RADIO LORE FOR NOVICE AND EXPERIENCED FAN

International Radio Conference Settles Down to Serious Business

Information Bureau Swarms With Representatives of Many Foreign Lands Trying to Carry on Discussions in English.—President Addresses Delegates

London convention applicable to ma-

rine communication and for some re-

transmission today, are unregulated in their international aspects. That it has

mental agreement has been due to the

rights of the others and to the spirit

of mutual respect. The present high cf-

ficiency of radio communication, and

the small degree of actual conflict is a tribute to the high character of the

individuals, both in government and in the privately-owned concerns, by

nels of the ether is as essential as the regulation of traffic upon our crowded

streets, but equally in both cases the purpose must be to expedite movement,

to stimulate progress, not to retard it.

Let us see to it, therefore, that we put

tion does not hamper progress, that we direct traffic but do not confine its

"There is, indeed, a great responsi-bility in these occasions. While our de-

liberations are wrapped in clothing of technology and commercial require-

ments, their successful issue has a far

raphy, of which Gen, Ferrie, in charge

American section.

use and purpose.

whom it has been conducted. "Regulation of traffic upon the chan-

Having gone through the diplomatic ization. Allocation among the different formalities of being welcomed to this international services will be one of country by President Coolidge, Secretary Hoover, tary of State Kellogg, Secretary Hoover, "Except for the provisions of the tary of State Kellogg, Secretary Hoover, and other high governmental dignitaries, the members of the International gional understandings of limited ter-ritorial extent, all these new services, which make up by far the bulk of radio ton have now temporarily laid aside their silk hats and frock suits and set-tled down to the real work of the conference, which is expected to extend over the better part of the next two nevertheless been possible to carry them on successfully without govern-

The reason the deliberations will progress so slowly and with such great care is that, although it will have to be ratified by each country respectively, whatever the Washington Conference agrees upon is pretty apt to become the law and therefore may not again be modified or changed for a period of years. So it is pretty serious busi-

The sessions are being held in the beautiful building of the Chamber of Commerce of the United States, built but the site of the home of Daniel Webater, and just across the park from the White House.

An interesting point of observation at the conference is the information bureau, which fairly swarms with Frenchmen, Czechoelovakians, Dutch, Chilians, Greeks, Argentinians, Italians, Chinese, Norwegian, Venezuelans, Spanfards, Japanese, Swiss and the rest of the forty or more nations of the world represented, each and every one apparently trying to speak English. On the other hand, our own people, never known as a nation to win any gold medals for proficiency in foreign lan-guages, gather in and around the in- of international commerce, we shall formation bureau despairingly trying to have aided in the spread of human inspeak whatever the language is from telligence, and above all in the spread

whence the delegate halls.

As at the peace and other international conferences, much of the real work is being done in committee with the control work is being done in committee with the control work is being done in committee with the control work is the control work in the control w the general progress only to be sur-mised excepting for such developments as may be apparent at the plenary ses-

Perhaps President Coolidge gave as good advice to the conference as anyone when he said:

"I commend to you the adoption of the policy of candid discussion, generous conciliation and wide co-opera-tion. This is a field where it will be exceedingly easy for a single nation to render uncertain and useless a broad area of surrounding territory, greatly to the disadvantage of itself and all others concerned.

The President also pointed to the large opportunity of economic treatment of radio problems through stand-ardization, adding significantly that a uniformity of action among different and theoretical side of wireless.

And finally, in connection with the property of the pr

"The 1912 conference found it neces sary to deal with only a few frequen-cies," Mr. Hoover continued. "Our field sary to deal with only a few frequen-cies," Mr. Hoover continued. "Our field of duty is infinitely greater, for we are called upon to deal with the entire frequency range. All frequencies now long in the available class. The question is as to their most efficient util- ternational Conference is not known.

The Dial's Diary

By the Trouble-Shooter

Most set owners will switch from one station to another in such a way as to break off one program and smash di-

bile before making the final shift. Do this "feeling" through broad tuning rather than by cutting down on the

skill Yet it really is simple.

not it is to be considered by the Inresolves once more to adopt some sort

of effective radio reminder.

One of the best reminders, if one can e reminded to adopt it, is to keep a radio calendar in a conspicuous place behind the set. Select the best from the advance programs and jot them down on this calendar. It is one safe Just like shifting gears in an automobile, the radio operator who can go from one station to another without way to avoid missing the good things 2. annoying his guests or without making them conscious of what he is doing is more likely to be welcomed as host. on the air.

The Trouble Shooter Says: One of my pet problems nowadays is trying to eliminate this "motor boatng" annoyance from sets that are used rectly into another.

It is simple enough to wait for the end of a vocal selection or to hold off until the speaker has a chance to conwith "B" eliminators. Radio owners could avoid the trouble by buying good Instruments that are properly regulated.
Perhaps there would be less trouble from this cause if more radio, users would learn to regulate their "B" clude his statements before switching off the particular wave channel and tuning for another. To avoid breaking in upon a program in the middle of a selection, however, requires a little more isn't even particularly troublesome, since most sets today require little of the operators' attention and most Try the station faintly first, instead of with full power. This is comparable to feeling out the gears of an automo-

people like to play some part in the work of getting the best from the set.

"Motor boating" is that characteristic "put-putting" that comes at various times during reception. Other forms of distortion can and do come from the this "feeling" through on the rather than by cutting down on the filament voltage. That is, come near the channel of the desired station without getting so close as immediately to obtain sharp or loud results.

Radio Reminder Needed.

It is surprising to find during the day how many excellent things one missed the night before on the radio. Friends at the luncheon table ask: "Have you heard this and have you heard thet?" Fadio reviews in the "WORLD SERIOUS" heard that?" Radio reviews in the newspapers discuss the fine features of the night before. One feels as though much of value has been missed, and -FOR A MOMENT-Was Your Radio Up to Batting FOR RADIO TROUBLES

vivivivi vivivi Marshall & Co.

R-A-D-I-O Exclusively 94 DORRANCE STREET Opp Narragansett Hotel

RADIO JIM OF BROADCAST FAME 'ALWAYS AT YOUR SERVICE"

Examination and Expert Advice Without Charge

DEXTER 7274 Trained Experts in Attendance

It'll Be Different.

Next Wednesday evening, at 8 o'clock, we will make our initial broadcast over Station WLSIthe Lincoln Studios-375 metres.

We believe you will find it enjoyable and profitable.

Rhode Island Welding Co.

Welders, Battery Builders, Automotive Johhers, Oil Burner Distributers

Weekly Radio Test

- 1. What is meant by an "open
- 2. Do the individual stations keep in touch with each other by telephone or by telegraph during "network
- What is the "emitter" in an alternating current vacuum
- What is meant by a "gangof-three" condenser?
- What three types of substances are utilized as the source of electronic emission from vacuum tube file-

Answers to these questions will be found elsewhere on this

(Copyright, 1927)

plainly marked for various voltages, it does not seem possible that there could be voltage variation to any considerable extent without changing the connec tions or without having the electric light plant speed up or slow down. But here are the facts:

The voltage delivered by an elimina-tor will vary with the load. If the re-ceiver requires more current at one time than another the voltage will fall in accordance with the increase in load. Even if the set is connected, let us say, to the 90 volt ten the actual voltage. no harness upon freedom, that regulato the 90 voit tap, the actual voitage may rise way above this with any de-crease in the current requirements. An increase of 40 volts would not be un-usual if the load were decreased from 10 MA to 4. An eliminator with good regulation features, however would on this voltage increase to only nine volts. It will save trouble to learn to regu-

Did You Know That-An hydrometer can be used to test cells of a "B" storage battery but that it is not advisable to use this instruconflict have diminished with the ment for that purpose? There is so growth of understanding between men, little solution in each cell of a "B" and the first requirement of which in- storage battery that it is far better to reased understanding is enlarged com- use a voltmeter for this purpose, and

late the eliminator if it is not of th

more accurate.

A UX-200-A tube can be used in place A UX-200-A tube can be used in place of a UX-201-A tube, but after the tube ract world-wide attention is also to is lighted there will be a steady hissing few moments before reception A gathering which in lessification is also to is lighted there will be a steady hissing hold meetings co-incidentally with the for a few moments before reception

International Radiotelegraph Conference. Beginning Wednesday, Oct. 11, gatherings will be held of the International Union of Scientific Radio Telegwill settle down to normal?

Most of the trouble with the better sets of today, or those sets which have been rewired to accommodate power tubes of various sorts, is due to incorof radio in the French army, is the President. Dr. L. W. Austin of the Bureau of Standards, is the head of the and bad tonal effects develop?

Their deliberations, however, will Hydrometers and Their Use. have to do entirely with the physical A hydrometer, used for testing stor age batteries, consists of four parts In acknowledging his election as President of the conference, Secretary Hoover remarked that international Electrical Manufacturers' Association, agreements are essential to orderly conduct.

Association, One of the questions, which this body conduct. And finally, in connection with the Rubber bulb, rubber hose, glass consessembling of the radio world in our tainer and the hydrometer. The bulk will discuss in Washington will be the advisability of the numbering of radio wave lengths from 1 to 96 to do away the glass container and floats the hymith the bethersome kilographs, and

> Maximum DX Reception. For those who aspire to maximum DX efficiency, a positive and variable resister with resistance range of practically zero to five megohms may be just the correct grid leak value for th But resolutions soon are broken. The powerful local signals and the weak evening passes, and the programs too, long distance signals.

> > ANSWERS TO RADIO TEST

A jack which needs the insertion of a plug in order to close the circuit.

Telegraph The small thimble affair which fits the alternating current heater and which is insulated from the latter. It carries the electrons and emits them when

heated, in turn, by the heater. Three condensers connected to-gether for single tuning control. Metals such as melybdenum and tungsten; these metals mixed with thoria in small amounts; and oxides of various metals such

KOLSTER

A Year To Pay At

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 stations denote wave length. The hours are based on Eastern Standard Time.

10:00—Music, WFEL, 258.
Correct time, WBZ, 333.
Music, WBZ, 333.
Music, WJZ, 454.
Correct time, WJZ, 454.
Violinist, WHAM, 278.
Music, WPG, 273.
10:15—Talk, WEEI, 448.
Music, WKBW, 217.
Correct time, WTAG, 517.
10:20—Radio review, WEEI, 448.
10:30—Music, WEAF, 492.
News, WEEI, 448.
News, WBZ, 333.
12:00—Church, WBSO, 384.
DISTANT STATIONS

Music, W.I.W. 428,
Music, WAGO 448,
Talks, WRG, 469,
Music, WRR, 478,
10:30—Feature, KMTP, 526,
Church, KNX, 336,
Music, KPT, 460,
10:52—Weather, KFI, 460,
11:00—Correct time KGO, 384,
Orchestre KMTR 526,
Church, ENX, 336,
Organ, KFT, 489,
Music, WMAG, 448,
11:15—Lecture, KFIIO, 545,
11:30—Weather, KGO, 361,
11:35—Church, KGO, 361,
11:35—Church, KGO, 361,
12:00—Music, KNX, 336,
Weather, WCCO, 405,
12:30—Orchestre, KMTR, 526,
1:00—Music, KGO, 361,
Feature, KMX, 336,
Feature, KMX, 336,
Feature, KMX, 336,
Feature, KMX, 336,
Feature, KKI, 449,
2:00—Concert, KFI, 449,
Correct time, KGO, 384,

Where you can see and hear the

best makes in actual operation.

