

Daniel T. Britt

Asteroid 4395 Danbritt

Address:

Department of Physics
University of Central Florida
P.O.Box 162385
Orlando, FL 32816-2385

britt@physics.ucf.edu

Telephone:

Office: 407-823-2600
Fax: 407-823-5112

Personal Data

Married: July 20, 1988 to Judith Stacy Cohn
Son Christopher Benjamin, born October 20, 1990
Son Devon Issac, born April 19, 1995

Education

Brown University	Ph.D. 1991; Geological Sciences
Brown University	M.S. 1987; Geological Sciences
University of Washington	B.S. 1985; Geological Sciences
University of Washington	M.A. 1976; Economics
University of Washington	B.A. 1972; Economics

Work Experience

Professor: University of Central Florida: 2003-Present. Professor of Astronomy in the Department of Physics

Co-Investigator: NASA Lucy Mission: 2017-Present. Lucy Mission Science Team and Leader of the Interior & Bulk Properties Working Group. Responsible to analysis of Trojan asteroid geology and interior structure.

Co-Investigator: NASA New Horizons Kuiper Belt Extend Mission: 2016-Present. New Horizons Mission Science Team and a member of the Geology and Geophysics Investigation responsible for comet geology.

Research Associate Professor: The University of Tennessee: 1999-2003. Faculty member of the Department of Geological Sciences.

Co-Investigator: NASA Deep Space One Mission: 1997-2005. Deep Space One (DS1) Mission Science Team. Responsible for planning and organization of the surface reflectance spectroscopy studies of the DS1 fly by targets, asteroid 1992 KD and comet 19P/Borrelly.

Co-Investigator: NASA Imager for Mars Pathfinder: 1993-1998. Deputy Imaging Science Team Leader for the Mars Pathfinder lander. Chairman of the Mineralogy and Petrology Science Operations Group. Responsible for planning and organization of spectral studies of the landing site, spectral observations of the Martian moons Phobos and Deimos, and the coordination of imaging science input to mission operations.

Project Manager: Imager for Mars Pathfinder (IMP) Instrument: 1993-1998. Responsible for supervision of engineering design, fabrication, contract compliance, and mission operations planning for the primary imaging instrument on the Mars Pathfinder lander.

NASA Planetary Astronomy Program Principal Investigator: 1993-present. Research activities include an observations of anhydrous C-class asteroids, observations of S-class asteroids and petrologic studies of meteorites.

NASA Planetary Astronomy Postdoctoral Fellow: 1991-1993. Projects include telescopic spectral search of the 1:3 Kirkwood gap for ordinary chondrite parent bodies with optically darkened regoliths, analysis of meteorite thin sections and spectra for clues to asteroidal regolith processes, and analysis of relationships between asteroid and meteorite spectra.

NASA Graduate Research Fellow: 1989-1991. Advisor Dr. C.M. Pieters.

Smithsonian Institution Graduate Fellow: Washington D.C., Summer 1986. Advisor Dr. G.J. MacPherson.

Other Work Experience:

The Boeing Company: Economist and Software Manager

University of Washington: Research Associate in Economics

United States Air Force: Minuteman ICBM Missile Launch Officer

Professional Activities

Professional Societies:

American Astronomical Society (Division for Planetary Sciences)

American Geophysical Union

International Astronomical Union

Meteoritical Society

Sigma Xi

Geological Society of America

Awards and Fellowships:

Asteroid 4395 Danbritt

Fellow, Meteoritical Society

American Institute of Aeronautics and Astronautics 2002 Space Systems Award: Deep Space 1 Mission.

NASA Group Achievement Award: Deep Space 1 Comet Borrelly Encounter 2002

NASA Group Achievement Award: Deep Space 1 Project Science Team 1999

NASA Group Achievement Award: Imager for Mars Pathfinder Scientific Operations (Dr. Britt accepted the award on behalf of the IMP team) 1998.

NASA Group Achievement Award: Mars Pathfinder Mission Operations 1998.

NASA Group Achievement Award: Mars Pathfinder Development 1997.

NASA Planetary Astronomy Postdoctoral Fellow, 1991-1993.

NASA Headquarters Graduate Student Fellow, 1989-1991.

Smithsonian Institution Graduate Student Fellow, 1986.

Graduate Committees:

Robert Macke	Committee Chair	Ph.D. 2010
Nathan Lust	Committee Chair	Ph.D. 2015
Leos Pohl	Committee Chair	Ph.D. in progress
Wesley Chambers	Committee Chair	Ph.D. in progress
Bonnie Berry	Committee Member	MS 2008
Abrar Quadery	Committee Member	Ph.D. 2017
Charles Schambeau	Committee Member	Ph.D. in progress
Jenna Jones	Committee Member	Ph.D. 2017

Richard Jerousek	Committee Member	Ph.D. in progress
Zoe Landsmann	Committee Member	Ph.D. 2016
Jasmina Blecic	Committee Member	Ph.D. 2015
Kelsey Hargrove	Committee Member	Ph.D. 2015
Mehmet Yasiltas	Committee Member	Ph.D. 2014
Julie Ziffer	Committee Member	Ph.D. 2007

Service:

Chair, Division for Planetary Sciences, American Astronomical Society 2011-12
 Subpanel Chair, Mars 2020 TMC review 2014
 Chief Reviewer, Discovery Step II review panel 2012.
 Elected Vice-Chair, Division for Planetary Sciences, American Astronomical Society 2010
 Member NASA Planetary System Science Management Operations Working Group 2010-Present
 Panel Chair, NASA Planetary Instrument Development Program Review Panel, 2011
 Member, NASA Small Bodies Node Data Review Panel, 2010
 NASA Planetary Data System Small Bodies Node Advisory Committee
 Member International Astronomical Union Task Group for Physical Properties of Near-Earth Objects.
 Panel Chair, NASA Stand-Alone Mission of Opportunity Review Panel, 2009
 Panel Chair, NASA Planetary Mission Data Analysis Program, 2009.
 Panel Member NSF Small Bodies and the Solar System Panel, 2009.
 Member NASA LASER Program Review Panel, 2008
 Member NASA Astrobiology Institute Review Panel, 2008
 Team Member, JPL Comet Nucleus Sample Return Science Definition Team, 2008
 Member, NASA Small Bodies Node Data Review Panel, 2007
 Member NASA Discovery Mission Selection Panel, 2007
 Member NASA Discovery Mission Selection Panel, Second Round, 2007
 Member, NASA Small Bodies Node Data Review Panel, 2006
 Member NASA Discovery Data Analysis Review Panel, 2006
 Member, NASA Outer Planets Research Program Review Panel, 2006
 Member NSF Astronomy Program Review Panel, 2006
 Member NSF Small Bodies Review Panel 2005
 Member NASA Planetary Geology and Geophysics Management Working Group 2004-2005
 Panel Chief for NASA Planetary Geology and Geophysics Program Review 2004
 Member NASA Mars Science Laboratory Instrument Selection Panel 2004
 Orlando Science Center President's Science Advisory Council 2004-present
 Member Arecibo National Radio Observatory Allocation Committee 2003-present
 Member NASA Infrared Telescope Facility Telescope Allocation Committee 2003-present
 Member NASA Vision Missions Review Panel 2003
 Member Mars Scout Review Panel 2002
 Member Mars Surface Sample Return Science Steering Group, 2002
 Member Mars 2003 Science Instrument Definition Team, 2000
 Member NEAR Data Analysis Panel 2002
 Division for Planetary Sciences Committee 2000-2003
 Member NASA Discovery Review Panel 2000
 Chair: Mars Polar Lander Participating Scientist Program Selection Panel, 1999
 Member NASA Planetary Astronomy Program Review Panel 2003, 2000, 1998, 1997

