowing into the battery. Again, the storage battery charger is really charging. Only too often the storage battery charger is really charging. Only too often the storage battery terminals are so corroded that it is impossible to make a good electrical contact with them, so that no current is actually flowing into the battery. Again, the storage battery charger is really charging. Only too often the storage battery terminals are so corroded that it is impossible to make a good electrical contact with them, so that no current is actually flowing into the battery. stages before the detector stage is amplification. But there is another side to the question.

Let us consider the views of the advocates of audio frequency amplification as the major factor in bringing the weak radio signals back into light. Here one finds similar reasoning, although of course from the other angle. Advocates of this system do not claim personal control of the system do not claim personal control of the current is actually flowing into the battery. Again, the storage battery recharger may not be working properly, this being especially true of the vibrator type which must be actually flowing into the battery. Again, the storage battery recharger may not be working properly, this being especially true of the vibrator type which must be actually flowing into the battery. Again, the storage battery recharger may not be working properly, this being especially true of the vibrator type which must be actually flowing into the battery. Again, the storage battery recharger may not be working properly, this being especially true of the vibrator type which must be actually flowing into the battery. Again, the storage battery recharger may not be working properly, this being especially true of the vibrator type which must be actually flowing into the battery. Again, the storage battery recharger may not be working properly, this being especially true of the vibrator type which must be actually flowing into the battery.

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> $ot\!$ Ardrey **8**Adams

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Austin
"The most severe magnetic storm of the year was recorded at the magnetic $S_{\text{ 11 So.}}^{\text{MITH-}}G_{\text{ Main}}^{\text{IBBS}}C_{\text{St.}}^{\text{O.}}$ observatory of the United States Coast and Geodetic Survey at Cheltenham, Md. Oct 12. It was reported as gen-erally a bad night for radio reception.



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CHOCORUA, N. II.

Delightfully situated in the foothills of the White Mountains overlooking beautiful Lake Chocorua.

An ideal place for a summer vacation, Well located for the tourist stop—on main road to Bretton Woods, Boating, bathing, tennis, mountain elimbing.

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Christian Clientele
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a. m.—First Presbyterian Church speaker

5:30 p. m.--National religious service. 7:00 p m.--Concert orchestra.

9:15 p. m.—Atwater Kent hour. 9:45 p. m.—Correct time. 10:45 p. m.—Biblical drama. 2:00 p. m.—Virginian troubadours WCOT—CONN'S OLYMPIA—225
Today,
1:30 p. m.—Wallana Hawalian troupe,
2:00 p. m.—Jacob Conn on current events.
Monday,
2:30 p. m.—Studio program.
7:30 p. m.—Blanchard's better be protected hour.

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

3:30 p. m.—Sam Curtis radio chat
4:00 p. m.—Dr. S Parker Cadman, Bed10rd Branch, Y. M. C A.

5:30 p. m.—Musical program.
6:00 p. m.—Weymouth Post No. 79, American Legion band
7:19 p. m.—Westminster chimes
7:20 p. m.—News dispatches
7:20 p. m.—John Orth, planist
8:00 p. m.—Sager hour of hospitality.
9:00 p. m.—Newspaper sidelights.
9:10 p. m.—Masterpiece, planist.
9:15 p. m.—Alwater Kent hour
9:45 p. m.—Biblical drama.
10:15 p. m.—Correct time.
10:16 p. m.—News despatches.

OUT OF TOWN STATIONS To-Day

KDKA-PITTSBURGH-316.

WGR—BUFFALO—303

10 45 a. m.—Service from Westminster Presbyterian Church

12 00 m.—Weather and correct time re4 00 p. m.—Same as WEAF

6 00 p. m.—Same as WEAF

7 30 p. m.—Service from Central Presbyterian Church

9 00 p. m.—Same as WEAF

9 15 p. m.—Same as WEAF 7:00 p m.—Service from Carvay Episochurch.

8:15 p. m.—Collier's radio hour.

9:15 p. m.—Utlea jubilee singers.

9:45 p. m.—High spots of melody.

10:00 p. m.—Correct time.

10:15 p. m.—Don Amaizo, the wizard.

10:45 p.' m.—Baseball scores.