ATWATER-KENT

& SONS

PAWTUCKET

495 WESTMINSTER ST.

LOCAL STATIONS 10:30-Church, WLSI, 375. 10:55—Church, WEAN, 319. 2:00—Music, WLSI, 375. 2:30-Music, WCOT, 225. 3:00-Music, WEAN, 319. 3:30-Organ, CWOT, 225. 4:00-Music, WEAN, 319.

4:00—Music, WEAN, 319, 5:00—Talk, WEAN, 319, 6:30—Organ, WEAN, 319, Music, WLSI, 375, 7:00—Music, WEAN, 319, 7:10—Talk, WJAR, 484, 7:17—Weather, WJAR, 484, 6:00—Church, WLSI, 375, 9:00—Music, WEAN, 319, 9:15—Correct time, WJAR, 10:00—Music, WEAN, 319, WJAR, 484

9:00—Music. Wears, 319.

9:00—Children's hour. WJZ, 454.

9:30—Church, WKBW. 217.

10:30—Church, WKBW. 217.

10:30—Church, WKBW. 217.

Church, WHAM. 273.

10:45—Church, WBZ, 333.

Church, WHAR. 273.

Church, WOO. 508.

Church, WEEI. 448.

10:50—Church, WRNY, 319.

Church, WRNY, 319.

Church, KDKA, 316.

Church KDKA, 316.

Church WAAM. 349.

12:31—Music. WAAM. 349.

12:31—Music. WAAM. 349.

1:30—Organ, WAAM. 349.

1:30—Organ, WAAM. 349.

2:00—Church, WEAF, 492.

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

2:15—Trio, WHAR. 273.

2:30—Feature. WAAM. 349.

3:45—Church, WHAR. 273.

3:30—Music. WOR. 422.

Conference. WEAF, 492.

Church, WKBW, 217.

Lecture, WRNY, 309.

Feature, WAAM. 349.

4:00—Music, WJZ, 454.

Music, WJZ, 454. EASTERN STATIONS

Fequire, WIAG, 317.
Organ, WGY, 380,
Feature, WEAF, 492.
4:15-Music, WPG, 273.
Organ, WHAM, 278.
4:30-Church, WFI, 408.
Music, WTIC, 535.
4:45-Church, KDKA, 316.

4:45—Church, KDKA, 316.
5:00—Music WRNY, 309.
5:15—Music, WPG, 273.
5:30—Radio vespers, WHAM, 278.
Music, WEAF, 492.
Music, WEAF, 492.
Music, WEAF, 492.
Music, WGY, 380.
6:00—Orchestra, WFI, 408.
Music, WGY, 380.
6:00—Orchestra, KDKA, 316.
Music, WRNY, 309.
6:30—Music, WFBL, 258.
Feature, WJZ, 454.
Music, WTIC, 535.
Orchestra, WEAF, 492.
6:55—Baseball, WJZ, 454.
6:55—Baseball, WJZ, 454.
6:55—Baseball, WBZ, 333.
6:58—Highway news, WEEI, 448.
7:00—Music, WHAM, 278.

7:00-Music, WHAM, 278. Music, WBZ, 333.

00—Music, WHAM, 278.

Music, WBZ, 333.

News, WEI, 448.
Church, WKBW, 271.
Organ, WJZ, 454.

Music, KDKA, 316.
Correct time, WJZ, 454.

055—Trio, WEAF, 492.
110—News, WEEI, 448.
115—Church, WIP, 508.
120—Capitol Thentre proc
WEAF, 492: WEEI, 448; V
380: WTAG, 517.
7:30—Church, WFI, 408.

Music, WJZ, 454.
Music, WJZ, 454.
Music, WJZ, 454.
Bible story, WHAR, 273.
7:45—Music, WOR, 422.
Church, WHAM, 278.
Ensemble, WBZ, 333.
8:15—Music, WHAM, 278.
Feature, WJZ, 454.
Fe

Music, WGRS, 349.

9:00—Music, WFBL, 258.
Music, WOR, 422.
Nevs, WPG, 273.
Music, WGRS, 349.

9:10—Music, WGRS, 349.
Orchestra, WPG, 273.

9:15—Atwater Kent hour: WEAF, 492: WGR, 303: WFEI, 448: WGY, 380: WFI, 408: WTAG, 517.

S17.
Correct time, WFI. 408.
Correct time, WTAG, S17.
Correct time, WGY, 380.
Muslc, WBC, 333.
Muslc, KDKA, 318.
Correct time, WEFI, 448.
Muslc, WIZ, 454.
Muslc, WHAM, 278.
9:30—Muslc, WGBS, 349.
Muslc, WIZ, 454.
Muslc, WIZ, 454.
Muslc, WIZ, 454.
Muslc, WIZ, 454.
Muslc, WIF, 508.
Muslc, WHAM, 278.

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ONE OF THE FINEST RADIO

DEPARTMENTS IN NEW ENGLAND

RADIO PROGRAMS

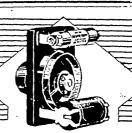
WJAR goes on the air tonight at 7:10, when James E. Dunne, Mayor of the city of Providence, will give the opening talk on Fire Prevention Week. The Capitol Theatre program will be heard at 7:20 p. m. Tomorrow at 9:30 p. m. the National Grand Opera Company will present Verdi's opera, "La Traviata." Tucsday at 8:35 p. m. Southern Abbott, baritone soloist, will be on the air. At 2:30 p. m. on Wednesday will be broadcast the Columbus Day civic celebration direct from the Columbus Monument, Providence, A Honolulu quintet will be on the air at 6:45 p. m. on Thursday. A talk on Fire Prevention week will be heard at 8:40 p. m.

Friday. The usual program will be heard on Saturday. WEAN will commence broadcasting at 10:55 a. m. with the service from All Saints Memorial Church. The Columbia chain program will be heard at 3 p. m. and at 6:30 a talk by James Saints Memorial Church. The Columbia chain program will be heard at 3 p. m. and at 6:30 a talk by James Báron on Fire Prevention Week will be heard. An organ recital will be broadcast at 6:30 p. m. and the Columbia chain programs will be on the air at 9 p. m. and 10 p. m. The Dudley radio cartellers of the Bible Institute will be cartellers of the Bible Institute will be efficient in noint of distance covered. on the air at 9:15 p. m. on Tuesday. There will be heard a talk on the Girls' City Club at 4:35 p. m. Wednesday. Thursday at 7:35 p. m. Albert D. A. Malmberg, baritone, will be on the air, accompanied by Mrs. Burlingame Allen. Eddie Casy and his harmonica tipple orchestra will be broadcast at 8:30 p. m. on Friday. At 8 p. m. on Saturday will be broadcast the staff frolic "All Around the Kee of See."

WLSI starts broadcasting at 10:30 a m. with the International Bible students' program. At 2 p. m. and 6:30 p. m. the Golden Age quartet of Boston will be on the air. The service from the Seventh Day Adventist Church will be broadcast at 8 p. m. There will be no programs broadcast tomorrow. Tuesday at 7:45 p. m. Miss Eva Bacon, soprano, will be on the air. Wednesday at 9 p. m. will be "Good Fellows' Hour." Mrs. Marian Tetreau will give a talk on astrology at 8 p. m. on Thursday. At 10 a, m. on Friday a health talk will be broadcast by Mrs. A. V. Goffe. Saturday the customary programs will be

WCOT will start broadcasting at 2:30 p. m. with a studio program. At 3:30 p. m. an organ recital will be heard. Tomorrow at 2:30 p. m. will be broadcast a studio program and an organ recital. Tuesday at 8:30 p. m. Jimmie Holmes and his orchestra will be on the air. The moonlight entertainers will be broadcast at 8:20 p. m. Wednesday. Thursday at 8:30 p. m. Arthur Gilmet, pianist, will be on the air. At 8:20 p. m. on Friday will be broadcast a sym-phonian orchestra. Saturday at 9 p. m.

Continued on Page Nine



TONES AS CLEAR AS CRYSTAL

Tone quality is what radio listeners want. Volume if the tones are blurred.

Carborundum Stabilizing **Detector Unit**

brings you crystal clear, natural tones with volume and selectivity.
Can be used on practically

\$3.50 Dealer or direct. Or IN U.S.A. the Carborundum Detector alone for \$1.50. Send for Hook-up Book THE CARBORUNDUM COMPANY

Niagara Falls, N. Y.

TUBES AVG. OF

Steadier Performance -Longer Life!

A nationally known set maker tested CeCo Tubes, and 15 other

The results are shown by the graph printed above. After 1000 hours (the average life of most 201A Type Tubes) CeCo Tubes proved to be as efficient as at the peginning of the test. (See upper line of graph). The average decline in efficiency of the other 15 makes is shown by the lower line.

There's a CeCo Tube for every radio need to make a good receiver better! ASK YOUR RADIO DEALER



Coast Guard Warned Against Neglect of Visual Signalling

In Time of War Radio Silence Will Be Imperative and Messages Must Be Transmitted by Land Wire, Heliograph or Light Code

multications be maintained not only as of the McCunough to properly co-op-are a matter of war-time preparedness but for the further purpose of relieving the air of a considerable volume of the traffic now unnecessarily transmitted by radio."

The McCunough to properly co-op-erate with the fleet, owing to the fact that she was not equipped with a signal-ling and lack of time and material would apparently preclude her obtain-

efficient, in point of distance covered, of all visual signalling appliances," Lieut. Meals declares. "Briefly, the heliograph is an instrument for sig-nalling by flashing the sun's rays from the face of a mirror. If the mirror is directed exactly at the required spot, its flashes cannot be read more than 10 yards on each side of the latter when the distance is a mile, or 50 yards if two miles. The mirrors, sighting vane, and other mechanism for adjustment are mounted on a tripod. It will probably surprise radio fans to learn that communication has been established over 215 miles by heliograph."

Since the advent of radio telegraphy the Ardols was formerly in general use the tendency to depend more and more throughout the navy and Coast Guard upon radio has grown with a consequent neglect and inefficiency of visual communications, is a warning of the Coast Guard communications section, of which Lieut E. M. Webster Ir. is which Lieut. E. M. Webster, Jr., is apparatus was operated by means of a of which Lieut. E. M. Webster, Jr., is the head.