Member NASA Planetary Geology Program Review Panel 2000, 2003
Member NASA PDS Small Bodies Node Review Panel 1998-2001
Invited Colloquium Talks: University of Florida (2), University of Tennessee (2), Brown University, Southwest Research Institute (2), Johns Hopkins University, Bloomfield College, Williams College, University of Washington, Western Washington State University, University of North Carolina, North Carolina State University, University of Virginia, Central Washington State University.
President of Planetary Division of the Geological Society of America, 1998-1999
Chair: Mineralogy and Geochemistry Science Operations Group for Mars Pathfinder Mission
Visiting Scientist at the Vatican Observatory Castel Gandolfo, 1996, 2001
Referee for Meteoritics, Icarus, Science, Nature, Journal of Geophysical Research (Solid Earth, Planets).
Reviewer for NASA Planetary Astronomy Program, Cosmochemistry Program, Origins Program, and Planetary Geology and Geophysics Program.
Visiting Astronomer, NASA Infrared Telescope Facility, Smithsonian Multiple Mirror Telescope

Professional Meetings:

Chair, Program Committee, Division for Planetary Sciences Meeting, 2007
Organizing Committee, Division for Planetary Sciences Meeting, 2007
Chair, Program Committee, Division for Planetary Sciences Meeting, 2004
Program Committee, Division for Planetary Sciences Meeting, 2003
Chair, Program Committee, 64th Meteoritical Society Meeting, 2001
Organizing Committee, 64th Meteoritical Society Meeting, 2001
Organizing Committee, DPS 2001 Meeting
Program Committee, 63rd Meteoritical Society Meeting, 2000
Chair, NEAR at Eros Session, 63rd Meteoritical Society Meeting, 2000
Chair, Planetary Geology Session, Geological Society of America Meeting, 1999.
Invited Speaker, 1999 AAAS Annual Meeting, Anaheim, CA
Conveyer, Geological Society of America Keynote Symposium: "Pathfinder and Global Surveyor: New Views of Mars. GSA 1998 Annual Meeting, Toronto.
Invited Speaker, 29th Lunar and Planetary Science Conference, 1998.
Chair of Mars Pathfinder Session, 29th Lunar and Planetary Science Conference, 1998.
Invited Speaker, American Geophysical Union Fall Meeting, 1997.
Program Committee, 28th Lunar and Planetary Science Conference, 1997.
Chair of Small Bodies Session, 28th Lunar and Planetary Science Conference, 1997.
Chair of Asteroids Session; 27th Division for Planetary Science, AAS, 1995.
Chair of Comets and Asteroids session, 24th Lunar and Planetary Science Conference, 1993.
Invited Speaker, Meteoritical Society Meeting, 1991.
Chair and organizer of special session on S-type asteroids, Meteoritical Society Meeting, 1991.
Program Committee, Meteoritical Society Meeting, 1991.

Publications

Peer-reviewed Papers

- P1. Britt D.T. and Pieters C.M. (1988) Bidirectional reflectance properties of iron-nickel meteorites. In: *Proc. Lunar Planet. Sci. Conf. 18th* (G. Ryder ed.), pp. 503-512, Cambridge Univ. Press, New York.
- P2. Britt D.T. and Pieters C.M. (1988) The origin of Phobos: Implications of compositional properties. *Astron. Vestnik.*, 22, 229-240.

- P3. Britt D.T., Pieters C.M., Petaev M.I., and Zaslavskaya N.I. (1989) The Tsarev meteorite: Petrology and bidirectional reflectance spectra of a shock blackened L chondrite. *Proc. Lunar Planet. Sci. Conf. 19th*, 537-545.
- P4. Ksanfomality L., Murchie S., Britt D., Duxbury T., Fisher P., Goroshkova N., Head J., Kuhr E., Moroz V., Murray B., Nikitin G., Petrova E., Pieters C., Soufflot A., and Zhukov B. (1991) Phobos: Spectrophotometry between 0.3 and 0.6 μm and IR-radiometry. *Planetary and Space Science*, 39, 326-331.
- P5. Murchie S.L., Britt D.T., Fisher P.C., Head J.W., Pratt S.F., Zhukov B.S., Nikitin G.E., Kuzmin A.A., Ksanfomality L.V., Zharkov A.V., Fanale F.P., Blaney D.L., Bell J.F., and Robinson M.S. (1991) Color heterogeneity of the surface of Phobos: Relationships to geologic features and comparison to meteorite analogs. *J. Geophys. Res* 96, no. B4, 5925-5945.
- P6. Britt D.T. and Pieters C.M. (1991) Black ordinary chondrites: An analysis of abundance and fall frequency. *Meteoritics* 26, 279-286.
- P7. Keil K., Bell J.F., and Britt D.T. (1992) Reflection spectra of shocked ordinary chondrites and relations to C-type and K-type asteroids. *Icarus* 98, 43-53.
- P8. Britt D.T., Tholen D.J., Bell J.F., and Pieters C.M. (1992) Comparison of asteroid and meteorite spectra: Classification by principal components analysis. *Icarus* 99, 153-166.
- P9. Nelson M.L., Britt D.T. and Lebofsky L.A. (1993) Overview of Asteroids. In: *Resources in Near-Earth Space* (J. Lewis and M.S. Matthews, eds), University of Arizona press, 493-522.
- P10. Howell E.S., Britt D.T., Bell J.F., Binzel R.P., and Lebofsky L.A. (1994) Visible and Near-Infrared Spectral Observations of 4179 Toutatis. *Icarus* 111, 468-474.
- P11. Britt D.T. and Pieters C.M. (1994) Darkening in black and gas-rich ordinary chondrite meteorites The spectral effects of opaque morphology and distribution. *Geochemica et Cosmochimica Acta* 58, 3905-3919.
- P12. Rivkin A.S., Howell E.S., Britt D.T., Lebofsky L.A. Nolan M.C., and Branston D.D. (1995) Three micron spectrophotometric survey of M-class and E-class asteroids. *Icarus* 117, 90-100.
- P13. Kring D.A., Swindle T., Britt D.T., and Grier J.A.. (1996) The Cat Mountain Chondrite: A meteoritic sample of an impact-melted asteroid regolith. *JGR* 101, 29353-29371.
- P14. Britt D.T. and Lebofsky L.A. (1997) The asteroid belt: Compositional structure and taxonomy. In: *The Van Nostrand Reinhold Encyclopedia of Planetary Sciences*.
- P15. Britt D.T. and Lebofsky L.A. (1997) The asteroid belt: Meteorite parent bodies. In: *The Van Nostrand Reinhold Encyclopedia of Planetary Sciences*.
- P16. Smith P.H., Tomasko M.G., Britt D. and 16 others (1997) The Imager for Mars Pathfinder experiment. *JGR* 102, 4003-4025.
- P17. Smith P.H., Britt D.T. and 24 others (1997) Results for the Mars Pathfinder Camera. *Science*, Vol. 278, 1758-1765.
- P18. Hviid, S.F., and 12 others (1997) Magnetic properties experiments on the Mars Pathfinder Lander: Preliminary results. . *Science*, Vol. 278, 1768-1770.
- P19. Rivkin, A. S., B. E. Clark, D. T. Britt and-L. A. Lebofsky (1997) Infrared Spectrophotometry of the NEAR Flyby Target 253 Mathilde. *Icarus*, 127, pp 255-257.
- P20. Consolmagno G.J. and Britt D.T. (1998) The density and porosity of meteorites from the Vatican collection. *Meteoritics and Planetary Science* 33, 1231-1240.
- P21. Consolmagno G.J., Britt D.T., and Stoll C.P. (1998) The porosities of ordinary chondrites: Models and interpretation. *Meteoritics and Planetary Science* 33, 1221-1230.
- P22. Bland P.A., Sexton A.S., Jull A.J.T., Bevan A.W.R., Berry F.J., Thornley D.M., Astin T.R., Britt D.T., and Pillinger C.T. (1998) Climate and rock weathering: A study of terrestrial age dated ordinary chondritic meteorites from hot desert regions. *Geochimica et Cosmochimica Acta* 62, 3169-3184.

