

Resumé

RONALD GREELEY

Ronald Greeley is a Regents' Professor in the *School of Earth and Space Exploration (SESE)* at *Arizona State University*, Director of the *NASA-ASU Regional Planetary Image Facility*, and Principal Investigator of the *Planetary Aeolian Laboratory* at NASA-Ames Research Center. He has been involved in lunar and planetary studies since 1967. Current research is focused on understanding planetary surface processes and geologic histories. The approach involves a combination of spacecraft data analysis, laboratory experiments, and geologic field studies on Earth of features analogous to those observed on the planets.

After receiving his Ph.D. in Geology in 1966, Greeley worked for *Standard Oil Company of California*. Through military duty, he was assigned to NASA's *Ames Research Center* in 1967 where he worked in a civilian capacity in preparation for the Apollo missions to the Moon. Subsequently, he remained at NASA to conduct research in planetary geology. With the results from planetary missions in the early 1970s, attention shifted to Mars and research on volcanism and aeolian processes through the analysis of Mariner 6, 7, and 9 data. Results from this work were applied as a science team member on the Mars Viking Mission, 1976-80.

In 1977, Greeley joined the faculty at *Arizona State University* with a joint professorship in Geology and the Center for Meteorite Studies. Current projects include study of wind processes on Earth, Mars, Venus, and Titan, field studies of basaltic volcanism, and photogeological mapping of planets and satellites including Europa. Current planetary mission involvement includes science team membership on the *Mars Exploration Rovers*, and the European Space Agency *Mars Express* mission. Greeley has served on various NASA and National Academy of Science panels to assess space science and planetary geology activities. He has chaired the NASA Planetary Geology and Geophysics *Management Operations Working Group*, the National Academy of Sciences *Committee on Lunar and Planetary Exploration*, and the NASA *Mars Exploration Program Analysis Group*; he is currently *Chair of the Planetary Sciences Subcommittee of the NASA NAC Science Committee*. He is author or co-author of 16 books and more than 400 papers.

Positions held:

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| 1977-present | <i>Professor</i> , School of Earth and Space Exploration, Arizona State University, Tempe, Arizona (<i>Chair</i> , 1986-1990; <i>Regents' Professor</i> , 1994-present; <i>Interim Director</i> , School of Earth and Space Exploration, 2005-2006) |
| 1999-2003 | <i>Distinguished Visiting Scientist</i> , Jet Propulsion Laboratory |
| 1984 | <i>Overseas Fellow</i> , Cambridge University, Churchill College and Department of Earth Sciences, England |
| 1976-1980 | <i>Adjunct Professor</i> , Department of Geological Sciences, State University of New York, Buffalo, New York |
| 1976-1977 | <i>Visiting Associate Professor</i> , Division of Geological and Planetary Science, California Institute of Technology, Pasadena, California |
| 1975-1980 | <i>Research Fellow</i> , Physics and Astronomy Department, University of London Observatory, Mill Hill Park, London NW7 2QS, England |

- 1971-1977 *Research Associate*, Physics Department, University of Santa Clara, California (Office and Laboratories at Space Sciences Division, NASA-Ames Research Center, Moffett Field, California)
- 1969-1971 *Postdoctoral Research Associate*, National Research Council, National Academy of Sciences, Space Sciences Division, NASA-Ames Research Center, Moffett Field, California
- 1967-1969 *Research Scientist*, U.S. Army assigned to Space Sciences Division, NASA-Ames Research Center, Moffett Field, California
- 1966-1967 *Geologist*, Standard Oil Company (California), Lafayette, Louisiana
- 1965-1966 *Instructor in Geology* (part-time), Department of Geology, University of Missouri at Rolla, Missouri

Education:

B.S.	Geology	1962	Mississippi State University
M.S.	Geology	1963	Mississippi State University
Ph.D.	Geology	1966	University of Missouri at Rolla

Membership in Professional Societies:

American Association for Advancement of Sciences, Fellow
 Geological Society of America, Fellow
 American Geophysical Union, Fellow
 Meteoritical Society
 National Speleologic Society, Honorary Lifetime Member
 European Geosciences Union, Lifetime Member

Awards and Honors:

Fellow, *American Association for Advancement of Science*, (2008)
 Fellow, *American Geophysical Union*, (2007)
 Best Field Trip of the Year, *Ariz. State Univ. School of Earth and Space Expl.* (2007)
 Presidents Award for Practical Paper, *Amer. Soc. Photogrammetry and Remote Sensing* (2006)
 Distinguished Faculty Award, *Arizona State University* (2004)
 Distinguished Alumnus Award, *Mississippi State University* (2004)
 National Associate, *National Academy of Sciences* (2003)
 Honorary Lifetime member, *National Speleologic Society* (2000)
 Distinguished Visiting Scientist, *Jet Propulsion Laboratory* (1999-2003)
 Best Geoscience Reference (NASA Cambridge Atlas), *Geoscience Information Society (GSA)* (1998)
 Ida and Cecil Green Honors Professor, *Texas Christian University* (1998)
 G. K. Gilbert Award, Planetary Geology Division, *Geological Society of America* (1997)
 Regents' Professorship, *Arizona State University* (1994)
 Asteroid named *Greeley 30785* (1988)
 Outstanding Mentor of Graduate Students, *Graduate College, Arizona State University* (1988)
 Overseas Fellow, *Churchill College, Cambridge University* (1984)
 Distinguished Research Award, *Graduate College, Ariz. State Univ.* (1981-1982)

NASA Awards:*Individual*

1. Galileo Superior Performance Award, Earth-Moon-2 (1995)
2. Public Service Medal, Viking landing site analysis (1977)

Leadership NASA Awards

1. Jupiter Icy Moons Orbiter, Science Definition Team (Chair) (2005)
2. Mars Strategic Planning (MEPAG Founding Chair) (2001)

Flight-project NASA Group Awards

1. Mars Express extended mission operations (2008)
2. Autonomous Sciencecraft Experiment Team (2005)
3. Mars Exploration Rover Operations (2004)
4. Mars Exploration Rover Science (2004)
5. Automated Synthetic Aperture Radar Image Processor Development Team (1998)
6. Galileo Flight Operations (1998)
7. Synthetic Aperture Radar Development for Shuttle (1998)
8. Imager for Mars Pathfinder science team (1997)
9. Galileo Jupiter Probe and Orbit insertion (1996)
10. Galileo asteroid Gaspra encounter (1994)
11. Magellan radar science team (1992)
12. Galileo Instrument (solid state imager) design team (1991)
13. Viking Mars mission, Orbiter Imaging Team (1976)

Future mission and instrument development NASA Group Awards

1. Autonomous Science-craft Experiment (2005)
2. Software of the year (2005)
3. Jupiter Icy Moons Orbiter (2005)
4. Mars Pathfinder, Imager for Mars Pathfinder Team (1997)
5. ARES Mars Airplane (1991)

Professional Society Service:

Member, *International Planetary Rovers Symposium, Science Program Steering Committee*, Toulouse, France (1991-1992); Santa Monica (1997)

Member, *American Geophysical Union, Committee on Public Affairs* (1989-1994)

Member, *Program Committee, Division of Planetary Science* (Amer. Ast. Soc.; 1985, 1992)

Chair, *Geological Society of America, Planetary Geology Division* (1989-1990)

Member, *The Planetary Society, Advisory Board for Mars* (1982-1985)

Organizing Committee - *Third International Colloquium on Mars* (1981)

Science-Service:

Consultant, Jet Propulsion Laboratory (2000-present)

Consultant, Johns Hopkins University, *Applied Physics Laboratory* (2001-2006)

