

## DJC BIOGRAPHY

David Carlson received a B.A. in Biology from Augustana College, Rock Island, IL (1973) and a Ph.D. in Oceanography from the University of Maine, Orono, ME (1981). He served as an NRC Post-Doctorate Research Associate at the Naval Research Laboratory in Washington, DC.

Dr. Carlson served on the graduate faculty in the College of Oceanography at Oregon State University from 1983 through 1990. While at OSU, he led research and education programs in the areas of marine chemistry, small-scale ocean physics and rheology, oceanic microbiology, and intertidal chemical ecology. Dr. Carlson designed and produced an ocean surface sampling system still in use in several oceanographic laboratories. He also developed new techniques for exploring molecular-scale rheology and for assaying photorepair enzymes.

Dr. Carlson joined the University Corporation for Atmospheric Research in 1991 to lead the Tropical Ocean Global Atmosphere - Coupled Ocean Atmosphere Response Experiment (TOGA COARE) International Project Office. Dr. Carlson and the TCIPRO staff worked with leading international scientists to plan and implement this large research experiment involving 1200 people from more than 20 nations. The project focused on the western Pacific tropical warm ocean pool because of that region's influence on global atmospheric circulation and on global climate variability.

From 1994 to 2003, Dr. Carlson directed the Atmospheric Technology Division within the National Center for Atmospheric Research. The Atmospheric Technology Division provided advanced observing systems and associated support services to university researchers for purposes of climate and weather research worldwide. Under Dr. Carlson's leadership ATD built significant new capabilities in active and passive remote sensing, trace gas and particle detection, signal processing, computerized machining, and data visualization and distribution; Dr. Carlson led the planning, proposal, and acquisition process for an \$80M aircraft, one of the largest single-item developments in NSF Geoscience history. Dr. Carlson also stimulated an innovative summer undergraduate engineering internship program.

During 2004, Dr. Carlson took a sabbatical year with the Climate and Global Dynamics Division at NCAR, working on upper ocean – lower atmosphere exchange processes.

Starting in 2005, Dr. Carlson serves as Executive Director of the International Programme Office for the International Polar Year. The IPY, planned for 2007 through 2008, represents an international effort to draw research and public attention to polar regions, particularly to the role of polar regions in global climate change and to the impacts of climate change on polar regions. The IPY International Programme Office resides at the British Antarctic Survey in Cambridge, England.