- P23. Murchie S.L., Thomas N., Britt D.T., Herkenhoff K.E., and Bell J.F. (1998) Mars Pathfinder Spectral Measurements of Phobos and Deimos: Comparison with Preexisting Data. *Journal of Geophysical Research*. Vol 104, No E4, 9069-9080.
- P24. Britt D.T. and Lebofsky L.A. (1998) Asteroids. In: *The Encyclopedia of the Solar System*. T.V. Johnson and P. Weissman Eds. Academic Press, 585-605.
- P25. Gaddis L.R. Britt D.T. and 18 others (1998) Digital mapping of the Mars Pathfinder landing site: Design, acquisition, and derivation of cartographic products for science applications. *Journal of Geophysical Research*. Vol 104, No E4, 8853-8868.
- P26. Kirk R.L., Britt D.T. and 11 others (1998) Digital photogrammetric analysis of the IMP camera images: Mapping the Mars Pathfinder landing site in three dimensions. *Journal of Geophysical Research*. Vol 104, No E4, 8869-8888.
- P27. Johnson J.R., Britt D.T. and 16 others (1998) Preliminary results on photometric properties of materials at the Sagan Memorial Station. *Journal of Geophysical Research*. Vol 104, No E4, 8809-8830.
- P28. Golombek M.P. and the Pathfinder Team (1999) Overview of the Mars Pathfinder mission: Launch through landing, surface operations, data sets, and science results. *Journal of Geophysical Research*. Vol 104, No E4, 8523-8554.
- P29. Kring D.A., Hill D.H., Gleason J.D., Britt D.T., Consolmagno G.J., Farmer M., Wilson S., and Hagg R. (1999) The Portales Valley: A meteoritic sample of the brecciated and metal-veined floor of an impact crater on an H-chondrite asteroid. *Meteoritics and Planetary Science* 34, 663-669.
- P30. McSween H.Y., Britt D.T. and 19 others (1999) Chemical, multispectral and textural constraints on the composition and origin of rocks at the Mars Pathfinder landing site. *Journal of Geophysical Research*. Vol 104, No E4, 8679-8716.
- P31. Thomas N., Britt D.T. Herkenhoff K.E., Murchie S.L., Semenov B., Keller H.U., and Smith P.H. (1999) Observations of Phobos, Deimos, and bright stars with the Imager for Mars Pathfinder. *Journal of Geophysical Research*. Vol 104, No E4, 9055-9068.
- P32. Reid R.J., Smith, P. H., Lemmon, M., Tanner, R., Burkland, M., Wegryn, E., Weinberg, J., Marcialis, R., Britt, D. T., Thomas, N., Kramm, R., Dummel, A., Crowe, D., Bos B. J., Bell III, J. F., Rueffer, P., Gliem, F., Johnson, J. R., Maki, J. N., Herkenhoff, K. E., and Singer R. B. (1999) Imager for Mars Pathfinder (IMP) image calibration. *Journal of Geophysical Research*. Vol 104, No E4, 8907-8925.
- P33. Rivkin, A. S., L. A. Lebofsky, B. E. Clark, D. T. Britt and E.S. Howell (2000) The nature of M-class asteroids from 3- μ m observations. *Icarus* 145, 351-368.
- P34. Britt D.T. and Consolmagno G.J. (2000) The Porosity of Dark Meteorites and Structure of Low-Albedo Asteroids. *Icarus* 146, 213-219.
- P35. Bell J. F., Britt D. T. and 22 others (2000) Mineralogic and compositional properties of Martian soil and dust: Results from Mars Pathfinder. *Journal of Geophysical Research* 105, E1, 1721-1755.
- P36. Morris R. V., Britt D. T. and 10 others (2000) Mineralogy, composition, and alteration of Mars Pathfinder rocks and soils: Evidence from multispectral, elemental, and magnetic data on terrestrial analogue, SNC meteorite, and Pathfinder samples. *Journal of Geophysical Research* 105, E1, 1757-1817.
- P37. Britt D.T. and Consolmagno G.J. (2001) Modeling the structure of high-porosity asteroids. *Icarus*, 152, 134-139.
- P38. Britt D.T. and McFadden L.A. (2002) Primitive solar system objects: Asteroids and comets. In *Encyclopedia of Physical Science and Technology*, 3rd Ed. 73-85
- P39. Britt D.T., Yoemans D., Housen K., and Consolmagno G.J. (2002) Asteroid Density, Porosity, and Structure. In *Asteroids III* (W. Bottke, A. Cellino, P. Paolicchi, and R. P. Binzel eds.), University of Arizona Press, pp. 485-500.
- P40. Clark B.E., Pieters C.M., Hapke B., and Britt D.T. (2002) Asteroid Space Weathering and Regolith Evolution. In *Asteroids III* (W. Bottke, A. Cellino, P. Paolicchi, and R. P. Binzel eds.), University of Arizona Press, pp. 585-599.

