

J. TODD HOEKSEMA, Ph.D.

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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. in Physics (with Honors) 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, 1984-89.

Assistant à l'Observatoire, Observatoire de Nice, France, Spring 1985.

Senior Research Scientist, W.W. Hansen Experimental Physics Lab., Stanford University, since 1989.

NASA HQ, Heliophysics Discipline Scientist, 2000-4; Solar Terrestrial Probes Prog. Scientist, 2002-3.

Profile

Primary scientific interests include the physics of the Sun and the interplanetary medium, solar-terrestrial relations, the large- and small-scale solar and coronal magnetic fields, solar velocity fields and rotation, helioseismology, and education and public outreach. Experience includes research administration, system and scientific programming, and the design, construction, and operation of instruments to measure solar vector magnetic and velocity fields from both ground and space.

Memberships & Leadership Positions

American Astronomical Society, Solar Physics Division; **SPD Chair/Vice-Ch.**, 2006-10; Comm, 1999-01.

American Geophysical Union, Space Physics and Aeronomy Division; **SH Secretary**, 2015-17.

International Astronomical Union, Commission 10. American Scientific Affiliation. AAAS.

Selected Activities and Awards

NASA Distinguished Public Service Medal, 2006.

SDO/HMI Co-Investigator & Magnetic Science Team Leader, since 2004.

SOHO/SOI-MDI Stanford Instrument Scientist, since 1988.

Wilcox Solar Observatory, Director since 2004; operations & maintenance since 1978.

NASA Heliophysics/SSSC/SEC Roadmap Teams: **Chair** 2005-6; HQ Rep. 2002; Member, 1999.

Chair: SSB CSSP (**co-ch**), 2013-6. AURA Solar Observatory Council, 2010-3, memb. 2007-10. SPD Metcalf Travel Award Comm, since 2010. NSO/SOLIS Science Advisory Group, 1997-2001.

Member: AAS Comm. on Astronomy & Public Policy, since 2012. AURA Board of Directors, 2010-13. 2012 Solar & Space Physics Decadal Survey Steering Comm. Astro 2010 Decadal Survey, Program Prioritization Panel for Ground-Based O/IR Astronomy. Jack Eddy LWS Postdoc Steering Comm., since 2008. Solar Cycle 24 Prediction Panel, SWPC 2006-10; NAC Heliophysics Subcomm., 2006-9; NASA Solar Physics MOWG, 1990-2. GONG (Global Oscillations Network Group) Magnetic Users' Group and Data Users Committee. IRIS network. SOLTIP Steering Comm., 1988-94. COSPAR, Vice-chair E.2, 1998-2006.

Scientific Organizer, numerous sessions and meetings including the 4th and 23rd SOHO Conferences.

Associate Editor, JGR-Space Physics, 1997-2001; Editor's Citation for Excellence, 1997.

Principal Scientist, Stanford Solar On-Line Activities Resource Center, 1996-2000 and since 2004.

Project Astro Visiting Astronomer, 1994-8.

Undergraduate Academic Advisor, Stanford University; 5 & 10 year Master Advisor Awards.

Teaching Assistant in Astronomy, Physics & Mathematics, Calvin College & Stanford, 1974-84.

NSF Undergraduate Research Program, Solid State Physics, Loyola U., Chicago, IL, 1977.

U.S. Presidential Scholar, 1974; National Merit Scholar, 1974.

NSF Summer Science Program in Astronomy, Ojai, CA, 1973.

Publications and Papers Presented

Author/Co-author of more than 140 papers in astronomical and geophysical journals and of more than 200 contributed and invited lectures.