Member, Director's Science Council, *NASA Astrobiology Institute*, Ames Research Center (1999-2003)

Member, Steering Committee, Solar System Exploration Strategic Survey, *National Academy of Sciences* (vice-chair of Inner Planets Panel) (2001-2002)

Consultant, *Global Aerospace* (2002)
 Consultant, *CH2M Hill Engineers* (2002)
 Member, *Mars Task Group*, NASA Headquarters (2001)
 Consultant, Mars Sample Return mission, *SpaceDev (Boeing)* (2001)
 Chair, Committee on Planetary and Lunar Exploration, *National Academy of Sciences* (1995-1998) (member, 1981-1985)
 Member, Space Studies Board, *National Academy of Sciences* (1995-1998)
 Member, *Lunar and Planetary Institute Science Council* (1981-1984; 1991-1995)
 Member, *Review Board, Jet Propulsion Laboratory Image Processing Facility* (1984-1987; 1992-1994)
 Consultant, *Kuwait Institute for Scientific Research* (1986-1988)
 Member *National Academy of Sciences Study Panel, Space Sciences in the Period 1995-2015* (1984-1986)
 Consultant, *UNESCO, Physics of Desertification* (Trieste 1979), (Khartoum 1984)
 Consultant, Impact Cratering proposal, *Royal Society*, London (1980)
 Consultant, French space science review (*CNR*) (1978)
 Expert Witness (law firms), litigation dealing with geological and aeolian processes (continuing)

Editorial Service:

Associate Editor, *Astrobiology* (2001-present)
 Associate Editor, *Icarus* (1984-2001)
 Associate Editor, Planetary Science Series, *Cambridge University Press* (1980-2000)
 Associate Editor, *Astronomy Express, Univ. of Cambridge Press* (1984-1985)
 Special Editor, 3rd Mars Colloquium Issue, *Journal of Geophysical Research* (1982)
 Associate Editor, *Journal of Geophysical Research* (1978-1982)

Convenor/Organizer of Service Functions:

Convenor, NASA Icy Satellites Astrobiology Workshop (NASA – Ames (Sept. 2007)
 Convenor, AAAS Symposium, Europa, San Francisco (Feb. 2007)
 Convenor, NASA Europa workshop (NASA-Ames) (Feb. 2006)
 Organizer, NASA workshop on Dust Devils (2005)
 Chair, *NASA-Astrobiology Institute*, Europa Focus Group (2001-2004)
 Co-chair, *Workshop on Human Exploration of Mars* (NASA Goddard, 2001)
 Convenor, *NASA, Geol. Soc. Amer., and NSF Short Courses in Planetology* (1974, 1976, 1978, 1979, 1985, 1996)
 Organizer, *Dust on Mars* workshop (1991)
 Organizer, NASA workshop on "Future of Planetary Geology" (1988)
 Member, Organizing committee, LPI workshop "Mars Sample Return" (1988)
 Convenor, *NASA Panel for Space Science Microgravity Experiments* (1983-1986)
 Organizer, *Io Volcanism Workshop*, Kona (1984)
 Organizer, *NASA Field Conference on Aeolian Processes* (1978)
 Co-organizer, *NASA Field Conference on Volcanism in the Snake River Plain* (1977)
 Organizer, *NASA Field Conference on Hawaiian volcanism* (1974)

NASA Committees:

- Co-chair, *Science Definition Team, Europa Orbiter* (2006-present)
- Chair, *NASA Astrobiology Icy Satellites Focus Group* (2006-2008)
- Chair, *Europa Sub-Group, Outer Planets Program Analysis Group* (2003-2006)
- Chair, *NASA Planet. Geo. and Geophys. Management Operations Working Group* (2003-2008)
- Co-chair, *NASA Science Definition Team, Jupiter Icy Moons Orbiter* (2003-2005)
- Chair, *NASA Astrobiology Europa Focus Group* (2001-2004)
- Member, *NASA Mars Exploration Review Team* (2001-2003)
- Chair, *NASA Mars Exploration Payload Analysis Group* (1999-2002)
- Co-chair, *Science Definition Team, Mars '05 Orbiter* (2000-2001)
- Chair, *NASA Office of Space Sciences - Minority University Program proposal review panel* (2000)
- Chair, *NASA Regional Planetary Image Facility, Board of Directors* (1998-2000)
- Chair, *NASA Lunar Prospector Data Analysis proposal review panel* (1999)
- Member, *Mars Architecture Review Board* (1998-1999)
- Chair, *NASA Jupiter Satellite Data Analysis proposal review panel* (1998)
- Member, *NASA-ESA Joint Science Working Group, InterMarsNet* (1994-1996)
- Member, *Solar System Road Map development team*-(1995-1996)
- Member, *NASA Mars Science Working Group* (mission planning) (1976-1979), (1989-1995)
- Member, *Advanced Mission Planning: Mars Landing Sites* (1978-1995)
- Chair, *NASA Clementine proposal review panel* (1993)
- Member, *NASA Science Definition Team, Mars MESUR mission* (1991-1993)
- Chair, *NASA Science Steering Committee, Mars Geological Mapping Program* (1986-1992)
- Member, *NASA Planetary Geology Development Program* (1987-1992)
- Project Director, *NASA Solar System Atlas* (1987-1992)
- Member, *NASA Science Steering Committee, Geology Remote Sensing Field Experiment* (1987-1991)
- Member, *NASA Teleoperations Working Group, Ames Research Center* (1989-1991)
- Member, *NASA Lunar Instrument Science Definition Team* (1989-1991)
- Member, *NASA Mars Telescope Science Group* (1990)
- Member, *NASA Steering Committee, "Mars: Volcanism/Tectonism" study project* (1987-1990)
- Member, *Steering Committee, NASA Galilean Satellite Geological Mapping Program* (1980-1990)
- Member, *NASA Mars Rover/Sample Return Science Working Group* (1988-1989)
- Chair, *NASA Lunar and Planetary Geology Program, proposal review panel* (Geology Group) (1976-1979), (1986-1989)
- Chair, *Steering Committee, NASA project, Solar System Science on Space Station* (1984-1988)
- Chair, *Steering Committee, NASA project, Mars: Evolution of its Climate and Atmosphere* (1984-1987)
- Member, *NASA Space Station Users Working Group, Goddard Space Flight Center* (1985-1987)
- Chair, *NASA Planetary Cartography Working Group* (1984-1986)
- Chair, *NASA Planetary Geology Working Group* (1980-1984)
- Member, *NASA Lunar Nomenclature Subgroup* (1974-1976)

Principal Investigator:

Jupiter Satellite Data Analysis Program (1999-2001)
 Joint U.S.-Russia Investigator Program (1999-2001)
 NASA-Astrobiology Institute (1998-present)
 Planetary Geology and Geophysics Program (1970-present)
 Mars Data Analysis Program (1976-1981) (1999-2005)(2009-present)
 Venus Data Analysis Program (1993-1998)
 Mars Geological Mapping Program (1972-1974; 1988-1997)
 Outer Planet Data Analysis Program (1984-1990)
 Mars: Evolution of Volcanism, Tectonism, and Volatiles Program (1986-1989)
 National Science Foundation, "Bolivian Ignimbrites" (1985-1987)
 Mars: Evolution of Climate and Atmosphere Program (1983-1986)
 Shuttle Imaging Radar data analysis (1984-1985)
 Analysis of SIR-A (Radar) data (1983-1984)
 Innovative use of the Space Station (1983)
 Jupiter Data Analysis Program (1977-1983)
 Lunar Data Analysis and Synthesis Program (1972-1975)
 Apollo Data Analysis Program (1970-1972)

Co-investigator/Team member/Flight Projects:

Mars Exploration Rovers (2002-present)
 Autonomous Sciencecraft Experiment (2000-present)
 Mars Express imaging experiment (1998-present)
 Galileo imaging team (1977-2001)
 Mars Polar Lander, MVACS Imaging Team (1996-2000)
 Mars Pathfinder imaging team (1994-1998)
 Mars 96 Imaging Experiment Team (1991-1996)
 SIR-C (Shuttle-Imaging Radar experiment) (1988-1997)
 Viking Orbiter imaging team (1976-1980)

Guest Investigator/Flight Projects:

Mars Global Surveyor (2001-2004)
 Mars 96 USSR mission (1991-1996)
 Magellan-Venus (1990-1992)

R. GREELEY: PUBLICATIONS

Books

1. 1974, *A Primer in Lunar Geology*, NASA TM X-62359, 574 p., Greeley, R. and P. Schultz, eds.
2. 1974, *Geologic Guide to the Island of Hawaii*, NASA CR 152416, 257 p., Greeley, R. ed.
3. 1977, *Geology on the Moon*, Wykeham Science Series, Taylor and Francis Ltd., London, Italian translation (1979), German translation (1979), 235 p., Guest, J.E. and R. Greeley.
4. 1980, *Volcanic Features of Hawaii - A Basis for Comparison with Mars*, NASA SP-403, 211 p., Carr, M.H. and R. Greeley.
5. 1981, *Earthlike Planets*, W.H. Freeman, San Francisco, 387 p., Murray, B.C., M.C. Malin, and R. Greeley.
6. 1982, *Activities in Planetary Geology*, NASA EP-179, 175 p., D'Alli, R. and R. Greeley.
7. 1985, *Planetary Landscapes*, Allen and Unwin, London, second printing (1987), 275 p., Greeley, R.
8. 1985, *Wind as a Geological Process: Earth, Mars, Venus, and Titan*, Cambridge University Press, Cambridge, 333 p., Greeley, R. and J.D. Iversen.
9. 1990, *Planetary Mapping*, Cambridge University Press, Cambridge, 296 p., Greeley, R. and R. Batson, eds.
10. 1994, *Planetary Landscapes* (second edition), Chapman and Hall, New York, 286 p., Greeley, R.
11. 1997, *The NASA Atlas of the Solar System*, Cambridge University Press, 369 p., Greeley, R. and R. Batson (second printing 1998).
12. 1998, *Activities in Planetary Geology for the Physical and Earth Sciences*, NASA EG-1998-03-109-HQ, 238 p. Greeley, R., K. Bender, and R. Pappalardo.
13. 1999, *The NASA Atlas of the Solar System* (Polish Edition), Cambridge University Press, 369 p., Greeley, R. and R. Batson. (German Edition, 2002; 375p.)
14. 2001, *The Compact NASA Atlas of the Solar System*, Cambridge University Press, 408 p., Greeley, R. and R. Batson.
15. 2002, *21st Century Astronomy*, Norton Press, 540 p., Hester, J., D. Burstein, G. Blumenthal, R. Greeley, B. Smith, H. Voss, and G. Wegner.
16. 2007, *21st Century Astronomy*, 2nd Edition, W. W. Norton, 726 p., Hester, J., D. Burstein, G. Blumenthal, R. Greeley, B. Smith, H. Voss, and G. Wegner.
17. 2008, Jupiter Europa Orbiter Mission Study 2008: Final Report, *The NASA Element of the Europa Jupiter System Mission (EJSM)*, Task Order #NMO710851, D-48279, 558 p., Clark, K.B., R. Pappalardo, R. Greeley, C. Jones, T. Manager, M. Blanc, J.-P. Lebreton, and J. Sommerer.