- P41 Soderblom L. A., Becker T. L, Bennett G., Boice D. C., Britt D. T, Brown R. H., Buratti B. J., Isbell C., Giese B., Hare T., Hicks M. D., Howington-Kraus E., Kirk R. L., Lee M., Nelson R. M., Oberst J., Owen T. C., Sandel B. R., Stern S. A., Thomas N., and Yelle R. V. (2002). Observations of Comet 19P/Borrelly by the Miniature Integrated Camera and Spectrometer aboard Deep Space 1. *Science* 296, 1087-1091
- P42 Boice D. C., Soderblom L. A., Britt D. T, Brown R. H., Sandel B. R., Yelle R. V. Buratti B. J., Hicks M. D., Nelson R. M., Rayman M. D., Oberst J., and Thomas N.(2002) The Deep Space 1 encounter with comet 19P/Borrelly. *Earth, Moon, and Planets* 89, 301-324.
- P43 Wilkison S. L., McCoy T. J., McCamant J. E., Robinson M. S., and Britt D. T. (2003) Porosity and Density of Ordinary Chondrites; Implications for Asteroid Density. *MAPS* 38, 1533-1546.
- P44. Britt D.T. and Consolmagno G.J. (2003) The Density and Porosity of Meteorites: A review of the data through 2001. *MAPS* 38, 1161-1180.
- P45. Britt D. T, Boice D. C., Buratti B. J., Campins, H., Nelson R. M., Oberst J., Sandel B. R., Soderblom L. A. , Stern S. A., and Thomas N. (2004) The Morphology and Surface Processes of Comet 19P/Borrelly. *Icaurs* 167, 45-53.
- P46 Buratti B. J., Hicks M. D., Soderblom L. A. , Oberst J., Britt D., and Hiller (2004). Deep Space 1 Photometry of the Nucleus of Comet 19/P Borrelly. *Icarus* 167, 16-29.
- P47. Oberst J, Britt D., Buratti B. J., Hicks M. D., Soderblom L. A. , Howington-Kraus E., and Kirk R. (2004). The nucleus of comet Borrelly: A study of morphology and surface brightness. *Icarus* 167, 70-79.
- P48 Soderblom, Britt D. T, Brown R. H., Buratti B. J., Kirk R. L., Owen T. C., and Yelle R. V. (2004). Short-wavelength infrared (1.3-2.6mm) observations of the nucleus of Comet 19P/Borrelly. *Icarus* 167, 100-112.
- P49. Soderblom L. A., Boice D. C., Britt D. T, Brown R. H., Buratti B. J., Kirk R. L., Lee M., Nelson R. M., Oberst J., Sandel B. R., Stern S. A., Thomas N., and Yelle R. V. (2004). Imaging Borrelly. *Icarus* 167, 4-15.
- P50 Consolmagno G.J. and Britt D.T. (2004) Meteoritical Evidence and Constraints on Asteroid Impacts and Disruption. *Planetary and Space Sciences*, 52, 1119-1128.
- P51 Buratti B. J., Britt D., Hicks M. D., Soderblom L. A. , Oberst J., and Hiller (2004). 9969 Braille: Ground-based and Deep Space 1 IR observations and classification. *Icarus* 167, 129-135.
- P52 Grier J.A., Kring D.A., Swindle T.D., Rivkin A.S., Cohen B.A., and Britt D.T. (2004) Analyses of the chondrite meteorite Orvinio (H6): Insight in to the origins and evolution of shocked H-chondrite material. *Meteoritics and Planetary Science* 39, 1475-1493.
- P53 Sears D.W.G., Allen C.C., Bell M.S., Bogard D., Britt D., Brownlee D.E., Chapman C., Clark B.C., Dissley R., Franzen M.A., Goldstein J., Nishiizumi K., Nyquist L., Pieters C.M., Scheeres D., Scott E.R.D., Treiman A. (2004) The Hera near-Earth asteroid sample return mission: science requirements of the sample collector. *Advances in Space Research* 34, 2276-2280.
- P54 Sears D, Allen C, Britt D, Brownlee D, Franzen M, Gefert L, Gorovan S, Pieters C, Preble J, Scheeres D, Scott E (2004) The Hera mission: multiple near-earth asteroid sample return. *Advances in Space Research* 34, 2270-2275.
- P55 Keller H. U., Britt D. T, Buratti B. J., and Thomas N. (2005) In Situ Observations of Cometary Nuclei. *Comets II* (M. Festou, H. U. Keller, H. Weaver Eds) University of Arizona Press, pp. 211–222.
- P56 Consolmagno G.J., Macke R.J, Rochette P., Britt D. T, and Gattacceca J. (2006) Density, Magnetic Susceptibility, and the Characterization of Ordinary Chondrite Falls and Showers. *Meteoritics and Planetary Science* 41, 331-342.
- P57 Britt D.T., Consolmagno G.J., and Lebofsky L.A. (2007) Asteroids. In: *The Encyclopedia of the Solar System*. T.V. Johnson, L.M. McFadden, and P. Weissman Eds. Academic Press.

- P58 Sabri F, Werhner T., Hoskins J., Schuerger A.C, Hobbs A.M., Barreto J.A., Britt D., and Duran R.A. (2008) Thin film surface treatments for lowering dust adhesion on Mars Rover calibration targets *Advances in Space Research* 41, 118–128.
- P59 Friedrich J. M., Macke M.J., Wignarajah D.P., Rivers M.L., Britt D.T., Ebel D.S. (2008) Pore size distribution in an uncompacted equilibrated ordinary chondrite. *Planetary and Space Science* 56, 895-900.
- P60 Consolmagno G.J., Britt D.T., and Macke R.J. (2008) The Significance of Meteorite Density and Porosity. *Chemie der Erde-Geochemistry* 68, 1-29 (Invited Review).
- P61 Leer K., Bertelsen P., Binou C. S., Olsen L. D., Drube L., Falkenberg T.V., Haspang M.P, Madsen M.B. , Olsen M., Sykulska H., Vijendran S., Pike W.T., Staufer U., Parrat D., Lemmon M., Hecht M.H., Mogensen C.T., Gross M.A., Goetz W., Marshall J., Britt D., Smith P., Shinohara C., Woida P., Woida R., Tanner R., Reynolds R., Shaw A. (2008) Magnetic properties experiments and the Surface Stereo Imager calibration target onboard the Mars Phoenix 2007 Lander: Design, calibration, and science goals *JGR-Planets* 113 E00A16.
- P62 Sasso M.R., Macke R.J., Boesenberg J.S., Britt D.T., Rivers M.L., Ebel D.S., and Friedrich J.M., (2009). Incompletely compacted equilibrated ordinary chondrites. *Meteoritics & Planetary Science* 44, 1743-1754.
- P63 Macke R.J., Britt D.T., and Consolmagno G.J (2010) Analysis of Systematic Error in “Bead Method” Measurements of Meteorite Bulk Volume and Density. *Planetary and Space Science* 58, 421-426.
- P64 Opeil C.P., Consolmagno G.J., and Britt D.T. (2010) The Thermal Conductivity of Meteorites. New Measurements and Analysis. *Icarus* 208,449-454.
- P65 Macke R.J., Consolmagno G.J., Britt D.T. and Hutson M.L. (2010) Enstatite chondrite density, porosity and magnetic susceptibility *Meteoritics & Planetary Science* 45, 1513-1526.
- P66 Wittmann A., Kring D.A., Friedrich J.M., Troiano J., Macke R.J., Britt D.T., Swindle T.D., Weirich, J.R., and Rumble D. (2011) LAP 031047 – Petrology of a recently degassed, highly porous and compositionally intermediate ordinary chondrite. *Geochimica et Cosmochimica Acta*, 75, 6140-6159.
- P67 Macke R.J., Britt D.T. and Consolmagno G.J. (2011) Density, porosity and magnetic susceptibility of achondritic meteorites. *Meteoritics & Planetary Science* 46, 311-326.
- P68 Sabri F, Leventis N., Hoskins J., Schuerger A.C, Sinden-Redding M., Britt D., and Duran R.A. (2011) Spectroscopic evaluation of polyurea crosslinked aerogels, as a substitute for RTV-based chromatic calibration targets for spacecraft. *Advances in Space Research* 47, 419-427.
- P69 Kohout T., Kiuru R., Montonen M., Scheirich P., Britt D. T., Macke R., and Consolmagno G. (2011) 2008 TC3 asteroid internal structure and physical properties inferred from study of the Almahata Sitta meteorites. *Icarus* 212, 697-700.
- P70 Schuerger A.C., Clausen C., and Britt D.T. (2011) Methane Evolution from UV-Irradiated Spacecraft Materials Under Simulated Martian Conditions: Implications of the MSL Mission. *Icarus* 213, 393-403.
- P71 Macke R. J., Consolmagno G. J. and Britt D. T. (2011) Density, porosity and magnetic susceptibility of carbonaceous chondrites. *Meteoritics & Planetary Science* 46, 1842-1862.
- P72 Opeil C.P., Consolmagno G.J., Safarik D.J., and Britt D.T. (2012) Stony meteorite thermal properties and their relationship to meteorite chemical and physical states. *Meteoritics & Planetary Science*, 47, 319-329.
- P73 Schuerger A.C., Moores J.E., Clausen C., Barlow N.G, and Britt D.T. (2012) Methane from UV-Irradiated Carbonaceous Chondrites Under Simulated Martian Conditions: *JGR Planets*, 117, E08007, doi:10.1029/2011JE004023.
- P74 Kiefer W. S., R. J. Macke, D. T. Britt, A.J. Irving, and G. J. Consolmagno (2012) Density and Porosity of Lunar Rocks, *Geophysical Research Letters*, Vol 39, L07201, doi:10.1029/2012GL051319.
- P75 Consolmagno G. J., Schaefer M. W., Schaefer B. E., Britt D. T., Macke R. J., Nolan M. C., Howell E. S. (2013) The Measurement of Meteorite Heat Capacity at Low Temperatures Using Liquid Nitrogen Vaporization. *Planetary and Space Sciences* 87, 146-156.

