RADIO LORE FOR NOVICE AND EXPERIENCED FAN

RADIO PROGRAMS

11 a. m. with the service from All Saints' Memorial Church. The Columbia Chain programs will be on the air pt 3 p. m., 4 p. m., 9 p. m. and 10 p. m. At 6:30 p. m. will be broadcast an organ recital and at 7 p. m. the Asia Serenaders. The Honolulu quintet will be cu. the air tomorrow at 8:01 p. m. The customary programs will be heard on Tuesday and Wednesday, Waygand's Old Time orchestra will be broadcast from Arcadia at 9:30 p. m. on Thursday. Friday at 6:05 p. m. Uncle Red will be on the air. Rhodes orches-tra will be broadcast from the station at 9 p. m. on Saturday.

WJAR begins its week of programs at

2 p. m. with the Summer radio church sponsored by the Federal Council of Churches. At 3 p. m. will be heard the "Sixty Musical Minutes" program. The Weymouth Post, No. 79, American Legion band will be on the air at 6 p. m. and the Capitol Theatre program p. m. and the Capitol Linear page at 7:30 p. m. James G. McDonald will talk on "The Most Conspicuous Figure in French Public Life" at 7 p. m. to-morrow. The Democratic national convention direct from the Convention Hall, Houston, Tex., will be broadcast at 12 m. on Tuesday. Edith MacKinnon, soprano, and Emma Morris, planist, will be on the air Wednesday at 8:25 p. m. A musical program by Edward Keenon, tenor, will be heard at 8:05 p. m. on Thursday. Friday at 10 p. m. will be broadcast the Palmolive hour. The Goldman band concert, under the direction of Edwin Franke Gold-man, will be broadcast direct from the campus of New York University Sat-

WLSI starts broadcasting at 5 30 p. m with the International Bible Students' program. The service from the Church of the Seventh Day Adventist will be heard at 8 p. m. Tomorrow at 8 p. m. will be broadcast the official market report of the Providence Bureau of Markets, Rhode Island State Department of Agriculture. This feature will be broadcast at the same hour every day this week, excepting Saturday. Charles Miller and his dance orchestra will be on the air at 7 p. m. on Tuesday. Wednesday and Thursday the usual programs will be broadcast. Home hour with the WLSI homemakers will be heard on Friday at 9.03 p. m. Saturday the station will be silent.

WFCI commences its weekly programs at 10:45 a. m. with the service from the Central Falls Congregational Church. Family hour will be broadcast tomorrow at 6 p. m. At 7:05 p. m. on Tuesday Edith Nickerson will give a plano recital. Wednesday, Ernie and his Danceland orchestra will be on the air at 6 p. m. The usual programs will be on the air the remaining days of

WCOT starts broadcasting at 1:30 p.m. with a musical program, Jacob Conn will talk on current events at 2 p. m A studio program will be given at 2:30 p. m. tomorrow. Anna Bart, soprano soloist, and Felix Testa, pinnist, will be on the air Tuesday at 7.30 p. m. Arthur Guilmet will give vocal selections at 7:30 p. m. on Wednesday. Thurs-day and Friday the customary programs will be broadcast. Louis, the newsboy, and his harmonica orchestra will be on the air at 8 p. m. on Saturday.

WEAN-THE SHEPARD STORES-215 Today

11:00 a. m .- Service from All Saints Memo-11:00 a, m.—Service from All Saints Memorial Church.
2:00 p, m.—Columbia broadcasting system program. Symphonic hour. Overture to "Der Freischnetz," Weber, two movements from "Serenade," Mitja Stillman, "Moderato and "Allegro Vivace," Dvorak, suite, "Mozartiana," Tschaikowsky, United Symphony Orchestra.

Tschaikowsky, United Symphony Orchestra

Tschaikowsky, United Symphony Orchestra

On O King Eternal, "Smart, full ensemble. prefude, "Coronation March," Kretschmer, orchestra: "The Lord is My Shepherd." Dvorak, tenor solo. "Souls of the Righteous," Noble, quartet and chorus. "The Lotus Flower," Schumann, orchestra: "Te Deum in D." Sullivan, solo voices, chorus and orchestra. "Reverle," Jenson, orchestra, "Oh Rest in the Lord," from "Elijah," Mendelssohn, Elizabeth Lennox and orchestra. "Magnificat in A." Harker, full ensemble. "The Watch of the Guardian Angel." Pierne, orchestra: "Lead Me. Lord," Wesley, contraito solo, chorus and orchestra. "Magnificat in A." Harker, full ensemble. "The Watch of the Guardian Angel." Pierne, orchestra: "Lead Me. Lord," Wesley, contraito solo, chorus and orchestra. march from "Sigurd," Grieg, orchestra.

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

Friday.

Democratic national convention broadcast from Houston, Tex, through Columbia Broadcasting system "Regular station programs will be adhered to if or when opportunity presents itself."

8:01 p. m.—Correct time.

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

Friday.

P. m.—Correct time.

8:01 p. m.—Correct time.

tra.
p. m.—Organ recital.
p. m —Asia Serenaders.

8 00 p. m.—Correct time. 8.00 p. m.—Columbia chain program. Unitp. m.—Correct time.
p. m.—Cournet time.
p. m.—Columbia chain program. United Concert Orchestra "Barcelona Asleep." Fourdrain, United, Concert Orchestra. "Ich Liebe Dich," Grieg, United Concert Orchestra. "Remembrance." Tarenghi, United Concert Orchestra. first movement from "Africa Symphony." Still, United Concert Orchestra: "Into the Dawn With You, Lee, Elsie Thiede and United Concert Orchestra: "Two Dreamers' Tales," Peterkin, United Concert Orchestra. "From a Wandering Icheberg." MacDowell, United Concert Orchestra. "Callirhoe," Chaminade. "Now That April is There," Goatley, Elsie Thiede, soprano. "Magic Bells, "Still, United Concert Orchestra. "Gommen," Sprano. "Magic Bells, "Still, United Concert Orchestra "Mammy" from Magnolia" suite. "Pantomime," Penau. "Solvejg's Song," Grieg. "Rikki-Tikki-Tavi." Scott. "Egypt," Scott, United Concert Orchestra.
p. m.—United Military Band, Colum-Orchestra.

D. m - United Military Band, Colum-

p m United Military Band, Overture to "Pique Dame," Suppe, United Mili-tary Band, "On Jersey Shore," Pryor United Military Band, "La Czarlia," United Military Band, "La Carina, Ganne, "The Gondollers" from suite, "A Day in Venice," Nevin. 'Wine. Women and Song," Johann Strauss, Under the Double Eagle," Wagner. "After Sunset," Pryor, "Pinlandia," Sibelius, "On the Mall," Goldman: Jester's Serenade," Herbert, "Marche Militaire," Schubert, United Military Band. 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 Groceries," by Sally Sawyer, 11 00 a m - Shepard Stores concert en

11 00 a m—Shepard Stores concert ensemble

11:30 a m—Musical program.

11:55 a. m—Time signals.

12:30 p. m—Asia Serenaders.

12:30 p. m—Weather report.

10:00 p. m—Providence Journal and Evening Buttern news fashes.

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

1:00 p. m.—Good gardening

3:15 p. m—Easiern League baseball game—broadcast from Kingsfey Park—Providence Grays vs. Bridgeport.

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

6:05 p. m—Port Arthur Orchestra.

7:00 p. m—Corte instructions by radio through the courtesy of the American Radio Relay League. Inc.

7:30 p. m—Information service.

8:01 p. m—Horolubin guintet

program.

9.30 p. m - Columbia broadcasting system

neign relay league, inc
p.m.—Information service.
p.m.—Correct time
p.m.—Honolulu quintet.
p.m.—Organ and plano recital by
Bertha 8 Domers, Ida Charette, direction Frank E. Streeter
p.m.—Columbia broadcasting system program

One program

Program

Program

Program.

Tuesday.

Democratic National Convention broadcast from Houston, Tex. through Columbia Broadcasting System. Regular station programs will be adhered to if or when opportunity presents itself!

9.45 p 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 a. m.—Musical program.

11:00 a. m.—Musical program.

11:20 a. m.—Musical program.

11:20 a. m.—Musical program.

11:30 a. m.—Weather report.

10 p. m.—Weather report.

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

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

110 p. m.—Good gardening talk.

4 00 p. m.—Organ recital.

4 00 p. m.—Providence Journal and Evening Bulletin news flashes.

6.05 p. m.—Providence Journal and Evening Bulletin news flashes. Tuesday.

p. m -- Army recruiting realities revealed.

vealed.

6:15 p. m — American broadcasting period, "American for Americans."

6:30 p. m — Joe McNamark and his Night Club Band.

7:30 p. m.—Information service.

8:00 p. m.—Correct time.

8:01 p. m.—Op'ry House Tonight.

9:00 p. m.—Columbia Broadcasting System program.

10:00 p. m.—Columbia Broadcasting System program.

10 00 p. m -- Common.

program

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

Wednesday. Wednesday.

Wednesday.

Democratic National Convention broadcast from Houston. Tex., through Columbia Broadcasting System. Regular station programs will be adhered to if or when opportunity presents itself;

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

10 30 a. m.—Women's institute orchestra.

11 00 a. m.—Musical program.

11:35 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.—Odical market report of Providence Bureau of Markets, Rhode Island State Department of Agriculture.

Island State Department of Agriculture.

1 10 p. m.—Good gardening.
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.—Asia Serenaders.
7.05 p. m.—Narragansett Hotel concert ensemble.

