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**GENERAL ELECTRIC ANNOUNCE
 NEW RADIO BROADCASTING
 STATION WGY**

A radio broadcasting station, more powerful than any now sending out programs, has been installed by the General Electric Company at its plant in Schenectady, N. Y.

From the roof of a five story factory building, two towers 183 feet high and spaced 350 feet apart, support an antenna at such height as to give the wireless waves unobstructed freedom to travel equally well at a speed of 186,000 feet per second in all directions.

This station has not been regularly operated nor has advance announcement been made of the impromptu or test programs sent out, which would cause amateurs to be listening, yet, letters have been received from such distant points as Cedar Rapids, Iowa, Minneapolis and Santa Clara, Cuba, the latter place 1450 miles distance, announcing that the programs have been heard. These reports come from operators who, in an evening's experimenting with their receiving sets, have accidentally come upon the waves from Schenectady and are no indication of the distance this station may be heard.

Broadcasting stations, with but a fraction of the power of the G. E. station, have been heard at distances of 2,000 miles or more under favorable atmospheric conditions.

The General Electric station has been licensed to operate on a 360 meter wave length under the call letters of W. G. Y. It is equipped with the most modern of radio apparatus, including the multiple-tuned antenna which, because of its many advantages, has been installed in Radio Central, the world's most powerful commercial station at Rocky Point, L. I., and other transoceanic stations of the Radio Corporation of America.

A three room studio, where the programs are produced, is located in a Company office building, 3000 feet from the transmitting station. One room is used as a reception room for the artists, where they may sit and chat until their time on the program arrives without danger of interfering with what is going on in the studio. The second room is the studio, where a concert grand piano, victrola, an organ and other equipment for the artists are to be found. Here a number of portable microphones, which are commonly known as pick up devices can be shifted about to locations best suited for the reception of announcements, musical numbers, or whatever may be sent out. In the room on the opposite side of the studio is apparatus for amplifying the sound waves before they are transmitted by wires to the broadcasting station.

A switchboard in the studio, which lights a red light when the station is in operation thus warning persons in the room that whatever they might say will be sent out to thousands of ears of an invisible audience, is within reach of the studio director at all times. Not until he throws a switch can anything reach the antenna. A telephone attached keeps him constantly informed just how the program is going out and allows him to change position of the artists or microphone if such is necessary to improve the tone quality of the entertainment.

With the exception of the small pick up devices or microphones and the switchboard, there is nothing in this room to indicate it as different from any musical studio.

In the apparatus room, the sound waves are put through a number of steps of amplification by means of vacuum tubes which increase their volume thousands of times. The amplified sounds are then put into a wire and sent to the broadcasting station, where they enter another bank of vacuum tubes, known as modulators or molders of the electric waves.

Direct current at a high voltage is necessary for the operation of a transmitting station. To obtain this, a 220 volt alternating current line, which is but little longer than the voltage used for lighting purposes in the home, is boosted to 30,000 volts by means of a transformer. This voltage is then applied to a number

of vacuum tubes, acting as rectifiers, which change the voltage to direct current. Placed between the rectifier and the the modulator or molding tubes, is a high power oscillator tube. The electric power entering this tube sets the ether into vibration and upon these vibrations the electric waves, molded into shape in the modulator tubes, are sent to the antenna to go out into space.

**JOINT MEETING OF Y. M. AND
 Y. W. C. A.**

After the strenuous labor of clean-up day and a picnic supper, served upon the campus almost the entire student body gathered in Memorial Hall for what was without doubt one of the best meetings of the year.

Dr. Perisho, in his forceful address, brought a message to the students which will not soon be forgotten. Taking as his text II. Tim., 2:15, "Study to show thyself approved unto God, a workman that needeth not to be ashamed, rightly dividing the word of truth," he proceeded to show us some of the big things that we should do with our college training.

"What is a school or college for," asked the speaker. In reply he said, "It is a place where young men and women learn to do the things which should be done in the community where they live." The speaker continued, "If the state or nation, church or community cannot successfully turn to the educated young men and women for the proper solution of the problems confronted, then where can they turn? Better citizenship is the main end of education."

At the present time some pressing needs all over our land, are: More and better Bible schools, more efficient and successful business administration in the churches and better guidance of public opinion. All students should take an interest in the college Bible school and so train themselves that they will be ready to take up this much needed work when they return to their homes. This Bible school work is one of the most vital needs of the day. "20,000,000 children are growing up in our land without any definite, systematic religious instruction." If our nation departs from Christian principles it is doomed and unless we give children proper religious training they cannot be expected to make broadminded citizens with the Christian viewpoint.

**ELON WINS DECISION
 IN DUAL DEBATE**

(Continued from page 1)
 that the South would not be properly represented. They succeeded in gaining the decision of the judges, two to one. The judges for the evening were Dr. J. H. Barnhardt, of Greensboro, Dr. Jackson of North Carolina college and Hon. Koontz of Greensboro. The timekeepers were B. W. Everett for Elon College and Hersal L. Macon for Guilford College.

S. Gladstone Hodgkin and J. Spot Taylor, Jr., representing the negative side of the question for Guilford, met the Elon affirmative team composed of R. S. Helms and H. Lee Scott. The judges, Rev. W. R. Potter, Rev. E. N. Caldwell and D. J. Walker decided in favor of the affirmative

A few days ago the question of available United States Treasury funds for a pressing and wholly authorized purpose was under consideration, and the statement was made that the funds were lacking. The statement was challenged and a certain bank deposit was pointed out in support of the challenger. Investigations followed, and it was learned that one bank in New York had a \$10,000,000 deposit of United States funds, on which no report had been made, no interest reported or paid, though the deposit was made in 1919. The incident has set many people wondering how many deposits are standing to the government's credit without record, and concerning which the new administration has no means of knowing.

Aunt Ada's Axioms: Order means peace for the home, sanity for the mind and security for the state.

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