Institute's Florida Research Director awarded TV 'Emmy'

Dr. William E. Glenn, director of New York Institute of Technology's Science and Technology Research Center, was awarded a television "Emmy" by the National Academy of Television Arts and Sciences. The annual dinner and presentations were held in New York recently.

A joint award by the Academy was presented to Thomson-CSF Laboratories, Inc., and CBS, Inc. for the development of an electronic device that reduces noise in television pictures. Cited for outstanding technical achievement in broadcast communications, Dr. Glenn, Renville H. McMann, Jr., president of Thomson-CSF Labs in Stamford, Conn., and J. Kenneth Moore, vice president and general manager of the CBS Technology Center in Stamford, received awards from Academy president, John Cannon.

The electronic device, known as a Digital Noise Reducer (DNR), has the capability of eliminating "picture noise" during the transmission of television images to home TV sets. Picture noise is recognized by "snow, flicker or color confection" in picture images. The DNR acts as an electronic "filler" in order to insure noise-free television reception.

Dr. Glenn, a consultant to Thomson-CSF Laboratories, as well as head of New York Tech's research center in Dania, Florida, invented the digital technology that was utilized in the development of the DNR. This electronic filtering process, which was several years in development, extends earlier technology developed by Mr. McMann and Mr. Moore to process TV pictures sent by the Apollo astronauts from the moon's surface. McMann, Moore and Glenn are former CBS Lab associates where some of the early work on the DNR began under Mr. McMann's direction. Considered an enormous technical achievement, the DNR has become a standard engineering tool in the broadcasting industry since its introduction by CBS TV in 1975. It is also used for electronic news gathering, videotape and film reproduction, microwave reception of TV signals, and in the Cable TV field for satellite reception.

Dr. Glenn joined New York Institute of Technology as head of its Florida-based research center in 1976. He is the holder of 71 U.S. patents and is a highly published authority on a broad range of electronic specialties. Glenn is renowned for his expertise in ultrasonic imaging, video displays and other technologies.

The NYIT Science and Technology Research was established in 1975 by college president, Dr. Alexander Schure, on the campus of sister-institution Nova University ( Ft. Lauderdale, Fla.) of which Schure is the chancellor. Dr. Glenn, former vice president and director of research for CBS Labs was appointed its director, assisted by a team of former senior scientists from the CBS Laboratories staff. Glenn is a member of the Nova faculty and holds the rank of adjunct professor.

Patent, patent applications, invention disclosures and related contract business from the laboratories division of CBS were acquired by New York Tech in 1975. The CBS donation of these important inventions has been used for research and development in technological areas classified as real time ultrasonic imaging, charge couple device displays and holography. Since that time, extensive grants from the National Science Foundation have been awarded NYIT for the express purpose of studying and implementing ultrasonic techniques for the improvement of noninvasive ultrasonic medical diagnostic. Such techniques are applicable in imaging the human body, in the location and detection of disease in a manner similar to x-rays.

Under Dr. Glenn's direction, the NYIT center and its professional experts have conducted ultrasonic research for the National Institute of Health, industrial agencies and medical schools.

William Glenn is a graduate of Georgia Institute of Technology (B.E.E. degree), and the University of California at Berkeley (M.S. and Ph.D. in Electrical Engineering). He is a Fellow of the Society of Motion Picture and Television Engineers and has received two Industrial Research Awards for engineering achievement.