



## Alfred C. Beck

Alfred C. Beck was born in Granville, N. Y., on July 26, 1905. He received the E.E. degree from Rensselaer Polytechnic Institute in 1927. During the summers of 1926 and 1927 he worked in the Test Department of the New York Edison Company on various electric power projects, and through the academic year, 1927-1928, he was an instructor in mathematics at Rensselaer Polytechnic Institute. Graduate courses in communications during that year, and experience as a radio amateur (W2AGG), convinced him that his interests were along the lines of radio communication.

In July, 1928, he became a member of the technical staff of Bell Telephone Laboratories, Inc., assigned to the Radio Research Department at Cliffwood, N. J. He worked on antennas for the transatlantic and ship-to-shore radiotelephone systems, including inverted vees, rhombics, comb antennas, and MUSA arrangements. In 1930, this group moved and formed the Holmdel Radio Research Laboratory, where he is still located.

In the latter 1930's, attention turned to research on microwave radio repeaters for Bell System use.

However, the national defense requirements for radar soon took full time, and communications work had to be postponed. There followed about five years of work on antennas, waveguide components, and microwave equipment for naval fire control and other military radar applications.

After World War II, work was resumed on broad-band Bell System transmission methods. A few years were spent with the development, assembly, and testing of microwave radio repeater systems.

For the past several years, Mr. Beck has been working on special waveguides, components, experimental installations, and testing methods for long-distance communication using circular electric waveguides.

Mr. Beck has a number of publications and patents in the radio field. He is a New York State licensed professional engineer and a member of Sigma Xi. He has served in a number of IRE capacities, including chairman of the New York Section and chairman of the PGM TT Administrative Committee.