7.05 p. m — Narragansett Hotel concert en-semble.

8 00 p m — Correct time.

8.01 p m.—Nicholson Thackray Home Sweet Home

8 30 p. m.—Kalina Hawaiian Troupe.

9 00 p m — Columbia Broadcasting System

program.

10.00 p in —Columbia Broadcasting System program.

11.00 p in —Providence Journal and Evening Bulletin news flashes. Thursday.

Thursday.

Democratic national convention broadcast from Houston, Tex, through Columbia Broadcasting system. Regular station programs will be adnered to if or when opportunity presents itself.

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

10:00 a. m.—Household hinters.

10:30 a. m.—Household hinters.

m -Shepard Stores concert et

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.
12.30 p. m—Weather report.
12.35 p. m.—Organ recital
1.00 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.

Island State Department of Agriculture.

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.
6.05 p m—Code instructions by radio through the courtesy of the American Radio Relay League, Inc.
6 30 p m.—Dinner dance
7 30 p m.—Correct time.
8 01 p. m—To be announced
9 30 p m.—Waygand's Old-Time Orchestra.

Democratic national convention broadcast from Houston, Tex, through Columbia Broadcasting system 'Regular station programs will be adhered to if or when opportunity presents itself.

8:30 a. m — Morning sing by the Shepard store chorus

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

10:00 a. m — "American Homemakers," by Mrs. Ida 8 Harrington.

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

11.00 a. m.—Shepard Stores concert ensemble.

11:30 a m.—'Microphone Gets Suggestions from Dorothy Dow''

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 of Providence Bureau of Markets, Rhode Island State Department of Agriculture.

Island State Department of Agriculture.

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.
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.

6.30 p r tra 7 30 p. m.—Information service.
8 00 p m.—Correct time.
8 01 p m.—To be announced.
9 00 p m.—Columbia broadcasting system

9 00 p m — Columbia broadcasting system
10 00 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.

ning Bulletin news nasnes.

Saturday.

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

10:00 a. m.—Children's session.

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

11:00 a. m.—Busical program.

11:55 a m.—Time signals.

12:00 m —Port Arthur Orchestra.

12:30 p. m.—Weather report.

10:0p. m.—Providence Journal and Evening Bulletin news flashes.

10:0p. m.—Musical program.

4:30 p. m.—Musical program.

4:30 p. m.—Musical program.

4:30 p. m.—Providence Journal and Evening Bulletin news flashes.

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

6:30 p. m.—Biltmore Hotel concert orchestra.

7:30 p. m.—Biltmore Hotel concert orchestra.

7:30 p. m.—Shepard radio minstrels.

9:30 p. m.—Bendes orchestra.

10:00 p. m.—Biltmore Hotel orchestra.

11:00 p. m.—Biltmore Hotel orchestra.

11:00 p. m.—Biltmore Hotel orchestra.

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

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

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

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

WJAR-OUTLET COMPANY-492.

7 200 p. m — Summer radio church sponsored by the Federal Council of Churches presenting Rhoda Arnold soprano Hazel Tuithill, contraito, Grant Kimbell, tenor, and Ernest Naftzger, barilone, George Vause, musical director Address by Dr. J. Prederic Berg, pastor of the Flatbush Reform Church, Brooklyn, N. Y. "Welcome, Delightful Morn, Thou Dav of Sacred Rest," Mason: invocation by Dr. J. Frederic Berg, "Sing a Song of Praise," West scripture reading by Dr. J. Frederic Berg, response, "Holy,

SHORT CIRCUITS



On the eve of the big Convention the Radio Delegate bids his family good bye before joining his Set —

Holy, Lord God of Hosts," "Rejoice, All Ye Believers, and Let Your Lights Appear," Smart; prayer by Dr. J. Frederic Berg, response, Churale from the oratorio "Elijah," Mendelssohn, "Eye Hath Not Seen," Poster "A Charge to Keep I Have, a God to Glorify," Williams; sermon by Rev. J. Frederic Berg, D. D. "Jesus, the Verv Thought of Thee, with Sweetness Fills My Breast," Dykes "Sing Allelulia Forth," Bluck, benediction by Dr. J. Prederic Berg, doxology by ensemble.

300 p. m.—"Sixty Musical Minutes," aponsorod by the Federal Council of Churches under the direction of George Shackley presenting a group of musicians from the New York Philharmonic orchestras, and a male quartet consisting of Fred Vettel, first tenor, Williams Cruger, second tenor. John Quine, baritone, and Emerson Williams, bass, overture from "Marriage of Figaro," Mozart, orchestra: "Duna," McGill, baritone solo, "I Know of Two Bright Eyes," Clutsam, male quartet: "Manita," flute and clarinet "A Dream," Bartleit, tenor solo, "A Perfect Day," Bond, male quartet: "Juanita," flute and clarinet "A Dream," Bartleit, tenor solo, "A Perfect Day," Bond, male quartet: "Juanita," flute and clarinet "A Dream," Bartleit, tenor solo, "A Perfect Day," Bond, male quartet: "Juanita," flute and clarinet "A Dream," Bartleit, tenor solo, "A Perfect Day," Bond, male quartet: "Juanita," flute and clarinet "A Dream," Bartleit, tenor solo, "A Perfect Day," Bond, male quartet: "Juanita," flute and clarinet "A Dream," Bartleit, tenor solo, "A Perfect Day," Bond, male quartet: "Juanita," flute and clarinet "A Dream," Bartleit, tenor solo, "A Perfect Day," Bond, male quartet: "Juanita," flute and clarinet "A Dream," Bartleit, tenor solo, "A Perfect Day," Bond, male quartet: "Juanita," flute and clarinet "A Dream," Bartleit, tenor solo, "A Perfect Day," Bond, male quartet: "Juanita," flute and clarinet provided to the pr

Monday.

Wednesday.

10 00 a m - Housewises 'tailo Exchange, a department conducted by Mrs Wood on matters of household interest. Questions submitted will be answered by radio.

10 30 a m Reauty talk,
10 45 a, m. Mrs Wood continues,
11 00 a, m. Musical program,
11 15 a m Radio household institute.
11 50 a m Providence Journal and Evening Bulletin news flashes,
12 50 m - Democratic National Convention direct from the Convention Hall, Houston, Texas,
15 p m Providence Journal and Evening Bull-tin news flashes.
15 p m Providence Journal and Evening Bull-tin news flashes.
18 20 p. m - Baseball scores.
18 25 p m Musical program by Edith MacKinnon, soprano, and Emma Morris, planist.
18 55 p. m.-- Wea'her report.

the Night. Old Weish, ensemble
6 00 p m —Wewmouth Post No. 79, American Legion band
7 25 p. m.—Weather report
7 30 p m — Capitol Theatre program
9 00 p m —Providence Journal and Evening Bulletin news flashes.

The hours are based on Eastern Daylight Saving Time.

LOCAL STATIONS

10 45- Church, WFCI, 242.

1 30-Concert, WCOT, 225.

2.00-Talk, WCOT, 225 Church, WJAR, 484.

3 00--Music, WEAN, 275 Concert, WJAR, 484.

4:00--- Music, WEAN, 275

6 00 Band, WJAR, 484

6 30 Organ, WEAN, 275.

7 25 - Weather, WJAR, 484. 7:30 - Concert, WJAR, 481

8.00 - Correct, Wark, 305.

8.00 - Correct, Wark, 305.

Church, WLSI, 248.

9.00 - Music, WEAN, 275.

News, WJAR, 484.

10:00 - Music, WEAN, 275.

EASTERN STATIONS

9.00-Children's hour, WJZ, 454; WPAP, 253

WPAP, 353 9:30-Church, WKb-/, 217, 10:20-Church, WFI, 405, 10:30-Church, WCSH, 366; WGY, 380,

380.

10:45—Church, WGR, 303; WKBW,
217. WEEI, 448, WIP, 349;
WBZ, 333.

11:00—Church, KDKA, 316; WQAO,
395; WDRO, 283.

12:00—Church, WRC, 409; WHAM,
280

280 - Church, WHN, 396.

12:30 - Organ, WHN, 396.

13:30 - Organ, WEAP, 492; WRC, 469.
Organ, WEBW, 217.

15 - Organ, WBET, 104.

1:30 - Church, WCSH, 366.
Special, WHN, 396

2:00 - Church, WEAP, 492
Orchestra, WHN, 396,
Music, WICC, 265
Roxy and his gang, KDKA, 316, WBZ, 334, WJZ, 454, WRC, 419

2:30 - Music, WICC, 265; WCSH, 366.
3:00 - Penture, WQAO, 395, WICC, 265.

303 Ensemble, WJZ, 454, Conference, WEAP, 492 Church, WRC, 469 - Music, WICC, 265 WPG, 273 Organ, KDKA, 316, WHAM,

2 30
Conference, WEAF, 492: WRC, 469 WCSH, 366
Music, WOR, 422: WJZ, 454, Band, WBZ, 333, WICC, 265, WICK, WPG, 273.
)- Feature, WEAF, 492
Music, WRC, 469; WHAM, 280

7 00 -Music. WEAN, 275.

11 00 -Church, WEAN, 275.

Today's Programs in Brief

4 45 - Vespers, KDKA, 316, 5.00 - Talk, WEEI, 448 Church, WRC, 469 Music, WBZ, 333 WHAM, 280 WOR, 422, WJZ, 454, Orchestra, WHN, 396.