"In time of war, radio silence will be imperative," Mr. Webster goes on, "and no message will be sent by radio if it can be sent by land wire or visual. It is, then, extremely desirable that a high rate of efficiency in visual commodore Dewey on April 17, 1888, for duty with the Asiatic squadron, some doubt was had as to the ability munications be maintained not only as matter of war-time preparedness but earned with the fleet owing to the earned with the fleet owing the ear

on deck, signal yard rigged on the fore-mast, and when, on April 27, the Mc-Cullough, under fire from the Spanish shore batteries, steamed into Mania bay with Dewey's victorious squadron. she carried a "hay-wire, soap-box" Ar dois system which in point of operation was the equal of any in the fleet.

Worth Knowing.
The difference between straight line frequency and straight line wavelength condensers is, the former separates the stations at equal intervals along the dial, while straight line wavelength condensers cause them to be bunched between 10 and 50; above that they are A system of signal lights known as more widely separated.



Each Wednesday Night from 6:30 to 7:00 the Jeddo-Highland Coal Company will broadcast groups of songs by THE JEDDO-HIGHLANDERS a double male quartet, conducted by Mr. Marshall Bartholomew, Director of the Yale University Glee Club.

The Lehigh coal that we sell is exclusively that mined by the Jeddo-Highland Coal Company.

Seaconnet Coal Company

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Radio Service

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1st. First store in Providence to offer definite, satisfactory Service Plan. (1924). 2nd. No matter what the job, we'll do it. 3rd. Satisfaction first, or no charge.

4th. Intelligent, conscientious advice about new apparatus and A. C. Power devices.

and finally, BECAUSE

these men understand your requirements.

R. C. BLANCHARD Gov't Licensed Radio Operator since 1913 Radio in every branch

STANLEY W. ATKINSON Gor't Licensed Radio Operator since 1921

Graduate RCA Radiola Service Men's School Handles all Radiola Service ELLERY MARTIN

Graduate National Radio Institute Service-Repairs-Installations

GEORGE W. SHARPE Gov't Licensed Radio Operator Repairs and Installations

ALDEN SMITH Gor't Licensed Radio Operator

Service-Repairs-Installations "Service That Satisfies" Blanchard Radio & Electric Co.

248 Weybosset St.

Providence

7 Elm St. North Attleboro, Mass.

RADIO PROGRAMS

m the Olympia ballroom.
WIAR—THE OUTLET COMPANT—184

#IAR—THE OUTLET COMPANT—484 | 9:00 p. m.—Columbia chain program.

10.00 p. m.—Home service radio talk.
10.00 p. m.—Columbia chain program.
10.00 p. m.—Home service radio talk.
10.00 p. m.—Home service radio talk.
10.00 p. m.—Asia Serenaders.
10.00 p. m.—Columbia chain program.
10.00 p. m.—Home service radio talk.
10.00 p. m.—Asia Serenaders.
10.00 p. m.—Asia Serenaders.
10.00 p. m.—Asia Serenaders.
10.00 p. m.—Weather report.
11.55 a m.—Time slonnis
12.00 p. m.—Asia Serenaders.
12.00 p. m.—Weather report.
12.00 p. m.—Weather re

gram.
The weather report.
The m.—Musical program under the drection of Harold Strong, tenor solutions.

Charles W. Morrin.

2.30 p. m.—Correct time.

2.30 p. m.—A. & P. Gypsies.

2.30 p. m.— Orand Opera Hour" by the Stational Grand Opera Company, Presigning Verdi's opera 'La Traviata, Thesday.

Charles W. Morrin.

2.30 p. m.—Musical program.

2.30 p. m.—Di'ry House Tonight—WNAC players present "Camille"

2.15 p. m.—Dudley radio carollers of the Bible Institute.

Wednesday.

tisk.

13 p. m.—Weather report.

13 p. m.—Columbus Day civic celebration direct from the Columbus Moniment, Froudence.

13 p. m.—Weather report.

ment, Frevidence.

135 P. m.—Weather report.

136 P. m.—Weather report.

137 P. m.—Unght Opera Hour," by the National Light Opera Company, presenting "loianthe."

138 P. m.—Fire Prevention Week talk.

139 P. m.—Firest R. Greene, bass solosist, and Mullard E. Ashley, barntone.

130 P. m.—Gorrett time.

130 P. m.—Gorrett time.

130 P. m.—Goodrich orchestra and tenor.

Thursday.

138 a. m.—Housewive's Radio Exchange, a department conducted by Mrs. Wood on matters of household interest.

130 P. m.—Studio Household Institute.

135 P. m.—Studio Program.

136 P. m.—Studio program.

135 P. m.—Goothination of studio program.

135 P. m.—Weather report.

135 P. m.—Honolulu Quintet.

135 P. m.—Weather report.

135 p. m.—Continuation of studio program.
6 t5 p. m.—Honolulu Quintet.
132 p. m.—Weather report.
132 p. m.—Weather report.
132 p. m.—One of a series of human interest talks to be given by F. Stewalt Stranshan, Jr., of the Tille Guarantee Company of Shode Island.
136 p. m.—Coward comfort hour.
1800 p. m.—Coward comfort hour.
1800 p. m.—Correct time.
1800 p. m.—Correct time.
1800 p. m.—Chicquot Club Eskimos.
1800 p. m.—Chicquot Club Eskimos.
1800 a. m.—Housewives' Radio Exchange,
a department conducted by Mrs. Wood on matters of household interest.
Questions submitted will be answered by radio.
1800 a. m.—Betty Crocker home service talk.
1805 p. m.—Studo program.
1815 p. m.—Weather report.
1820 p. m.—Weather report.
1820 p. m.—The Blue Belles."
1840 p. m.—The Blue Belles."
1840 p. m.—Musical program.
1855 p. m.—Musical program.

10:55 a.m.—Service from All Saints Memorial Church
3:00 p.m.—Columbia chain program.
4:00 p.m.—Columbia chain program.
5:00 p.m.—Columbia chain program.
6:30 p.m.—Organ recital.
7:00 p.m.—Organ recital.
7:00 p.m.—Columbia chain program.
10:00 p.m.—Columbia chain program.
10:00 p.m.—Columbia chain program.
10:55 a.m.—Time signals.
10:00 m.—Asia Screpaders.

-Asia Berenaders 12:30 p m.-Weether report. 12:35 p. m.-Continuation of musical pro-

p. m.—Boston dinner dance.
p. m.—Dinner dance.
p. m.—Army Recruiting realities 7:35 p. m .- Fire Prevention Week talk by



PARKER HOUSE Dinner Dancing-no cover charge

600 guest rooms with tub. shower bath and circulating ice water. Rates \$3.50 and up. HOTEL TOURAINE Supper Dancing-10 P. M. to 1 A. M. J. R. Whipple Corporation BOSION, MASS.

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Look Young! Bring Back Its Natural Color, Gloss and Attractiveness

Common maiden sage brewed into a heary toa with sulphur added, will turn say, streaked and faded hair beauti-Fig. streaked and feded hair beautifully dark and luxuriant. Just a few applications will prove a revelation if fur hair is feding, streaked or gray the feet of the and Sulphur section. Fire hair is foding, streaked or gray Mixing the Same Tea and Sulphur Jeeipe at home, though, is troublesome An easier way is to get a bottle of Wyeth's Sage and Sulphur Compound it any drug store all leady for use for only 15 cents. This is the old-time radge improved by the addition of other ingredients

while improved by the addition of other ingredients.
While wispy, gray faded hair is not finul, we all destre to retain our jouthful appearance and attractive-less. By darkening your hair with Wyeth's Sage and Sulphur Compound no one can tell, because it does it so haturally so that you had damben as one can tell, because it does it so naturally so evenly. You just dampen a sponge or soft brush with it and caw this through your nair, taking one small chart at the, by morning all arms of a love deappeared, and. Mer arms of the control to the control to the care of Province the continuous two your fectors has the control of two sources are continuous to the control of the co

-- Aquertisement

8-5 .1. -E--

Continued from Page Eight

| Hugh F Zambrano.
| 500 p. m — Musical program.
| Si30 p. m — Musical program. 9:00 p. m.—Columbia chain program. 10:00 p. m.—Columbia chain program.

42'05 D. m.—Continuation of musical pro-ram.
4:00 p. m.—Musical program.
4:30 p. m.—Beston dinner dance.
7:00 p. m.—Beston dinner dance.
7:00 p. m.—Broadcast from Shepard Col-onial Restaurant.
7:30 p. m.—Fire Prevention Week talk by Charles W. Morrin.
5:00 p. m.—Musical program.

| Sop | m — Weather report | 11.55 | m — Continuation of studio property | 12.50 | m — Weather report | 12.50 | m — Safety Talk under the auspices | 12.50 | m — Musical program | 12.50 | m — Musical program | 12.50 | m — Musical program | 12.50 | m — Gris' City Club talk | 13.50 | m — Broadcast from Shepard Colonial Restauraght | 13.50 | m — Broadcast from Shepard Colonial Restauraght | 13.50 | m — Broadcast from Shepard Colonial Restauraght | 13.50 | m — Broadcast from Shepard Colonial Restauraght | 13.50 | m — Broadcast from Shepard Colonial Restauraght | 13.50 | m — Broadcast from Shepard Colonial Restauraght | 13.50 | m — Broadcast from Shepard Colonial Restauraght | 13.50 | m — Broadcast from Shepard Colonial Restauraght | 13.50 | m — Broadcast from Shepard Colonial Restauraght | 13.50 | m — Broadcast from Shepard Colonial Restauraght | 13.50 | m — Broadcast from Shepard Colonial Restauraght | 13.50 | m — Broadcast from Shepard Colonial Restauraght | 13.50 | m — Broadcast from Shepard Colonial Restauraght | 13.50 | m — Broadcast from Shepard Colonial Restauraght | 13.50 | m — Broadcast from Shepard Colonial Restauraght | 13.50 | m — Broadcast from Shepard Colonial Restauraght | 13.50 | m — Broadcast from Shepard Colonial Restauraght | 13.50 | m — Broadcast from Shepard Colonial Restauraght | 13.50 | m — Broadcast from Shepard Colonial Restauraght | 13.50 | m — Broadcast from Shepard Colonial Restauraght | 13.50 | m — Broadcast from Shepard Colonial Restauraght | 13.50 | m — Broadcast from Shepard Colonial Restauraght | 13.50 | m — Broadcast from Shepard Colonial Restauraght | 13.50 | m — Broadcast from Shepard Colonial Restauraght | 13.50 | m — Broadcast from Shepard Colonial Restauraght | 13.50 | m — Broadcast from Shepard Colonial Restauraght | 13.50 | m — Broadcast from Shepard Colonial Restauraght | 13.50 | m — Broadcast from Shepa

11 00 m.—Asis Stenanders, 12 00 m.—Asis Stenanders, 12 00 m.—Weather report, 12 30 p. m.—Continuation of musical pro-

12.35 p.m.—Continuation of musical program.
4 00 p.m.—Orden recital.
4 30 p.m.—Weether report.
5 30 p.m.—Asia Serenaders.
7:30 p.m.—Pire Prevention Week talk by
James Ira Shepard.
7:35 p.m.—Albert D. A. Malmberg. Swedish baritons, Mrs. Burlingame Allen.
accompanist.
8:00 p.m.—Depyto Hawaiians.
E.30 p.m.—Broadcast from Metropolitan
Theatre Studios.