WHAM—ROCHENTERCEN,
m—Morning church service,
m.—"Down Melody Lane"
m.—Popular concert
m.—Musical milestones
m.—National religious service.

WHAP-NEW YORK-236, p. m—Sacred choral musle p m.—Augusta E Stetson, C S. D. Christian Science reading from the writings of Mary Baker Eddy, and re--Sibyl Marvin Huse, religious WHN-NEW YORK-306.

WHAM-ROCHESTER :280

WIN-NEW YORK—306.

12 30 p. m.—Organ recital
1.00 p. m.—'Three Little Sachs,"
2 00 p. m.—Orchestra.
4.30 p. m.—Alexander Light, emin
Shakespearean actor and scholar
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. 2 00 p. m.—Orchestra 2 30 p. m.—Melrose Four 3:00 p. m.—Studio program. 4 00 p. m.—American Legion hour 5.00 p. m.—Tans WIP-PHILADELPHIA-349.

7:15 p. m.—Service from Holy Trinity Church. WJZ-NEW YORK-154. WJZ-NEW YORK-454.

9'00 a. m.—Children's hour
1:00 p. m.—Concert orchestra.
2:00 p. m.—Encount of the masters
3:00 p. m.—Ensemble.
3:10 p. m.—Music of the masters
3:55 p. m.—St. George's Church vesper
service.
5:00 p. m.—National religious service.
6:30 p. m.—Cook's travelogue.
7:00 p. m.—Correct time
7:00 p. m.—Baseball scores and summary
of programs.

9.15 p. m.—Same as WEAF.

9.15 p. m.—Stream Theatre organ.

WEAF—NEW YORK—192.

1.00 p. m.—Hour of chamber music with Katherine Palmer, soprano.

2:00 p. m.—Interdenominational Church service 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 ence under the direction of the conference under the direction of the conference

WLWL-NEW YORK-370 m.-Service from Paulist Church. WOO-PHILADELPHIA-349 10 45 a. m.—Service from Bethany Pres. byterlan Church. 2 30 p m.—Sunday school. 6 00 p. m.—Organ recital.

WOR-NEWARK-422
3 00 p m.-Symphonic hour.
4.00 p. m.-Cathedral hour.
7 45 p. m.-Vesper organ.
8 45 p. m.-Randall Hargreaves, song dis-9 00 p. m.—Same as WEAN. 9 30 p m —Same as WEAN

10 00 p. m —Same as WEAN. 10.15 p. m —Same as WEAN 9 00 p. m.—Childrens' hour.

WPG-ATLANTIC CITY-273 3 15 p. m - Organ recital
4 15 p. m - Community vocal and instrumental recital. p m.—Religious service p. m.—News flashes and baseball scores.

9 10 p. m.—Concert orchestra. 10 00 p. m.—Sunday evening musical. WQAO—NEW YORK—395

11 00 a. m—Calvary morning services.

3 00 p. m—Inspiration hour.

7 30 p m—Calvary evening services.

WRC-WASHINGTOY-169 WRC--WASHINGTON--160

12 00 m --Church service.

1 00 p m.--Chamber music.

2 00 p. m.--Roxy and his gang.

3 00 p. m.--Interdenominational church service

5 00 p m --Service from Washington Cathedral.

7 30 p m -- Same as WEAF.

9 15 p. m.--Correct time.

9 15 p. m.--Same as WEAF.

10 15 p. m. Biblical drama.

10 45 p. m --Weather forecast.

WRNY-NEW YORK-326 WRNY—NEW YORK—326

p. m.—Eibert Haskins, tenor.

p. m.—Charles Dawson, baritone

p. m.—Concert trio

p. m.—Rose Ridner, soprano.

p. m.—"Y" hymn sing.

p. m.—Pauline Watson, violinist.

p. m.—Princess Georges Matchabelli.

p. m.—Vera Jahless, plantst

p. m.—Wera Jahless, plantst

p. m.—Mery Colombati, and assisting artists.

p. m.—Little Journeys Into Great

American Industries

WTAG-WORCESTER-517
4 00 p m-Men's Conference from Bedford Branch.
6 00 p m-Weymouth Post American Leglon Band
7 00 p. m-Baseball scores.
7 05 p. m.-Organ recital
7 30 p. m-Same as WEAF
9 00 p m.-Same as WEAF
9 15 p m.-Correct time.
9 15 p. m.-Concert
10.00 p. m-News bulletin WTAG-WORCESTER-517

