

The Knowledge Bank at The Ohio State University

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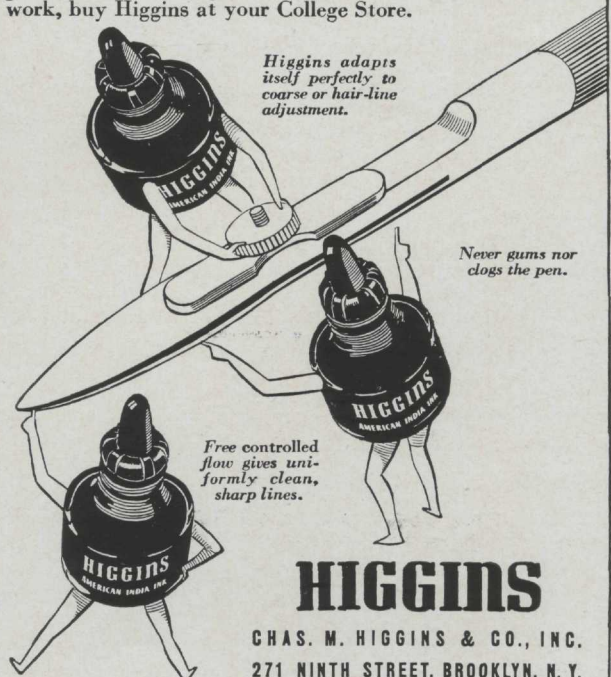
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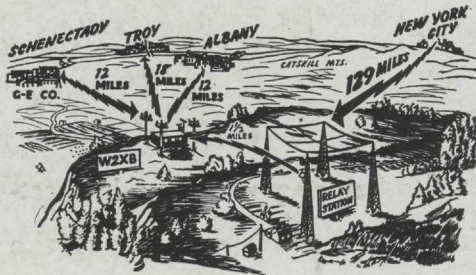
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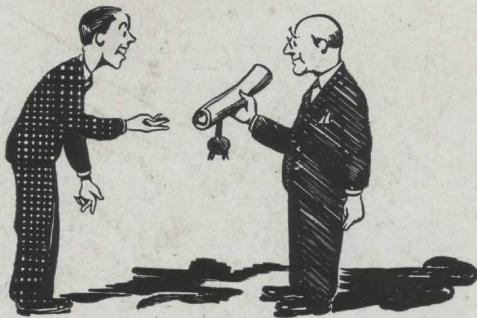
NETWORK TELEVISION

GENERAL ELECTRIC engineers passed another milestone on the road to large-scale telecasting when they recently demonstrated to the Federal Communications Commission the feasibility of network television.

Until a short time ago it was not thought possible to transmit television farther than the horizon. Recently, however, General Electric put into operation its new relay station, picking up programs originating in New York City—129 miles away, more than a mile below the line of sight. The New York programs are then retelecast over General Electric's Schenectady television station W2XB to homes in the Schenectady-Albany-Troy area.

FOR OUTSTANDING ACHIEVEMENT

GRADUATES from seven colleges, five of them also graduates of General Electric's famous Test course, were among the 22 G-E employees who were given Charles A. Coffin Foundation Awards this year for accomplishments which reflected outstanding initiative, perseverance, courage, and foresight.



James R. Alexander, Jr., U. N. C. '24, received recognition for perfecting equipment (developed by Arthur W. Burns, who also received a Coffin award for his work) using an

“electric eye” to control temperatures in cement manufacture; Florian A. Arnold, Purdue '25, for designing automatic welding machines used in making fractional-horsepower motor stators; William S. Bachman, Cornell '32, for improving tone reproduction in broadcast receivers; James E. Beggs, Purdue '31, for developing a loop antenna for radio receivers; Eugene W. Boehne, Texas A & M '26, and Leonard J. Linde, South Dakota State '29, for developing a high-current circuit breaker which does not use oil as an insulating medium; Kenneth K. Bowman, Kansas State '26, M. A. Edwards, Kansas State '28, and Francis Mohler, V. P. I. '26, for developing Amplidyne controls for high-powered motors; Adolph F. Dickerson, Texas A & M '10, for lighting the Golden Gate International Exposition; and Simon H. Weaver, Purdue '03, for developing a heat stabilizing treatment for steam turbine shafts.



PHOTOGRAPHING LIGHTNING

PHOTOGRAPHING lightning is almost like trying to turn around and face yourself. By the time you've turned around, you're not there any more. But while nobody has yet been able to look himself in the eye, General Electric scientists have photographed lightning and recorded the wave shape of lightning strokes.

With a high-speed cathode-ray oscillograph and a high-speed camera installed in the tower of the Empire State Building in New York City, Dr. Karl B. McEachron, a former G-E Test man, directs the study of the characteristics of lightning. The lightning stroke itself “pulls the trigger” and puts the complicated mechanism into operation in one-millionth of a second.

Records obtained in this way help General Electric engineers to build electrical equipment that laughs at lightning—keeps the lights on and the factories running when thunderstorms come.

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