Papers

1. 1966, An Inexpensive Dredge for Use in Shallow Water, *The Compass*, 43, 179-180, Greeley, R.
2. 1966, Lectotypes of Some Lunulitiform Bryozoan Species (Canu and Bassler, 1920), *J. Paleontology*, 40, 969-970, Greeley, R.
3. 1967, Natural Orientation of Lunulitiform Bryozoans, *Geol. Soc. Amer. Bull.*, 78, 1179-1182, Greeley, R.
4. 1969, Basally "Uncalcified" Zoaria of Lunulitiform Bryozoa, *J. Paleontology*, 43, 252-256, Greeley, R.
5. 1969, On the Origin of Lunar Sinuous Rilles, *Modern Geology*, 1, 75-80, Oberbeck, V.R., W.L. Quaide, and R. Greeley.
6. 1970, Life-Orientation Relationships of Some Eocene Bryozoan-Coral Associations, *J. Paleontology*, 44, 343-345, Greeley, R.
7. 1970, Note on a Specimen Collecting Sieve, *J. Paleontology*, 44, 1132-1133, Greeley, R.
8. 1970, Terrestrial Analogs to Lunar Dimple (Drainage) Craters, *The Moon*, 1, 237-252, Greeley, R.
9. 1970, Precision Size-Frequency Distributions of Craters for 12 Selected Areas of the Lunar Surface, *The Moon*, 2, 10-77, Greeley, R. and D. Gault.
10. 1971, Geology of Selected Lava Tubes in the Bend Area, Oregon, *Oregon Department of Geology and Mineral Industries Bull.* 71, 47 p., Greeley, R.
11. 1971, Lava Tubes and Channels in the Lunar Marius Hills, *The Moon*, 3, 289-314, Greeley, R.
12. 1971, Lunar Hadley Rille: Considerations of its Origin, *Science*, 172, 722-725, Greeley, R.
13. 1971, Note on the Occurrence of Dribblet Spires in the Snake River Plain, Idaho, *Northwest Science*, 45, 145-148, Greeley, R.
14. 1971, Observations of Actively Forming Lava Tubes and Associated Structures, Hawaii, *Modern Geology*, 2, 207-223, Greeley, R.
15. 1971, Endogenetic Craters Interpreted from Crater Counts on the Inner Wall of Copernicus, *Science*, 171, 477-479, Greeley, R. and D.E. Gault.
16. 1971, Seismic-Wave Velocity Patterns in Some Pahoehoe Basalt Flows, *J. Geophys. Res.*, 76, 5765-5769, Rinehart, J. and R. Greeley.
17. 1971, Lunar Rilles - A Catalog and Method of Classification, *NASA TM X-62088*, 83 p., Oberbeck, V.R., R. Greeley, M. Lovas, and R. Morgan.
18. 1972, Additional Observations of Actively Forming Lava Tubes and Associated Structures, Hawaii, *Modern Geology*, 3, 157-160, Greeley, R.