- P76 Murchie S., Britt D., and Pieters C. (2014) The Vaule of Phobos Sample Return. In Phobos J. Oberst Ed., Planetary and Space Science 102, 176-182.
- P77 Britt D.T., Consolmagno G.J., and Lebofsky L.A. (2014) Asteroids. In: *The Encyclopedia of the Solar System*. T. Spohn Ed., Academic Press
- P78 Kohout T., Havrila K., Toth J., Husárik M., Gritsevich M., Britt D., and 18 others (2014) Density, porosity and magnetic susceptibility of the Košice shower and homogeneity of its parent body. Planetary and Space Science, 93-94, 96-100.
- P79 Pieters C. M., Murchie S., Thomas N., and Britt D. (2014) Composition of Surface Materials on the Moons of Mars. In Phobos J. Oberst Ed., Planetary and Space Science 102, 144-151.
- P80 Kohout T., Cuda J, Filip J, Britt D., and 8 others (2014) Space weathering simulations through controlled growth of iron nanoparticles on olivine. Icarus 237, 75-83.
- P81 Lust NB, Britt D., Harrington J., Nymeyer S., Stevenson K.B, Ross E.L, Bowman W., Fraine J. (2014) Least Asymmetry Centering Method and Comparison. Astronomical Society of the Pacific, Vol 126, 1092-1101.
- P82 Kiefer WS, Macke RJ, Britt DT, Irving AJ, and Consolmagno GJ (2014) The Density and Porosity of Lunar Impact Breccias and Impact Melt Rocks and Implications for GRAIL Gravity Modeling of the Orientale Impact Basin Structure. Geophys. Res. Lett 41, 5771-5777
- P83 Scheeres DJ, Britt DT, Carry B, and Holsapple KA (2015) Asteroid Interiors and Morphology. In Asteroids IV (P. Michel, F.E. DeMeo and W. Bottke eds.), University of Arizona Press, pp. 745-766
- P84 Covey S.D., Lewis J.S., Metzger P.T., and Britt D.T. (2016) Simulating the Surface Morphology of a Carbonaceous Chondrite Asteroid. Proceedings of 2016 ASCE Earth and Space Conference.
- P85 Sercel J.C., Dreyer C.B., Abbud-Madrid A. Britt D.T. Jedicke R., Gertsch L. and Love S.G. (2016) A Coordinated Research Program To Develop The Technology to Optical Mine Asteroids. Proceedings of 2016 ASCE Earth and Space Conference.
- P86 Britt D.T. and Beltran E. (2016) Addressing Exploration and ISRU Safety Challenges for Volatile Rich Asteroids. Proceedings of 2016 ASCE Earth and Space Conference.
- P86 Metzger P.T., Britt D.T. and Lewis J.S. (2016) Results of the 2015 Workshop on Asteroid Simulants. Proceedings of 2016 ASCE Earth and Space Conference.
- P87 Dyl K.A., Britt D.T. and 14 coauthors (2016) Characterization of Mason Gully (H5): The second recovered fall from the Desert Fireball Network Meteoritics & Planetary Science 51, Nr 3, 596–613 doi: 10.1111/maps.12605
- P88 Mazanek D.D., Britt D.T. and 23 coauthors (2016) Asteroid Redirect Mission (ARM) Formulation Assessment and Support Team (FAST) Final Report. NASA/TM–2016-219011
- P89 Taylor L.A., Pieters C.M., and Britt D.T. (2016) Evaluations of lunar regolith simulants Planetary and Space Science, Volume 126, July 2016, Pages 1–7
- P90 Pohl L. and Britt D.T. (2017) The radiation shielding potential of CI and CM chondrites. Advances in Space Research, Volume 59, Issue 6, Pages 1473-1485

Abstracts

- A1. Britt D.T., Pieters C.M., and Schultz P.H. (1986) Source of the optical red-slope in iron-rich meteorites. *Meteoritics*, 21, 340-341.
- A2. Schultz P.H., and Britt D.T. (1986) Early changes in gradation styles and rates on Mars. *Lunar and Planetary Science XVII*, 775-776.
- A3. Britt D.T. and Pieters C.M. (1987) Effects of small-scale surface roughness on the bidirectional reflectance spectra of nickel-iron meteorites. *Lunar and Planetary Science XVIII*, 131-132.
- A4. Britt D.T. and Pieters C.M. (1987) Small body surface processes: Alteration of reflectance properties and compositional implications for Phobos. *Brown University-Vernadsky Institute Microsynposium 5*. March, 1988; Brown University, Providence, RI.

- A5 Britt D.T. and Pieters C.M. (1987) The effects of regolith processes on asteroid spectral properties. *Asteroids II Conference*. March, 1988; Tucson, Arizona.
- A6. Britt D.T. and Pieters C.M. (1987) The optical effects of surface processes on small bodies. *Meteoritics*, 22, 340-342.
- A7. Britt D.T., Pieters C.M., Petaev M.I., and Zaslavskaya N.I. (1988) Tsarev: Petrology and bidirectional reflectance characteristics of a black chondrite. *Lunar and Planetary Science XIX*, 134-135.
- A8. Britt D.T. and Pieters C.M. (1988) The optical effects of regolith processes on ordinary chondrite parent bodies. *Bull. Amer. Astron. Soc.*, 20, 863.
- A9. Britt D.T. and Pieters C.M. (1988) The origin of Phobos: Implications of major element ratios. In: *Scientific and Methodological Aspects of the Phobos Study: Proceedings of the International Workshop Held in Moscow, Nov. 24-28, 1986*. Space Research Institute, USSR.
- A10. Britt D.T. and Pieters C.M. (1989) Bidirectional reflectance characteristics of black chondrite meteorites. *Lunar and Planetary Science XX*, 109-110.
- A11. Britt D.T., Pieters, C.M., Webb R.S., and Pratt S.F. (1989) Relationship of C-type asteroids to dark meteorites: Evidence for optical alteration by asteroidal regolith processes. *Lunar and Planetary Science XX*, 111-112.
- A12. Britt D.T. and Pieters C.M. (1989) Black chondrite meteorites: An analysis of fall frequency and the distribution of petrologic types. *Meteoritics*, 24, 255.
- A13. Britt D.T. and Pieters C.M. (1989) The physical, chemical and spectral properties of opaque phases in optically altered ordinary chondrites. *Bull. Amer. Astron. Soc.*, 21, 967.
- A14. Murchie, S.L., Britt D.T., Head J.W., Pratt S.L., Zhukov B.S., Kuzmin A., Ksanfomality L.V., Nikitin G., and Zharkov A. (1989) Color units on the surface of Phobos: Preliminary results. *EOS*, 70, 1174, and *Bull. AAS*, 21, 957.
- A15. Britt D.T., Murchie, S.L., Pieters C.M., Head J.W., Pratt S.L., Fisher P.C., Zhukov B.S., Kuzmin A., Ksanfomality L.V., Nikitin G., and Zharkov A. (1990) Phobos KRFM spectral data: Surface heterogeneity and meteorite analogs. *Lunar and Planetary Science XXI*, 129-130.
- A16. Britt D.T. and Pieters C.M. (1990) The spectral effects of opaque phases in optically altered ordinary chondrites. *Lunar and Planetary Science XXI*, 127-128.
- A17. Britt D.T., Tholen D.J., Bell J.F., and Pieters C.M. (1990) Comparison of asteroid and meteorite spectra by principal components analysis. *Lunar and Planetary Science XXI*, 131-132.
- A18. Murchie, S.L., Britt D.T., Head J.W., Pratt S.L., Fisher P.C., Zhukov B.S., Kuzmin A., Ksanfomality L.V., Nikitin G., and Zharkov A. (1990) Calibration of multicolor TV imaging and KRFM spectrometer observations of Phobos. *Lunar and Planetary Science XXI*, 823-824.
- A19. Murchie, S.L., Britt D.T., Head J.W., Pratt S.L., Fisher P.C., Zhukov B.S., Kuzmin A., Ksanfomality L.V., Nikitin G., Zharkov A., Fanale F., Blaney D., and Robinson M. (1990) Color variations on the surface of Phobos and their relationship to geologic features. *Lunar and Planetary Science XXI*, 825-826.
- A20. Britt D.T. and Pieters C.M. (1990) Opaque structures in gas-rich and black ordinary chondrites: Clues to optical alteration on ordinary chondrites parent bodies. *Bull. Amer. Astron. Soc.*, 22, 1116.
- A21. Britt D.T. and Pieters C.M. (1991) The bidirectional reflectance spectra of five gas-rich ordinary chondrites. *Lunar and Planetary Science XXII*, 139-140.
- A22. Britt D.T. and Pieters C.M. (1991) Darkening in gas-rich ordinary chondrites: Spectral modelling and implications for the regoliths of ordinary chondrite parent bodies. *Lunar and Planetary Science XXII*, 141-142.
- A23. Murchie, S.L., Erard S.L., Langevin Y., Britt D.T., Bibring J-P, Head J.W., and Pieters C.M. (1991) Disk-resolved spectral reflectance properties of Phobos from 0.3-3.2 μm : Preliminary integrated results from Phobos 2. *Lunar and Planetary Science XXII*, 943-944.
- A24. Britt D.T. and Lebofsky L.A. (1991) Asteroid classification with five ECAS colors. *Proceedings of the 3rd Asteroids, Comets, and Meteors Conference, Flagstaff, AZ*.

