

Donald H. Steinbrecher, Chief Scientist, Navy Undersea Warfare Centre

Dr. Donald H. Steinbrecher currently holds the position of Chief Scientist in the Electromagnetic Systems Division of the Navy Undersea Warfare Center in Newport, RI where he has been employed for the past 10 years. His research activity has focused on establishing a leadership role for the Navy in the field of software-defined electromagnetic-signals acquisition systems. Dr. Steinbrecher was named a winner of the 2007 Department of the Navy Top Scientists and Engineers of the Year Award for his innovative work in the field of high-performance digital signals acquisition systems. He is also a winner of the 2007 Chief of Naval Research Million-Dollar Challenge. He was a keynote speaker at the 2008 Software Defined Radio Conference in Washington,DC, October, 2008. Dr. Steinbrecher has been allowed 18 patents for his work on high performance signals intercept concepts and high dynamic range radio frequency systems. Dr. Steinbrecher received a BSEE degree, with highest honors, from the University of Florida in June 1960. He entered the Massachusetts Institute of Technology graduate studies program in Electrical Engineering and Computer Science and received a Master of Science in 1963 and completed the Ph.D. degree in June 1966. He remained with the MIT Department of Electrical Engineering and Computer Science and The Research Laboratory of Electronics until June 1972. As a member of the EECS Department, he taught courses specializing in solid-state device properties and applications and was promoted to Associate Professor in June 1969. As a member of the Research Laboratory of Electronics, he conducted research in microwave and millimeter wave circuits with an emphasis on communications applications. His research provided a technical foundation for early experiments in millimeter wave communications satellites developed by the MIT Lincoln Laboratory, the LES 8-9 Programs. His research also laid the foundation for his pioneering work in the field of high dynamic range signals intercept systems.