19. 1972, Introduction to Lunar and Planetary Geology, NASA-Ames Research Center, Office of Public Affairs, 45 p., Greeley, R.
20. 1972, Mariner 9 Photographs of Small-Scale Volcanic Structures on Mars, *NASA TM X-62222*, 22 p., Greeley, R.
21. 1972, Lava Tubes of the Cave Basalt, Mount St. Helens, Washington, *Geol. Soc. Amer. Bull.* 83, 2397-2418, Greeley, R. and J.H. Hyde.
22. 1972, Planimetric Shapes of Lunar Rilles, in *NASA SP-315, Apollo 16 Prelim. Science Report*, 29-80 to 29-88, Oberbeck, V.R., M. Aoyagi, R. Greeley, and M. Lovas.
23. 1972, Comparative Geology of Crater Aratus CA (Mare Serenitatis) and Bear Crater (Idaho), *NASA SP-315*, Apollo 16 Preliminary Science Report, 30-1 to 30-6, Greeley, R.
24. 1973, Mariner 9 Photographs of Small Volcanic Structures on Mars, *Geology*, 1, 175-180, Greeley, R.
25. 1973, Crater Frequency Age Determinations for the Proposed Apollo 17 Site at Taurus-Littrow, *Earth and Planet. Sci. Lett.*, 18, 102-108, Greeley, R. and D.E. Gault.
26. 1973, Geological Field Trip Guide, Mount St. Helens Lava Tubes, Washington, *Oregon Department of Geology and Mineral Ind. Bull.* 77, 183-206, Hyde, J. and R. Greeley.
27. 1973, Simulation of Martian Eolian Phenomena in the Atmospheric Wind Tunnel, *NASA SP-336*, 191-213, Iversen, J.D., R. Greeley, J.B. Pollack, and B.R. White.
28. 1974, Aerial Reconnaissance of the Geology Over the Island of Hawaii, in *NASA TM X-62362*, 113-183, Greeley, R.
29. 1974, Approaches for Teaching Lunar Geology, in *NASA TM X-62359*, 499-567, Greeley, R.
30. 1974, Kaumana Lava Tube, in *NASA TM X-62362*, 233-238, Greeley, R.
31. 1974, Sources of Lunar Geological Data, in *NASA TM X-62359*, 1-10, Greeley, R.
32. 1974, Volcanism as a Planetary Process, in *NASA TM X-62359*, 295-322, Greeley, R.
33. 1974, Use of Visible, Near-Infrared, and Thermal Infrared Remote Sensing to Study Soil Moisture, *NASA TM X-62343*, Blanchard, M.B., R. Greeley, and R. Goettelman.
34. 1974, Use of Visible, Near-Infrared, and Thermal Infrared Remote Sensing to Study Soil Moisture, *Proc. Remote Sensing Symp.*, 9, Ann Arbor, 693-700, Blanchard, M.B., R. Greeley, and R. Goettelman.
35. 1974, Wind Tunnel Simulations of Light and Dark Streaks on Mars, *Science*, 183, 847-849, Greeley, R., J.D. Iversen, J.B. Pollack, N. Udovich, and B. White.
36. 1974, Wind Tunnel Studies of Martian Aeolian Processes, *Proc. R. Soc. Lond. A.*, 341, 331-360, Greeley, R., J.D. Iversen, J.B. Pollack, N. Udovich, and B. White.
37. 1975, Lava Tubes on Other Planets, *Atti Del Seminario Sulle Grotte Laviche*, 181-192, Greeley, R.
38. 1975, Geologic Field Guide to the Quaternary Volcanics of the South-Central Snake River Plain, Idaho, *Idaho Bur. Mines Pamph.* 160, 49 p., Greeley, R. and J.S. King.