- A25. Britt D.T. (1991) "Space weathering": Are regolith processes an important factor in the S-type controversy? *Meteoritics* 26, 324.
- A26. Britt D.T., Pieters C.M., Petaev M.I., and Zaslavskaya N.I. (1991) Bidirectional reflectance spectra of the Divnoe anomalous achondrite. *Meteoritics* 26, 324.
- A27. Pieters C.M., Britt D.T., and Bishop J. (1991) Vis/NearIR reflectance spectra of CI/CM Antarctic consortium meteorites: B7904, Y82162, and Y86720. *Meteoritics* 26, 385.
- A28. Lebofsky L.A., Howell E.S. and Britt D.T. (1991) Characterization of low albedo asteroids. *Meteoritics* 26, 361.
- A29. Britt D.T. and Lebofsky L.A. (1991) Silicate darkening in ordinary chondrite parent body regoliths: Evidence from gas-rich and shock-blackened ordinary chondrites. *Bull. Amer. Astron. Soc.*, 23, 1139-1140.
- A30. Lebofsky L.A., Howell E.S., and Britt D.T. (1991) Characterization of low albedo asteroids. *Bull. Amer. Astron. Soc.*, 23, 1140.
- A31. Britt D.T., Bell J.F., Haack H., and Scott E.R.D. (1992) The reflectance spectrum of troilite. *Lunar and Planetary Science XXIII*, 167-168.
- A32. Britt D.T. and Pieters C.M. (1992) Bidirectional reflectance spectra of five antarctic light-dark ordinary chondrites. *Lunar and Planetary Science XXIII*, 165-166.
- A33. Britt D.T. and Pedroni A. (1992) Bidirectional reflectance spectra of the AFCER 111 regolith breccia. *Lunar and Planetary Science XXIII*, 163-164.
- A34. Britt D.T. and Lebofsky L.A. (1992) Spectral variation within asteroid classes. *Lunar and Planetary Science XXIII*, 161-162.
- A35. Britt D.T., Howell E.S., and Lebofsky L.A. (1992) The hydration state of main-belt C-class asteroids. *Bull. Amer. Astron. Soc.* 24, 940.
- A36. Britt D.T. (1993) The spectral effects of subsolidus reduction of olivine and pyroxene. *Lunar and Planetary Science XXIV*, 195-196.
- A37. Britt D.T., Howell E.S., Bell J.F., and Lebofsky L.A. (1993) 0.4 - 3.5 μm Observations of 4179 Toutatis. *Lunar and Planetary Science XXIV*, 197-198.
- A38. Pierazzo E., Singer R.B., Britt D.T., Dose L.R., Smith P.H., Tomasko M.G., Keller H.U., Knudsen J.M., and Soderblom L.A. (1993) Geologic remote sensing science on Mars from MESUR Pathfinder. *Bull. Amer. Astron. Soc.* 25, 1040.
- A39. Britt D.T., Dose L.R., Singer R.B., Smith P.H., Tomasko M.G., Keller H.U., Knudsen J.M., and Soderblom L.A. (1993) The Imager for MESUR Pathfinder (IMP). *Bull. Amer. Astron. Soc.* 25, 1041.
- A40. Britt D.T., Rivkin A.S., Howell E.S., and Lebofsky L.A. (1993) 1.2 to 2.5 μm observations of C class asteroids. *Bull. Amer. Astron. Soc.* 25, 1134.
- A41. Rivkin A.S., Howell E.S., Britt D.T., and Lebofsky L.A. (1993) Near-IR observations of M-class asteroids. *Bull. Amer. Astron. Soc.* 25, 1134.
- A42. Britt D.T. and Bell J.F. (1993) The REACT multiple asteroid rendezvous mission. *Meteoritics* 27, 331.
- A43. Howell E.S., Britt D.T., Bell J.F., Binzel R.P., and Lebofsky L.A. (1993) 0.4 - 3.5 μm Observations of 4179 Toutatis. *Meteoritics* 27, 366.
- A44. Britt D.T. and Clark B.E. (1994) "Space Weathering" and the ordinary chondrites. *Lunar and Planetary Science XXV*, 175-176.
- A45. Britt D.T. and Kring D.A. (1994) Cat Mountain: Spectra and petrology of an L5 impact-melt breccia. *Lunar and Planetary Science XXV*, 177-178.
- A46. Lebofsky L.A., Britt D.T., Howell E.S., and Rivkin A.S. (1994) The nature of low albedo asteroids from 3- μm spectrophotometry. *Lunar and Planetary Science XXV*, 785-786.
- A47. Rivkin A.S., Britt D.T., Howell E.S., and Lebofsky L.A. (1994) Hydrated E-class and M-class asteroids. *Lunar and Planetary Science XXV*, 1135-1136.

