

Resumé
Christopher Thomas Russell

Positions held

1982-Present Professor, Department of Earth, Planetary and Space Sciences, and Institute of Geophysics and Planetary Physics, UCLA
1977-1981 Research Geophysicist, Institute of Geophysics and Planetary Physics, UCLA
1974-1977 Associate Research Geophysicist, Institute of Geophysics and Planetary Physics, UCLA
1969-1974 Assistant Research Geophysicist, Institute of Geophysics and Planetary Physics, UCLA

Education

Ph.D. Planetary and Space Physics, University of California, Los Angeles, 1968
B.Sc. Physics, University of Toronto, 1964

Membership in Professional Societies

American Geophysical Union, Fellow
American Association for the Advancement of Science, Fellow
Royal Astronomical Society, Associate of the Society
European Geosciences Union, Life time Member
American Astronomical Society
 Division of Planetary Science
 Solar Physics Division
International Academy of Astronautics, Member Basic Sciences
International Astronomical Union, Commission 49
COSPAR Associate

Awards and Honors

NASA Distinguished Public Service Medal, 2017.
NASA, Principal Investigator, Psyche Magnetometer, 2017.
NASA, Co-Investigator Psyche Discovery Mission, 2017.
NASA, Europa Mission ICEMAG, Magnetometer Co-I, 2016.
SIL-MAG, Israeli Google XPrize entrant to land on Moon.
NASA, Principal Investigator InSight magnetometer, 2014.
NASA Exceptional Scientific Service Award, 2013.
IAU Asteroid 21459 Chrisrussell, 2008.
American Geophysical Union, Fleming Medal, 2003.
Highly Cited Researcher, Institute for Scientific Information, 2002.
Inaugural speaker, T. B. McCord Distinguished Lecture Series, U. Hawaii, Dec. 2002.
National Academy of Sciences, National Associate, November, 2002.
COSPAR, Space Science Award, October, 2002.
National Aeronautics and Space Administration, Co-Investigator, Magnetospheric Multiscale Mission, 2005
National Aeronautics and Space Administration, Co-Investigator, THEMIS, 2002

National Aeronautics and Space Administration, Principal Investigator, Dawn Mission, 2001.

Dawn Mission Awards

Distinguished Engineering Project Achievement Award, Engineers' Council, Dawn, 2012.

Current Achievement Award, National Air and Space Museum, 2014.

Collier Trophy, National Aeronautic Association, 2015 Award (101st award) presented 6/16

National Space Club, P. Jackson Award, 2016.

AIAA, SpaceX Technical Excellence Award, 2016.

Rotary National Award for Space Achievement, Stellar Award, 2017.

National Aeronautics and Space Administration, Co-Investigator, IMPACT Investigation, STEREO Mission, 2000.

National Aeronautics and Space Administration, Team Member, Near Earth Asteroid Rendezvous (NEAR) Mission, 1994.

National Aeronautics and Space Administration, Co-investigator (magnetic field investigation) Cassini Mission, 1990.

European Space Agency, Co-investigator Venus Express Mission, 2002.

European Space Agency, Co-investigator, Rosetta Mission, 1993.

Japanese Aerospace Exploration Agency, Co-investigator BepiColombo, 2005.

Space Research Institute, Austria and Space Research Institute USSR, Co-investigator (magnetic field investigation) Mars-94 mission, 1989.

Space Research Institute, Austria, and Space Research Institute, USSR, Co-investigator (magnetic field investigation) Phobos mission, 1987.

Harold Jeffreys Lecturer, Royal Astronomical Society, 1987.

Space Research Institute, Austria and Space Research Institute, USSR, Co-investigatorship (magnetic fields investigation) Vega mission, 1985.

National Aeronautics and Space Administration, Principal Investigatorship, Polar magnetic field investigation, International Solar Terrestrial Program, 1982.

National Aeronautics and Space Administration, Interdisciplinary Scientist, Galileo Mission, 1977.

Macelwane Award, American Geophysical Union, June, 1977.

National Aeronautics and Space Administration, Principal Investigatorship, Lunar Polar Orbiter Mission, 1976.

