

WRC TO BROADCAST
FOOT BALL BATTLEPlay-by-Play Account of
Notre Dame-Princeton
Game Is Innovation.

The first attempt of WRC to broadcast a play-by-play description of a major college football game will be undertaken this afternoon at 2 o'clock, when it connects with WJZ in New York for the Princeton-Notre Dame gridiron classic. The local station will use its new circuit to New York to "pipe down" the event from WJZ. Maj. J. Andrew White, veteran radio sports announcer, will be on the side lines at Princeton University to describe the game for the radio audience.

WRC's evening program will be featured by two political addresses—the first by Brig. Gen. Frank C. Hines, Republican director of the United States Veterans' Bureau, and the second by Senator Pat Harrison, Democrat of Mississippi. Gen. Hines' subject is "The All Veterans Should Take a Greater Interest in Political Affairs," while Senator Harrison's, a bit more to the point, is called, "Why Coolidge Cannot Be Elected." Both speakers are presented under the auspices of the National political parties—Republican and Democrat, respectively.

Other speakers scheduled include H. A. Brooks, chairman of the lighting educational committee of Washington, who will urge better lighting in the home; Everett P. Haycraft, conducting the Hines play talk; and J. H. Dellinger of the Bureau of Standards on "Radio Interference and What Can Be Done About It."

The musical features are headed by the McWilliams Dance Orchestra and the Lee House Trio. McWilliams is sponsored by the dance committee of the Elks and has been associated with WRC's microphone for more than a year. Several popular selections will be sung by Ben Levin in the dance orchestra's program. The Lee House Trio will be directed by Samuel Udin.

The vocalists who will participate are Alice Sharpe, soprano, and Chester Walford, baritone, of the Louis B. Thompson studio. The only individual feature of instrumental character will be a piano recital by Katherine Lippert, well-known artist of the Katherine Flecker Cullen studio.

Local Radio Entertainment
Saturday, October 25, 1924.NAA—Naval Radio Station, Radio, Va.
(435 Meters).3:25 p.m.—Live stock reports.
3:45 p.m.—Weather Bureau reports.
4:05 p.m.—Hay, feed, crop reports, specials.
4:25 p.m.—Daily market reports.
10:05 p.m.—Weather Bureau reports.WCAP—Chesapeake and Potomac
Telephone Company (460 Meters).
Silent.WRC—Radio Corporation of America
(460 Meters).

3 p.m.—Play-by-play description of the Notre Dame-Princeton football game broadcast direct from Princeton, N. J. Maj. J. Andrew White announcing from the stadium.

5:15 p.m.—Football scores.
5:20 p.m.—The Home Lighting Contest by H. A. Brooks, chairman of the Lighting Educational Committee of Washington.

5:30 p.m.—Dance program by McWilliams Dance Orchestra and Lee House Trio.

8:15 p.m.—Song recital by Alice Sharpe, soprano; George F. Ross at the piano.

8:30 p.m.—"Radio Interference and What Can Be Done About It," by Dr. J. H. Dellinger of the Bureau of Standards.

8:45 p.m.—Piano recital by Katherine Lippert.

9 p.m.—"All Veterans Should Take a Greater Interest in Political Affairs," by Brig. Gen. Frank C. Hines, director, United States Veterans' Bureau, under the auspices of the Republican national committee.

9:15 p.m.—"Why Coolidge Cannot Be Elected," by Senator Pat Harrison of Mississippi, under the auspices of the Democratic national committee.

9:30 p.m.—Concert by the Lee House Trio, under the direction of Samuel Udin.

9:55 p.m.—Retransmission of time signals and weather forecasts.

10 p.m.—Song recital by Chester Walford, baritone, of the Louis B. Thompson Studio.

WRC and WCAP PLAN
TO BROADCAST RETURNS
at Same Time, But With Different Wave Lengths.

For the first time since their election WRC and WCAP will be on the air simultaneously November 4, to broadcast the election returns. Although election night is WRC's regular period for broadcasting, the Chesapeake and Potomac Telephone Company has made a special broadcast the election returns simultaneously with the Radio Corporation of America station to include a 435-meter waveband to preclude interference. As both stations transmit on 460 meters, WCAP obtained permission from the Navy Department to use the 435-meter band of the Navy's station, NAA, at Arlington, Va.

It pays to read the want columns of The Star. Hundreds of situations are obtained through them.

RADIO'S BEST OFFERINGS
TONIGHT.

Music and specialties from Missouri Theater, KSD, St. Louis, 8 o'clock.

"In a Persian Garden," by Liza Lehmann, WIP, Philadelphia, 9 to 10:15 o'clock.

Pavlova Ballet music, direct from Manhattan Opera House, WJZ, New York, 9:15 to 10:15 o'clock.