5 30 -Music, WEAF, 492, WGY, 380; WEEI, 448

WEE1, 448
6 00-Band, WEAF, 492, WGR, 303, WTAG, 517 WF1, 405 W11C, 535, WEE1, 448 WCSH, 366 Music, WGY, 380, WRC, 469; WJZ, 454, 6 08-Baseb U.

WJZ, 454.

6 08 - Basehall scores, KDKA, 316.

6 15 - Music, WBZ, 333

6 25 - Baseball, WJZ, 454

6 30 - Music, WJZ, 454, WBZ, 333;
KDKA, 316

7.00 - Music, WGY, 380, WTIC, 333WCSH, 366, WHN, 396, WEAP

409

217
Organ, WJZ, 454
7 05 - Music, WTAG, 517,
7 15 - Music, WBZ, 333
7 19 - Chimes, WEEI, 448,
7 20 - Music, WTIC, 535
7 25 - Baseball scores, WEAF, 492
7.30 - Music, WJZ, 333 WBAL, 286;
WEEI, 448, WHAM, 280, WOR, 422

urch, WQAO, 395.

Church, WQAO, 395,
Capitol Theatre program,
WEAP, 492 WRC, 469 WTAG,
517, WTIC, 535, WGK, 380,
7:45-- Music KDKA, 316
Feature, WBZ, 333,
Church, WGR, 303
8:00-- Music, WEEI, 448; WHAP, 236;
WJZ, 454, WTAG, 517, WHAM,
280, WGR, 422
8:15-- Reading, WHAP, 236,
8:30-- Music, WGHS, 2349
8:45-- Music, WGHS, 2349
8:45-- Music, WHAM, 280, WBAL,
286 WJZ, 474, KDKA, 316,
WBZ, 333
9:00-- Talk, WGY, 290; WGR, 303;
WCSH, 266, WRC, 469, WEAP,
492,

WCSH, 266, WRC, 469, WEAP, 492, Peature WOR, 422, News, WPG, 273, WEEI, 448

- Music, WEEI, 448

- Organ, WFI, 405; Atwater Keut hour, WFAP, 492, WGY, 380 WRC, 469, WGR, 303; WEEI 448

Music, WHZ, 333; KDKA, 316; WHAM, 280 WPG, 273

Band, WBAL, 286 WJZ, 454; Reader, WHAP, 236

Music, WGPS, 349

- Music, WGRS, 349

Speaker, WHAP, 236

280
Band, WOR, 422.
Drama, WRC, 469.
Baseball, WBZ, 333.
Trio, WBZ, 333.
Music, WCBS, 349.
Music, WCBS, 273.

10.00- Music, WHN, 296, 10 10--Music, WGBS, 349, 10 15--Music, WKBW, 217, WHAM,

492. Baseball, WTAG, 517: WGR,

303 Church, KDKA, 316. WKBW, 217

5 15 - Church, WPG, 273

What causes a receiver to show gradual loss of volume after it has been operating for

Tuesday.

Tuesday.

10 45 a. m. Musical program.
11 15 a. m. Radio household institute.
1.35 p. m. Providence Journal and Evening Bulletin news flashes.
1 40 a. m. Weather report.
1 45 p. m. Democratic National Convention direct from the Convention Hall, Houston, Texas.
7 15 p. m. Providence Journal and Evening Bulletin news flashes.
7 20 p. m. Baseball scores.
7 30 p. m. Soconsland sketcles.
8 00 p. m. Soconsland sketcles.
8 00 p. m. Safety talk sponsored by the Providence Safety Council.
8 5 p. m. Musical program under the direction Hardld Strong, teror, accompanied by Violette Marks.
8 30 p. m. Sebering singers.
9 00 p. m. Eveready hour.
10 00 p. m. Correct time.
10 30 p. m. Providence Journal and Evening Bulletin news flashes.
10 35 p. m. Baseball scores. 2. What sort of antenna do aviators generally use?

3. Is there any advantage in having a jack at the first au-dio stage! 4. Can the television signals now being sent out over the

air be picked up by the ordinary radio receiver? 5. Do performers go on the air "cold" or are they schooled beforehand?

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

Weekly Radio Test

TALK ON TELEVISION

lecture Will Be Given Before Brown Radio Club Tuesday,

Arrangements for a qualified speaker it discuss the subject of television at the regular meeting of the Brown University Radio Club are buttoned of the Brown University Radio Club are buttoned of Rhode Island owners of loud-speakers and their friends. the regular meeting of the Brown University Radio Club are being made by C. Newton Kiaus, President, The meeting, which is to start promptly at 7.45 o'clock Tuesday night, will be held in the rooms of the Providence Engineering Society, 44 Washington street.

As usual, the meeting will be opened

CLASSIFIED ADS have all-seeing

10 55 - Music, WGBS, 349.

11 00- Organ, WHN, 296.

11 10- Music, WOBS, 349

11.30 - Orchestra, WHN, 296. Music, WOBS, 349.

12 00 - Orchestra, WHN, 296, Church, WBSO, 384.

12 45 Peature, WGHP, 277.

DISTANT STATION.

2.00 Music WMAQ, 428, WSAI, 428.

3.00 - Music, WGHP, 284, KOA, 336; WOC, 353, Wataq, 428, WSAU, 461, KGO, 384, WSB, 476.

461. KGO, 384. W8B, 476.
3 30 Band, WLW, 428.
Must, WIBO, 304. WSAI, 361.
4.00 Organ, WLW, 484. KFI, 469.
Mustr, KOA, 336. KYW, 520;
WSAI, 461.
4 30 - Feature, KFI, 469. KGO, 384,
KOA, 336. WSAI, 361.
4 45-- Orchestra, WLW, 428.
5.00 Music, KNX, 336. KFI, 469,
KYW, 52b. KSIP, 220.
5 30 Music, WIBO, 304. WMAQ,
428. WLW, 428: WSAI, 461:
WJR, 441: KOA, 336. KSTP,
220

220
6 00 Music, KPI, 469; WSAI, 461, 630; Music, KGO, 384; WJR, 441, 645 Music, WMAQ, 428
7 00 Music, KOA, 336, WSAI, 461; KNX, 330, WJR, 441, KYW, 530; WSAI, 441, KYW,

7-45 Music, WJR, 441. 7-50- Music, WMAQ, 428. 8-00 Music, KPI, 469, WLW, 428; WSAI, 461.

WSAI, 461.
8 05 Organ, KSTP, 220.
8 10 - Trio, WIBO, 304.
8:15 - Music, WIBO, 304.
Collier's radio hour, KYW, 526. WJR, 441.
8:45 - Music, KOA, 336: WLW, 428: KYW, 526.
9 00 Music, WGHP, 441: WMAQ, 428: KSTP, 220
Talk, WSH, 476.
9 15 Music, KOA, 326: WJR, 441: WIBO, 304, WSAI, 461.
Atwater Kent hour, KOO, 384: WOC, 335.

Atwater Kent hour, KGO, 384: WOC, 375
9 17 Talk, KYW, 526, 9 30 Music, KPI, 469, KOA, 336: KSTP, 220
9 37 Music, KYW, 526, 9 45 Music, KYW, 526, 10 00 - Music, KSTP, 220, KOA, 336: 10 10 10 Music, KSTP, 220, KOA, 336: 10 15 Music, WLW, 448, WSAI, 461, 10 32- Music, KFI, 469
10 45- Music, KFI, 469
11.00 Music, KFI, 469, KNX, 336; KOA, 336: KSTP, 220: WMAQ, 428, WGHP, 277.

KOA, 336: KSTP, 220: WMAQ, 428. WGHP, 277. 11 15 - Music, WOC, 375. WLW, 428. 12 00 Music, KFI, 489. KNX, 336. KSTP, 220 12 30 - Music, KFI, 469.

476 KOA, 326. WSM, 441. Music, WJR, 441. KFI, 469, WSAI, 461, WLW, 428.

Rox) and his gang, KYW, 526. WJR, 441.

LISTENERS AWAIT CONVENTION GONG

Heard Here Tuesday

WJAR and WEAN, Local Units of Nation-Wide Hoop-ups, Will 500 delegates. Give Fans Here Entire ProceedMarch 20, 1923, followed by the third cipal Announcers.

The proceedings of the Democratic national convention at Houston will be presented in detail to millions of listeners, beginning Tuesday, by more than 100 broadcasting stations, scat-

tered throughout the country.

As was the case with the Republican convention, which selected Her-bert Hoover as the party's standard-bearer at Kansas City early this month.

As far as possible, each of the Providence stations will follow its usual penses. schedule of broadcasting, However, convention affairs will have right-of-vision of the Department of Commerce, way and every detail of interest originals not yet allocated the additional inating in Houston's convention hall \$140,000 which he received for his work advertising in the intrusive sense will will be heard by local listeners. This from Congress. The money will be plan will enable WJAR and WEAN to used, however, for new and up-to-date thus defeat the industry. Furthermore, plan will enable "fill in" any unforcesen gaps in the equipment and for additional personproceedings with desirable entertain- nel. Mr. Terrell, who has just been out pose of advertising if it creates resent-

convention will be called to order by Clem Shaver, chairman of the Demo-cratic national committee. Fifteen minutes before Mr. Shaver raps for order, Groham McNamee, veteran NBC announcer, will start the convention proadcast, his words being heard by WJAR listeners,

The 15 minutes before the opening the convention will be used by "Mac" to describe the convention hall and the delegates and to give the radio audience news builtins on last-minute developments in the Democratic political situation.