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10:00 a. m.—"American Homemakers'" program under the direction of Mrs. Ida S. Harrington.

11:00 a. m.—The WEAN Cooking School under the direction of Alice Bradley.

11:00 a. m.—The WEAN Cooking School under the direction of Alice Bradley.

11:00 m.—Organ rectial.

11:00 p. m.—Weather report.

4:00 p. m.—Weather report.

4:00 p. m.—Weather report.

6:00 p. m.—Dinner dance.

7:05 p. m.—Uncle Red, auspices Providence Safety Council.

1:30 p. m.—Giris City Club talk.

8:00 p. m.—Bddie Casey and his harmonics tipple orchestra.

9:00 p. m.—Columbia Chain program.

10:00 p. m.—Columbia Chain program.

10:00 p. m.—Columbia Chain program.

10:00 p. m.—Columbia Chain program.

11:55 p. — Saturday 10 00 p m.—Cclumbia Gnain program.

Saturday

11:55 a. m.—Time signals.
12:00 m.—Asia Serenaders.
12:30 p. m.—Weather report.
12:35 p. m.—Fire Prevention Week talk by
Harvey Saul.
6:30 p. m.—Boston dinner dance.
7:00 p. m.—Musical program.
6:00 p. m.—Staf frolic, "All Around the
Kee of See."

9:00 p. m.—Ted Greene, planist.
9:15 p. m.—Jane Graham, contralto.
9:30 p. m.—Dance music.

Wist Livicous WLSI-LINCOLN STUDIOS, INC.-575
10 30 a.m.-International Bible students'

113 p. m.—Broadcast from Metropolitan Theatre, Metropolitan Grand Orches-tra.

Silent.

Tuesday

5.30 p. m.—Guernsey Trio.

7:30 p. m.—Concert.

7:45 p. m.—Miss Eva Bacon, soprano.

10.09 p. m.—Hotel Biltmore orchestra.

Wednesday

6.00 p. m.—Hotel Dreyfus orchestra.

7:00 p. m.—I. B. S. A. Questions and

sanswers.

8.00 p. m.—K. of C. banquet broaders:

from the Narragansett Hotel ballroam.

7:00 p. m.—Wood Fellows' Hour.

Thursday

6.30 p. m.—Musical program.

7:30 p. m.—Musical program.

7:30 p. m.—Entertainers.

8:00 p. m.—Miss. Marian Tetreau, talk on

astrology.

8:15 p. m.—To be announced.

9:30 p. m.—Musical program.

Friday

10:00 a. m.—Health talk by Mrs. A. V.

Goffe.

6:00 p. m.—Hotel Dreyfus orchestra.

7:00 p. m.—H. B. S. A. choral singers.

8:00 p. m.—Wisl happy hour.

9:00 p. m.—Arcadia dance orchestra.

Saturday

6:30 p. m.—Port Arthur restaurant orchestra.

10:00 p. m.—Hotel Biltmore orchestra.

10:00 p. m.—Hotel Biltmore orchestra.

10:00 p. m.—Hotel Biltmore orchestra.

WCOT-CONN'S OLYMPIA THEATRE-225 Today. 2 30 p. m —Studio program. 3 30 p. m —Organ recital. Monday.

2.20 p. m -Studio program and organ re-

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10 30 a. m.—international Bible Students
Program.
2 09 p. m.—Golden Age Quartet of Boston.
6 30 p. m.—Golden Age Quartet of Boston.
8 00 p. m.—Service from Church of the
Beventh Day Adventist. cital.

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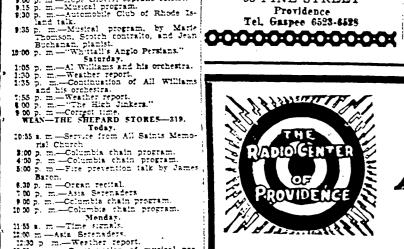
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9 00 p m.—Program from the Olympia ballroom. Tuesday,
2 30 p. m.—Studio and organ recital,
6:00 p. m.—Hawanan tropical trio.
6:30 p. m.—Jimmie Holmes and his orchestra.

Wednesday. Wednesday.

2:30 p. m.—Studio program.

3:30 p. m.—Organ program.

8:00 p. m.—Mr. Peter Favall, tenor.

8:20 p. m.—Moonlight entertainers.

9:00 p. m.—Olympia ballroom dance orchestra.

Thursday.

2:30 p. m.—Studio program.

3:30 p. m.—Organ concert.

5:00 p. m.—Sweet brothers, harmony singing.

6:15 p. m.—Joe Bruen, tenor.

6:30 p. m.—Arthur Gilmet, plano selections

6:40 p. m.—Tad Waters, soprano.

8:50 p. m.—Billie Mach, soloist.

Friday. Friday. 2:30 p. m.—Studio program.

3 30 p. m.—Fran confert.
6 00 p. m.—Eugene Brosto, champion harmonica player of New England.
5 20 p. m.—Symphonian orchestra
Sauurday.
2:30 p. m.—Studio program.
3:30 p. m.—Organ recital.
5:00 p. m.—Billy Mack, amusement agency hour.
9:00 p. m.—Olympia ballroom dance orchestra.

EASTERN STATIONS

KDKA-PITISBURGH-316.

11:00 a. m.—Church service.
2:00 p. m.—Roxy and his gang.
4:45 p. m.—Vesper service from Shadyside
Presbyterian Church.
5:00 p. m.—Symphony orchestra.
7:00 p. m.—Service from Calvary Episcopal
Church.
8:15 p. m.—Collier's radio bour.

Continued on Page Ten

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4:30 p. m.—Chapel service.
5:30 p. m.—National concert orchestra.
7:30 p. m.—Service from Arch Street Pres
byterian Church.
9:15 p. m.—Correct time.
9:15 p. m.—Atwater Kent hour.

WHAM-ROCHESTER-278 . m.-Lake Avenue Baptist Church

WHAR-ATLANTIC CITY-273
a. m.-Service from Chelsea Baptist

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9:30 p. m.—Encore hour.

INDIANA OBTAINS NEW WAVE LENGTH

By Broadcasters

Stations WFBM and WKRF Al-

Indiana, a State heretofore poorly served, is now getting into the radio game in earnest. It raises the question with the broadcasting band already so badly overcrowded, of what might happen if all the other poorly served States should decide to do likewise, which they have every right to do under Section 9, Paragraph 2, of the Radio Act, which authorizes the Radio Commis-

This was the lever which Station
WFBM, of Indianapolis, effectively used to get itself a better wave leastly and the station of the station o WFBM, of Indianapolis, effectively used to get itself a better wave length at a time when it looked as if there were no more wave lengths to be had, also, to secure more power and to really start. secure more power, and to really start the ball rolling for Indiana.

Although this clause had been on the the central part of the city. Accord-books ever since the Act was passed six months ago, it apparently never oc- manager, the company plans to make curred to anyone to try it out until re-cently when a petition was received it one of the best in the country. It is expected that between \$40,000 from WFMB asking for a frequency of to \$50,000 will be spent in equipmeent. cently when a petition was received from WFBM, asking for a frequency of 1090 kilocycles, already shared by six stations, two of them, WORD with 5000 watts and WTAS with 3500 watts, at Batavia, Ill., and in the Chicago district.

"Why should Chicago, for instance, be allowed to have 40 to 50 stations, many of them powerful," was in effect, the plea of Thomas P. Littlepage, of Washington, D. C., counsel for WFBM, in calling attention to the equitable-

Washington, D. C., counsel for WFBM, in calling attention to the equitable-service-to-each-State clause, and with an eye on the two Chicago stations in Ind., to increase its power from 1000 question, "when Indiana, with a population of 3,000,000 has only 15 statutions and mostly low powered the high-sing." in calling attention to the equitable-service-to-each-State clause, and with tions and mostly low powered, the highest being WOWO at Fort Wayne, 1000

At a public hearing held in Washington, witnesses testified with WFBM, said to be one of the oldest stations in the State, far from reaching all parts

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Elevators

of Indiana, as it desired, was not even reaching all parts of Indianapolis, the city in which it is located. This not-withstanding the fact that it had once been heard as far away as Panama.

In fact, according to Everett N. Shinn radio engineer of WFBM, Indianapolis the capital of the State, seemed to be State Heretofore Poorly Served the With any degree of certainty, but that WLW at Cincinnati about a hundred with any degree of certainty. dred miles away was fairly dependable and that WSAI, also of Cincinnati, was heard in some localities, adding that

> atmospherics. Mr. Shinn said that one or two Chicago stations came in fairly well in the day time and about the same number at night, but none were heard if static prevailed. This notwithstanding the fact that Chicago was less than 200

neither one could be heard if there was

miles away. Subsequently, Station WKBF, Hoosier Athletic Club of Indianapolis inter-vened and asked that if a better frequency be given to WFBM, the same concession be accorded to them and that if the latter's power was increased, theirs be increased also.

The result was that the Radio Commission ordered the two Chicago sta-tions aforementioned assigned to another frequency and authorized the two sion to make "such a distribution of Mayer lengths among the different States as to give fair, efficient and equitable kilocycles (275.1 meters) WFBM's pow-

tion, to build a new station about four and one-half miles southwest of

ning.
Thus, along with a brand new sta

RADIO PROGRAMS

Continued from Page Nine

WAAM-NEWARK-349. WAAM—NEWARK—340.

11:00 a. m.—Service from Second Presby terlan Church.

12:30 p. m.—Correct time.

12:31 p. m.—Sabino Hawalians.

1:30 p. m.—Organ recital.

2:30 p. m.—To be announced.

WABC-NEW YORK-326.

a. m.—Service from West End F
byterian Church. WBAL-BALTIMORE-296

WBSO-BABSON PARK-384.

WBZ-SPRINGFIELD-333. m.—Service from Church
m.—Roxy and his gang.
m.—Radio talk.
m.—Blue and gold hour.
m.—Ensemble.

p. m.—Ensemble.
p. m.—Collier's radio hour.
p. m.—Musical program.
p. m.—Gorrect time.
p. m.—Musical program.
p. m.—Weather report.

10:30 a. m.—Lake Avenue Baptist Ch service.

3:30 p. m.—Symphony concert.

4:15 p. m.—Organ recital.

5:30 p. m.—National radio vespers.

7:00 p. m.—Dinner music.

7:45 p. m.—Dinner music.

8:15 p. m.—Vibrant melodies.

9:15 p. m.—Studio evensong.

9:30 p. m.—Morley singers.

10:00 p. m.—Correct time.

10:00 p. m.—Godfrey Ludlow, violinist. WEAF—NEW YORK—192

) p. m.—Interdenominational church services under direction of the Greater New York Federation of Churches.