39. 1975, Eolian Erosion of the Martian Surface, Part 1: Erosion Rate Similitude, *Icarus*, 26, 321-331, Iversen, J.D., R. Greeley, B.R. White, and J.B. Pollack.
40. 1975, Particle Motion in Atmospheric Boundary Layers of Mars and Earth, *NASA TM X-62463*, 200 p., White, B.R., J.D. Iversen, R. Greeley, and J.B. Pollack.
41. 1975, The Future Exploration of Venus, *NASA TM X-62450*, 206 p., Colin, L., L.C. Evans, R. Greeley, W.L. Quaide, R.W. Schaupp, A. Seiff, and R.E. Young.
42. 1976, Modes of Emplacement of Basalt Terrains and an Analysis of Mare Volcanism in the Orientale Basin, *Proc. Lunar Sci. Conf. 7th*, 2747-2759, Greeley, R.
43. 1976, Basalt Models for the Mars Penetrator Mission: Geology of the Amboy Lava Field, California, *NASA TM X-73125*, 53 p., Greeley, R. and T.E. Bunch.
44. 1976, A Geological Basis for the Exploration of the Planets, *NASA SP-417*, 109 p., Greeley, R. and M. Carr, eds.
45. 1976, Surficial Geology of Mars: A Study in Support of a Penetrator Mission to Mars, *NASA TM X-73184*, 54 p., Spudis, P. and R. Greeley.
46. 1976, Amboy Project: Aeolian and volcanic studies at Amboy Crater, Mojave Desert, California, 1976, *NASA Grant NGR 05-017-037*, 45 pp., Greeley, R., J.D. Iversen, J.B. Pollack.
47. 1976, Windblown Dust on Earth, Mars, and Venus, *Jour. Atmosph. Sci.*, 33, 2425-2429, Iversen, J.D., R. Greeley, and J.B. Pollack.
48. 1976, Degradation of Small Mare Surface Features, *Proc. Lunar Sci. Conf. 7th*, 985-1003, Schultz, P.H., R. Greeley, and D.E. Gault.
49. 1976, Variable Features on Mars. VI. An Unusual Crater Streak in Mesogaea, *Icarus*, 27, 241-253, Veverka, J., C. Sagan, and R. Greeley.
50. 1976, The Effect of Vertical Distortion in the Modeling of Sedimentation Phenomena: Martian Crater Wake Streaks, *J. Geophys. Res.*, 81, 4846-4856, Iversen, J.D., R. Greeley, B.R. White, and J.B. Pollack.
51. 1976, Saltation Threshold on Mars: The Effect of Interparticle Force, Surface Roughness, and Low Atmospheric Density, *Icarus*, 29, 381-393, Iversen, J.D., J.B. Pollack, R. Greeley, and B.R. White.
52. 1976, Estimates of the Wind Speeds Required for Particle Motion on Mars, *Icarus*, 29, 395-417, Pollack, J.B., R. Haberle, R. Greeley, and J. Iversen.
53. 1976, Estimated Grain Saltation in a Martian Atmosphere, *J. Geophys. Res.*, 81, 5643-5650, White, B.R., R. Greeley, J.D. Iversen, and J.B. Pollack.
54. 1976, Mars: Wind Friction Speeds for Particle Movement, *Geophys. Res. Lett.*, 3, 417-420, Greeley, R., B. White, R. Leach, J. Iversen, and J. Pollack.
55. 1976, The North Polar Region of Mars: Imaging Results from Viking II, *Science*, 194, 1329-1337, Cutts, J.A., K.R. Blasius, G.A. Briggs, M.H. Carr, H. Masursky, and R. Greeley.

56. 1976, Preliminary Results from the Viking Orbiter Imaging Experiment, *Science*, 193, 766-776, Carr, M.H., H. Masursky, W.A. Baum, K.R. Blasius, G.A. Briggs, J.A. Cutts, T. Duxbury, R. Greeley, J.E. Guest, B.A. Smith, L.A. Soderblom, J. Veverka, and J.B. Wellman.
57. 1977, Aerial Guide to the Geology of the Central and Eastern Snake River Plain, in *Volcanism of the Eastern Snake River Plain, Idaho: A Comparative Planetary Geology Guidebook*, NASA CR 154621, 59-112, Greeley, R.
58. 1977, Basaltic "Plains" Volcanism, in *Volcanism of the Eastern Snake River Plain, Idaho: A Comparative Planetary Geology Guidebook*, NASA CR 154621, 23-44, Greeley, R.
59. 1977, Lava Tubes on Other Planets, *Atti del Seminario sulle Grotte Laviche Catania*, August 1975, 181-192, Greeley, R.
60. 1977, Volcanic Morphology, in *Volcanism of the Eastern Snake River Plain, Idaho: A Comparative Planetary Geology Guidebook*, NASA CR 154621, 5-22, Greeley, R.
61. 1977, Geology of the Wapi Lava Field, Snake River Plain, Idaho, in *Volcanism of the Eastern Snake River Plain, Idaho: A Comparative Planetary Geology Guidebook*, NASA CR 154621, 133-151, Champion, D.E. and R. Greeley.
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