Working with McNamee, in the same manner as at the recent Republican convention in Kausas City will be David Lawrence, editor of the United States Daily: Frederic William Wile. veteran Washington newspaper correspondent and broadcaster: Marley Sherris, another well-known announcer, and a corps of trained newspaper men and broadcasters.

Mai, J. Andrew White, president of the Columbia Chain and also a famous announcer, will head the Columbia staff at Houston, as he did in Kansas In giving radio fans the proceedings

of the Democratic convention, many more miles of telephone wires will be required. Use of such long lines across lines than was the case at Kansas

Broadcasters predict that this number will be rivalled, perhaps exceeded, dur-ing the course of the Democratic ses-Battery Intelligence

Excessive gassing and increased temerature occur when the storage battery becomes overcharged, and in general, cracked or broken jars invite the addithis condition may prove injurious to tion of water which weakens the cell business, while a poor battery is apt to the cells. Occasional overcharging is capacity. Impurities in the cells may offset the natural advantages of a new beneficial, but habitual overcharging be climinated by pouring out the elec- one. decreases the period of useful service trolyte and flushing the cells with diswhich the battery can give. However, tilled water. Corrosion of the grid, the

Hoover Radio's Greatest Aid in U.S., Says Correspondent

Presidential Nominee First Interested in Science by Son, Ardent Amateur Operator.—His Radio Conferences Contributed to Growth of Art

BY LYNNE M. LAMM

the organization of the Federal Radio One of the outstanding pieces of work done by Mr. Hoover as Secretary of Commerce was the organization of the four radio conferences, which he called. He was ably assisted in his radio work by Judge Stephen Davis, solicitor of the Department of Com-

merce and author of the first book on

of the radio division of the department Son Arouses His Interest Mr. Hoover first had his interest aroused in radio by his son, Herbert, Jr., who used to be a very enthusiastic amateur radio operator. This led Mr. Hoover actually to become a radio fan. He was the only Secretary of Commerce to take a personal interest in the radio

One of the orders which Mr. Hooves promulgated during his early direction of radio was a regulation to improve programs of the broadcasting stations of the country, and this order led to the practical elimination of the use, which was then common, of putting phonograph records on the air as a principal source of amusement.

Mr. Hoover, as Secretary of Com-merce, thought that self-regulation by the broadcasters as best. This, of course, was in the early days, but it was this attitude which led to the radio conferences which he called to be held in Washington. The broadcasters, radio manufacturers, amateurs and listeners knew that they had a sympathetic ear and they poured out their troubles at these conferences and in many cases

found a remedy. First Conference in 1922

The first conference was called by Mr Democrats at Houston Will Be held in a small room in the Department of Commerce Building, attended by less than 50 persons, including Government officials. The fourth, or last the United States Chamber of Com-merce, and was attended by more than

Ings.—McNamee, White Prin-on Oct. 6, 1924, and the fourth on Nov. 9, 1925. Mr. Hoover also presided, as permanent chairman, at the Interna-tional Radiotelegraph Conference which convened in Washington Oct. 5, 1927. As indicative of the growth of broad-casting during the Hoover regime, it is interesting to note that on June 30,

RADIO NOW IN FUNDS

ommission Receives \$364,000 for Com ing Fiscal Year.

Allocation of the funds recently ap ropriated for the Radio Commission by The two Providence stations that are inked with national radio circuits, total amount available for the use of The two Providence stations that are Congress have just been made. The pastic motive and the financial supticular managers announce, will stay with the commission for the fiscal year between the commission for the basic motive and the financial support for almost all the broadcasting in the country today. Publicity largely provides the cost of broadcasting which is transacted. WJAR, operated by the Country with approximately 70. linked with national radio circuits, their managers announce, will stay with the commission for the fiscal year petite convention until all its business is transacted. WJAR, operated by the Of this amount, \$50,000 is for the Outlet Company, with approximately 70 coller stations in the National Broadcasting commissioners at \$10.

1 other stations in the National Broadcasting which is salaries of the commissioners at \$10.

1 other stations in the National Broadcasting which is salaries of the commissioners at \$10.

2 casting Company network, will handle the convention reports on its custom- commissioners while they are away individual accomplishes his purpose through the building and operating of this own staiton or by hiring time on the convention of the conv As usual, the meeting will be opened by half an hour of intensive code practice. In which about 30 members of the club are engaging. This will be followed by the lecture on television.

The club has asked all members of the American Radio Relay League in the Providence vicinity to be its guests.

Ouner stations in the functional states of the convention reports on its custom-sary wave length of 483 6 metres. WEAN from Washington. The amount appropriated will include also salaries for the building and operating of three attorneys as advisors to the commission, and six radio engineers. There is also to be an increase in personnel. The remainder of the appropriation is also to be an increase in personnel. The remainder of the appropriation is also to be an increase in personnel. The remainder of the appropriation is also to be an increase in personnel. The remainder of the appropriation is also to be an increase in personnel. The remainder of the appropriation is also to be an increase in personnel. The remainder of the appropriation is also to be an increase in personnel. The remainder of the appropriation is also to be an increase in personnel. The remainder of the appropriation is also to be an increase in personnel. The remainder of the appropriation is also to be an increase in personnel. The remainder of the appropriation is also to be an increase in personnel. The remainder of the appropriation is also to be an increase in personnel. The remainder of the appropriation is also to be an increase in personnel. The remainder of the appropriation is also to be an increase in personnel. The remainder of the appropriation is also to be an increase in personnel. The remainder of the appropriation is also to be an increase in personnel. The remainder of the appropriation is also to be an increase in personnel. The remainder of the appropriation is also to be an increase in personnel. The remainder of the appropriation is also to be an individual accomplishes his purpose the commissioners while they are away individu The remainder of the appropriation is for travelling and miscellaneous ex-

> W. D. Terrell, chief of the Radio Diin Chicago looking things over hasan, ment to the advertiser. If we can dis-Houston, which is 2 p. m. Eastern Dav-light Saving time in Providence, the Dallas, Tex., and the other in Baltimore, Md.

GIVES UP LICENSE

WLBM of Cambridge, Mass., Goes Off Air Voluntarily,

Welcome news to the Federal Radio Commission was receipt of word from Laurence D. Yont of Cambridge, Mass. that he desired voluntarily to surrender the license of station WLBM. "Please let me say," Mr. Yont wrote, "that I am very much in sympathy

with what the commission is doing and

believe that if you could eliminate 200 or 300 stations, the gain would be much more important than the loss of a few insignificant stations such as our own.
"As an attorney, the writer recognizes some of the constitutional questions inthe work of the commission will not be interfered with by legal action. We, of in operation, but believe that the general good calls for the elimination of at least as many stations as you have scheduled to be dropped."

Worth Knowing Be cautious when adopting a fuse for

protection against tube blowouts. The a section of the country subject to thin wire filament in normal service summer electrical storms is expected already is white hot and requires como require more attention to feeder paratively little extra current to burn it out completely, while the fuse wire is not anywhere near incandescence and requires a definite amount of time to when he has purchased a new batter sons heard most of the proceedings from Kansas City early this month.

When the filament circuit is heavily When the filament circuit is heavily the old and soon discovers that he has overloaded, the thin tube invariably parts in two long before the fuse ever starts to increase in temperature.

> Sources of Battery Trouble Corroded terminals on a storage bat-

trouble.

1921, just three months after Mr. Hoov-No man in the United States perhaps, ertainly no Government official has broadcasting stations were listed as bedone as much for radio and broadcast- ing on the air. On June 30, 1927, shortly after the Radio Commission came nominee for President. As Secretary of Commerce, Mr. Hoover for a number of Secretary of Commerce, Mr. Hoover for a number of Secretary of Commerce, Mr. Hoover for a number of Secretary of the radio law, until of the radio law by court decision.

Favored Self-Government

Mr. Hoover felt strongly, during the operation of the radio law under his direction, that o: , of the best ways to work out the problem was by mutual consent and self-government. It was in that spirit that the conferences were called and when each came to an end, all present felt that their needs radio law, and William D. Terrell, chief had been met as nearly as possible. It was only when the law broke down, that Mr. Hoover felt that self-govern-

ment could no longer be relied upon.

Having in mind, perhaps, his own son's work in the radio field, Mr. Hoover has always attributed much to the work of the amateurs of the

"We have not overlooked the voice or interest of the amateur." said Mr. Hoover on this subject, "embracing as he does the most beloved party in the United States—the American boy. We must have a peculiar affection for his rights and interests. I know nothing that has contributed more to sane joy and definite instruction than has radio Through it the American boy today knows more about electricity and its usefulness than all of the grownups of the last generation."

Proud of Conferences

Opening the last radio conference Mr. Hoover expressed some pride at the work which had been accomplished by the various conferences. "We have great reason to be proud of

the results of these conferences," he said "From them have been established principles upon which our country has led the world in the development of this service. We have accomplished this by a large measure of selfgovernment in an art and industry of onheard of complexity, not only in its technical phases, but in its relations both to the Government and the pub-lic. Four years ago we were dealing with a scientific toy; today we are deal-ing with a vital force in American life. We are, I believe, bringing this lusty child out of its swaddling clothes with ut any infant diseases.

"We have not only developed, in the conferences, traffic systems by which a vastly increasing number of messages are kept upon the air without destroying each other, but we have done much to establish the ethics of public service and the response of public confidence.

