

EDUCATION

AEC Training Hundreds Of Atomic Specialists

➤ MORE THAN 1,200 nuclear scientists and engineers working on educational and applied atomic energy projects in some 50 countries received their specialized training in these fields at the Argonne National Laboratory, Argonne, Ill., or the Oak Ridge National Laboratory, Oak Ridge, Tenn., both operated for the U. S. Atomic Energy Commission.

The advanced courses in reactor technology, engineering research and development, and administration and operation of nuclear facilities are offered to participants with backgrounds in traditional physical science and engineering. Research appointments also are available to established research scientists who wish to carry on work in life science or physical science.

To meet the international demand for trained nuclear scientists and engineers, the AEC established the International School of Nuclear Science and Engineering in 1955 at Argonne. As universities and other institutions in the United States and abroad developed programs to provide basic nuclear training, the name of the school was changed to International Institute of Nuclear Science and Engineering and the program of advanced training and research was set up. Argonne is operated for the AEC by the University of Chicago.

The Oak Ridge School of Reactor Technology has been operated by the Union Carbide Nuclear Company for the AEC since 1950. Year-long programs in reactor operations supervision and hazards evaluation are offered each fall.

Although both programs were designed principally for students from abroad, they also are open to U. S. citizens.

• Science News Letter, 80:127 August 19, 1961

ELECTRONICS

"Building Block" Concept In New Data Transmitter

➤ THE "BUILDING BLOCK" approach to high-speed communications is used in a new system for simultaneous transmission of digital information from as many as 16 different sources.

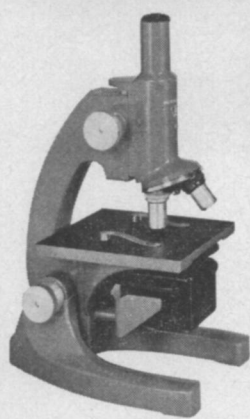
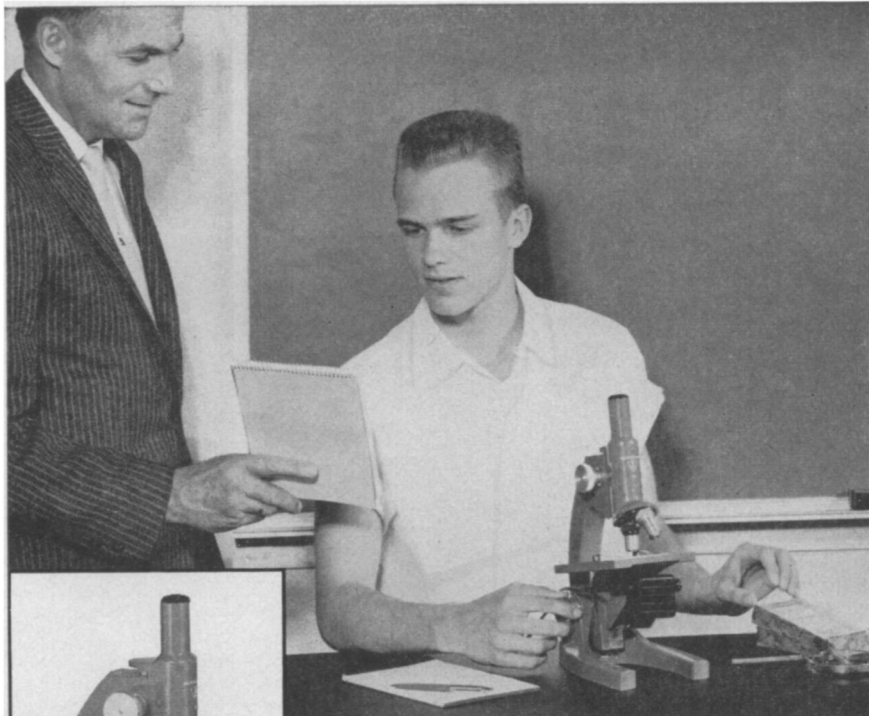
Teletypewriters, data transceivers, facsimile machines and tape machines can feed information into the system for long-distance travel over a standard telephone line.

Top speed is 4,800 bits (600 characters) per second. At their destination, the messages are unscrambled by similar equipment.

Each block, or functional nodule, is an assembly of plug-in, printed-circuit logic cards. Both blocks and cards are interchangeable. The system can be enlarged or revised as the user's communications requirements change.

Developed by ACF Electronics, Riverdale, Md., the system is called "ABCD," for ACF Building Block Communications Devices.

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