National Aeronautics and Space Administration, Principal Investigatorship, Pioneer Venus Orbiter Mission, 1974.

National Aeronautics and Space Administration, Principal Investigatorship, International Sun-Earth, Explorer Satellites A and B, 1973.

Professional Society Service

Service (Scientific Societies)

Committee on Space Research COSPAR

Commission D, Space Plasmas in the Solar System, Executive Member 1979-1982

Chairman 1982-1986

Panel on Potentially Environmentally Detrimental Activities in Space,

	Member	1978-1982
Panel 2A. On Active Experiments,	Chairman	1976-1979
Working Group 2 on Solar Wind and Magnetospheres,	Vice Chairman	1974-1975
Publications Committee,	Member	1993-2000 2002-2010
International Association of Geomagnetism and Aeronomy		
Working Group on Auroral Oval and Extension into Space,	Vice Chairman	1973-1979
	Chairman	1979-1983
Nominations Committee,	Member	1998-1999
International Union of Radio Science		
Working Group on Active Experiments,	Chairman	1975-1983
USNC Commission H,	Executive Committee Member	1977-1981
Scientific Committee on Solar Terrestrial Physics		
Liaison Representative for COSPAR		1984-1987
American Geophysical Union,	Member	1965-present
	Fellow	1977-present
Representative of AGU to USNC/URSI		1977-1983
Solar Planetary Relations Section,	President-elect	1986-1988
	President	1988-1990
Education and Human Resources,	Committee Member	1977-1989
	Chairman	1980-1982
Meetings Committee,	Member	1986-1988
	Chair	1990-1992
Global Change Panel,	Member	1989-1992
Smith Committee Medal Committee,	Member	1992-1994
Public Information Committee,	Chair	1994-1996
Space Physics and Aeronomy,	Section Press Officer	1998-2000
Nominations Committee,	Member	2002-2003
Panel on Human Impacts on Climate	Member	2007
American Astronomical Society, Division of Planetary Sciences,	Awards Committee Member	1994-1995

Service (Books and Journals)

Associate Editor, Journal of Geophysical Research, 1976-1978.
 Associate Editor, Proceedings of Sixth Lunar Science Conference.
 Editor, Solar Wind Three, Proceedings of Third Solar Wind Conference.
 Associate Editor, EOS, Transactions of the American Geophysical Union, 1979-1982.
 Associate Editor, Geophysical Research Letters, 1979-1981.
 Editor, Auroral Processes, Proceedings of IAGA Symposium (Seattle 1977), 1979.
 Editor, Active Experiments in Space Plasmas, Advances in Space Research, Vol. 1, 1981.
 Editor, The IMS Source Book, American Geophysical Union, 1982.
 Editor, (with G. E. Morfill and M. S. Hanner), Advances in Space Research, Vol. 4(9),