WTFF-WASHINGTON-203
8.30 p m - Sacred song quartet
9.00 p. m. - Vesper service by William Moore Moore
9 15 p m - Little Village Church service
9 30 p. m - Trombone and voice duet. 9 15 p m — Little Village Church service
9 30 p m - Trombone and voice duet.
9.49 n m — Bible talk by Dr John Olin
Knott.
10 00 p m — H H Godfrey, tenor
10 15 p m — Cold time hymns.
10 30 p m — Travelogue by Dr John Olin
Knott.
11 00 p m — Staff planist
11 15 p m — Choir service
12.00 p. m — WTFF goodnight

WHIC-HARTFORD-535

3 00 p m.—National Youth Conference 4 00 p m.—Men's Conference 6 00 p. m.—Weymouth Post, American Le

tion. It is well to know that some of these trade battles exist, for through these trade battles exist, for through them the radioist comes to know more about his own set.

of horses right from the hunting fields of Ireland.

No 1—EMERALD, brown mare, 7 yrs. old, 1612 hds, sire John May; dam, Baron's Heir, Hunted two seasons with County Down Stag Hounds. A top heavyweight

No 2—SHANNON roan gelding, 7 yrs. 16-1 hds, sire, Don Juan, dam, Welbourne Hunted two seasons with County Neath Hounds.

No 3—WHITE CHAPEL, grey gelding, 6 yrs, 16 hds, sire by Druce by Persimmons Hunted last season with Longford Harriers

No 4—ST MICHAEL, brown gelding, 7 yrs, 16 hds; sire Sandstone Hunted two seasons with Limerick Hounds

No 4—ST MICHAEL, brown gelding, 7 yrs, 16 hds; sire, Sandstone Hunted two seasons with Limerick Hounds

No. 10—ST ANNE bay mare, 6 yrs, 16

Harriers.

No. 9 - SILVA FOX: grey mare, 6 yrs. 16 hds, sire by Druce by Persimmons Hunted last season with Long-ford Harriers.

No. 9 - SILVA FOX: grey mare, 6 yrs. 15-2 hds., sired by Oppressor. Carried lady last two seasons with Limerick Hounds.

No. 10 - ST ANNE bay mare, 6 yrs. 16 hds; sire. Flying Hackett Carried a lady all last season with County Down Stag Hounds.

No. 10 - ST ANNE bay mare, 6 yrs. 16 hds; sire. Flying Hackett Carried a lady all last season with County Down Stag Hounds.

No. 10 - ST ANNE bay mare, 6 yrs. 16 hds, sire Thorry, dam, Santor. Never been hunted but brilliant performer.

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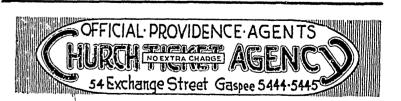
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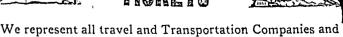
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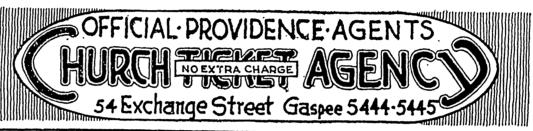
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ANNOUNCES PLANS OF RADIO DIVISION

Chief Contemplates Purchase of New Measuring Devices.

The Radio Division of the Depart ment of Commerce expects to be of much greater assistance to the broadcast listeners and station owners, as well as to the owners and operators of other types of transmitting apparatus, including the very long and short waves, according to W. D. Terrell, chief of the Radio Division. Mr. Terrell made this announcement

he is making for the opening of the radio season again in the autumn.
He expects to accomplish

through the purchase of more precise frequency measuring apparatus, for one thing, and through the use of the new field intensity measuring equipment just recently developed for the division. This measuring apparatus, which the division contemplates procuring, will be much more accurate than any apparatus of this kind used heretofore.
"The field strength measuring equip-

ment will be used on test cars operated pervisors of radio headquarters." said Mr. Terrell. "The purpose of the field intensity measuring apparatus is to determine whether a broadcast station eliably serves the area in which it is located. With this equipment it will also be possible to ascertain from a distance whether a station is operating on the power authorized by the Federal Radio-Commission." The division has four test cars, Mr

Terrell explained, at the present time in the field and expects to have two more during the coming year. In addition to the field strength measuring apparatus with which all of these cars apparatus with which all of these cars are to be equipped, there will be what is known as secondary standards of frequency, and with this frequency merauring apparatus it will be possible to very accurately determine the frequency on which any radio transmitter operates throughout the entire radio frequency spectrum. It is expected that eventually every supervisor's office as eventually every supervisor's office, as well as each sub-office, will be equipped with secondary frequency standards and radio test cars.