) p. m.—Young people's conference under direction of the New York Federation of Churches.

) p. m.—Men's conference from the Bedford Branch Y. M. C. A., Brooklyn, N. Y.

p. m.—National concert orchestra with Michael Khariton, planist.

N. x.

5:30 p. m.—National concert orchestra with
Michael Khariton, planist.

6:30 p. m.—Biblical drama.

7:05 p. m.—Instrumental trio.

7:20 p. m.—Capitol Theatre program.

9:15 p. m.—Correct time.

9:15 p. m.—Atwater Kent hour.

10:15 p. m.—Readings from Shakespeare, by
Mrs. August Belmont.

10:30 p. m.—Cathedral echoes.

WEEI-BOSTON-448
m.-Service from the Old South Church.

6:58 p. m.—Highway bulletin from the Boston Automobile Club.
7:00 p. m.—Newspaper sidelights.
7:10 p. m.—News dispatches.
9:15 p. m.—Correct time.
9:15 p. m.—Atwater Kent hour.
10:15 p. m.—Cruising the air with Bill Harrison.

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10:20 p. m.—Radio review. 10:30 p. m.—News dispatches

WFRI.—SYRACUSE—258
m.—Columbia network.
m.—Dinner concert.
m.—Columbia network.
m.—Columbia network. WIP-PHILADELPHIA-508 m.-Service from Holy Trinit WEI-PHILADELPHIA- 408

WJZ-NEW YORK-454 9:00 a. m.—Children's hour.
1:00 p. m.—Feature.
2:00 p. m.—Roxy and his gang.
4:00 p. m.—Vesper service.
5:30 p. m.—Radio vespers.

5:30 p. m.—Radio vespers.
6:30 p. m.—Feature.
6:50 p. m.—Baseball scores.
7:00 p. m.—Organ recital.
7:30 p. m.—Organ recital.
7:30 p. m.—Feature.
8:15 p. m.—Collier's radio hour.
9:15 p. m.—Wibrant melodies.
9:30 p. m.—Morley singers with cello.
10:00 p. m.—Correct time. WGBS-NEW YORK-549
p. m.—Trio, Alec Compinsky, 'cellist:
Manuel Compinsky, violinist, and Sara
Compinsky, pianist,
p. m.—Vivien Holt, soprano, and Myrtle Leonard, contralto,
p. m.—Dale Bartholomew, concert
nianist. p. m.—Godfrey Ludlow, violinist, and Lolita Cabrera Gainsborg, planist. 9:10 p. m.—Agnes Armington Laidler, mezzo-contralto. 9:20 p. m.—Donald McGill, baritone, and Richard Kuntz, composer, at the

WKRW-BUFFALO-217 m.-Episcopal service from a. m.—Episcopal service from studio. p. m.—Public worship, chapel Churchill Tabernacle. 10:30 p. WGY—SCHENECTADY—380

m.—Service of First Paptist Church

m.—Organ recttal,

m.—National concert program,

m.—Capitol Theatre program,

m.—Correct time,

m.—Atwater Kent hour 3:00 p. m.—Bible meditation, main torium of Tabernacle. 7:00 p. m.—Evangelistic service. 10:15 p. m.—Back home gospel melody

WOO-PHILADELPHIA-508.
a. m.-Service from Bethany

terian Church. 2:30 p. m.—Sunday school. It's Surprising WOR-NEWARK-122 what a difference

m.—Columbia hour.
m.—Sunday evening musical.
m.—Harold Woodward, tenor, and
arry Sheckelford, haritone duos.

WPG-ATLANTIC CITY-273
4:15 p. m.—Community vocal and instrumental rectul.
5:15 p. m.—Twillight concert hour.
9:00 p. m.—News flashes.
9:10 p. m.—Concert orchestra.
10:00 p. m.—Sunday evening musical.

WRNY—NEW YORK—309

11:00 a. m.—Service from St. Matthew's
Lutheran Church.
3:00 p. m.—Wagnerian lecture by Mrs. R.
Seligman.
4:00 p. m.—Trio.
5:00 p. m.—Trio.
6:00 p. m.—'Little Journeys into Great
American Industries," by P. S. Arkwright.

WTAG-WORCESTER-517
4:00 p. m.—Men's conference from Bedford
7:20 p. m.—Capitol Theatre program.
9:15 p. m.—Correct time.
9:15 p. m.—Atwater Kent hour.
10:15 p. m.—News bulletin.

WTIC—HARTFORD—53.5
4:30 p. m.—Howard radio hour.
5:30 p. m.—Symphonic ensemble.
6:30 p. m.—Capitol Theatre organ

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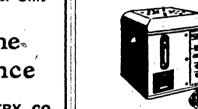
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Broadcasting Station W J A R

Announcing an Increase in Balkite Prices Effective October 7th

Important improvements recently made in various Balkite Radio Power Units have so affected production costs as to compel slightly higher prices as follows:

NEW PRICES Balkite B-180 42.50 Balkite B-135R (25-40 cycles) 39.50 Balkite AB-6-135R (25-40 cycles) . . . 74.50

Prices on Balkite Chargers, Balkite Trickle Chargers, and Balkite B-W remain unchanged. The new improvements are so important that Balkite is now an even greater value than in the past. See the new Balkite "A" at your dealer's. Its value is obvious.

Balkite
Radio Power Units

FANSTEEL PRODUCTS COMPANY, Inc., North Chicago, Illinois



TRAPS Himself

Take any good broadcast

orchestra. Listen awhile to snare drums-kettle drums -xylophones. Then, with dials and knobs as they were, plug in Willard Radio

HEAR

Turn the music up loud for a roomful of guests-or soften it down to an echo., Shut your ears to outside noises, if you will. Mister Traps will help you choose your "A" Power Unit by any test you care to make.



The Willard Radio"A"PowerUnit

Connects direct to your lighting circuit. Gives you steady, full-powered "A" current. Has two charging rates, ½-ampere for trickle charge, and 2-ampere rate for larger sets - and for emergencies.

Ask your Lighting Company, your Radio Dealer or your Willard Service Station to demonstrate for you. Let your own ears hear the difference.



APPLYING POWER TUBE TO OLD SET

May Be Added to Almost Any Well-Built Receiver

date that the greatest source of distortion in radio rendition is due to the overloading of the last tube. Hence receiver which still employs the last stage, should be equipped with a power tube. While some changes must be made in sets not designed to accommodate the power tube, these changes are but minor ones and installation in the average receiver may completed in a few minutes by anyone qualified to undertake such work. The good reception, yet without excessive temperature to shorten the life of the ceiver design, and no balancing or re-adjusting of the set is required.

equivalents. Both these tubes require of intended for a power tube will have no provision for a C battery, the simpl- of turning down the tube filaments. est scheme is to make use of a power tube adapter, which has leads for the C battery. In this way the wiring of

tial, with 27 volts for the C or grid bias, or 180 volts with 40.5 C or grid When supplying the plate and grid voltages from dry B batteries, always

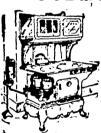
use the heavy duty size. If a B-battery climinator is used, it should be capable of supplying 16 milliamperes at 135 volts or 20 milliamperes at 180 volts for the 171 tube, in addition to the plate current requirements of the other tubes in the receiver. For grid biasing (C-battery) the tapped 22½-volt type convenient, and one of the smalle batteries manufactured for portable sets, with extra taps conveniently arranged, will be found best.

Considerable power output—ample for ordinary home use—is obtained on B-battery voltages of 90. When this voltage is used the B-battery voltage must be kept up close to 90 or the power output will be greatly limited. As the B-battery voltage drops, one or more 4½-volt heavy duty C-batteries may be added in series to bring the voltage up to the desired value.

For dancing, or wish a loud speaker with exceptionally heavy power requirements is being used, higher von-ages are needed. When used on plate voltages in excess of 90, an output transformer, having a 1.1 ratio and of ow primary resistance, is advisable. combination of low resistance choke and by-pass condenser may also be used, if preferred. Many speakers of the larger types are capable of carrying the current required by the tube at 135 volts, and in such cases the transformer may be dispensed with, but it must be remembered that an appreciole voltage drop occurs, due to the re sistance of the speaker windings. Hence much better life will be obtained from dry cell B batteries when the transmer or the choke and condenser arrangement, is added.

The importance of maintaining tube filaments at the proper operating tem-perature is too well known to require reiteration at this time. However, what one cannot make a good guess of proper filament temperature. Merely locking at the intensity of the filament glow

> Silent Glow Oil Burners



Noiseless Safe, Economcal. Sizes for Ranges, Stores. Heaters

R. I. Welding Co.



indicates absolutely nothing. It necessary to employ an accurate volt-meter, so as to maintain the voltage at the volume specified by the tube manufacturer, or to use some form of auto-

providing automatic filament regula-tion has been introduced, which is available for any existing receiver. It consists of a clip which takes two automatic current regulators or amperite cartridges, connected in series with the -A lead, from the A-battery or fila-ment battery, to the radio set. The amperites are selected so that their combined current regulating capacity is balanced to the current regulrements of all the tubes of the receiver. Any combination, from three plain tubes to seven tubes including a power tube, may be arranged for by the proper se-lection of the regulator cartridges.

No tools are required to install this automatic filament-regulating system. The wiring is taken care of by wire clips. In the receiver itself, the only thing to do is to turn the rheostats full on, so that there will be no resistance in the circuit from this source.
If so-called ballasts or fixed resistors are employed in the set to limit the filament voltage, these are short-cir-

With the arrangement outlined, the radio operator is assured the proper filament temperature at all times, with tubes.

If a volume control is required, this

For the storage-battery set, there are is provided by shunting a variable high two types of power tubes available, resistance with a range of 0 to 250,000 Paper condensers, although apparent-ohms, across the secondary of the first ly simple, are really intricate things to old-time set is simplified so far as its the set is not disturbed.

The 112 type is the smaller power tube, taking a maximum plate or B voltage of 135, with a C or grid bins voltage of 9. It provides a fair degree of volume without distortion.

However, for ample rendition it. However, for ample rendition it is best to employ the 171 type, which operates either at 135 volts plate poten-

SILENCE EXPLAINED

Receiver Registers Only Variations in

"Mike" Circuit. Have you ever wondered why it is that with the radio set turned on but not tuned to a station and with the filaments lighted and high voltage applied to the plates nothing is heard from the loud speaker except an occa-sional crackle caused by some disturbance in the electric power supply?

If you have made this observation and have speculated without being able to find a ready answer, it is a foregone conclusion that an essential in radio is not entirely clear.

The explanation is that although current is passing through the loud speaker or telephone connection, noth-ing is heard unless that current flow is modulated. What one hears in the way of occasional crackles is disturb-ance in the flow of the current. The current flow itself is silent like the carrier wave which goes out over the air and which is picked up by a receiving station while the former is in operation. It is only when the carrier wave is modulated by variations in the microphone current that anything is heard in the receiving apparatus.