Dust in Space and Comets, 1984.
Editorial Board, Space Science Reviews, 1983-2004.
Editor (Planetary Sciences), Space Science Reviews, 2004-present.
Editorial Board, Planetary and Space Science, 1984-1988; 2002-present.
Editor, Solar Wind Interactions, Advances in Space Research, Vol. 6(1), 1986.
Regional Editor, Planetary and Space Science, 1988-1998.
Editor, Planetary and Space Science, 1998-2001.
Editor, Multipoint Measurements of Magnetospheric Processes, Advances in Space Research, Vol. 8, 1988.
Editor, Physics of Magnetic Flux Ropes, American Geophysical Union, 1990.
Editor, Venus Aeronomy, Kluwer Academic Publications, 1991.
Editorial Board, Indian Journal of Radio and Space Physics, 1992-1994.
Editor, The Galileo Mission, Kluwer Academic Publications, 1992.
Editor, The Magnetosheath, Advances in Space Research, Vol. 14(7), Pergamon Press 1994.
Editor, The Physics of Collisionless Shocks, Advances in Space Research, Vol. 15 (8/9) Pergamon Press, 1995.
Editor (with M. G. Kivelson) Introduction to Space Physics, Cambridge University Press, 1995.
Editor, The Global Geospace Mission, Kluwer Academic, 1995.
Editor, The Near Earth Asteroid Mission, 1997.
Editor, Results of the IASTP Program, Elsevier, 1997.
Editor (with C. P. Escoubet and R. Schmidt), The Cluster Phoenix Missions, Kluwer Academic, 1997.
Editor, (with R. Mewaldt and T. von Rosenvinge), The Advanced Composition Explorer Mission Kluwer Academic, 1998.
Editor, Coordinated Measurements of Magnetospheric Processes, Elsevier, 2000.
Editorial Board, Icarus, 2002-2004.
Editor, The Cassini/Huygens Mission, Space Sci. Rev., 104, 640pp, 2002.
Editor, The Genesis Mission, Space Sci. Rev., 105, 509-679, 2003.
Editor, 2001 Mars Odyssey, Space Sci. Rev., 110, 1-159, 2004.
Editor (with Blanco-Cano) Comparative Magnetospheres, Planetary and Space Science, 23, 1847-2120, 2004.
Editor, The Cassini/Huygens Mission, Space Science Rev., 114, 518pp, 2004.
Editor, The Cassini/Huygens Mission, Space Science Rev., 115, 497pp, 2004.
Editor, The Deep Impact Mission, Space Science Rev., 117, 396pp, 2005.
Editor, (with G. Li and G. P. Zank), Physics of Collisionless Shocks, AIP Conference Proceedings, 781, 349pp, 2005.
Editor, The Mars Plasma Environment, Space Sci. Rev., 126, 504pp, 2006.
Editor (with K.H. Glassmeier and H. Boehnhardt), Rosetta: Mission to Comet, 67P/Churyumov-Gerasimenko, Space Sci. Rev., 128, 904pp, 2007.
Editor (with D.L. Domingue), The MESSENGER Mission to Mercury, Space Sci. Rev., 131, 623pp, 2007.
Editor, Special Issue: Mars Express/Venus Express, Planetary Space Sci., 56, p779, doi:10.1016/j.pss.2007.12.001, 2008.
Editor, The STEREO Mission, Space Sci. Rev., 136, doi:10.1007/s11214-008-9344-1, 2008.

Editor, New Horizons: Reconnaissance of the Pluto-Charon System and the Kuiper Belt, *Space Science Rev.*, 140, doi:10.1007/s11214-0089450-0, 2008.

Editor, (with R.R. Vondrak and J.W. Keller) The Lunar Reconnaissance Orbiter, *Space Science Reviews*, 150, 2010.

Editor, (with A. Matsuoka) The Kaguya Mission to the Moon, *Space Science Reviews*, 154, 2010.

Editor, (with C. A. Raymond), The Dawn Mission to Minor Planets 4 Vesta and 1 Ceres, *Space Science Reviews*, 163, 2011.

Editor, (with V. Angelopoulos) Acceleration, Reconnection with Turbulence and Electrodynamics of the Moon's Interaction with the Sun, *Space Science Reviews* 165, 2011.

Editor, (with A. Colaprete), The Lunar Crater Observation Sensing Satellite (LCROSS), *Space Science Reviews* 167, 2012.

Editor, (with J. Grotzinger and A. Vasavada), Mars Science Laboratory, *Space Science Reviews*, 170, doi: 10-1007/s 11214-012-9928-7, 2012.

Editor (with M. T. Zuber) GRAIL, Mapping the Moon's Interior, *Space Science Reviews*, 178, doi: 10.1007/s11214-013-0010-x, 2013

Editor (with R. C. Elphic) The Lunar Atmosphere and Dust Environment Explorer Mission, *Space Sci Rev.*185, 1-2 doi:10.1007/s11214-014-0120-0, 2014.

Editor (with B.M. Jakosky) The Mars Atmosphere and Volatile Evolution (MAVEN) Mission *Space Science Rev.*, 195, 1-4, doi:10-1007/s11214-015-0221-4

Editor (with K. E. Mandt, O. Mousis and D. Bockelée-Morvan) Comets as Tracers of Solar System Formation and Evolution, *Space Scie. Rev.*197, 1-4, doi:10:1007/s11214-015-0215-2

Service (Program Committees)

Convener, Third Solar Wind Conference, Asilomar, Pacific Grove, CA, March 1974.