"In addition to the test cars, field

intensity measuring apparatus and the secondary standards already men-tioned," said Mr. Terrell, "the division further contemplates the acquiring of primary standards of frequency capable of an exceptionally high degree of re-curacy over the entire usuable radio frequency spectrum. The location of these frequency standards will be de-termined by the number that can be secured. If but one is obtained, this will undoubtedly be placed in the secured. If but one is obtained, this will undoubtedly be placed in the central part of the United States; if two are procured, they will undoubtedly be placed on the East and West coasts, and, if three, they will be placed on the East and West coasts and one in the central part of the country.

"With this apparatus and the received

With this apparatus and the receiv "With this apparatus and the receivers uted in conjunction therewith, it will be possible, and it is contemplated to monitor the high frequency as well as the low frequency stations of the world. As an example of what may be accomplished with this equipment, it will be easily possible to determine what transmitting station of the world is causing interference with the rewhat transmitting station of the world is causing interference with the reception of any station in the United States, regardless of the location of the interfering station, whether it be in Hawaii, the Philippine Islands or at any other point in the world."

Mr. Terrell stated that the apparatus will be equipped with automatic results.

will be equipped with automatic corders for the interception of call let-ters and communication from transmitting stations using high-speed transmitters of the automatic type.

It may be found necessary, he said, to maintain a 24-hour watch at the primary standards of frequency stations, and at the points where only secondary standards of frequency are secondary standards of frequency are maintained, a watch will probably be kept only during the afternoon and night. At the present time this night work is being done by the regular inspectional force after their day's work is finished and without any additional compensation.

NEW RADIO PHASE

"Interruption Insurance" Considered by Broadcasters,
So gigantic has chain broadcasting

become that sponsors of the national programs are scanning the horizon for an opportunity to protect themselves or rather their investment, when on

To put on an expensive program with no assurance that an ether disturbance or a breakdown of the land wires will not cause an interruption, indeed is gamble. Broadcasting for promotional purposes has become a business, and like other branches of comemicial activity, protection is the watchword. The manufacturer has his use and occupancy insurance, the outdoor entertainment promoter his rain coverage and the merchant his various forms of protection to guard him against loss of his investment. But what has the radio sponsor?

radio sponsor?

He pays for his time. He engages his talent. The show goes on the air, and, while he is paying a large sum, almost anything may happen. A whole section of the country may be cut off. Hundreds of thousands of listeners may be left without the program if one of the stations of the chain runs into difficulty. Static may mar the program for a million listeners or more.

But the broadcaster pays, and the manney expended may represent a definite loss. The program sponsor does not seek indemnity for loss of profits should the etherial affair prove to be a failure, but he does feel that he is

a failure, but he does feel that he is cutitled to some form of protection rgainst loss of the money he invests

his national hour. In his national hour.

One of the leading air users recently risked an expenditure of a thousand dollars a minute with no assurance that everything would go through as planned. Llevel of Federal through as Lloyds of England was consulted in this connection and were willing to gamble, but the premium for "interruption insurance" proved to be

IT DOESN'T take pull to get a good job. It takes just enough push to lead one through the classified ads regu-

Vagrant Waves of Interest to Fans

A Coast Guard seaplane, operating off the coast of Florida, was heard by the Block Island radio station, 1200

The building of Grundtvigkirchen, Copenhagen's newest church, in the shape of a great pipe organ suggests that the next broadcasting station be built to resemble a huge microphone.

It has been said that the World War probably did more than anything else advance wireless.

A Coast Guard Gulf Division radio station has been opened at Mobile, Ala., with the call letters NCK.