Not Strong for Advertising Mr. Hoover has pointed out again and again in his public utterances about radio that advertising might be made to spoil radio for the public. Discuss-

ing this subject not so long ago, Mr. Hoover said:
"There lies within it (advertising) the possibility of grave harm, even vital danger, to the entire broadcasting structure. The desire for publicity is

lications has-to ignore advertising which he is not interested—and he may resent its invasion of his set. It has been pointed out over and over again and it might well be reiterated, that by a direct service and engaging enter-tainment to the listener and unobtrusive advertising, on the other, we may find solution."

(Copyright, 1928)

The Dial's Diary By the Trouble-Shooter

For want of a little system in the work of keeping the set efficient, a great many radio fans prevent them-selves from enjoying the advantages of better reception. I see this time and time again as I go about in my work. Talked with an owner the other day

who assured me that he always tool the precaution of using new tubes when needed. Instead of discarding all the tibes when making his first change, he retained two which he thought were in fairly good condition. He fully intended at the time to replace these two before eplacing the others, but in the mean time he changed the tubes around in their bases and thus lost all track of them. 'When he called me in I found

ruin reception in any set.

Something on the same order is found with batteries. The radioist with passion for economy and who knows that a 45-volt B battery isn't entirely useless when it has dropped to 37 volta naturally hositates to throw it away winit. Thus, he couples the new with some mysterious trouble with his plate current supply. He simply has failed to consider that an old battery will drain a new one.

Written records would be of great assistance to all who use radio receivers and who desire best results. tery are a hindrance to the passage of is down in black and white there is no the normal amount of current, and guessing. A tube that has been lost cracked or broken jars invite the addi-

Just spending money on the set, or making a pretense of attending to it, consistent undercharging results in a reversal of the negative and positive does not count. There must be some gradual running-down of the cells, plates, the growth of positive plates, system with these efforts. In the long while insufficient charging is one of the the shrinkage of negatives and explo- run system cuts expenses and prevents most common causes of buckling of the sions are the main sources of battery expensive and annoying periods of in-

RADIO PROGRAMS

Continued from Page Eleven.

Questions submitted will be answered by radio

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

11:05 a. m.—Radio Household Institute.

11:15 a. m.—Radio Household Institute.

11:50 a. m.—Providence Journal and Evening Bulletin news flashes.

12:00 m.—Democratic national convention, direct from the convention hall. Houston. Tex.

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

7:25 p. m.—Baseball scores.

7:25 p. m.—Baseball scores.

7:25 p. m.—Weather report

8:00 p. m.—Weather report

8:00 p. m.—Weather report

8:00 p. m.—Weather report

9:00 p. m.—Weather report

9:00 p. m.—Studio program by Edward Keenan, tenor.

9:05 p. m.—Studio program under the direction of Fred Deltz, Jr. baritone

9:55 p. m.—Frances Cosgrove, assistant chairman of the Republican city committee, will talk on "Registration."

10:00 p. m.—Gorrect time.

10:30 p. m.—Correct time.

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

10:35 p. m.—Baseball 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.

10:30 a. m.—Beauty talk.

10:45 a. m.—A. & P. Bureau of Home Eco-Questions submitted will be answered

10.30 a. m.—Beauty talk. 10.45 a. m.—A. & P. Bureau of Home Eco

nomics.

11:00 a. m.—Musical program.

11:15 a. m.—Radio Household Institute.

11:50 a. m.—Weather report

11:55 a. m.—Providence Journal and Evening Bulletin news fiashes.

12:00 direct from the convention hall,

Houston, Tex m.—Providence Journal and Evening Bulletin news fiashes.

8:15 p. m.—Providence Journal and Evening Bulletin news fiashes.

8:20 p. m.—Baseball scores.

8:25 p. m.—Ray Partington, tenor, accompanied by Violette Marks.

8:55 p. m.—Weather report

9:00 p. m.—An evening in Paris.

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

9:35 p. m.—William I. Carrigan, tenor.

9.30 p. m.—Automobile Club of Rhode Island talk.

9.35 p. m.—William I. Carrigan, tenor.

10.00 p. m.—Palmolive 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.—Radio Household Institute—National Broadcasting Company feature.

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

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

1:20 p. m.—Al Williams and his orchestra.

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

1:35 p. m.—Providence Journal and Evening Bulletin news flashes.

8:05 p. m.—Baseball scores.

8:10 p. m.—Thomas Cross, tenor, accompanied by Violette Marks.

8:20 p. m.—Baseball scores.

8:20 p. m.—Rode Island Humans Education Society.

8:25 p. m.—Correct time.

8:30 p. m.—Goldman band concert under the direction of Edwin Franko Goldman, direct from the campus of New York University.

10:15 p. m.—Providence Journal and Evening Bulletin news flashes.

10:20 p. m.—Baseball scores.

WLSI-LINCOLN STUDIOS, INC .- 248. WLSI-LINCOLN STUBIOS, INC.

Today
5:30 p. m.—International Bible students
program
8:30 p. m.—Service from the Church of
the Seventh Day Adventist.
Monday
8:00 p. m.—Official market report of the
Providence Bureau of Markets, Rhode
Island State Department of Agricul-

7:00 p. m.—Charles Miller and his dance orchestra.
8:00 p. m.—Official market report of the Providence Bureau of Markets, Rhode Island State Department of Agriculture.

ture.

8:03 p. m.—New Victor releases.

8:30 p. m.—Mr. Murphy and his pupils.

Wednesday

7:15 p. m.—Organ recttal.

8:00 p. m.—Official market report of the
Providence Bureau of Markets, Rhode
Ikland State Department of Agriculture. ture.

8:03 p. m.—Rhode Island Welder's program.—Prof. Franklin N. Strickland,
talk.

talk. Thursday

8:00 p. m.—Official market report of the Providence Bureau of Markets, Rhode Island State Department of Agriculture B:03 p. m.—Mrs. Marian Tetreau, astrolo-

8:18 p. m.—Movie Club with the Twilight Hawalian Quintet.
9:00 p. m.—Al Blakely, the novelty man.
Friday
6:00 p. m.—Providence College Orchestra.
7:00 p. m.—International Bible students 8:00 program.

8:00 p. m.—Official market report of the Providence Bureau of Markets, Rhode Island State Department of Agricul-

8:03 p. m.—Rhode Island artists hour 9:03 p. m.—Home hour with the WLGI homemakers.

WFCI-FRANK CROOK, INC .-- 242.

Today

10:45 a. m.—Service from Central Palls Congregational Church.

Monday

2:00 p. m.—Studio program.

6:00 p. m.—Pasmily hour.

7:00 p. m.—Baseball scores.

7.06 p. m.—To be announced.

Tuesday

2:00 p. m.—Musical program.

Tuesday

2 00 p. m.—Musical program.
6 00 p. m.—Family hour.
7.00 p. m.—Baseball scores.
7.05 p.m.—Plano recital by Edith Nicker

Wednesday 2.00 p. m.—Studio program. 6.00 p. m.—Ernie and his Danceland Or-

chestra.

7.00 p. m.—Baseball scores.

7.05 p. m.—To be announced.

Thursday

2.00 p. m.—Musical program.

6.00 p. m.—Family hour.

7.00 p. m.—Baseball scores.

200 p. m.—Studio program.

800 p. m.—Family hour

700 p. m.—Baseball scores.

705 p. m.—To be announced.

Saturday

200 p. m.—Family hour

7.00 p. m.—Family hour

7.00 p. m.—Baseball scores.

WOOT-CONN'S OLYMPIA-228.

Today
1:30 p. m.—Musical program
2:00 p. m.—Address on cur
Jacob Conn.
Monday 2:36 p. m.—studio program 7:30 p. m.—Blanchard's be ed hour.

ed hour. Tresday
2:30 p. m.—Studio program.
7:30 p. m.—Anna Bart, soprano soloist, and Felix Testas, planist.
7:50 p. m.—Faith Underwood, address on registration Wednesday
2:30 p. m.—Studio program.
7:30 p. m.—Arthur Guilmet in vocal selections.
8:00 p. m.—Dora Von Helwig, mezzo soprano, and Arthur Guilmet, planist.
Thursday
2:30 p. m.—Studio program.
7:30 p. m.—Olympia radio service hour, presenting Prof Zangar, Hindu mentalist.

Friday

Friday
2:30 p. m.—Ideal battery entertainers.
7:30 p. m.—Organ recital
8:00 p. m.—Wesleyan Church of the Nazarene service.
Saturday
2:30 p. m.—Studio program.
7:30 p. m.—Edudio program.
8:00 p. m.—Louis the newsboy and his harmonica orchestra.

EASTERN STATIONS

KDKA-PITTSBURGH-316. HORA-PITTSBURGH—316.

10.43 a. m.—Correct time

11.00 a m.—Church service
2.07 p. m.—Roxy and his gang.
4.00 p. m.—Correct time
4.00 p. m.—Organ recitai
4.45 p. m.—Vesper service from Shadyside
Presbyterian Church
6.03 p. m.—Baseball scores.
6.30 p. m.—Ensemble
7.00 p. m.—Correct time
7.45 p. m.—Same as W.IZ
8.45 p. m.—Same as W.IZ
8.15 p. m.—Same as W.IZ
8.15 p. m.—Same as W.IZ

WBAL-BALTIMORE-286. m.-Concert orchestra.

8 45 p. m.—Whittall program. 9.15 p. m.—Same as WJZ. WBET-BOSTON-104.

WBSO-BABSON PARK-384. WBZ—SPRINGFIELD—333.

