



## Jules A. Bellisio , Ph.D.

Dr. Jules A. Bellisio has been an InfoAge Board member since 2014 and is an InfoAge volunteer primarily interested in restoring, maintaining and then talking to visitors about historic radios, TVs and electronic equipment. His lifetime electrical engineering career started at Bell Telephone Laboratories, but at Bell System divestiture he transferred to Bellcore (later renamed Telcordia, then Ericsson) to establish the Digital Signal Processing Research Division. He retired as Executive Director of Emerging Networks Research, Chief Scientist, and Fellow of the Corporation. Following retirement, he was the Principal of his own consulting practice, Telemediators LLC.

Jules was born in Brooklyn, New York, received the B.S.E.E. degree from the Polytechnic Institute of Brooklyn, the S.M.E.E. degree from the Massachusetts Institute of Technology, and was awarded the Ph.D. from Yale University. Among the many projects that he was involved in, he was the designer and managing engineer of the digital television lightwave system used for virtually all of the worldwide TV feeds at the 1984 Olympic Games, the very first compressed digital TV system ever accepted by a prime TV network for program contribution. He is the sole inventor (among five US Patents) of the multiplexing concept that made fiber optic systems throughout the world broadband-ready many years before even the Internet became popular. Another patent is for the phase-frequency locked synchronizing technology widely used in digital systems. He created the technical proposal that eventually evolved into what is now sold as "FiOS". Bellisio and his staff were original advocates of broadband standardization, HDTV, and video compression. They were the ones who devised the A-DSL (Asymmetrical digital subscriber line).

All of these innovations have developed into massive (and very profitable) global industries that affect all of us every day.

Jules was made a Life Fellow of the IEEE (Institute of Electrical and Electronics Engineers) for being an original developer of digital television. He is a Life Member of the Society of Motion Picture and Television Engineers (SMPTE), and a member of the Internet Society. He was the President and Chairman of the Board of DAVIC, the Digital Audio Visual Council, Executive Director of the FCC (Federal Communications Commission) Technological Advisory Council, and Chair of the Committee evaluating potential Fellow candidates for the IEEE. He was also a member of the National Academy of Sciences Intelligent Transportation Systems Standards Review Committee, the Software Defined Radio Forum, the TV-Anytime Forum, and the ATSC (Advanced Television Systems Committee), the group that defined our current HDTV system. Jules was also very involved in certain highly classified work.

Jules has been a resident and homeowner of Wall Township for 39 years and his three daughters all attended Wall Public Schools. Each daughter graduated from college (two at Cornell, one at Carnegie Mellon) and now all own homes and have successful careers in New York City. Jules and his late wife Carol were active in AFS (American Field Service) and hosted three exchange students. For many years, they also managed AFS for Wall Township and sponsored numerous events for the benefit of both visitors and Wall families. Jules is currently a Member on the InfoAge Board of Trustees.

Additional information about Jules is available on Wikipedia, and on Google. (Jules has the benefit of an apparently unique name.)