Showing the Australians are not far behind. Station 3LO in Melbourne has an electric sign in the shape of a huge microphone over its entrance. This is

The Institute of Radio Engineers now has more than 4000 members

A new direct channel between New York and Lisbon is the latest develop-

A persistent singing sound in a cone loud-speaker is sometimes due to the vibration of the driving rod. This may be cured by slipping a piece of gum rubber over the driving rod so as to stiffen it and weight it down to prevent vibration on its own account. This also results in a lowered pitch, with a marked gain in bass notes.

The weather bulletins previously transmitted by Eiffel Tower station in

Paris on 75 metres are now broadcast on 75.5 metres.

The call letters of the Arpoador sta Always put the newer tubes in the

To avoid trouble in making externa connections between receiver, amplifier and batteries or radio power units, always make a knot at the end of the wire representing positive or plus polarity. This is a ready means of identifying connections and saves much

If you are using an A eliminator ci denser type, by all means give it enough air. Don't close it up in the compartment of the radio cabinet.

Amateur radio clubs are becoming popular in South Africa.

BUILDING PERMITS

Two Public Garages Prominent Among New Building Projects.

Two public garages, one to accomnodate 30 cars and the other 20, were among the building projects for which permits were granted at the City Hall during last week. The larger was listed for Flore Lepore, at 461 Douglas wenue, and is to be used for both garage and repair purposes. The other, to be built for Maria Mambra, will be located at 305-309 Knight street. On the list also were six dwellings of two tenements each, 16-42 Matson avenue, n the name of Harry K. Nahigian, and our dwellings of three tenements each, 27-53 Pleasant street, in the name of Benjamin Rakatansky. The dwellings will all be of wood construction. Of the permits granted 21 were for dwellings and 15 for garages.

Last week's permits: DWELLINGS Emelio DiFusco, 288 Academy ave-

Eugenia R. Letourneau, 30 Freese (avenue; six dwellings; two tenements

Harry Rakoff, 123 Woodbine street me-tenement wood. Patrick Connor, 18 Elmcrest avenue

Patrick J. Brennon, 47 Nelson street; ne-tenement; wood Alfred Gail, 25 Metropolitan road

Benjamin Rakatansky, 27-53 Pleasant street; four dwellings; three tenenents cach; wood. Harry B. Mead. 760 Elmgrove avenue; one-tenement; wood.

Edward A. McLaughlin, 24 Clare nont avenue; one-tenement; wood. R. G. Cogswell, 147 Dover street; one-Silvio Bertoncioni, 799 Manton

ue; one-tenement; stone Samuel Bornstein, 146 Washington Joseph Ricci, 433-435 Charles street; two tenements; wood. Edwin and Grace II. Johnson, 6

Stamford avenue; one-tenement; wood. Leo Venagro, 39 Clematis street: one-Harry K. Nahigian, 16-42 Matson

each; wood. Melissa S. Moore, 170 Evergreen street; one-tenement; wood.

James Rozzi, 88 Academy avenue; two-story building, one-tenement and tores.
Domenic Annotti, 254 Pleasant Val-

Lillie H. Stone, 32 Jewell street; one-tenement; wood.

Harry C. Messenger, 214 Angell street; one-tenement; wood.

Oswald J. A. Boiven, 606 Public street: two-car; steel. Hugh and Mary McPhillips, 140 Point street; one-car; steel. Kapriel Tomasian, 11 Waverly street; wo-car; cement.

GARAGES

Boss & Seiffert Company, Inc.; 25 Calhoun avenue: four-car; cement.

John McLaren, 22 Candace street;
four-car; cement.

Flore Lepore, 461 Douglas avenue; 30-car garage and repair shop. Marle Callaurie, 243 Carpenter street; four-car; cement. Frank H. and Francis Mallory, 260 Rankin avenue; one-car; wood.

