

BIOGRAPHICAL DATA

A. W. (Tony) England

Associate Dean for Academic Affairs, University of Michigan College of Engineering
Professor of Electrical Engineering and Computer Science
Professor of Atmospheric, Oceanic, and Space Sciences

EDUCATION: B.S. and M.S. degrees in Earth Sciences from Massachusetts Institute of Technology (MIT) in 1965, and Ph.D. in Geophysics from MIT in 1970.

SPOUSE: He is married to the former Kathleen Ann Kreutz of Fargo, North Dakota

CHILDREN: Heidi Lynd; Heather Anne; (plus five outstanding grandchildren)

RECREATIONAL INTERESTS: Sailing and cross country skiing

ORGANIZATIONS: Fellow of the Institute of Electrical and Electronics Engineers (IEEE) and member of the American Geophysical Union (AGU)

SPECIAL HONORS: He received a share of the President's Medal of Freedom (1970) for contributions to the safe recovery of Apollo 13, the NASA Outstanding Scientific Achievement Medal (1973) for contributions to Apollo 16, the U.S. Antarctic Medal (1979) for geophysical studies in Antarctica, the NASA Space Flight Medal (1985) and the American Astronomical Society Space Flight Award (1986) for his flight on Spacelab 2, the NASA Exceptional Service Medal (1988) for contributions to Space Station, the Calcutta Key by the Radio Society of Great Britain for contributions to pre-college science education (1988), the Department of Electrical Engineering and Computer Science Service Excellence Award (1994), and the College of Engineering Excellence in Faculty Service Award (1995). He was elected Fellow of the IEEE (1994); appointed a CIC Academic Leadership Fellow for 1996-97; received two outstanding service awards from the National Research Council in 1998; elected to the University of Michigan Society of Fellows, 2001-2005; received the University's Harold R. Johnson Diversity Service Award (2002) and the UROP Mentoring Award (2004); and received the IEEE Judith A. Resnik Award for innovative contributions to satellite microwave radiometry (2004).

SCIENCE EXPERIENCE: He was co-investigator on the Ground Penetrating Radar (GPR) used to probe the Moon on Apollo 17 and helped develop an evolutionary version of the radar for his studies of glaciers in Washington and Alaska; participated in and led geophysical traverses during two field seasons in Antarctica; was Deputy Chief of the Office of Geochemistry and Geophysics for the U.S. Geological Survey, served as Associate Editor for the Journal of Geophysical Research; was a member of the National Research Council's Space Studies Board and served as chair of several of its committees; was visiting Professor at Rice University (1987-1988), and became Professor of Electrical Engineering and Computer Science at the University of Michigan in 1988 and Professor of Atmospheric, Oceanic and Space Sciences there in 1994. He served as Associate Dean of the Rackham Graduate School (1995-1998) and became the Associate Dean for Academic Affairs in the College of Engineering in 2004. His current research concerns development of the science and technology needed to use satellite microwave radiometry for land surface hydrology and climate change monitoring in the Arctic.

NASA EXPERIENCE: He served as a NASA Scientist Astronaut during the Apollo Program (1967-1972), and again during the early Shuttle Program (1979-1988). During the Apollo Program, he completed Air Force Flight School and served as Mission Scientist for Apollos 13 and 16. During the Shuttle Program, he was assigned to flight-test for the Shuttle's entry and landing system, flew as a Mission Specialist on Spacelab 2 – a solar astronomy and plasma physics mission, and served as Space Station Program Scientist (1986-1988). He has logged 4,000 hours as pilot – 2,000 in high performance aircraft – and 8 days in Earth orbit.