

CURRICULUM VITAE

Paul D. Spudis
Senior Staff Scientist
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SUMMARY

Research on planetary geological processes. Served on numerous NASA committees, including the Lunar and Planetary Sample Team (LAPST), Lunar Exploration Science Working Group (LEXSWG) and Planetary Geology Working Group. Served on the NRC Committee for Planetary and Lunar Exploration (COMPLEX) and the Synthesis Group, a White House panel in 1990. Member, Presidential Commission on the Implementation of U.S. Space Exploration Policy, 2004. Deputy Leader of the Science Team for the Department of Defense Clementine mission to the Moon in 1994. Principal Investigator, Mini-SAR experiment on Indian Chandrayaan-1 mission to the Moon, 2008-2009. Science Team member, Mini-RF experiment, Lunar Reconnaissance Orbiter mission, 2008-present. Chief Scientist, Moon Express Inc., 2013-present.

EDUCATION

Ph.D. Geology Arizona State University (1982)
Sc.M. Geology Brown University (1977)
B.S. Geology Arizona State University (1976)

WORK EXPERIENCE

2013 – present, Chief Scientist, Moon Express Inc. Advise on scientific objectives, payloads and instruments. Design mission architectures to serve scientific and resource utilization objectives.

2008 – present, Senior Staff Scientist, Lunar and Planetary Institute, Houston TX. Principal Investigator, Mini-SAR experiment on Indian Chandrayaan mission to the Moon, 2008-2009. Team member, Mini-RF technology demonstration experiment, Lunar Reconnaissance Orbiter mission to the Moon, 2008-present.

2002 – 2008, Senior Professional Staff, JHU/APL. Section Supervisor, Planetary Dynamics Section, Planetary Exploration Group. Principal Investigator, NASA Planetary Geology and Geophysics Program. Principal Investigator, Mini-SAR experiment on Indian Chandrayaan mission to the Moon, 2007. Principal Professional Staff, 2005.

1999 – 2002, Deputy Director, Lunar and Planetary Institute, Houston, Texas. Administrative duties include development of scientific performance standards, recruitment of new scientific staff, Acting Director during Director's absence. Director, Regional Planetary Image Facility, Center for Information and Research Services, Lunar and Planetary Institute. Duties include oversight of Data Facility, Coordination with other NASA Data Centers, future planning for processing, archiving, and making new planetary mission data accessible.

1990 – 2002, Staff Scientist, Lunar and Planetary Institute, Houston, Texas. Principal Investigator, NASA Planetary Geology and Geophysics Program. Research includes collation and interpretation of remote sensing data for the Moon at a variety of wavelengths, study of the genesis of lunar polymict highland breccias, origin and evolution of the lunar crust, volcanic processes on the Earth and planets, and the geology and impact mechanics of large craters and basins on the terrestrial planets. Additional research involves strategic and tactical science planning for human and robotic missions to the Moon and Mars. Deputy Leader, Science Team, BMDO-NASA Clementine mission to the Moon (1994). Scientific co-advisor for LPI-JSC Summer Intern Program.

1982 – 1990, Geologist, U.S. Geological Survey, Branch of Astrogeology, Flagstaff, Arizona. Principal Investigator, NASA Planetary Geology Program. Research included recognition and mapping of degraded impact features on all the terrestrial planets, theoretical modeling of large impacts into planetary crusts, geology and

petrology of Apollo and Luna landing sites, and global geochemistry and petrology of the lunar crust and implications for crustal origin.

1982 – 1985, Faculty Research Associate, Arizona State University (part-time). NASA Planetary Geology Program Principal Investigator.

1980 – 1982, Geologist, U.S. Geological Survey, Branch of Astrogeology, Flagstaff, AZ. Principal Investigator on NASA Grant "The Geology of Lunar Multi-ring Basins". Work done in support of dissertation efforts.

PUBLICATIONS (as of March 1, 2017)

(Full bibliography at: <http://www.spudislunarresources.com/Bibliography/Biblio.htm>)

123 papers in refereed journals or books

4 single-author books

3 co-authored books

319 abstracts

2 geological maps (Mercury and Io)

12 edited books and reports

49 articles for the popular press

HONORS

[Columbia Medal](#), Aerospace Division of the American Society of Civil Engineers (2016)

[Eugene Shoemaker Distinguished Lunar Scientist Award](#), NASA Space Science and Exploration Research Virtual Institute (2014)

[Space Pioneer Award](#), National Space Society (2011)

[Frank Howard Distinguished Lecture](#), Dept. of Engineering, George Washington University (2006)

[Theodore von Karman Medal and Lectureship](#), American Institute of Aeronautics and Astronautics (2006)

Principal Professional Staff, Applied Physics Laboratory (2005)

[Distinguished Public Service Medal](#), NASA (2004)

[Asteroid 7560 Spudis](#) named in my honor (1999)

Aviation Week and Space Technology Laurels Award (1994)

J. Robert Oppenheimer Director's Colloquium, Los Alamos National Laboratory (1992)

University Fellowship, Brown University (1976-1977)

Viking Intern, NASA Jet Propulsion Laboratory (1976)

Phi Kappa Phi (National Scholastic Honor Society) (1975 and 1976)

Exploration Scholarship, Union Oil of California Inc. (1975-1976)

PROFESSIONAL SOCIETY MEMBERSHIP

American Geophysical Union (since 1976)

American Institute of Aeronautics and Astronautics (since 1990)

Geological Society of America (since 1978)

Sigma Xi (since 1982)

American Society of Civil Engineers (since 2016)

SECURITY

Applied Physics Laboratory, Top Secret – 2004 - 2009

U. S. Dept. Energy "Q" clearance – 1992-1994