Member, Conference on the Interactions of the Interplanetary Plasma with the Modern and Ancient Moon, George Williams College, Lake Geneva Campus, Williams Bay, Wisconsin, October 1974.

Convener, Symposium on Active Experiments in Space Plasmas, Boulder, Colorado, June 1976.

Convener, Symposium on Auroral Oval, Third General Assembly of the International Association of Geomagnetism and Aeronomy, Seattle, Washington, August 1977.

Convener, General Contributions to Magnetospheric Physics, Third General Assembly of the International Association of Geomagnetism and Aeronomy, Seattle, Washington, August 1977.

Member, International Symposium on Solar-Terrestrial Physics, Innsbruck, Austria, June 1978.

Member, Fourth Solar Wind Conference, Burghausen, West Germany, August 1978.

Member, Chapman Conference on Magnetospheric Substorms, Los Alamos, New Mexico, October 1978.

Member, Origins of Planetary Magnetism, Lunar and Planetary Institute, Houston, Texas, November 1978.

Member, First International Conference on IMS Results, Melbourne, Australia, November 1979.

Convener, Symposium on Active Experiments, XXIIIrd Plenary Meeting of COSPAR, Budapest, Hungary, June 1980.

Convener, IMS Assessment Symposium, Goddard Space Flight Center, Greenbelt, Maryland,

May 1981.
 Member, AGU Chapman Conference on Waves in Magnetospheric Plasmas, Kona Coast, Hawaii, February 1983.
 Member, AGU Chapman Conference on Magnetic Reconnection, Los Alamos, New Mexico, October 1983.
 Member, Conference on Planetary Plasma Environments: A Comparative View, Yosemite, California, January 1984.
 Member, AGU Chapman Conference on Collisionless Shocks, Napa Valley, California, February 1984.
 Member, Solar Terrestrial Predictions Workshop, Meudon, France, June 1984.
 Member, COSPAR XXV Meeting, Graz, Austria, June 1984.
 Member, Comparative Study of Magnetospheric Systems, La Londe des Maures, France, September 1985.
 Member, International Symposium on Solar Terrestrial Physics, Toulouse, France, July 1986.
 Convener, Solar Wind Interactions Symposium, 26th COSPAR Meeting, Toulouse, France, July 1986.
 Convener, Multipoint Measurements of Magnetospheric Processes Symposium, Helsinki, Finland, July 1988.
 Convener, Chapman Conference on Physics of Magnetic Flux Ropes, Bermuda, March 1989.
 Member, Transition Regions in Solar System Plasmas, Yosemite, CA, February 1990.
 Member, Symposium on Martian Plasma Environment, COSPAR XXVIII, Den Haag, The Netherlands, July 1990.
 Convener, Symposium on Physics and Predictions of Magnetic Storms and Disturbances, IUGG General Assembly, Vienna, August 1991.
 Convener, Symposium on Mass Loading of the Solar Wind Throughout the Solar System, IUGG General Assembly, Vienna, August 1991.
 Convener, GEM Workshop on Boundary Layer Campaign, UCLA, September 1991.
 Chairman Magnetospheric Working Group, Solar Terrestrial Predictions Workshop, Ottawa, May 1992.
 Member, Scientific Program Committee, Symposium on the Study of the Solar-Terrestrial System, Kellarney, June 1992.
 Convener, GEM Workshop on Boundary Layer Campaign, Snowmass Colorado, June 1992-1997.
 Convener, Special Session on Signatures of Solar Wind-Magnetosphere and Solar Wind-Ionosphere Coupling, Western Pacific Geophysics, Meeting, Hong Kong, August 1992.
 Member, Fourth COSPAR Colloquium, Critical Problems in the Plasma Environments of Comets and other Non-Magnetized and Weakly Magnetized Bodies, Ann Arbor, August 1992.
 Convener, COSPAR Symposium on the Magnetosheath as the Interface between the Magnetopause and the Bow Shock, Washington, DC, August 1992.
 Coconvener, GEM Workshop on Boundary Layer Campaign, Snowmass Colorado, June 1993.
 Member, Program Committee, IAGA Workshop on Collisionless Shocks, Buenos Aires, Argentina, August 1993.
 Member, Program Committee, AGU Chapman Conference on the Magnetopause and its Boundary Layers, San Diego, March 1994.