10:45 a. m—Service from the Church of the Unity
2 00 p. m.—Same as KDKA
3 00 p. m.—Same as WJZ
4.00 p. m.—Same as WJZ
5 00 p. m.—Same as WJZ
5 00 p. m.—Same as WJZ
6 15 p. m.—Songs of French Canada by L'Union Saint Jean-Baptiste d'Amerique.

L'Union Saint Jean-Baptiste d'Amique.

7 15 p m.—Ensemble.
7.45 p. m.—Same as WJZ.
8 45 p. m.—Same as WJZ.
9 15 p. m.—Same as WJZ.
10.15 p. m.—Baseball scores.
10 20 p. m.—Lyric trio.
11.00 p. m.—Correct time and weather.

WCSH—FORTLAND—366.

10:30 a m.—Service from State Church.

1:30 p. m.—Radio Parish Church.

2:30 p. m.—Same as WJAR.

3:00 p. m.—Musical program.

4:00 p. m.—I. B. S. A.

6:00 p. m.—Same as WJAR.

7:00 p. m.—Studio program.

9:00 p. m.—Same as WJAR.

WDRC-NEW HAVEN-283.
a. m.-Service from the Church of the Redeemer. 11:00 a

WEAF—NEW YORK—492.

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.—Game as WJAR.

4 '00 p. m.—Cenia Zelinska, soprano, and Winifred Cornish, pianist.

5 '10 p. m.—National string orchestra with Dari Bethman, baritone.

5 '10 p. m.—Ballad singers.

6 '10 p. m.—Bane as WJAR.

7 '10 p. m.—Bane as WJAR.

7 '10 p. m.—Baseball scores.

7 '10 p. m.—Game as WJAR.

9 '10 p. m.—Classical trio.

9 '15 p. m.—Correct time.

9 '15 p. m.—Correct time.

9 '15 p. m.—Biblicel drams.

WEEI—BOSTON—448.

10:45 a m—Service from the First Church of Christ, Scientist.

5 00 p. m—Sam Curtis radio chat.

5 30 p. m.—University male quartet.

6 00 p m—Seame as WJAR.

7:19 p m.—Sessions chimes.

7:20 p. m—News dispatches.

7:30 p. m.—Musical program.

8:00 p. m.—Sager hour of hospitality,

9:00 p. m.—Newspaper sidelights.

9:10 p. m.—Sessions chimes

9:11 p. m.—Sessions chimes

9:15 p. m.—Same as WEAF.

9:45 p. m.—Correct time.

9:45 p. m.—Correct time.

9:45 p. m.—Same as WEAF.

WFI-PHILADELPHIA—408
n...-Services from Arch
Methodist Episcopai Church
6:00 p m...-Same as WJAR.
9.15 p. m...-Instrumental ensemble.
9:45 p. m...-Same as WEAF.

WGBS—NEW YORK—340

8:30 p m.—Carnival Serenaders, mandolin, harp, 'cello, violin, Bertini, tenor pm.—Evelyn Schiff, "The Wood Thrush," songs

9:40 p. m.—String quartet

10:10 p m.—Evelyn Schiff, lyric coloratura soprano.

10:25 p m.—String quartet, 10:55 p. m.—Ernest Hemby, tenor.

11:10 p. m.—Studio trio

11:30 p. m.—Ernest Hemby, tenor.

WGR—BUFFALO—303

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

12:00 m —Correct time and weather

3:00 p. m.—Same as WJAR.

7:00 p. m.—Baseball scores

7:45 p. m.—Service from Central Presbyterian Church

9:00 p. m.—Classical trio.

9:15 p. m.—Same as WEAF

9:45 p. m.—Correct time and weather.

WGY—SCHENECTADY—380

10.30 a. m.—Service from First Lutheran Church

5 30 p m.—Same as WEAF

6 00 p. m.—Same as WEAF

7 00 p. m.—Same as WEAF

7 30 p. m.—Bame as WJAR

9 00 p. m.—Same as WJAR

9 15 p m.—Same as WEAF

9 45 p m.—Correct time

9 45 p m.—Correct time

9 45 p m.—Correct time.

WHAM-ROCHESTER-280

WHAM—ROULES LEM—20

2 00 m—Morning church service.
3 00 p m.—Down Melody lane.
4 00 p m.—Friendly hour
4 30 p m.—Popular concert.
5 00 p m.—Same as WJZ.
7.30 p m.—Dinner concert.
8 00 p m.—Same as WJZ.
8.45 p m.—Basme as WJZ.
9.15 p m.—Eastman School of Mu 9 15 p. m.—Eastman School of Music hour. 10 15 p. m.—Organ recital WHAP-NEW YORK-236

WHAP—NEW YORK—236

8 00 p m—Sacred music.

8 15 p m.—Augusta E. Stetson, C. S. D.,
Christian Science, reading from the
writings of Mary Baker Eddy, and remarks.

9 15 p. m.—Sibyl Marvin Huse, speaker

9 45 p. m.—James P. B. Hyndman, speaker. WHN-NEW YORK-396

WHN—NEW YORK—396

12.30 p. m.—Organ recital

1 00 p. m.—Three Little Bachs.

1.30 p. m.—To be announced.

2 00 p. m.—Orchestra.

5 00 p. m.—Dance orchestra.

7 00 p. m.—Orchestra.

10 00 p. m.—Organ recital.

11 30 p. m.—Orchestra

12:00 p. m.—Orchestra

12:00 p. m.—Orchestra

WICC-BRIDGEPORT-265 2.00 p. m.-Margaret Carney, mezzo so prano prano
2 30 p m — To be announced,
3 00 p m — Norwalk Guild
3 30 p m — Dorothy O Brien and Whispering Art
4 00 p. m — Jimmie Reilley's entertainers.

WIP-PHILADELPHIA-349 a m —Service from Holy Trinity Church.

wJz-New York-454

a m.-Children's hour.

p. m.-National concert orchestra.

p. m-Roxy and his gang

p. m.-Classic melody

p. m.-Dr Sockman's question hour.

p. m.-Twilight reveries.

p. m.-String trie, with Henry Shop-Lenor 6:25 p. m. Baseball scores.

6.30 p. m.—Mme. Lolita Cabrera Gainsborg, concert planist.
7:00 p. m.—Correct time.
7:00 p. m.—Majorie Horton and Cyril Pitts, with string trio.
7:30 p. m.—Sonata, Mathilde Harding and Arcadio Birkenholz.
8:00 p. m.—High spots of melody, with Leon Salathiel, bass.
8:45 p. m.—Whittai Anglo-Persians.
8:15 p. m.—Goldman band.
10:15 p. m.—Correct time.

WKBW--BUFFALO--21

9 30 a. m.--Episcopal service

10 45 a. m.--Public worship

1:00 p m.--Crangelistic service.

10:15 p. m.--Back home gospel melody hour
from the studio.

WKBW-BUFFALO-217

WOR-NEWARK-422
3:00 p. m —Same as WEAN.
4:00 p. m —Same as WEAN.
5:00 p. m —Wickwire Spencer fences.
7:30 p. m —In the organ loft with Emil Velazco.
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 -- Creatore and his band and Pauline Talma, soprano Continued on Page Thirteen.

LET ME TUNE UP YOUR SET FOR THE CONVENTION WILLIAM E. ARNOLD "THE RADIO DOCTOR" Call Ga. 8640 "anytime." Supplies delivered anywhere. Expert Service and Repairs. I correct your trouble or no charge.

Marshall & Co.

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Does Your Radio Keep Step With The Radio Calendar? WHY MISS OUT ON SICH RADIO EVENTS

THE DEMOCRATIC CONVEN-FION? THE HEENEY-TUNNEY FIGHTI If Your Set Is Not Operating Correctly Call

Radio Jim

DEXTER 7274 Trained Experts in Attendance, Con-sultation and analysis in your home by appointment.

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BUY YOUR ATWATER KENT SET FROM US AND ENJOY THE WELLKNOWN MEIKLEJOHN GUARANTEE OF SATISFACTORY **SERVICE**

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New All Electric ATWATER KENT Model 40 \$10 DOWN—\$2 WEEKLY UNITED MUSIC CO.

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ATWATER KENT RADIO John M. Dean Co. 785-795 WESTMINSTER STREET

New Full Electric Atwater Kent Radio

Model \$77 116 MATHEWSON STREET

Ready for Demonstration and Delivery H. SUPPLY CO. INC.

New Model 40, Full Electric ATWATER KENT RADIO **23-25** Empire EMPIRE RADIO

On Sale The Shepard Stores Atwater Kent Radios

-Ready for Immediate Delivery-Convenient Terms May Be Arranged

ATWATER ENT RADIO

that gives non-"



NO NEED to wait till fall for your 1929 electric radio.

Get it now and enjoy it all summer. Tuck it into your car for your vacation. Plug it in wherever there's a lamp socket. Dance to distant music, brought up close. Reserve your living-room seat for the Tunney-Heeney fight. Follow the great airplane adventures. Tour the air tonight—any night -with this surer and simpler and better receiver.

Model 40 proudly steps forth as the 1929 successor of 1928's best seller—the famous Atwater Kent 37, approved by more than 200,000 families. Model 40 marks a decided advance. But the price -because of ever-increasing demand-is still lower-only \$77!

Far greater sensitivity—that means a much wider range of stations at your command, more kinds of programs swinging in as you touch the Full-vision Dial. The new built-in power unit, sealed against atmospheric action—is smaller and the whole set is five pounds lighter. The improved volume control carries you through every gradation of sound.

