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*History, Education, and Professional Experience*

Born Rochester, Minnesota on September 14, 1956.  
The Prairie School, Racine, WI, High School Valedictorian, 1974.  
Calvin College, Grand Rapids, MI, B.A. with Honors in Physics and Mathematics, 1978.  
Stanford University, Dept. of Applied Physics, M.S., 1980; Ph.D., 1984.  
Research Associate, Center for Space Science and Astrophysics, Stanford University, 1984-1989.  
Assistant à l'Observatoire, Observatoire de Nice, France, Spring, 1985.  
Senior Research Scientist, W.W. Hansen Experimental Physics Laboratory, Stanford University, 1989-present.  
Discipline Scientist in Solar and Heliospheric Physics, IPA at NASA Headquarters, 2000-2004.

*Profile*

Primary scientific interests include the physics of the Sun and the interplanetary medium, solar-terrestrial relations, the large-scale solar and coronal magnetic fields, solar velocity fields and rotation, helioseismology, and education and public outreach. Experience includes research administration, UNIX system and scientific analysis programming and the design and construction of equipment to measure solar magnetic and velocity fields.

*Memberships*

American Astronomical Society, Solar Physics Division; SPD Committee Member, 1999-2001  
American Geophysical Union, Space Physics and Aeronomy Division  
International Astronomical Union, Commission 10  
Astronomical Society of the Pacific; American Scientific Affiliation

*Selected Activities and Awards*

Solar Terrestrial Probes Program Scientist, 2002-2003.  
SOHO/SOI-MDI Stanford Instrument Scientist, 1988-present.  
Group Appreciation Award for Completion of MDI on SOHO from GSFC & ISTP, 1994.  
Wilcox Solar Observatory at Stanford, Responsibility for operation & maintenance, 1978-present.  
NASA SEC Roadmap Team Member, 2002 (HQ Rep), 1999. SSSC Foundation Roadmap Team Chair, 2005.  
Member, NASA Solar Physics MOWG, 1990-1992.  
Member, NASA Solar Physics Planning Group at the Future Missions Strategy-Implementation Study, 1990.  
NASA Peer Review Panelist: Solar Observations SR&T 1991, 1992, 1995 (chair); SMEX, 1993; SEC GIP, 1998 (chair).  
Chairman, NSO's SOLIS Science Advisory Group, 1997-2001.  
Co-chair, IACG Workshop Splinter Group on Coronal and Solar Wind Structure and Evolution, June, 1994.  
Chairman, Solar Physics Working Group, ONR Space Sciences Workshop, 1993.  
Associate Editor, JGR-Space Physics, 1997-2001. Editor's Citation for Excellence in Refereeing, JGR-Space Physics, 1997.  
Member, Editor Search Committee for JGR-Space Physics, 1991 - 1992.  
Chairman, Scientific and Local Organizing Committees: 4th SOHO Workshop: Helioseismology, 1995 (a.k.a. GONG '95) and of the 4th IRIS Workshop & SOI Team Meeting, 1991. Session Convenor/Co-convenor at S-RAMP, 2000; Fall AGU, 1999, 2002; SPD LOC Member, 2003; SOHO 9 LOC Member, 1999; SOHO 8, 1999; Solar Wind 9, 1998; COSPAR, 2004, 2002, 1998; IAGA, 1997; 1st SOHO Workshop, 1992; Solar Wind 7, 1991.  
Chairman, GONG Low-Frequency Team since 1990. Member: GONG (the Global Oscillations Network Group) since 1987; GONG Magnetic Users Group, 2004-present, GONG Data Users Committee, 1992-5; GONG Site Selection Review Panel, 1990-1. "Hero of the GONG" Citation, 1995.  
Member IRIS (International Research on the Interior of the Sun), since 1985.  
Member, SOLTIP Steering Committee, (Solar Connection with Traveling Interplanetary Processes) 1988 - 1994.  
Member, COSPAR ISC Sub-commissions D.1 and E.2; Vice-chair E.2, 1998-2006.  
Principal Scientist, Stanford SOLAR Center (Solar On-Line Activities Resource Center), 1996 - 2000.  
Project Astro Visiting Astronomer, J.L. Stanford Middle School 1994-6; Hoover Elementary, 1997-8.  
Undergraduate Academic Advisor, Stanford University, 1986-1988; 1992-2000; 5 & 10 year Master Advisor Awards.  
Teaching assistant in astronomy, physics and mathematics, 1974-84.  
NSF Undergraduate Research Program, Solid State Physics, Loyola University, Chicago, IL, 1977.  
Presidential Scholar, 1974; National Merit Scholar, 1974.  
NSF Summer Science Program in Astronomy, Ojai, CA, 1973.

*Publications and Papers Presented*

Author or co-author of more than 125 papers published in astronomical and geophysical journals and of more than 200 contributed and invited lectures at conferences, symposia, and seminars.