- A48. Smith P.H., Britt D.T., Doose L.R., Singer R.B., Tomasko M.G., Gliem F., Keller H.U., Knudsen J.M., and Soderblom L.A. (1994) The Imager for MESUR Pathfinder (IMP). *Lunar and Planetary Science XXV*, 1293-1294.
- A49. Britt D.T., Rivkin A.S., Howell E.S., and Lebofsky L.A. (1994) "Wet" E and M Class Asteroids. *Meteoritics* 29, 450.
- A50. Rivkin A.S., Howell E.S., Britt D.T., and Lebofsky L.A. (1994) "Determination of Near-IR Continua for M-asteroids. *Bull. Amer. Astron. Soc.* 26, 1171.
- A51. Britt D.T., Rivkin A.S., Howell E.S., and Lebofsky L.A. (1994) Observations of "Dry" C Class Asteroids. *Bull. Amer. Astron. Soc.* 26, 1175.
- A52. Smith P.H., Britt D.T., Doose L.R., Singer R.B., Tomasko M.G., Gliem F., Greeley R., Sullivan R., Keller H.U., Knudsen J.M., and Soderblom L.A. (1995) Update on the Imager for Mars Pathfinder (IMP). *Lunar and Planetary Science XXVI*.
- A53. Crowe D.G. and Britt D.T. (1995) Venus lander power generation by infrared photovoltaic conversion. *Lunar and Planetary Science XXVI*, 293-294.
- A54. Britt D.T., Kring D.A. and Bell J.F. (1995) The density / porosity of asteroids. *Lunar and Planetary Science XXVI*, 177-178.
- A55. Crowe D.G., Smith P.H., Chabot N., Reynolds R., Tanner R., Doose L., Britt D.T., Singer R., Palmer J., Shinohara C., DeVries K., and Friedman T. (1995) Calibration of the Imager for Mars Pathfinder (IMP). *Lunar and Planetary Science XXVI*, 295-296.
- A56. Consolmagno G.J. and Britt D.T. (1995) Bulk densities of meteorites in the Vatican Collection and implications for the S-asteroid controversy. *Meteoritics* 30, 500.
- A57. Britt D.T., Kring D.A., Consolmagno G.J. and Bell J.F. (1995) The problem with porosity. *Bull. Amer. Astron. Soc.* 27.
- A58. Grier J.A., Kring D.A., Swindle T.D., and Britt D.T. (1995) Impact evolution of the Cat Mountain meteorite parent body. *Bull. Amer. Astron. Soc.* 26.
- A59. Britt D.T. (1996) The parent asteroids of the ordinary chondrite meteorites. *Lunar and Planetary Science XXVII*.
- A60. Grier J.A., Britt D.T., Kring D.A. and Swindle T.D. (1996) Comparison of reflectance spectra from L-chondrite melt and clast phases to possible parent body asteroids. *Proceedings of the 5th Asteroids, Comets, and Meteors Conference, Paris*.
- A61. Consolmagno G.J. and Britt D.T. (1996) Density and porosity measurements of the Vatican Meteorite Collection. *Meteoritics* 31, A31
- A62. Britt D.T. and Consolmagno G.J. (1996) Estimating porosities from bulk densities. *Meteoritics* 31, A22
- A63. Britt D.T. and Consolmagno G.J. (1997) The porosity of meteorites and asteroids: Results from the Vatican Collection of Meteorites. *Lunar and Planetary Science XXVIII*.
- A64. Rivkin A. S., Lebofsky L.A., Howell E.S, Clark B.E., and Britt D. T. (1997) S-class asteroids: The view from three microns. *Lunar and Planetary Science XXVIII*.
- A65. Rivkin A. S., Lebofsky L.A., Britt D. T., and Howell E.S (1997) Three-micron survey of E- and M-class asteroids: Final results. *BAAS, Vol. 29*.
- A66. Consolmagno G.J. Britt D.T. and Stoll C.P. (1997) Model porosities of chondrites and the nature of asteroidal material. *Meteoritics* 32, A31
- A67. Thomas N., Britt D.T., Murchie S.M., and Herkenhoff K. (1997) Observations of Phobos and Deimos With the Imager for Mars Pathfinder. Submitted to the AGU Fall Meeting.
- A68. Arnold G., A Dummel, H Nordmeyer, P Smith, D Britt (1997) Laboratory Reflectance Measurements of Ferric Oxides, Phyllosilicates, and Palagonitic Soils as Mars Analog Materials and Study of the Calibration Targets of the Imager for Mars Pathfinder (IMP). AGU Fall Meeting.

- A69. Bell J.F., J Johnson, L Soderblom, D Britt, R Reid, R Singer, P Smith, S Murchie, S Hviid, R Anderson, N Bridges, J Crisp, H Herkenhoff (1997) Mineralogy and Diversity of Soils at the Mars Pathfinder Landing Site. AGU Fall Meeting.
- A70. Britt D.T., P Smith, R Anderson, J F Bell, J Crisp, T Economou, K E Herkenhoff, M B Madsen, H Y McSween, S Murchie, R Reid, R Rieder, R B Singer, J Johnson (1997) The Mineralogy of the Mars Pathfinder Landing Site. AGU Fall Meeting.
- A71. Johnson J., L Soderblom, R Kirk, R Reid, P H Smith, M Lemmon, D Britt, N Thomas, J Bell, N T Bridges, R Anderson, S M Murchie (1997) Preliminary Photometric Analysis of Selected Materials at the Sagan Memorial Station, Mars. AGU Fall Meeting.
- A72. Murchie S., R Anderson, J Crisp, K Herkenhoff, J Bell, D Britt, R Reid, R Singer, P Smith, T Economou, J Johnson, L Soderblom, S Hviid, M Madsen, H McSween, R Rieder, N Thomas (1997) Spectral Properties and Classes of Rocks at the Mars Pathfinder Landing Site. AGU Fall Meeting.
- A73. Soderblom L.A., J Barrett, K Becker, T Becker, A Bennett, J Blue, D Cook, E Eliason, L Gaddis, P Garcia, M Gordon, T Hare, A Howington-Kraus, C Isbell, J Johnson, R Kirk, E Lee, H Morgan, B Redding, T Rosanova, R Sucharski, T Sucharski, K Thompson, J Torson, W Ward, P Smith, D Britt (1997) The Mars Pathfinder Super Pan: U.S. Geological Survey Processing and Analysis. AGU Fall Meeting.
- A74. Britt D. T, Anderson R. Bell J. F. III Crisp J. Economou T. Herkenhoff K. E. Madsen M. B. McSween H. Y. Murchie S. Reid R. Rieder R. Singer R. B. Soderblom L. (1998) The Mineralogy of the Mars Pathfinder Landing Site. *LPS XXIX*, CD-ROM.
- A75. Bell J. F. III, Anderson R. C. Bishop J. L. Bridges N. T. Britt D. T. Crisp J. A. Economou T. Ghosh A. Greenwood J. P. Gunnlaugsson H. P. Hargraves R. B. Herkenhoff K. Hviid S. F. Johnson J. R. Knudsen J. M. Madsen M. B. McSween H. Y. Jr. Morris R. V. Murchie S. L. Reid R. J. (1998) Mineralogy, Composition, and Origin of Soil and Dust at the Mars Pathfinder Landing Site. *LPS XXIX*, CD-ROM.
- A76. Bishop J. L. Scheinost A. Bell J. F. III Britt D. Johnson J. R. Murchie S. (1998) Ferrihydrite – Schwertmannite – Silicate Mixtures as a Model of Martian Soils Measured by Pathfinder. *LPS XXIX*, CD-ROM.
- A77. Murchie S., Thomas N. Britt D. Herkenhoff K. Bell J. F. III (1998) Mars Pathfinder Imaging Results at Phobos and Deimos: Consistency with Previous Data. *LPS XXIX*, CD-ROM.
- A78. Johnson J. R. Soderblom L. Kirk R. Gaddis L. Reid R. Smith P. H. Lemmon M. Britt D. Thomas N. Bell J. Bridges N. T. Anderson R. Herkenhoff K. Murchie S. M. Dummel A. Arnold G. Lampen P. Trauthan F. (1998) Photometric Imaging Sequences and Analysis at the Mars Pathfinder Landing Site. *LPS XXIX*, CD-ROM.
- A79. Murchie S. Johnson J. McSween H. Bridges N. Anderson R. Britt D. Bell J. F. III Crisp J. (1998) Spectral Properties of Rocks at the Mars Pathfinder Landing Site. *LPS XXIX*, CD-ROM.
- A80. Kirk R. L. Anderson J. Barrett J. Becker K. Becker T. Bennett A. Blue J. Cook D. Eliason E. Gaddis L. Garcia P. Gordon M. Hare T. Howington-Kraus A. Isbell C. Johnson J. Lee E. Morgan H. Redding B. Rosanova T. Soderblom L. Sucharski R. Sucharski T. Thompson K. Torson J. Ward W. Dorner E. Smith P. Britt D. Pathfinder Science Team (1998) Mapping the Sagan Memorial Station Site with the IMP Camera. *LPS XXIX*, CD-ROM.
- A81. Gaddis L. Soderblom L. Kirk R. Johnson J. Ward W. Anderson J. Barrett J. Becker K. Becker T. Bennett A. Blue J. Cook D. Eliason E. Garcia P. Gordon M. Hare T. Howington-Kraus A. Isbell C. Lee E. M. Redding B. Rosanova T. Sucharski R. Sucharski T. Thompson K. Torson J. Dorner E. Smith P. Britt D. (1998) The Mars Pathfinder “Super Pan”: A U.S.G.S. Cartographic Product. *LPS XXIX*, CD-ROM.
- A82. Britt D. T. and Consolmagno G. J. (1998) Dark Asteroids and Dark Meteorite Densities. *LPS XXIX*, CD-ROM.
- A83. Consolmagno G.J. and Britt D.T. (1998) Ordinary Chondrite Model Porosities and the Structure of Asteroids. *LPS XXIX*, CD-ROM.

