

Robert M. Robinson – 80's

Program Director, National Science Foundation
Geospace Facilities Program

EDUCATION

Ph.D., Space Physics and Astronomy, Rice University, Houston, Texas, 1980

M. S. Space Physics and Astronomy, Rice University, Houston, Texas, 1979

B.A., Astronomy, University of California, Los Angeles, 1971

EXPERIENCE

1992-Present: National Science Foundation (NSF), Program Director for Geospace Facilities

Responsible for overseeing the management and operations of six incoherent scatter radar facilities, the U. S. contribution to the SuperDARN program, and the Consortium for Resonance and Rayleigh Lidar.

Project Manager for the construction of the Advanced Modular Incoherent Scatter Radar (AMISR);

Technical Coordinator for the Center for Integrated Space Weather Modeling (CISM).

1992-Present: Division of Atmospheric and Geospace Sciences (AGS) Program Officer for the NSF cooperative agreement for the management and operation of the Arecibo Observatory (formerly the National Astronomy and Ionosphere Center)

Shared oversight of NSF awards to Arecibo for scientific operations and education and outreach programs, including the Arecibo Observatory Research Experience for Undergraduates program

Responsible for oversight of the Space and Atmospheric Sciences program at Arecibo, the ionospheric heating facility project, and the NSF Major Research Instrumentation (MRI) award for enhancement of the lidar program at Arecibo;

2009-2010: On detail to NSF Large Facilities Office.

Contributed to development of guidelines for operations for NSF Major Research Equipment and Facility Construction (MREFC) projects and large facilities, procedures for performance tracking and usage of large facilities, and Business Systems Reviews of large facilities.

2007-2008: NSF, Acting Section Head, Upper Atmospheric Research Section.

August 2000 – August 2001: NSF, Acting Program Director, Magnetospheric Physics

September 1995 – February 1996: NSF, Acting Program Director, Magnetospheric Physics

March 1995 – September 1995: NSF, Acting Program Director, Solar Terrestrial Physics

January 1993 – June 1993: NSF, Acting Program Director, Solar Terrestrial Physics

1990 -1992: LOCKHEED MISSILES AND SPACE COMPANY, INC., Lockheed Palo Alto Research Laboratories, Space Sciences Laboratory, Staff Scientist
Responsible for design and ground-truthing of satellite instrumentation for atmospheric remote sensing, Project Scientist for Lockheed Energetic Particles and Ion Composition experiment on Combined Release and Radiation Effects Satellite.

1984 - 1990: LOCKHEED MISSILES AND SPACE COMPANY, INC., Lockheed Palo Alto Research Laboratories, Space Sciences Laboratory, Research Scientist
Involved with studies of auroral electrodynamics using incoherent scatter radar and UV and X-ray auroral remote sensing techniques.

1980 - 1984: SRI INTERNATIONAL, Research Physicist
Specialized in analysis and interpretation of radar and satellite data pertaining to auroral electrodynamics and particle precipitation.

1976 - 1980: RICE UNIVERSITY, Department of Space Physics and Astronomy, Research Assistant/Research Associate
Analysis and interpretation of incoherent scatter radar and rocket measurements of an auroral arc. Rocket-borne magnetometer data analysis.

COMMITTEE MEMBERSHIP

San Diego Supercomputing Center Allocation Committee (1993-1994)
Natural Science and Engineering Research Council of Canada Grant Selection Committee (1999-2000)
Ex-Officio member of Coupling, Energetics and Dynamics of Atmospheric Regions (CEDAR) Steering Committee (1992-Present)
Ex-Officio member of Geospace Environment Modeling Steering Committee (1995 and 2000)
Ex-Officio member of Ionospheric Interactions Steering Committee (1997-2005)
Member Committee for Space Weather (1995-Present)
Member and chair of Steering Committee for the Community Coordinated Modeling Center (1998 – 2001, 2007 - 2010)
Living With a Star Science Architecture Team (2000-2001)
Living With a Star Geospace Mission Definition Team (2001-2004)
NASA LWS Management Operations Working Group (2002-2005)
Member, Editorial Board for AGU journal *Space Weather* (2001-Present)
Member of Canada Foundation for Innovation Review Panel, 2008
Member and Chair, AGU Tellers Committee (2008, 2010, 2011)
Executive Secretary, National Committee on Science, Subcommittee on Large Scale Science (2008 – present)
Executive Secretary, National Science Board Subcommittee on Facilities, (2011-present)

SOCIETY MEMBERSHIP

American Geophysical Union
International Union of Radio Science

ACCOMPLISHMENTS

Over 50 peer-reviewed publications; 33 first-author publications.

Contributing author to:

- National Space Weather Program, Strategic Plan (1994)
- National Space Weather Program, First Implementation Plan (1995)
- National Space Weather Program, Second Implementation Plan (1997)
- CEDAR Interim Report (1996)
- Impacts of NPOESS Nunn-McCurdy Certification and Potential Loss of ACE Satellite Solar Wind Data on National Environmental Monitoring Capabilities (2008)
- The National Science Foundation's Upper Atmospheric Facilities: Integrating Management, Operations, and Science (2008)

Author of three book reviews for EOS, Space Weather, and Bulletin of the American Meteorological Society

Contributed to the establishment of the Community Coordinated Modeling Center, 1997.

Responsible for establishing the AGU journal: *Space Weather: The International Journal of Research and Applications*, 2002.

NSF General Workforce System Outstanding Performance Award (1994, 1995)

NSF Director's Award for Program Management Excellence (1999 and 2009)

NASA Group Achievement Award for contributions to the CCMC (2004)

NASA Group Achievement Award for contributions to UARS (2006)

NASA Group Achievement Award for contributions to TIMED (2008)

Author of two science fiction books, "The Seeds of Aril" and "A Planet Called Happiness", published by Firefall Media, 2011 and 2013.