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elevation, equable temperature the year
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SOCKET-POWER Recently, an ingenious method of

Involves Use of Best Grades of Paper Condensers

radio power units include many condensers, and these compo, when analyzed, comprise the est kind of paper together with it. The paper serves to insulate ers to employ inferior condensers or condensers of insulate ers to employ inferior condensers or condenseries of insufficient working different from the usual battery-operations in the server point resistance, which one strip of tinfoil from the other, and the electrical charges are bucking and fighting that thin paper wall all the while. However, the paper wall must be of sufficient strength to resist these attacks, for otherwise it soon breaks down and the charges pour through ruining the radio power unit of which the condenser is a part.

audio transformer. This method pro-vides distortionless volume control, as compared with the erroneous method arating two strips of tinfoli, the mass In the foregoing manner, then, the tually, however, the paper must be of a special kind, and of thickness of about half a thousandth of an inch Never less than two thicknesses of the 1000-voit condensers run as high as six "papers." The paper is carefully examined for flaws, such as pinholes and more particularly metallic particles that come off the steel rollers used in paper making.

Tinfoil strips and separating paperare wound together on a widing machine, by girl operators. When the proper length has been wound on for the desired capacity, the ends are cut and the outside paper pasted to hold

the rolled mass. Subsequently, the con- paper condensers of ample working ca- serves to eliminate the hum due to the

kettle, and the air pumped out. This price. draws out all the moisture which may have found its way into the condenser. A-eliminator problem is afforded by the ard sockets, in the case of the heavy heavy change the boiling wax is permitted to rush A. Q. tubes now available. These tubes, filament type. into the vacuum kettle, and it penetrates not only into every crevice of the
trates not only into every crevice of the
pressure rack, but it also permettes
in any existing receiver, or any receiver
last fibre of the heretofore plain
to be constructed can be made to take

| A. O. tubes now available. These dates
| A. O. tubes now available. The seaso of the heater tube, there are table, the results and ditional terminal provided for the other and still provided for plate and grid return connections. In any existing receiver, or any receiver and the tube has therefore a five-prong base as already mentioned. This type
| Toll of the Tornado. In round numbers there are 100 tornados in the United States every year;
| D. tubes now available. The season of the heater tube, there are tibe, ther paper. As a consequence, the entire the new tubes.

mass, compacted as it is, becomes per
The A. C. tubes, operating on raw A. meated with insulating wax.

teries, depends on paper. In other words, radio power units include many paper condensers, and these components, when analyzed, comprise the market, there is a tendency on the part thinnest kind of paper together with of the less consequently.

C., or alternating current stepped down Condensers, contrary to lay opinion, are subjected to wear and tear while in use. They have a definite life, just as with an electric lamp or motor or fits in the usual socket, and which is Now.

Now.

Few of us realize that the entire art of socket-power radio, which frees us from the trouble and expense of batteries depends on paper. In other least of the socket-power radio are paper. In other least of the socket-power radio and expense of batteries depends on paper. In other least of the socket lamp or motor or fits in the usual socket, and which is suitable for use as a radio-frequency amplifier and an audi-frequency amplifier, but not as the detector; secondly, the heater type, in which a heater wire is enclosed in an insulating tube which the latter of the socket, and which is suitable for use as a radio-frequency amplifier and an audi-frequency amplifier and an insulating tube which is enclosed in an insulating tube which is enclosed in an insulating tube which is suitable for use as a radio-frequency amplifier and an audi-frequency amplifier and an audi-frequency amplifier and an insulating tube which is enclosed in an insulating tube which is enclosed.

denser is tested, and then placed in a pressure rack, where it is squeezed flat, together with many other condensers held in the same rack.

The rack is then placed in a pacity, together with other good components, a radio power unit is by no means a cheap proposition. If the radio set owner wants a good radio power connects across the flament or heater lit should be noted that the current The rack is then placed in a vacuum settle, and the air pumped out. This raws out all the moisture which may show the simplest solution of the socket. Simple resistances are available for this function, as two amperes each, so that very are sockets in the case of the heavy withing to recover the process.

requires a centre tapped resistance across the heating element, and

It should be noted that the current drain for these A. C. tubes is exceedwiring is required. change which is necessary in all case

the five-prong type of A. C. tube, the C plus and B minus connections are ype of tube, using the standard base the centre of the resistance across the ninus connections.

BUY YOUR STEWART-WARNER MATCHED-UNIT-RADIO AT THE

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on the premises No. 44 Halsey Street, corner of Pratt Street, near Olney and Benefit Streets.

The residence of the late Charles E. Giles, comprising an exceptionally and substantially built house of 16 rooms, 2½ stories with 2 story L, bath, laundry, tollets, gas, hot and coid water, hot air heating, spacious corner lot, partly enclosed with a massive cut granite bank wall, fine shade trees; high and healthful location within easy walking distance of the business centre, carlines close by on Olney and North, Main Sts., and in the apartment house district.

Fine location in a substantial neighborhood Inspection invited. Sale to settle the Estate of the late Charles E. Giles.

Sue G. Thurber. Administratrix d. b. n. c. t. a. Estate of Charles E. Giles

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Opend less on radio power and get better reception too!

CTUAL experience over nany radio seasons has convinced tens of thousands of set owners of the remarkable economy of Ray-O-Vac batteries.

A new type of construction makes short circuits within the battery practically impossible and permits full use of every particle of the currentproducing elements.

> Give Undistorted Reception

Users of Ray-O-Vac batteries not only spend less on radio ance as other "B" power units.

ception, too, because Ray-O-Vacs have only 1/6 to 1/3

power, but they get better re- Ray-O-Vac batteries are sold every-

This is the Master Ray-O-Vac Heavy Duty (

of pitch on the top. Due to the new type of

construction used, this battery gives 10%

to 15% more life than the old style.

45 volt"B" battery No. 9303, for all sets with four or more tube. Note the absence

where by leading dealers in radio as much resist- B A T T E R I E S them by name.

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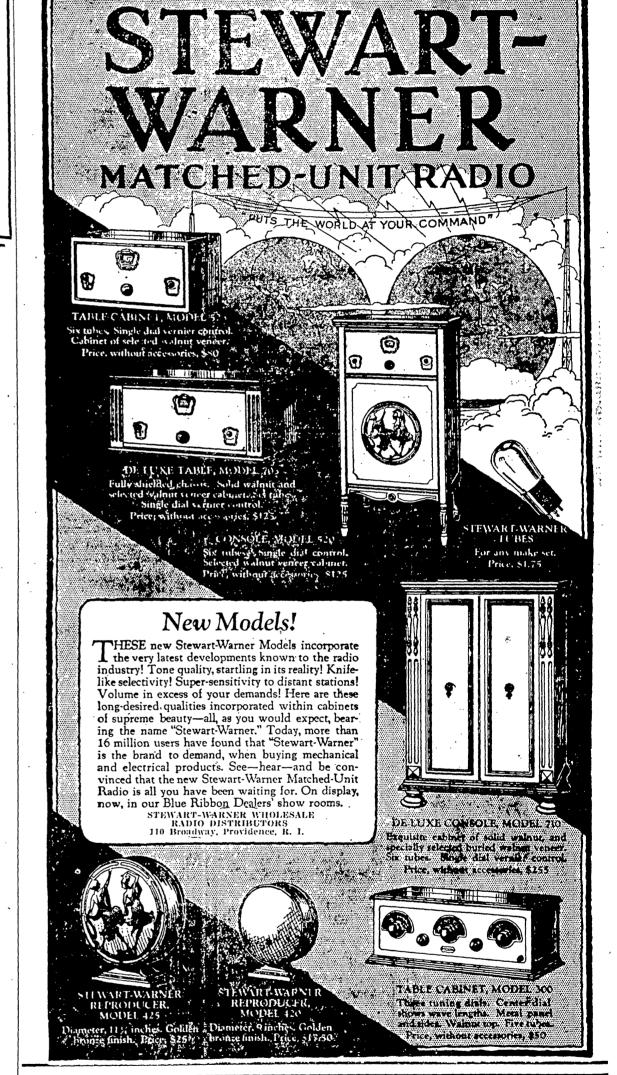
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STEWART-WARNER

BLUE

RIBBON

Match Play at Wannamoisett Not Decided Until 17th

Hole in Close Tilt.

Brad Barnes won the Governor's Cup wannamoisett Country Clubyesterday then he eliminated E. D. Crandall 2 and 1 in the final round of match play. Though Barnes, led or kept his consent even throughout the game. he was not sure of the match until the 17th hole. It was one of the closest matches of the tournament. T. H. Wray turned in a nice card of

78 to win the best gross in the handicap sweepstakes at the Wannamoisett Country Club yesterday. J. I. Waters carried off best net in the class A fight with a card of 82-12-70. W. C. Perkins and R. W. Adams were the

Perkins and R. W. Adams were the winners in class B with cards of 90-20—70 and 88-20—68 respectively.

A card of 93-18—75 won the low net prize for E. T. Gross in the golf ball sweepstakes tournament at the Rhode country Club verserous W. P. laised Country Club yesterday. W. P. Otis with 91-15-76. C. A. McBride with 83-6-77 and W. R. Walker with 102-24-78 were the other prize win-

At least four crack teams, which in-At least four that trains, which is cludes a pick of the best amateur and professional talent in the State, have signified their intentions to enter the pro-amateur tournament which will be pro-amateur tournament which will be a state of the state of t held tomorrow at the Metacomet Golf held tomorrow at the Metaconet Con-Club under the auspices of the New England Professional Golfers' Organiza-tion. These teams are Fred Bentley. club: and Martin Higgins, assistant pro-fessional at Rhode Island Country Club and C. A. McBride, also of the Coun-

Though a number of out-of-State stars are expected to come down tomor-row, only one team had definitely an-nounced last night their intention of

Massachusetts tournaments.
Fred Bentley is a consistent player in the low seventies. He won the intration tournament at Woodlawn kind of support, intends to run weekly

GIANTS AWAITED BY FLETCHERMEN

New York Booters, with European Stars, at Kinsley

Park Today.

Manager Fletcher's Providence soccer booters are primed for the invasion of the New York Giants this afternoon at Kinsley Park in an American Soccer The Rhode Island training quarters on Spring street is a hive of activity ger Fietcher is determined to land the points and will field his strongest combination to turn the trick against the Gothamites. Providence got away to a fine start in the league race and then "Butsy" Pistachio.