Coconvener, AGU All Union Session on Space Exploration: Geophysics of New Worlds, Spring National Meeting, Baltimore, May 1994.

Coconvener, AGU Special Session on Space Weather, Spring National Meeting Baltimore, May 1994.

Coconvener, GEM Workshop on Boundary Layer Campaign, Snowmass Colorado, June 1994, June 1995, June 1996.

Convener, COSPAR Symposium on the Physics of Collisionless Shocks, Hamburg, Germany, July 1994.

Coconvener, IAGA Symposium on Magnetosheath, Magnetopause, Boundary Layers and Cusp: A Coupled System, Boulder, Colorado, July 1995.

Coconvener, IAGA Symposium on Wave Response of Magnetosphere to Solar Wind Energy Input, Boulder, Colorado, July 1995.

Coconvener, IAGA Symposium on Planetary Bow Shocks, Boulder, Colorado, July 1995.

Convener, COSPAR Symposium on the Results of the IASTP Program, Birmingham, UK, July 1996.

Member, Program Committee, Western Pacific Geophysics Meeting Brisbane, Australia, July 1996.

Member, Program Committee, AAS/Division of Planetary Sciences, Annual Meeting, October 1996.

Convener, COSPAR Symposium on Coordinated Measurements of Magnetospheric Processes Nagoya, Japan, July 1998.

Convener, Special Session on Aurora and Magnetospheric Processes of the Outer Planets, Taipei, Taiwan, July 1998.

Member, Program Committee, AGU Chapman Conference on Magnetospheric Currents, Kona, Hawaii, January 1999.

Convener, GEM Workshop, Special Session on Pulsations, June 1999.

Member Program Committee, Magnetospheres of Outer Planets, August 1999.

Member, Program Committee AGU Chapman Conference on Space Weather, Clearwater, Florida, March 2000.

Deputy Organizer: COSPAR Symposium on “Io: The heart of the jovian system” Warsaw, July 2000.

Convener, AGU Special Session on the Bow Shock, Magnetosheath and Magnetopause, Fall National AGU Meeting, San Francisco, December 2000.

Member, Program Committee, AGU Chapman Conference on Storm-Substorm Relationship, Lonavala, India, March 2001.

Member, Program Committee, Jupiter: The Planet, Satellites and Magnetosphere, Boulder, CO, July 2001.

Main Scientific Organizer, COSPAR Symposium on Comparative Planetary Magnetospheres, Houston, TX, October 2002.

Member, Program Committee, Huntsville 2004 Modeling Workshop: Challenges in modeling the Sun-Earth system.

Co-convener, AGU Special Session on Ground Arrays for the Twenty-first Century, May 2004.

Member, Scientific Organizing Committee, Saturn Universe, Capri, October 2004.

Member, Scientific Organizing Committee, IGPP 4th Annual International Astrophysics Conference, Palm Springs, CA, February 2005.
Member, Program Committee, AGU Chapman Conference, Exploring Venus as a Terrestrial Planet, Key Largo, Florida, February 2006.
Co-convenor, Japanese Geophysical Union meeting, Small Bodies in the Solar System, May 2017.

Service (Ad Hoc Committees)

