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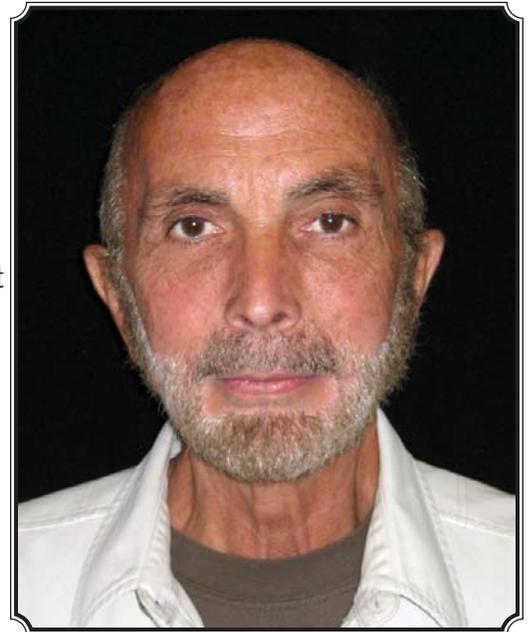


CODAR President Donald Barrick Receives the IEEE 2007 Distinguished Technical Achievement Award

At a special luncheon held October 2nd during the MTS/IEEE Oceans 2007 conference held in Vancouver, Canada, the IEEE Oceanic Engineering Society announced Donald Barrick as its 2007 Distinguished Technical Award Recipient. With an audience of over 300 colleagues, presenter Dr. Thomas Wiener cited Dr. Barrick's significant achievement in the development and deployment of high-frequency radar systems for mapping ocean current and wave dynamics.

Previous award recipients include ocean engineering legends such as Douglas Webb (2003), Arthur Baggeroer (1992) and Richard K. Moore (1978). The complete list of previous award recipients can be found within the Oceanic Engineering Society web site at <http://www.oceanic-engineering.org>.

Donald E. Barrick was born in Tiffin, OH. He received the B.E.E., M.Sc., and Ph.D. degrees in electrical engineering from the Ohio State University, Columbus, OH. His Ph.D. research involved interpretation of radar scatter from rough interfaces, including the sea and planetary surfaces. He joined the staff of Battelle Memorial Institute in Columbus OH where he led work in radar scattering and signal processing as an Institute Fellow until 1972. During this period he taught electromagnetics, radar, and communications theory at the Ohio State University's Electrical Engineering Department as an Adjunct Professor. From 1972-1983 he served as Chief of the Sea State Studies Division (which he created) of the U.S. National Oceanic and Atmospheric Administration's Wave Propagation Laboratory in Boulder, CO; there he developed compact HF radar systems for real-time mapping of ocean currents and waves. Since 1983 he has worked in industry, founding and heading CODAR Ocean Sensors, Ltd. as President.



His scientific interests and experience include radio wave propagation, interaction with, and scatter from the earth and sea at lower frequencies than microwave. His engineering interests and activities have focused on development of compact low-frequency radar systems with novel waveforms for remote sensing, leading to several patents.



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Under Dr. Barrick's direction, CODAR Ocean Sensors, Ltd. (COS) has designed the SeaSonde®, a compact, PC-driven family of coastal HF radars that map ocean surface currents and monitor waves in real time. With funding from several DoD programs, COS has developed analytical tools to optimize and design ULF/ELF/VLF sensors that detect and classify subsurface objects and structures.

His recent research has involved use of HF-radar surface current data for improving ocean circulation models, and use of normal modes to extend and improve nowcast maps of HF radar data in bays and estuaries. Recent technology advances he has spearheaded within COS involve land and buoy-based multi-static expansion of SeaSonde coastal coverage, low-power, compact UHF radars for river flow gauging, and a compact skywave HF radar design that can map ocean surface conditions to 4000 km.

Dr. Barrick is a member of Sigma Xi, URSI Commissions F and C, IEEE, the American Geophysical Union, and the American Meteorological Society; he has served as Associate Editor and Administrative Committee member for IEEE Antennas and Propagation Society. He has published over 150 papers in the open literature, holds ten patents, and coauthored several books, including Radar Cross Section Handbook (Vols. I & II) by Plenum Press. He also serves on boards of directors of several companies.