Operatic program, WMC, Memphis, 9:30 o'clock.

Speech, "Why Coolidge Can't Be Elected," by Senator Pat Harrison of Mississippi, WRC, Washington, 9:20 to 9:40 o'clock.

May Singhi Breen and her Syncopators, WEAF, New York, 9:30 to 10 and 10:30 to 11 o'clock.

Long Range Radio Entertainment
SATURDAY, OCTOBER 25, 1924.The Programs of the Following Distant Stations Are
Scheduled for Eastern Standard Time3:00—Ladies' hour concert. WHB Kansas City 411 942
3:15—Pittsburgh, English comedian. WPI Philadelphia 365 128
3:30—Pittsburgh, English comedian. WPI Philadelphia 365 128
3:45—Pittsburgh, English comedian. WPI Philadelphia 365 128
3:55—Pittsburgh, English comedian. WPI Philadelphia 365 1284:00—Clifford Lodge Orchestra. WEAF New York 492 204
4:15—Clifford Lodge Orchestra. WEAF New York 492 204
4:30—Clifford Lodge Orchestra. WEAF New York 492 204
4:45—Clifford Lodge Orchestra. WEAF New York 492 2045:00—John R. Smith's Southern Harmonies. WHN New York 300 204
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FIFTEEN MINUTES OF RADIO EACH DAY

BY JOSEPH CALCATERA,
Radio Editor of Popular Science Monthly
All Rights Reserved. Reproduction Prohibited.The Battery Switch.
The battery switch is a small device which many fans look upon as merely a small part of a receiving set, performing a more or less non-essential function—namely, that of closing or opening the battery circuit.

There are many advantages, however, to be derived from the use of a switch and there are also many uses to which it can be put to effect economies in the construction of receiving sets.

There are various types of such switches, each serving a similar purpose in a slightly different manner. The inside workings of a well known type of battery switch are shown in Fig. 1. The handle, A, is a piece of insulating material and is fitted at the end with a metal collar.

One end is fitted with two springs, D and E, insulated from each other and connected with the outside terminals, E and F, respectively.

The really ingenious feature of the switch is shown in Fig. 4. The rod can be pulled out entirely and carried away, thus making it impossible for anyone to close the battery circuit while the "key" is in the owner's pocket.

A departure from the ordinary "push and pull" type of switch is shown in Fig. 5. In this type of switch the circuit is closed and opened by simply turning the knob of the switch clockwise or counter-clockwise.

So far all the switches mentioned have been capable only of closing or opening a single circuit.

It often happens that it is desirable to perform two or more switching arrangements at once. For such a purpose the jack switches shown in Figs. 6, 7, 8 and 9 were developed. The one shown in Fig. 6 can be used like an ordinary switch merely to open or close a single circuit.

The jack switch shown in Fig. 7 can be used to open one circuit and close another circuit when both circuits have a common terminal.

The jack switch shown in Fig. 8 is merely a double arrangement of that shown in Fig. 7. This type can be used to perform the function of switch 7 with two different circuits. Many other combinations of spring arrangements can be made to suit other requirements.

The jack switch shown in Fig. 9 is merely a double arrangement of that shown in Fig. 7. This type can be used to perform the function of switch 7 with two different circuits. Many other combinations of spring arrangements can be made to suit other requirements.

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BISHOPS GIVE TONE
TO "METHODIST DAY"Celebration Service Conducted at
Strawbridge Home for Boys,
Near Eldersburg, Md.

BALTIMORE, October 25.—Bishop William Fraser McDowell, bishop of the Methodist Episcopal Church, Inc., presided at the celebration service for "Methodist Day" at the Strawbridge Home for Boys, near Eldersburg, Md.

The celebration has been promoted by the Laymen's Association of the Methodist Episcopal Church, Inc., the first time in this section that all the departments of the church have been asked to assemble and it is expected the exercise will become an annual event.

Members of all the societies of the church—the home and foreign missionary societies, Epworth League, Sunday schools and Boy Scouts—were present. The various enterprises of the church, the Kelo Home for Girls, the Kelo Home for Boys, the Home for the Aged, Deaconess Home, Good Will Industries and the Maryland Academy of Music, with which the Methodist Episcopal Church is associated, also were represented.

A special feature of the program was the dedication by Bishop McDowell of the Strawbridge Home for Boys, the gift of George W. Albright of Westminster to the church.

The dedication of the home and foreign missionary societies, Epworth League, Sunday schools and Boy Scouts—were present. The various enterprises of the church, the Kelo Home for Girls, the Kelo Home for Boys, the Home for the Aged, Deaconess Home, Good Will Industries and the Maryland Academy of Music, with which the Methodist Episcopal Church is associated, also were represented.

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