AMPS Review Panel, NASA, 1976.
Explorer Mission Advisory Committee, NASA, 1977.
Spacelab Payload Advisory Panel, NASA, 1978.
Solar Terrestrial Observatory Study Group, NASA, 1979-1980.
Starprobe Mission Definition Team, JPL, 1981.
Targeted Mission Advisory Panel, JPL, 1981.
Mars Geoscience Climatology Orbiter, NASA, 1983-1985.
NASA Center - University Relations Subcommittee, NASA, 1983-1984.
Search Committee for Editor of Radio Science, Chair, 1983.
Consultant, International Halley Watch, Large-Scale Phenomena Discipline, 1984-1986.
Search Committee for Editor of Geophysical Research Letters, 1985.
Mars Aeronomy Observer, Science Study Team, NASA, 1985.
Major Directions in Space Science, 1995-2015, National Academy of Sciences, 1984-1986.
Search Committee for Co-Editor of Geophysical Research Letters, Chairman, 1986.
Search Committee for Co-Editor of Geophysical Research Letters, 1988.
Astrophysics and Astronomy Survey Committee, NAS, member of both Planetary and Computing Panels, 1989-1990.
National Academy of Science, Advisory Committee on Space Age Television Project, 1989-1992.
NSF, Coordinator, Geospace Environment Modeling program, 1991- 2009.
SHINE-GEM Coordinator 2007 – present.
STEP Working Group 6.4 SCOSTEP, 1991-1993.
NRC/NAS Study Panel, Executive Committee, Geomagnetic Initiative, 1992.
NRC/NAS Study Panel, Executive Committee, Toward a National Collaboratory, 1991-1992.
Galileo IDS, NASA Review Panel, 1992.
Search Committee for Editor-in-Chief of USNC Quadrennial Report to IUGG, Chairman, 1992-1993.
NRC/NAS Committee on the Long Term Retention of Scientific and Technical Records of the Federal Government, Chairman, Panel on Space Sciences, 1993-1994.
Comet Shoemaker-Levy Planning Committee, Member, NASA/SPD, 1993-1994.
Grand Tour Cluster, Planning Committee, 1991-1994.
NRC/NAS Panel to Review the Explorer Program, 1996.
Sun Earth Connections Roadmap Integration Team, NASA; Chair, campaign on Earth's Space Environment, 1996.
NRC/NAS Task Group on the Research and Analysis Program, 1996-1998.
NASA Geospace Multiprobe Science Design Team, 1996-1998.

NASA Multiscale Science Design Team 1998-2001.
NRC/NAS Decadal Study of Sun-Earth Connections, Panel on Solar Wind-Magnetosphere Interactions, Chair, 2001-2003.
NRC/NAS Committee to Review NOAA's National Geophysical Data Center, 2002-2003.

Service (Standing Committees)

Member, Space Science Advisory Committee, Office of Space Science, NASA, 1978-1982.
Member, Science Oversight Committee, Air Force Geophysics Research Labs., 1976-1983.
Member, National Space Science Data Center Advisory Board, 1980-1983.
Member, Science Steering Group, Pioneer Venus Mission, 1974-1994.
Member, Orbital Mission Operations Planning Committee, Pioneer Venus Mission, 1978-1993.
Vice-chairman, Solar Wind Ionosphere Working Group, Pioneer Venus Mission, 1980-1993.
Member, Science Working Team, International Sun-Earth Explorer Mission, 1973-1991.
Member, Project Science Group, Galileo Mission, 1977-present.
Member, Science Working Group, International Solar Terrestrial Program, 1982-present.
Chairman, Planetary Science Data Steering Group, 1983-1984; 1991-1995. Member 1985-1990.
Member, Space Science Board, National Academy of Science, 1984-1988.
Chairman, Committee on Data Management and Computation, National Academy of Science, 1984-1988.
Advisor, International Center for Theoretical Physics, Trieste, Italy, 1985-1993.
Member, Planetary Data System, Management Council, 1986-1991.
Chair, Steering Committee, International Jupiter Watch, 1986-1990; member 1991-present.
Member, Planning and Advisory Committee, Space Data and Computing Division, Goddard Space Flight Center, 1986-1991.
Member, Advisory Committee, Institute of Geophysics and Planetary Physics, Los Alamos, 1988-1998 and 2001-2011.
Member, Science Advisory Panel, National Geophysical Data Center, 1990-1995.
Member, Space Physics Division, Management Operations Working Group on Data Systems, 1991-1993.
Member, Cal Space Advisory Board, 2001-2005.
UCLA Representative to Universities Space Research Association, 2004-present.
Director, UCLA Branch of California Space Grant Consortium, 1988 – present.

Dated: May 30, 2017