Maria Mambra, 305-309 Knight street; 20-car garage and workshop;

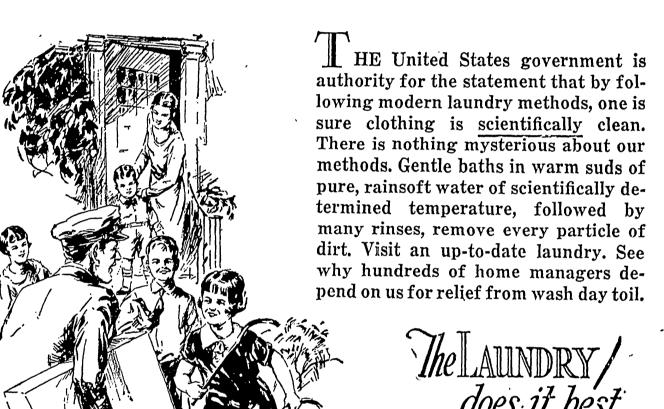
H. M. DAVIS & CO. Landscape Engineering

Lawns Cared for, Grading, Trees Trimmed-Loam and Sods NURSERY STOCK FOR SALE (Nursery at Newport)

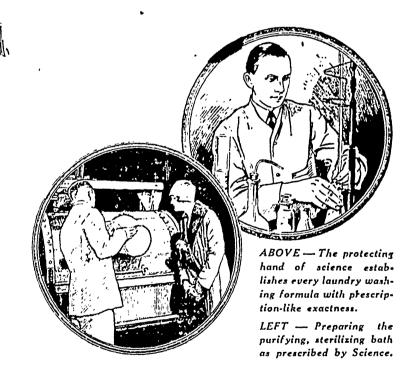
Let Us Give You an Estimate on Your Work. All Work Guaranteed.

47 Warren Ave., East Providence TEL. EAST PROV. 2836-W

Laundry-washed clothes are cleaner



MODERN laundries offer a variety of services to suit every family need. All-ironed work, partially-ironed work, and work which returns clothes damp for ironing, are but a few of the many individualized services available at laundries today. Phone a modern laundry nowlet them help you decide which service is best suited to your needs.



These Providence and Pawtucket Laundryowners Are Keeping You Posted on Laundering Progress

Allendale-Riverside Laundries 610 Woonasquatucket Ave., Centredale, and 16 First St., Riverside

> American Hand Laundry 162 Somerset St.

Colonial Laundries, Inc. 472 Potters Ave., Providence and 482 Pawtucket Ave., Pawtucket

Cullen & Galligan 37 East St.

Drummond's Hand Laundry 121 Laura St.

Eastwood Avenue Laundry, Inc. 123 Eastwood Ave.

Foisy's New Method Laundry 145 Summer St.

Hennessey Laundry Co. 44 Arnold St.

Ideal Laundry 123 Livingston St. Imperial Laundry 58 Knight St. Liberty Laundry

499 Dexter St. Logan's Washrite Laundry 274 Oak St. Louttit Laundry Co.

Modern Wet Wash Laundry Narragansett Laundry

THE STATE OF THE S

New Way Service Corporation Allens Ave. Henson-New Enterprise Laundry 26 Plymouth St. New Style Wet Wash Laundry 42 Sonoma Ct.

> Perfection Laundry 901 Branch Ave. R. I. Laundry 136 Silver Lake Ave.

Sam-O-Set Laundry, Inc. 9 Picasant St Sullivan & Small Wet Wash Laundry

149 Gano St. Watchemoket Sanitary Laundry Co. 24 Valley St., East Providence What Cheer Laundry

Lamarre Realty Company; three one-car garages on Dexterdale road; wood. Arthur Ferrara, 27 Ringgold street; wo-car; cement. William R. Selvyn, 121 Camden street; one-car; steel.

Herbert and Jane Less, 71 · Erastus Philip Barry, 14 Frederick street; one car; steel.

Max Jarck, 33 Gallup street; threeTydol Chain Company, Inc., corner of Gladstone and Broad streets; accessory and battery room; steel. Fred Dietz, 153 Oxford street; story store, florist; brick and tile.

In Any Emergency Ready Money Protects You



ness, an accident, or a new arrival in the family, ready money relieves you from financial worry....from debt and embarrassment.

The only way to have ready money when you need it is to save regularly, putting aside a little each week. There is unlimited joy and satisfaction in watching your savings account grow bigger and bigger. Be thrifty in the spending of your dollars and you'll find it surprisingly easy to save ingly easy to save.

It takes only \$1 to open an account at Citizens Savings. Every dollar earns interest.

For the convenience of our customers, we're open every Wednesday evening from 5 till 8:30. Money deposited on or before the 16th of each month earns a full month's interest.