Among the boys who have been spotted working out there are Ernie Mandell. Barney Sweepey. Eddle Holmes. Young Corporal Izzy Schwartz, globe-trotting flyweight from New York's Harlem, has reached the semi-final round of the present flyweight tournament conducted at the St. Nicholas Arena in the atdropped the majority of points in the Billy Houston, 147-pounder who tempt to find a successor to Fidel Latext few matches after outplaying the made his boxing debut in the amateur Barba. Schwartz, a fast puncher, has

and is rated by many experts as one of the finest in the game. He is tall and has the agility which enables him to stop the ball from many angles. Gold and Tandler, the fullbacks, are pair of Jewish kickers and team well with Fabian. In the halfback line there is Moorehouse, Guttman and Herd, all veterans. Guttman played with the Providence two years ago and is known to local fans for his aggressive style of play. Davy Brown, who led the foal ston recognizes Tommy Loughran as the world's light heavyweight champion to nand Steve Smith of Bridgeport, Leo now as a result of his victory over Mike Braidley, who is more or less well known bear watching by the entire Braidence. We Tigue Friday night, the National herselpours to the stell to be the control of the stell to the stell to be the control of the stell to the stell to the stell to be the control of the stell to the ste to local fans for his aggressive style of play. Davy Brown, who led the goal the and Schwartz who was with the last year, play a smart combination on the right wing. Schwartz has only just rejoined the team after a meeting between Loughran and Slatery was elected cently leaped into the public prints wing in the purchased a carton of broken ton on the right wing. Schwartz has only just rejoined the team after a meeting between Loughran and Slatery would help clarify matters.

The tributance of the public prints after beating. Maxie Rosenbloom in when he purchased a carton of broken by just rejoined the team after a meeting between Loughran and Slatery with the public prints after beating. Maxie Rosenbloom in when he purchased a carton of broken by just rejoined the team after a meeting between Loughran and Slatery was elected.

Hered the awards. Hauesler, who capfield the awack. Hauesler, who cap-tained the original Hakoah team may get into action at one of the inside po-O'Brien and Gruenwald form

the left wing team and complete a rell-balan, ed attack for the New York-Manager Fletcher's lineup will proba-bly be somewhat changed but the ma-lority of the regulars will start. Ste-renson, whose work has featured in the Thursday night at Ebbets Field. Roberti renson, whose work has featured in the smes thus far, will guard the goal and Almer and MacAulay will play fullback. The starting halfback trio will probably and Bill Finlayson at centrehalf and and Andy Auld as lefthalf. Either Johnny

Bill Agnew, who rates with the best cores of the league, will lead the artacoperation from his teammates thould bang the leather into the netting. Donnelly, a Pawtischer volunt of the leather into the netting. ting. Donnelly, a Pawtucket youngster for some reason or other. fill probably make his bow in the big. Charley Rosen, New York dentist, league and play inside right to partner will meet the shopworn Mickey Travers all probably make his bow in the big will meet the snowworm ancasy reactive will meet the snowworm ancasy reactive with the Beettle of Bob Finlavson on the state of Bob Finlavson on the state will be state of the state of th ilants detended to them.

Country Club. Massachusetts, with a legiate soccer game played on the Am-75-76 for two rounds. His partner, herst grounds this afternoon. Goodwin Helne Gartner, as amsteur champion of Rhode Island, is the first ranking player of the State. Both are more or less tallied his team's lone goal midway in the final period. consistent players who should score well the final period.

The long ride over the road told

in every round that can be classed a brilliant Eddle turned in a nice score at Agawam recently, and if he strike a stride similar to that which carrie him around the Hunt course in le than 70 he will lower the best ba score to a point where it will be diff cult to reach. Kenworthy will us doubtedly add a few holes to the be ball if his long ball is carrying righ Kenworthy is one of the flashiest pla ers in the State and has moments when he can not be touched.

Martin Higgins and C. A. McBride

have never played the Metacomet course, but they are a team which deserves consideration. The smiling pro-fessional from the Country Club knows the game from tee to pin, and is a consistent scorer in the low 70s. Mc-Bride, while not one of the ranking

AMHERST DEFEATS **BROWN AT SOCCER**

(Special to the Providence Journal) Amherst, Oct. 8.—The Amherst Col ego soccer eleven defeated the Brown herst grounds this afternoon. Goodwin Coach McLaughry Plans Brisk

George Gordon is one of the most four goals in as many minutes in the distinguished members of the golfing first period before the visitors had a Gordon family. George plays a good chance to settle down to their usual game when he is out after anything in style of play. For the remaining three particular, and will probably turn in series good holes. Brad Barnes, who will team with George, has only re-Allard being unfortunate with the first list of players.

will team with George, has only recently joined that select list of players who break 80 with any frequency. He is now shooting between 75 and the boundary line of the experts.

Eddle Myers and Harry E. Kenworthy is one of the best bets for a tournament of this kind, where only the best ball is counted. Both have holes in rever yound that can be classed as Roundy, r. b.f, b. Corbridge Outstanding Amherst players were morrow, in preparation for the game the two Chinamen. Sun at left fullback, with Yale at the Bown on next Sat-

10	AMHERST	BROWN
คร	Bragdon, g	g, Garvir
ลร	Roundy, r. b	r, b, Corbridge
	Sun, 1 b	l. b., Ho ve
re		r. h, b., Baize:
63	Harmon, c. h. b	c. h. b., Cashma:
d	Levine, l. h. b	l. h. b., Heller
53	Wong, o. r	o. r., Sullive i
	Goodwin, i. r	i. r Fana)
lli	Folt. C	c., Melead;
1-	Hanford, I. L	i. l., Allaro
n-	Harding, c. l	o. l., Arnold
25	Goals by Hanford 2.	Godwin 2, Felt
	l Arnold. Substitutions—Si	ahr, Seetye, Di
ìt.	Martino, Knaver, Lundst	edt. Referee—T
y -	Moody: Linesmen - Turner.	Whitehall, Time
ěn	of periods-Two 22 minutes	s, two 23 minutes

ASSUMPTION JUNIORS PLAY BRUNSWICKS HERE TODAY

luch are matched for another 10.

on the next Friday night.

Angeles promoter, for a ball park bout with Paulino. Wad Wadhams, match-

maker for Dovle's Olympic, is also bid-

ding for an indoor shot between God-frey and Tom Heeney.

been signed by his new manager, Ben Stern, to meet Charlie Nashert at Miami, Fla. These bouts are expected

weight champion, at Los Angeles on Nov. 21.

Tiger Flowers, former world's middle-weight champion, and one of the most

active boxers in cauliflower circles, may be on the shelf for a couple of months.

Fralick has advised a lay-oft.

Boxing News and Gossip

nounced last night their intention of maining the trip. This team, however, may give an inkling of the calibre of players who are expected to enter. George Albach and Tom Welch are the two Massachusetts players who have informed the secretary of the organization that they would come. Albach is the New England professional champion and Welch is well known in Massachusetts tournaments.

Last night's amateur boxing show at the Elks' Auditorium helped somewhat to alleviate the local and famished boxing fans but otherwise there seems to be no relief on the horizon. There have been vague rumors of impending professional boxing shows at the North Main street auditorium and also at Marieville, but as yet, nothing definite has mateur boxing show at the Elks' Auditorium helped somewhat to alleviate the local and famished boxing fans but otherwise there seems to be no relief on the horizon. There have been vague rumors of impending professional boxing shows at the XIV and the Elks' Auditorium helped somewhat to alleviate the local and famished boxing fans but otherwise there seems to be no relief on the horizon. There have been vague rumors of impending professional boxing shows at the XIV and Auditorium helped somewhat in the Elks' Audi

amateur shows here and while these are always entertaining and brimful of action, still they do not satisfy the boys who desire to witness the paid brigade

Billy Murphy, welterweight from Newport, has started training for an active campaign this winter.

Jack Farley, who is handling the amateur boxing shows here, staged some exhibition bouts at the Biltmore last week in connection with a banquet of the Town Criers. Among the boxers to show their wares were Ernie Mandell and Young Firpo.

Martin McGloin, a junior lightweight who has just been discharged from the navy, is anxious to meet any 130-pounder in New England, McGloin-boxed Mickey Flahive and Pete Chico while in the service.

will probably show a few changes when the clubs swing into action as Manager Fletcher is determined to land the Among the boys who have been spotted

opposition.

Manager Jimmy Armstrong of the Giants, who was formerly secretary of the U. S. F. A., has lined up a brilliant aggregation of players, who include many who learned the game and played international feotball in their home countries. Central Europe is home countries. Central Europe is learned the game and played international feotball in their the Rhode Island Country Club. Househald in the roster and many Jewish soccer stars who rank with the club.

Pablan, the Giants' goalkeeper, is a twice.

Tablan, the Giants' goalkeeper, is a twice.

Tobic In a successor to Fidel La
Tobic In STATE HOUSE LEAGUE

In STATE HOUSE LEAGUE

Tobic In an application in the arched victories over Billy Kelly and mony meet cither Newsboy Brown. Ieo P.

Willie Davies from Charictol, Patholic Genaro, for Willie Davies from Charletol, Patholic In a poplication in to be assistant pro at the honor of meeting Schwartz, and the State House Bowling League last week, and tops the list with a lead of 91 the country are with the club.

Tablan, the Giants' goalkeeper, is a twice.

George Godfrey, who pushed are

Tobic La
Tobic In Tobic In the archevictores over Billy Kelly and mony meet cither Newsboy Brown. Ieo P.

Willie Davies from Charictol, Patholic In the Intention of Willie Davies from Charletol, Patholic Intention of Willie Davies from Charletol, Pa ed at the St. Nicholas Arena in the

Buddy Clark of Salem and Tommy Lannon of Revere are matched in the main bout at the Lynn Casino tomor- is being sought by Dick Donald, Los row night.

Sammy Dorfman, New York featherweight contender, is training at Atlan-tic City for his bout with Dominick Petrone at the Pioneer A. C. in New York on Wednesday night.

bear watching by the entire Providence backfield. Brown is a smart dribbler, who has speed and when within range of the sticks will take a shot from any france and South America, has designed to the sticks will take a shot from Australia and South America, has designed and when within range of the sticks will take a shot from any france and South America, has designed and with Babe Hermange. Melnar, a new player from Australia and South America, has designed and the sticks will take a shot from Australia and South America, has designed and the sticks will take a shot from Australia and South America, has designed and the sticks will take a shot from Australia and South America, has designed and the sticks will be sticked and south and s

Murray Gitlitz. New Haven. Conn. light heavyweight, meets Jimmy Slattery at Buffalo on Columbus Day night,

Roberto Roberti, the rip-roaring Italwas held to a draw by Jack Townsend, a negro who has been around for some time but going nowhere in particular.

Joe Dundee, world welterweight Dick of Jimmy Bardell will play right- champion who will defend his title at half. Bardell was playing a fine brand; Los Angeles soon against the aggressive to Budbles would like to bring his of soccer last Sunday prior to the sichhess which forced him to leave the
man. It is a tossup which player gets
the assignment.

Charles soon against the aggressive to serve as tune-ups for Egricubach's match with Mickey Walker, middleown referee with him. Manager Maying to install "Pop"
Nov. 21.

Johnny Dundce has resumed training The Georgia Deacon has some sort of

Sceen, with fearm on the left wind this pair have been matched for Madleon Square Gathern and the attack of the Pietchermen and thints determine to the other than the formal than the fearment of the Madleon Square Gathern and the meeting, one bout being a draw and thanks determine to the stronger of them. A Taylor winning the decision once.

