

# RADIO LORE FOR NOVICE AND EXPERIENCED FAN

## Radio Furthers Religious Education Throughout U. S.

**Moody Bible Institute Offers Classes in Instruction Over Air.—Examinations Conducted by Mail.—Station WMBI Pioneer in Movement**

Listeners everywhere have come to take the broadcasting of sermons and religious services as a matter of course, but not so many are aware of the fact that a systematic plan of country-wide religious education is being accomplished by means of the radio. One of the foremost sponsors of this movement is the Moody Bible Institute of Chicago, a large interdenominational training school for pastors, missionaries and other religious workers, founded by the immortal Dwight L. Moody. The project has been designated as the Radio School of the Bible, but it is better known to the public as the Moody Bible Institute of the Air.

By actually launching this new type of school letters were sent to thousands of the radio audience asking their opinions as to a radio school of the Bible. The great majority of the letters brought forth replies of an approving character. Many of these letters came from students unable to leave their homes who were unable to obtain the advantages of systematic Bible study because of the hours of their employment.

Thus encouraged, the Institute authorities set about in a systematic manner applying the needs and wants of those desiring Bible instruction. According to H. Coleman Crowell, its director, although universities, colleges and other institutions have taught classes by means of radio for a long time, the Moody Bible Institute School was the first in the United States to offer classes in Bible instruction for credit over the air.

Enrollment in these courses is rapidly increasing and it is confidently believed that the time is not far distant when the membership will be very large, extending to all parts of the country. The school is a radio school, matriculate with a view to receiving credits for work accomplished. Each student pays a small fee, which is not expected to cover the expense of the course, but is considered an expression of good faith on the part of the student.

## DADDY DESCRIBES SIGNAL SYSTEMS

**Twins Hear How Ray of Light Carried Dr. Bell's Voice**

**Argument by Donald and Doris Over Relative Merits of Wig-Wag and Radio Start Discussion.—Youngsters Decide to Try Out Beam Telephony**

Donald was telling his twin sister about the wig-wagging the Boy Scouts use to signal to each other. "And Willie Fraser told me his brother, who's a Scout, Donald was saying, 'Just takes a flag and holds it up and then just holds it down, and waves it round and round, and the other Scout knows what he is saying. I'll be a Scout, too, some day and wig-wag, too. You can't be a Scout 'cause you're a girl!'"

"Well, I can be a Girl Guide," snapped back Doris, "and that's the same as a Scout only girls are cleaner than boys, they wash their ears without being told to by the Scoutmaster. Side, Girl Guides are more fashionable, they most likely use radios to wig-wag with. Flags are terribly out of date, I'm sure."

"They're not! I betcha flags are more stylish than the radio," answered the outraged Donald. "Just then Doris came wandering through the garden smoking a cigar and meditating on the pleasantness of summer weather."

"Hey, Dad! Isn't flag signalling more stylish than radio signalling?" and Donald looked appealingly at him. "Well, Donald, I never gave the subject consideration before, as fashions and I don't agree very well, but then, everyone to their taste, as the old lady said as she kissed her cow. Now what are you two arguing over on this balmy day?"

"Donald says Boy Scouts use flags to answer to today's quiz."

1. New Hampshire and Vermont are smaller than Rhode Island in population.  
2. There are 366 days in a leap year.  
3. In Roman numerals, C equals 100.  
4. Buenos Aires is the capital of North Dakota.  
5. The birthstone for July is the ruby.  
6. The square root of 169 is 13.  
7. There are 90 degrees in a circle or circumference.  
8. Troy, N.Y., is called the "Collar City."  
9. Pro Tem is the abbreviation for the Latin "pro tempore," meaning "for the time being."  
10. Providence County is the largest county in Rhode Island.  
11. Noah Webster's is the full name of the dictionary.  
12. Massachusetts has the motto "With the Sword She Seeks Quiet Peace."  
13. From 1789 to 1862, Congress has been held in the city of Washington.  
14. The University of Minnesota is in Minneapolis.  
15. The Vice President of the United States receives a salary of \$15,000.  
16. Sir Walter Scott wrote the Waverley Novels.  
17. Mount Everest is 29,002 feet high.  
18. The chemical symbol for zinc is Zn.  
19. Eggs are laid by birds as a term of protection for the young.  
20. The word "Providence" is named after the Roman god who was Governor of Rome.

fraying the expense of multigraphing the outlines of the lectures.

Following each lesson, all students receive outlines of the lecture, and at the conclusion of the course examination questions are sent to the "under-graduates." These are answered and returned to the Institute, where they are graded in regular academic fashion. Those attaining a grade of 75 per cent or better are given certificates indicating proficiency in the courses offered.

New courses are added from time to time. Recently Rev. John C. Page of the Moody Institute faculty delivered a series of instructive studies on the personality of Christ. Rev. J. A. Van Gorkom offers sketches of Old Testament characters, both of which series proved immensely popular and educational to those registered in the Radio School of the Bible.