Why We Often Feel Sleepy After Lunch

The Reason for that Tired Feeling and the Necessity for Proper Sleep at Night

SOME BEDSPRING FACTS

The inside story of that tired-all-ver feeling after lunch is mainly one of centralized nerve effort. The stometh nerves having extra work to do call forth nerve energy from other parts of the body. Thus, most of the body's energy is concentrated, for the time being, at the organ of digestion.

The result is that the blood and nerve strain on the spine is practically certain the strain on the spine is practically certain to buy is one made of spiral springs. But right here another interproperty is pring to buy is one made of spiral springs. But right here another interproperty is pring to buy is one made of spiral springs. But right here another interproperty is pring to buy is one made of spiral springs. But right here another interproperty is pring to buy is one made of spiral springs. But right here another interproperty is the spring of the buy is one made of spiral springs. But right here another interproperty is the spring should be fully tempered and they should be loosely tied at the top, nerve nourishment in trying to sleep in an arc with the hips away below the shoulders and the feet in turn above the hips. In a position like this, spring on the market which contains the property support the spine or give a springs. But right here another interproperty is prings. But right here another interprop The result is that the blood and nerv- strain on the spine is practically cer-

light luncheon will cause the fatigue. In other words, the body is some what like an electric motor. At the start of operation that motor requires a surplus amount of energy to turn it over, but after the first few turns its consumption or demand for power comes back to normal again. By the same token, the body requires more energy, or power in reserve, at certain times, and when the reserve is low the ability of the body to carry on i naturally limited.

The truth of the matter is that practically every man or woman is in the banking business with him, or her, self with the body acting as the bank and the energy of the body representing money. The operation is just about as

Every thought or action represents a check for a certain amount of energy that must be drawn from the deposit of energy in the body. At night, during sleep, Nature rebuild the worn-out cells, and thus new energy is deposited to each individual's account-ready to be drawn upon again in the morning.

Up to a certain extent most of these daily drafts on the bodily bank simply require the normal amount of energy In some cases, however, excess de mands cut into the reserve balance, and when this reserve is depleted the trouble begins. In other words, the extent of life and of personal efficiency is actually a matter of balance between the energy expended by day and the energy restored at night through sleep. The danger line is approached when withdrawal begins on the reserve and right here bedsprings become of

Complete relaxation and rest ar essential. Manifestly, anything that hampers or hinders Nature in her important work of rebuilding the body or restoring the energy of the body is something about which every man or woman should feel very much concern. For this reason, a sagging bed-

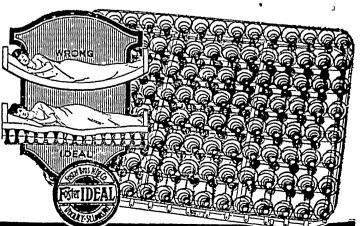
sensibly expect to consume energy by day and then add the increased demands or strains on that body at night due to an improper or congested sleep-ing posture. The time for recuperation is while the body is relaxed and asleep. There should be no tension, for tension is the foe of rest.

sure that a bedspring will give the kind of spine support that health and vitality require. And—the type of bedspring to buy is one made of spiral 120 super air tempered spirals. These The result is that the blood and nervous energy are drawn from the brain, and as a consequence a sensation of fatigue is experienced. This is particularly true after a heavy meal at moon. It is often true after a light luncheon, depending of course upon the reserve force of the body. For, if the reserve energy is small, even a light luncheon will cause the fatigue. in connection with flexible band cen-Not to occasionally inspect a bed- ter supports and the loose link chained spring is poor judgment that exacts a top, they give surpassing comfort and definite toll of health, for no one can scientific spine support.

If you want the Best of Rest you need a Foster Ideal

OUR nerves live on sleep. That is the fundamental reason why you need a Foster Ideal Spring. It gives the best sleep possible. There are three reasons why: (1) 120 super tempered spiral springs, (2) a loose linked top surface, and (3) a deep double deck construction. And from this construction comes (1) better spine support, (2) finer body fit, and (3) greater nerve rest and relaxation. These are facts to bear in mind when you buy a bedspring, and if health is paramount, you'll absolutely insist upon the Foster Ideal.

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