Battery sets, \$49 and \$68 (less tubes and batteries).

"Radio's truest voice." Atwater Kent Radio Speaker:

Models E, E-2, E-3, same quality, different in size, each \$20.

Model 40 A. C. set. Satin-finished in brown and gold or deep golden bronze and gold. For 110-120 volt, 50-60 cycle alternating current. Requires six A. C. tubes and one rectifying tube, \$77. Also Model 42 A. C. set with automatic line voltage regulator, \$86, and Model 44, an extrapowerful, extra-sensitive acceptube A. C. set, \$106.

The tone is pure—real—faithful to the voice or instrument at the broadcasting station. Economy of first cost is matched with economy of upkeep. This set uses about as much electricity as a single

40-watt lamp—considerably less than a cent's worth an hour. And into it is built that sturdy lastingness which relieves 1,600,000 Atwater Kent owners from annoyance and service fees. Not only must every set pass 222 factory tests or inspections but it has to be as good as a Master Set with which it is compared. That means your Atwater Kent set is sure to be as good as the other fellow's, no matter where you live.

Twenty-six years of precision manufacturing, including six years of radio, give this simple, beautiful, reliable Model 40 a fineness of quality and performance not to be described in words. See it and try it—to believe. The nearest Atwater Kent dealer offers you a home demonstration. Telephone him, or mail the 'coupon. Don't miss this great radio summer. The set of 1929 is ready for you Now.

ATWATER KENT MANUFACTURING COMPANY Philadelphia, Pa. 4700 Wissahickon Ave. A. Attoater Kont, President

On the air—every Sunday night— Atwater Kent Prices slightly higher west of the Rockies Hour-listen in! MODEL

NEW ATWATER KENT Model 40 Radio Sets On Sale in Our Radio Store-Fifth Floor

The Mutlet Commann

NEW FULL ELECTRIC ATWATER KENT RADIO —CONVENIENT TERMS Peoples Hardware Co., Olneyville

HOW TO LENGTHEN LIFE OF VACUUMS

Watch Filament Voltage Carefully and Constantly

Bias Also Important Factor in Jar Tubes, as Elements Are Easily Loosened. - Voltmetre Wee is Recommended

Accidentally lighting up a radio tube brightly may spoil it altogether. metimes, a tube damaged in this way can be brought back nearly to its former sensitivity by a process known as

However, let's not bring early damage or "death" to our tubes by such unfortunate circumstances. It isn't very difficult to see to it that they are never lighted over-brilliantly and that they receive due consideration in hanlling and in operation. But-how shall we do it? So far as

the actual handling goes, it is easy enough to carry new tubes home from the store carefully, protected in their soft wrappings and to avoid dropping or jarring them. Such mistreatment may result in loosening some of the lements or in weakening or breaking by rough handling may become micro- cases as an added feature. phonic, that is, may howl easily, especially when inserted in the detector or first audio socket.

tube, it is difficult even to estimate this unless one has some sort of measuring instrument to go by. It is possible to insert an ammetre in series with the A battery wire and to keep the current supplied within the proper limits. To determine the proper current, it is necessary to learn the maximim cur-rent required for each tube in the set that is lighted from the storage bat-

Adding these separate figures will give the total current required and the ammeter may be mounted on the panel, or convenient to the set in keeping tab on the filament adjustment Even this method, however, is not entirely safe, because it is possible to turn up one rheostat more than the others so that, while most of the tubes would be lighted at less than the normal current, one or more might be over-supplied

The really safe way 's to use a volt-metre. The ordinary "garden variety" of voltmeter, such as is used on an auto dashboard, will not answer, however. A suitable voltmetre for the purpose will cost from four to ten gollars. It would be possible to have the testing done by the dealer and to make marks on the rheostat knows so that you would be unlikely to light the tubes too

The terminals of the voltmetre should be touched across the filament terminals of each socket in turn and the voltage noted. In the usual set, several tubes are controlled by a single rheostat, so that all tubes connected to a single rheostat will give about the same reading of voltage The rheostat knob should be marked or its cial read-ing noted, so that you will use care

Brand new tubes need not be lighted as brightly as older tubes to get the same results. The point desired is the same results. as brightly as older tubes to get the same results. The point desired is that at which no increase in volume is gained by turning the rheostat farther "on." Always light the tubes at the minimum below the same results of the same results. The point desired is that at tached to the free end. There are many objections to this arrangement and a metal rod type of antennal minimum. "on." Always light the tubes at the may replace it minimum brightness consistent with 3 Yes It good reception." If the audio tubes are necessary conne not lighted brightly chough, however, the reproduction may, be imperfect

The voltmeter should be of the "high resistance" type. The low-priced volt-meter takes almost as much and sometimes more current than a tube itself, so that connecting it across the fila-ment terminals of the socket will cause the tube to grow dim and to give a very incorrect reading. The right voltmetre will give an accurate indication and will not cause any changea t all in the filament illumination as it is connected and disconnected.

It is very important that the proper plate voltage be not exceeded if you want your tubes to last a long time. It is equally essential that the right C voltage be applied. The instruction sheet supplied with the tubes will in-

sheet supplied with the tubes will indicate that correct relationship between the B and C battery voltages and these should be adhered to exactly.

For example, a UX-210 tube operating at about 350 volts should have about 30 to 35 volts of C battery, either secured from a battery or perhaps from a special resistor in the B eliminator A 201A tube operating at 90 volts in a special resistor in the B eliminator A 201A tube, operating at 90 volts in the audio stages, should have about 4½ yolts of C applied. If your set is not equipped with connections for the C battery, by all means have one installed. You will see ire much better tone quality, in addition to greatly lengthening the life of the tubes.

Not only does a proper C voltage reduce the plate current on the tuber and thus increase its term of life, but at the same time, this reduction of plate current means that the B batteries won't have to deliver so much "juice." Accordingly, the B batteries, value of C battery in cases where none has been employed

, Consult Manufacturer
When "troubleshooting" in the receiver very few repairmen are able to
work intelligently on manufactured sets. When something goes wrong, the only recourse is to take it back to the dealer and have him send the set to the factory branch or main plant for inspection. A number of manufacturers put a stipulation in the guarantee that the inside of the set must not have been tampered with or the free

repair work paragraph "does not go." Some have so put in the screws that a seal would have to be broken to open the set and then the guarantee is

"RADIOIZING" HOME

How to Wire Every Room for Loud-Speaker Service Nowadays our use of radio is likely

tertainment for the afternoon sewing circle, bring dinner music and the heavier entertainment of the evening. Nor must we overlook the widespread dependence upon the radio receiving set for setting the household watches and clocks. The commuters on the 7.48 especially like the time service as they are able to catch their trains accurately and without too much time

wasted in walting.
Of course we can go to the living room for all these features, but what a convenience it would be if we could tring our radio exercises into the bedroom-our kitchen talks right into the kitchen, our dinner music to the dining room, our light entertainment to the porch besides!

It is quite simple to rig up the ne-cessary wiring. Regular radio receptacles are on the market which may be screwed to the baseboard or wall of the room. Ordinary annunciator wire can be used for making the connection to the set and as many receptacles as desired can be connected in circuit. It may be helpful to pro-vide extra switches for turning on the the filament. Lay the tubes down gently. A tube whose elements are loosened set and this has been done in many

Some listeners obtained one or two extra loud-speakers of the cheaper sort rst audio socket.

As for the voltage applied to the bedroom service. The house wife is then abel to carry on her morning's work while listening to the morning programs and can easily stop to jot down a recipe or useful suggestion or the name of a booklet she would like to send for. And anyone can install the requisite wiring in a few moments.

WIRED RADIO

People of The Hague Get Programs

Over Thone Wires. So successful has supplying radio by telephone proved in The Hague, accordng to reports reaching the Department of Commerce, that there is in contemplation an extension of the system to Rotterdam and other municipalities.
The Hague is just completing the first year of the service Reception of the programs is afforded both to telephone subscribers and non-subscribers upon payment of an initiatory installment charge of \$7.20 per year. They need only to buy an amplifier and loud peaker, which are supplied by an American manufacturer at a cost of \$28 and \$34, respectively Lower grade articles are also obtainable.

It is estimated that since the number of subscribers has passed 1000, a lower annual subscription rate will be made possible. The number of sub-scribers is now about 2400 and will probably reach 2500 by the end of thu

ANSWERS TO WEEKLY RADIO TEST 1 The A battery is not charged It recuperates a little when

3 Yes It furnishes a handy and

necessary connection for plugging in a power speaker. 4 As noise, yes, but not as pictures

5. It now is customary to hold 'auditions" before the regular air performance In this way, performers have an opportunity to learn their mistakes and become familiar with the technique of the lob.

150 Vacation Trips

An illustrated travel catalog "Big and, Little Journeys" is full of suggestions for Summer vacation travel. Tells where to go and what it will cost on all expense tours through the Great Lakes. St. Lawrence River, Niagara Falls, Quebec, Newfoundland, Novoscotia, Bermuda, California and the National Parks. Secure free copy from Cottourns MOURING, CO. 7 Westposset COLPITTS TOURING CO., 7 Weybosset St., Providence. Estab. 1879.





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2-Car Garage \$298.00

Our representative will call and explain Our Easy Payment Plan. We invite comparison. We also manufacture something entirely new in Roadside Stands.