Week of Practice Before Game at Bowl.

> Not discouraged by the setback administered at Franklin Field yester day afternoon, Coach Tuss McLaughry will put his Brown Bears through their sixth week of practice, starting tourday. Many of the faults that were evident against Penn will be ironed out in ample time for the meeting with the Bulldogs and the Brunonians fully expect to duplicate their 1926 success at New Haven.

BRUNONIANS FACE

Brown and Yale will enter Saturday' game with practically no line on each other's style, as the rival coaches have agreed on a non-scouting policy. Mc-Laughry and eight of his present 'Varsity, however, are well acquainted with the Eli attack and defence and that they must stop the hard-running Bruce and present Eli ace, is an established

This week McLaughry intends to per-fect his team's defence against the forward pass and also to polish up on his Weston Field.

The Assumption Juniors will stack also be worked into the 'Varsity en-England Professional Golfers' Organization. These teams are Fred Bentley, in other pro-amateur matches.

Heinie Gartner of Metacomet: George Gordon, professional at Wannamoisett, and Fed Barnes of the same club; Edde Myers, professional at Metacomet. The Barnes of the same club; Edde Myers, professional at Metacomet. The Assumption Juniors will stack also be worked into the 'Varsity engagings the Brunswicks today against the Brunswicks today semble this week as much as possible. Hugh Gordon will not be able to enter the tournament tomorrow, since the Myers, professional at Metacomet. The Assumption Juniors will stack also be worked into the 'Varsity engagings the Brunswicks today semble this week as much as possible. Assumption against the Brunswicks today semble this week as much as possible. Assumption against the Brunswicks today semble this week as much as possible. Assumption players are to report at the Bowl this year. About the only clubhouse at 2 o'clock. Play will start the Brunswicks today semble this week as much as possible. Assumption against the Brunswicks today semble this week as much as possible. Assumption against the Brunswicks today semble this week as much as possible. Assumption against the Brunswicks today semble this week as much as possible. Assumption against the Brunswicks today semble this week as much as possible. Assumption against the Brunswicks today semble this week as much as possible. Assumption against the Brunswicks today semble this week as much as possible. Assumption against the Brunswicks today semble this week as much as possible. Assumption against the Brunswicks today semble this week as much as possible. Assumption against the Brunswicks today against th Bud Edwards in the backfield. This week may see Rob McLean, a halfback, don a uniform again, but he will be forced to favor his injured shoulder.

The developments of the past week along the line of reserve strength were the sudden awekening of Hardy, the lightweight end, and his play in the Keep your eye on Joey Leone, promising New York West Side feather weight. Leone has won something like through the scrimmages of the past weight. Leone has won something like through the scrimmages of the past week. And the recovery of Kelly from a shoulder injury that has kept him on ranks and just last week whipped the side lines ever since the squad returned from Quonset. Kelly is the runner with a stiff kick in either glove. Louis "Kid" Kaplan of Meriden.

Conn., former featherweight titlcholder, wark of the Freshman line, playing is to meet Tommy Cello of California; guard on the 1930 team, but because at the St. Nicholas arena in New York of speed and litheness was shifted out Tuesday night. Kaplan has twice be-to end. Kelly's work in scrimmage was fore outpointed Cello, once at the of high rank and the coaches plan to Queensboro club and once up in Hol-given in given the given to develop. Gueensboro club and once up in Holyoke, Mass.

K. O. Phil Kapian and Lew Chester back, that reported late because of illare down for 10 rounds at the Dexter back, that reported late because of illare down for 10 rounds at the Dexter back, that reported late because of illare down for 10 rounds at the Dexter back, that reported late because of illare hight. Phil Gulotta and Harry Wal- cause he had had only three days practice high the three days had contact the course he had had only three days practice high the three days had contact the course he had had only three days be contacted in the coaches plan to give him every chance to develop. The other player that showed 'Varsity ability is Bob Woerner, the diminutive back that reported late because of illared the coaches plan to give him every chance to develop. The other player that showed 'Varsity ability is Bob Woerner, the diminutive back that reported late because of illared the coaches plan to give him every chance to develop. The other player that showed 'Varsity ability is Bob Woerner, the diminutive back that reported late because of illared the coaches plan to give him every chance to develop. The other player that showed 'Varsity ability is Bob Woerner, the diminutive back that reported late because of illared the coaches plan to give him every chance to develop. The other player that showed 'Varsity ability is Bob Woerner, the diminutive back that reported late because of illared the coaches plan to give him every chance to develop. The other player that showed 'Varsity ability is Bob Woerner, the diminutive back that reported late because of illared the coaches plan to give him every chance to develop. The other player that showed 'Varsity ability is Bob Woerner, the diminutive back that the coaches player that the player that the coaches player that the coaches player that the tice, but in those three days he The first sweet notes of the ballyhoo a capable carrier, or Tex Rickard's pet project, an inter-

for Tex Rickard's pet project, an international heavyweight boxing tournament to be held at Madison Square underway under the tutelage of Head Garden this fall and winter, have been Coach Staff and his aide de camp. scunded. In this tourney Tex hopes to Mishel. The 1931 team meets Dean uncover a "foreign threat" to meet Academy away from home in the first Gene Tunney for the heavyweight game on the short schedule that the crown next summer. Phil Scott, Eng. Cubs have. Jake Warren and Anderlish heavyweight champion: Paulino son, two backs that seem to have prior-Uzcudun. Basque woodchopper, and ity rights on backfield berths, are fine. Tom Heeney, Australian champion, will prospects and their work should be one furnish the international flavor, while of the bright spots of the season, Jack Sharkey, Johnny Risko, and Jack.

Jack Sharkey, Johnny Risko, and Jack Delaney will compose the home team. The freshmen soccer team opens its Heency and Sharkey have already been smatched for the Garden on Nov. 18. while Jack Renault has again been to schedule with a game against Hope high at Aldrich Field on Wednesday, Al-though the 1931 booters have not had lured from the movies to meet Delaney a great deal of practice, Coach Fletcher intends to have all of them in the game since he wants to know their capabilitles when under fire. The best prospect and shooting has made him stand out reached the semi-final round of the present Ayweight tournament conduct-

George Godfrey, who pushed over lonte Munn and Jim Maloney within

citing and closest contests of the year. The first string was a tie, and Hohler's outfit rallied in the second and wen by four pins, which carried the first string with it. McElroy's crew, with the aid of Howard's single of 127, copped the last string by eight pins and the pin fall by four. Each string was not won until the last box was rolled. McCready's team, with three dum-mics, split even with Walker.

Howard's single of 125 tied the record held by Hohler for high single. Miss Beaudreau with a single of 102, also tied the high single held by Miss Ryan. STANDING OF THE TEAMS

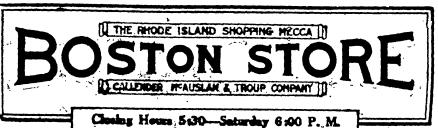
winner of the Smith-Parker bout has	Toble's 9 3 3914
	McFirov's 9 3 3823
been promised a match with Babe Her-	Hohler's 8 4 3847
man, Portuguese lightweight, who re-	McCready's 6 6 3702
cently leaped into the public prints	Walker's 4 8 3748
centry realest into the pitatic prints	Nordguist's 0 12 .3572
when he purchased a carton of broken	INDIVIDUAL AVERAGES
glass under the impression that he was	Walker 101 4-9 Ryan 85 7-9
'buying diamonds.	Howard 100 5-9 Beaudreau 84 4-9
July diamonds,	dohler 98 7-9 Greene 84 4-9
	Everett 98 8-9 Mulgrew 84 1-9
Bobby Garcia, the durable Mexican	Ebbitt 97 2-9 Ford 83 4-6
thumper, will meet Joe Glick tomorrow	Angell 92 4-9 Barker 78 7-9
night at the New Broadway arena in	Butterfield 81 2-9 McElroy 78
	76 1-6
New York. Two others bouts, also 10-	Taputi 90 1-9 O'Leary 72
founders, will find Allentown Johnny	Graves 89 5-6 Darling 71 5-9
Leonard pitted against Lew Hurley and	Quanstrom 89 3-6 Stafford 71
Jackie Cohen clashing with Milton	Potter 88 'O'Rourke 70 5-6
	Smith 80 2-9 Daggett 68
Cohen.	Tobie 88 Cox 67 6-9
• • •	Hudson 87 McCready 67 3-6
Paul Berlenbach, the "belting beau-	Highest Single Strings Men. Hohler and
ty" and former world's light heavy-	How erd, 127; women, Rvan and Beaudreau,
	102 Highest Tores Strings-Man. Hohler.
	373: momen Ifu'szen, 273. Highest team
on Thursday against Joe Lohman at	String- Hopler c. 482. Highest team total
Atlanta, Ga. Four days later, Berly has	Tobic's, 1332.
have almost be tile new manner. Dec	

NATIONAL HOCKEY LEAGUE WILL OPEN ON NOVEMBER 13

Three American and Two Canadian
Cities On Circuit.
Montreal, Que., Oct. 8.—(AP)—The
National Hockey League will open its season Nov. 15 in three cities in the United States and two in Canada, Pres-ident Frank Calder announced today.

On the opening date, the world cham-pion Ottawa Senators will take on the Montreal Maroons at the Canadian cap-ital; the Montreal Canadiens will play Barney Sweeney of this city, meets Harry Scott, clever Atlantic City negro, in 10-round bout temorrow night at the Holway Valley arena. Scott has the Holway Valley arena. Scott has beaten several good boys including health as the Ballerino. Babe Herman and Mike Ballerino. Babe Herman and the Eddie Lord Sweeney's last two bouts in Boston were crowd-thrillers from all accounts.

On the **Fourth** Floor



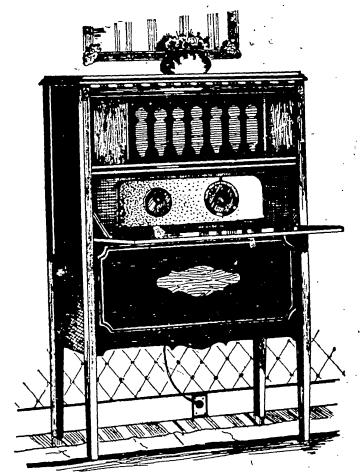
On the Fourth Floor

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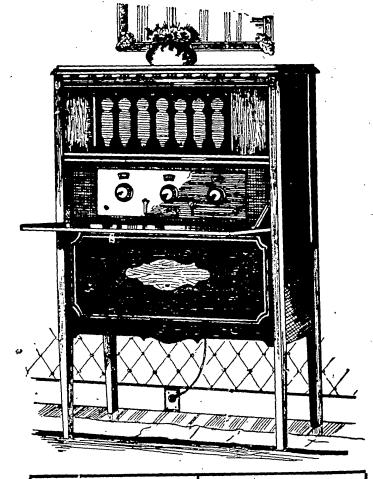
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