Dr. R. A. Torrey, who was a friend of the late Dwight L. Moody, and the first superintendent of men at Moody Institute, is now conducting a series of lectures in "Holy Spirit." These are broadcast each Wednesday evening from WMBI between 8 and 9 o'clock. Central daylight saving time.

Rev. W. Taylor Joyce, director of practical work at Moody Institute, is broadcasting a course on "How to Win Men to Christ," which is on the air each Tuesday evening at 8 o'clock and continues for an hour. Intense interest is being manifested by numerous students of the air courses. Moody Institute officials declare.

Station WMBI has well-appointed studios and is equipped with a modern 500-watt transmitter and uses a wave length of 263 metres. A piezo crystal oscillator assures against any variation from this wave length. The transmitter is the one formerly used by WWJ of Detroit, and, despite the competition of the new superpower stations, running up to 50 kilowatts, the radio department of the school reports that the difficulty is experienced in getting DX reception. A check of the letters and telegrams received in response to the various programs broadcast from WMBI reveals that 40 States and five Canadian provinces have found benefit in WMBI broadcasts.

signal with and he thinks they're terribly smart. But the Girl Guides probably use radios, which is smarter still. "No, Doris, both the Girl Guides and the Scouts use flags to signal with, and both organizations are about the same in rules and regulations, so you two will have to find a different topic to fight over."

"Daddy, we won't fight if you'll tell us something about signalling," said Doris.

Since I have nothing in particular to argue, may as well before. Radio came into being many years ago. Systems of signalling were tried, each inventor attempting to perfect one which could be used between very distant points. Nearly every experimenter used light in one form or another, for it can span great distances without guidance. But as the earth is round, as you have learned at school, its curvature prevented messages from being sent very far, for light travels in straight lines.

"Dr. Alexander Graham Bell, the inventor of the telephone, gave a great deal of attention to other methods of transmitting speech besides the telephone. He tried talking on a beam of light, using rays of sunlight to carry the sound. One day in 1879 he actually talked in this manner over a distance of 200 yards, using a ray of sunlight reflected from a little mirror he held in his hands. This mirror was made of very thin glass and was curved as though it had been cut from a large globe."

"This small mirror was mounted behind a mouth-piece into which he could speak, this serving to collect the sounds he uttered and permitting them to strike against the mirror. Upon reflection the sound waves would vibrate as does the diaphragm used in the present telephone transmitter and certain radio microphones, of which I have already told you. During periods in which he was silent, the mirror reflected a steady ray of light, but while he was speaking the mirror was vibrating or quivering, this, of course, caused the light reflected from it to waver and become unsteady as regards its location. Some distance away, 200 yards, as I have just told you, was an assistant who received this reflected light on a similar contraption. The light varied in intensity, it made the assistant's instrument vibrate in sympathy with that which Bell was using. The vibrations of this second mirror then generated sound waves which the assistant recognized as Bell's voice. In this way the two conversed with their normal voices, although they were 200 feet apart."

"This device," Bell's was really a telephone, the mirror taking the place of the usual metal diaphragm which is used now, and the ray of light serving as a conductor rather than wire. He named this device the 'photophone,' but stopped his experiments with it when he succeeded in making the wire telephone work."

"During the war the need arose for some system for communicating between ships at sea, for at the time radiophony was not much more than a laboratory experiment. The late Professor H. Poincaré, a French physicist, who conducted the investigation of the British Admiralty, used a vibrating tuning fork attached to a diaphragm, much the same in construction as Bell's diaphragm and which succeeded in carrying a message over a distance of eight miles on a beam of light six inches in diameter."

"Donald's dad Doris in her dearest memory has a vivid memory in her old vanity case. Let's ask her for it, and then we can signal on a beam of light, too."

Maybe you will and maybe you won't, laughed Daddy to himself as the two raced into the house to get the vanity case from Mamma. (The Pinckney Radio News Service)

## STATIONS TO MOVE

WJAR, Fall River, Authorized to Set Up Station in Portsmouth.

Taking their cue from the Radio,

Commission, numerous stations will remove from the cities within the next year. Among the foremost of these will be WJAR, New York City, which plans to move its station to the new station outside the metropolitan zone. WMCA, also of New York, is said to be contemplating moving its plant about 50 miles out of Manhattan.

It is said to be in the cards that following the removal of the WRC studio into the new National Press Club building in Washington the next step will be the transferring of the station proper to a point halfway between the capital and Baltimore. This, it is reported, will be one of the largest station moves in the country.

WSAR of Fall River, Mass., has received a permit to remove to Island Park, Portsmouth, R. I. Station WPAB has had its call letters changed to WVCV and will be removed to Norfolk, Va.

WBMB will probably be the first of the big Chicago stations to trek out to the rural districts. Several sites are being considered. Other Chicago stations are expected to follow.

## With Providence Radio Hams

Providence amateurs have given much attention of late to the results of a year's careful observation of the barometer reports of the United States Weather Bureau in relation to radio reception on the short wave. N. H. Miller, owner and operator of station 1AWB, has kept an accurate log of atmospheric conditions which he has compared with the results of nights of listening in. In his observations he has made use of the weather map that appears daily in the Providence Evening Bulletin.