PHONE BROAD 2694 _____ 828 EDDY 8T. THE COMMENTS AND THE STATE OF T

RADIO PROGRAMS

Continued from Page Twelve

Nowadays our use of radio is likely to begin early in the morning with the health exercises, to continue during the morning with the cooking and household programs, provide light entertainment for the afternoon sewing.

4 15 p. m—Community vocal and instrumental recital.

5 15 p. m—Religious service.

9 00 p. m—News flashes and baseball scores.

9 15 p. m—Operatic concert.

10 30 p. m—Correct time.

10 30 p. m—Sunday evening musical.

WQAO-NEW YORK-395 m.—Calvary morning services, m.—Inspiration hour. m .- Calvary evening services. WRC-WASHINGTON-160.

WRC—WASHINGTON—160.

1 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 — Same as WEAF.
5 00 p. m — Service from Washington Cathedral
6 00 p. m — Same as WJAR.
7 30 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.

WTAG-WORCE.STER-517.
600 p m —Same as WJAR
700 p m —Basebal scores.
705 p m.—Organ recital
730 p m.—Studio program
800 p m.—Sume as WEEI WTIC-HARTFORD-535. m.—Same as WJAR m.—Old World Cathedrals. m.—Song recital

7 30 p. m.—Same as WJAR. 9.00 p. m.—Baseball scores.

LOCATING TROUBLE

Listener Told What to Look for "Dead" Receiver. When your radio set auddenly "goe on the blink" and stops working, here are a few hints to help you in finding the trouble

Be sure all tubes are lighted. Wiggle them in the sockets to find whether poor contact caused stoppage
2. If loud speaker gives no sound at all, disconnect it and touch termi-

nals across storage or "B" battery Strong click should be heard Examine antenna wire and antenna, also ground connection, for a possible break

4. Test "B" batteries or "B" eliminator for proper voltage
5 In case of current-supply set or 5 In case of current-supply set or "B" eliminator not operating, perhaps fuse has blown or plug is not mak-ing contact in wall or lamp socket 6 Don't meddle with internal connections or parts unless you know how 7. Be sure all wires are making good contact on terminal strip or in connec

Soldering Tip The most efficient way of soldering untinned wires is to file a groove in the soldering iron. This will fill up with solder, so that the wire end may be readily tinned by inserting it in the

No Elasticin Oakland Mausoleum This marsive Memorial Shrine will not stretch nor can we add to it "Sometime" will be too late to make your reservation You can avoid disappointment by a

The state of the s Anthracite Coal

Broad 4639

Guaranteed best quality Penn-sylvania Anthracite, equal to any sold in Providence, and at \$1.00 per ton less. White Ash Egg. \$11.75; Chestnut or Stove \$15 per ton; Lehigh Egg. \$15.50; Chestnut or Stove, \$15.75; Pea \$12; delivered in your cellar.

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EXAMINER NAMED

Board Appoints Radio Field Man to Tour Fourth Zone. The first of a new type of Federal radio official—an examiner—has just been appointed in the Fourth, or Middle Western Zone. The appointee is Gerurd Taylor, a radio engineer formerly connected with the Kansas State

Agricultural College.
It will be his duty to travel about among the broadcasters in his zone, to secure data desired by the Federal Radio Commission and even to hold hearings and take testimony if desired.

Just as the radio supervisors and in-

spectors are the field men of the radio division of the Commerce Department, the examiners will be the men on the ground for the Radio Commission is expected there will soon be one or more of these examiners appointed from every zone.

How to Bulld Wave Trap A wave trap is constructed as fol-lows Wind about 50 turns of No. 24 double stik-covered copper wire on three-inch diameter bakelite form Connect a 0005 mfd variable condenser across this coil. Connect the coil and condenser combination in series with the antenna lead-in and adjust the wave trap condense; and the set until mum. When the inside loop is used with the set, it may be necessary to tilt the loop slightly in the direction of the aerial of the interfering station and rotate it slowly to find the minimum point of pickup. The rea-son for this is because the "wave front" at short distances from a trans-mitter may not be proceeding in a

Shielding Important. Shielding is considered almost a ne-essity in the modern receiver, particularly if it is to be operated in a congested district. Although not ab-olutely essential, nothing is harmed by encasing the audio section in shield also.



It is essential that my car should always operate properly and accordingly I use Champion Spark Plugs.

Champion is the better spark plug because it has an exclusive sillimanite insulator spe-cially treated to withstand the much higher temperatures of the modern high-compression engine. Also anew patented solid cooper gasket-sealthatremains absolutely gas-tight under high compreselectrodes which assure a fixed spark-gap under

all driving conditions.

Dependable for Every Engine

You take no chances when buying a used car here—we know they are real good buys and are willing to let you select any model from our Big Stock, drive it for a week

-then-if you are not satisfied that it is worth what you paid for it-bring it back to us and get your Our money-back guarantee protects you, you take no chances. What more could you ask? So come in—see

what we have to offer.

Some of the Models on Display

1928 Essex Coach 1927 Essex Roadster 1927 Paige Coach

1926 Chrysler Sedan 1926 Dodge Roadster 1926 Hudson Brougham 1926 Overland Coach

1927 Essex Coach 1927 Essex Coupe

1925 Hudson Coach GET OUR PRICES BEFORE BUYING

USED CAR DEPARTMENT 134 BROAD STREET

A CONTRACTOR OF THE PROPERTY O

Vagrant Waves of Interest to Fans

If your storage battery no longer to faulty resisters, especially those of the compression type. Try shorting the various resisters, one after the other, holds a good charge, but drops off rapidly after being put in use after a charge, it is an indication that the bat- until the noise disappears, indicating the defective unit. tery is about worn out. After long use, a storage battery loses much of its efficiency, due to the dropping out of active material from the plates and the the United States equipped with radio sets, New York leads with 853,000 sets; Pennsylvania is second with 613,000; Il-linois is third with 578,000, and Calinon-conducting crust that forms on the active material.

If you must see the level of the water in your A eliminator or storage battery, don't go looking with a lighted match. Remember, there is hydrogen present in most of these devices, and

fornia is fourth with 536,000. New York city has an "Association of Women Broadcasters." The purpose of the organization is to further the in-

terests of women radio speakers and

Persistent noises in a set may be due

Of the 7,267,000 homes throughout

are invited to open an account in this bank of friendly service.

JEWELERS

THE MECHANICS NATIONAL BANK OF PROVIDENCE 34 Dorrance St. Opposite City Hall

hydrogen plus air plus a lighted match stimulate the spirit of co-operation bequals a violent explosion

Noise in a radio receiver can be One of the chief causes of weak signals is dirt on antenna insulators, lightning arrester and antenna wire. sometimes traced to leaky grid con-densers and noisy grid leaks. Try new

A radio school is to be opened in Don't forget to install that lightning Paris, France.

> Radio has replaced the carrier pigeo in the United States Marine Corps.

Use an insulated wire aerial if situated in a locality where there is much smoke. Bare wire becomes covered with

It is estimated radio has already ication charges.

Johanna Grosse, organist of Station WLW, claims to have memorized 8000

Tristan da Cunha, the world's lone-liest spot, is to be linked with the civilized world by radio. There are only 150 inhabitants on the tiny spot in the South Atlantic.

France is planning governmental conoot, and corrodes, causing loss of ef- big, national sending stations and 18

Broken windows on any make of car reset with plate glass+Special this \$2.50

week New Tops Installed at Lowest Prices We Repair Woodwork on Tops, Making Them as Good as New

CARS UPHOLSTERED LIKE NEW FOR LESS THAN THE COST OF SEAT COVERS

Let us estimate your work. You'll find our prices, workmanship and materials O. K. Our experience over a period of many years assures you of a satisfactory job.

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FRANKLIN AIRMAN sets new record for coast-to-coast, round-trip run

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SIGNS DL - Day Letter NM - Night Message NL - Night Letter LCO - Deferred Cable CLT - Cable Letter WLT - Weck-End Letter

AA72 179 LOS ANGELES CALIF JUN 16

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COMPLETED TRANSCONTINENTAL ROUNDTRIP RECORD RUN AT 4.53 THIS AM HAVING COVERED 6692.8 MILES FOR WHICH MY TOTAL ELAPSED TIME WAS 157 HOURS AND 23 MINUTES PERIOD THIS CLIPS 10 HOURS AND 36 MINUTES OFF FORMER RECORD PERIOD CAR CAME THROUGH ENTIRE GRIND WITHOUT ANY TROUBLE WHATSOEVER PERIOD THE MOTOR PERKING AS NICELY NOW AS IT DID AT THE START LESS THAN ONE WEEK AGO PERIOD THE PERFORMANCE OF THE FRANKLIN AIRCOOLED ENGINE IS A REVELATION AS IT DID NOT FALTER ONCE DURING ITS GRUELLING PUNISHMENT WHETHER IT WAS BEING DRIVEN UP GRADES ACROSS THE MOUNTAINS OR THROUGH THE DESERTS PERIOD THE RUN CERTAINLY PROVED THE INBUILT STAMINA AND CAPABILITIES OF THE AIRCOOLED MOTOR PERIOD SPEED POWER PICKUP ACCELERATION AND ABSOLUTE DRIVING COMFORT ARE THE OUTSTANDING FEATURES OF YOUR CAR PERIOD WITH THESE THE MOTORIST MUST HAVE POWERFUL BRAKES AND YOURS ARE CERTAINLY QUICKACTING

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AND WISH TO CONGRATULATE YOU ON BUILDING A REAL AUTOMOBILE

Beating former record by 10 hours, 36 minutes

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