Data collected by Mr. Miller over a period of a year shows the following results in connection with short wave reception:

Signals originating in a high pressure area, when Providence is the approximate center of a low pressure area, are very strong.

Signals from intermediate pressure areas, when Providence is the approximate center of a low pressure area, are unsteady, strong at times and then fading.

Signals from low pressure areas, when Providence is the approximate center of a low pressure area, are either very weak or inaudible. Reception conditions, Mr. Miller has found, are just the reverse when Providence is the center of a high pressure area.

Broadcasting wave lengths of 200 metres or more are affected by atmospheric conditions in an entirely different manner, according to Mr. Miller. He soon will make public the results of observations he has made in this connection.

Station WNP, located at taking the Bowdoin, the ship which is taking Donald B. MacMillan into the Far North, has been heard in Providence very strong, giving traffic messages to amateurs.

H. C. Maney, IAKK, and Horace Young, IACB, had considerable success in the summer of 1926 in carrying their light to Europe. The receiving set used to listen in on the signals of the plane America, which used light in one form or another, for it can span great distances without guidance. But as the earth is round, as you have learned at school, its curvature prevented messages from being sent very far, for light travels in straight lines.

Horace Young, IACB, is now on his way to Hamilton, Ont., by automobile. He is carrying in his car a loop receiver with which he is reading amateur signals. Before leaving Providence, he announced that he would send cards to all local amateurs heard during the trip.

Another Providence amateur, Norman Blake, 1BDQ, has gone to sea as a commercial radio operator.

H. C. Maney, IAKK, reports much difficulty in working local stations. Of late he has been unable to get a response from any of the city's stations although they usually are on the air when he calls them.

## Rogers Writes a Little Bit About a Lot of Things

BY WILL ROGERS.  
YOU know the tough part about a Hero is that he has to eat. We take care of them with too much Newspaper space and not enough permanent endorsement. We have great fellows back from the War that can show you two Medals for every sack of flour they have in the house. So on Aug. 20 Japan declared War on a Nation that had never seen. On Aug. 21, 1914, Rubber Horns on Automobiles were replaced by Sirens. They found Pedestrians were used to the Rubber Horns, and could get out of the way, but with the Siren ones they would scare you so bad you would be very little trouble to hit.

Just after Prohibition started in education, people got drunk. Everyone thought when they entertained Guests it was smart to serve Cocktails. Now it's necessary. Unless you use different Guests every time.

Congress has been arguing for years over what to do with Mussel Shoals, Ala. Henry Ford made an offer on it one time, so that made Congress think it was worth something. So now the Government is thinking about running it themselves. They think they can do it better than Ford. You just wait until they try making those things and they will see it is not so easy. To see one of those bumping along the road, I don't look like it would be hard to make. But I bet you the Government will never make 'em as good as Ford. Mr. Ford was telling me himself how he would work it if he got his Musket. Sell 'em going to take these parts all over the River and drop 'em in and let 'em assemble themselves as they went over the Dam. Then he had one older one that would teach the others to swim out on their own power.

We have had a great deal of ridicule on the stage and kidding in the papers about the extension. From the open stage where men are men. That of course was started by the boneheadedness of some Scenario Title Writer in the Movies, who would put in such a Title and then the audience would see some way haired Bird that had been

weaned out of an Ice Box and raised in the shade of a Rubber Tree. Well, regardless of those misleading Titles there are Men out there, and the broader the spaces the more real Men you will find and don't let anybody tell you there ain't.

## RADIO PROGRAMS

WEAN will commence broadcasting at 10:50 a. m. with the service from All Saints Memorial Church, an organ recital will be broadcast at 7:00 p. m. and the service from the Mathewson Methodist Episcopal Church at 7:30 p. m.—Monday at 8:35 p. m. will be broadcast a talk on Army Recruiting Service. Tuesday, at 8:30 p. m. a one-act play, "Buying Culture," will be on the air. Wednesday the usual program will be heard.

Program from the Metropolitan Theatre studio, and at 9:15 p. m. from the Metropolitan Theatre. Friday at 6:00 p. m., Uncle Red will be on the air under the auspices of the Providence Safety Council. Saturday the usual program will be heard.

WJAR will start its week of broadcasting at 7:20 p. m. with the program from the Capitol Theatre. Monday at 10:00 p. m. the National Grand Opera Company will be on the air, presenting Bizet's opera, "Carmen," direct from New York City. At 8:30 p. m. Tuesday, the Providence Safety Council will give a safety talk. Wednesday the usual program will be observed. Thursday at 7:30 p. m. Grace I. Gunn, contralto, will be on the air, accompanied by Mrs. S. B. Reynolds, and at 8:00 p. m. the National Light Opera Company will present "The Mountbattens." Musical programs will be broadcast at 8:20 p. m. by Roy Partington, tenor soloist, and at 8:35 p. m. William J. McKenna, baritone, on Friday. Saturday at 8:30 p. m. will be broadcast a children's program by the Goldenrod Concert, direct from the campus of the New York University.

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