- A84. Britt D.T. (1998) The Geological Results of the Mars Pathfinder Mission. *MPS 33*, A24..
- A85. Britt D.T. (1999) What can ordinary chondrite meteorites tell us about “space weathering”. *LPS XXX*, CD-ROM.
- A86. Consolmagno G.J. and Britt D.T. (1999) Turning meteorites into rock: Constraints on asteroid physical evolution. *LPS XXX*, CD-ROM.
- A87. Soderblom L.A., Britt D.T., and 15 others. (1999) Deep Space 1 MICAS observations of 9969 Braille. *Bull. Amer. Astron. Soc. 31*, 1127.
- A88. Britt D. T. and Consolmagno G. J. (2000) Modeling the structure of high porosity asteroids. *LPS XXXI*, CD-ROM.
- A89. Britt D. T. and Consolmagno G. J. (2000) Asteroid bulk density: Implications of recent data. *Meteoritics 35*, A34.
- A90. Britt D. T. and Consolmagno G. J. (2000) Asteroid bulk density: *Bull. Amer. Astron. Soc. 32*, 999.
- A91. Sears D.W.G., Britt D.T., and 8 others (2000) Hera: Multiple near-earth asteroid sample return. *Bull. Amer. Astron. Soc. 32*, 1042.
- A92. Britt D. T. and Kring D. A (2001) Portales Valley: The bidirectional reflectance spectrum of a unique H5 breccia. *LPS XXXII*, CD-ROM.
- A93. Britt D. T. Kelsey C.M., and Kring D. A (2001) Ourique: Spectra and petrology of an H4 gas-rich breccia. *LPS XXXII*, CD-ROM.
- A94. Britt D. T., Yeomans D. K. and Consolmagno G. J (2001) The porosity of 433 Eros. *LPS XXXII*, CD-ROM.
- A95. Britt D. T. and Consolmagno G. J. (2001) Asteroid bulk density: Implications for the structure of asteroids. *LPS XXXII*, CD-ROM.
- A96. Britt D. T. Sears D. W. G. and Cheng A. F. (2001) Asteroid Sample Return: 433 Eros as an Example of Sample Site Selection. *Meteoritics 36*, A30.
- A97. Soderblom L. A., Britt D. T. and 10 others (2001) Observations of Comet 19P/Borrelly from the Miniature Integrated Camera and Spectrometer (MICAS) aboard Deep Space1 (DS1), *Bull. Amer. Astron. Soc. 33*.
- A98. Britt D. T., Boice D. C., Nelson R. M., Soderblom L. A., Thomas N. (2001) The Geology of Comet 19P/Borrelly. *Bull. Amer. Astron. Soc. 33*.
- A99. Buratti B. J, Soderblom L. A., Britt D. T. and 9 others (2001) Photometry and Surface Physical Properties of Comet 19P/Borrelly. *Bull. Amer. Astron. Soc. 33*.
- A100. Boice D. C., Britt D. T., Sandel W. R., Soderblom L. A., Thomas N., and Yelle R. V. (2001) The Circumnuclear Environment of Comet 19P/Borrelly Observed During the Deep Space One Encounter. *Bull. Amer. Astron. Soc. 33*.
- A101. Sears D. W. G., Britt D. T, and 17 others (2001) Near-Earth Asteroid Sample Return - A Community Panel Report for the NRC Decadal Study. *Bull. Amer. Astron. Soc. 33*.
- A102. Consolmagno G.J. and Britt D.T. (2001) Classifying Asteroids by Macroporosity. *Bull. Amer. Astron. Soc. 33*.
- A103. Thomas N., Britt D.T. and 6 others (2001) Jet morphology in the inner coma of Comet 19P/Borrelly observed by the Deep Space One MICAS imaging system. *Bull. Amer. Astron. Soc. 33*.
- A104. Britt D. T and 9 others (2002) The Geology of Comet 19P/Borrelly. *LPS XXXIII*, CD-ROM
- A105. Consolmagno G.J. and Britt D.T. (2002) Low density materials and asteroidal macroporosity. *LPS XXXIII*, CD-ROM
- A106. Boice D. C., Britt D. T., Sandel W. R., Soderblom L. A., Thomas N., and Yelle R. V. (2002) The Near Nucleus Environment of Comet 19P/Borrelly During the Deep Space One Encounter. *LPS XXXIII*, CD-ROM
- A107. Soderblom L. A. ,Britt D. T, and 20 others (2002). Encounter with Comet 19P/Borrelly: Results from Deep Space 1Miniature Integrated Camera and Spectrometer aboard. *LPS XXXIII*, CD-ROM

- A108 Wilkison S. L., Robinson M. S., McCamant J. E., and Britt D. T. (2002) Densities and porosities of some ordinary chondrite meteorites. *Meteoritics* 37, A151.
- A109 Consolmagno G.J. and Britt D.T. (2002) Three points on meteorite porosity. *Meteoritics* 37, A38.
- A110 Britt D.T. (2002) The morphology and surface processes of Comet 19/P Borrelly. *Meteoritics* 37, A25.
- A111 Sears D.W.G. Britt D.T. and 5 others (2002) The Hera near-Earth asteroid sample return mission: Science requirements of the sample collector. *Meteoritics* 37, A129.
- A112 Britt D. T. and the Gulliver Team (2002) The Gulliver sample return mission to Deimos. *Meteoritics* 37, A25.
- A113 Andre S. L., McCoy T.J., McCamant J. E., Robinson M. S., and Britt D. T. (2003) Densities and porosities of ordinary chondrites: Do high porosity meteorites represent regolith materials? LPS XXXVIII, CD-ROM.
- A114 Britt D.T. (2003) The Gulliver sample return mission. *BAAS* 35, 1000-1001
- A115 Consolmagno G.J., Weidenschilling S.J., and Britt D.T. (2003) Forming well-compacted meteorites by shock events in the solar nebula. *Meteoritics* 38, A128.
- A116 Langsdorf E. L. and Britt D. T. (2004) Periglacial processes in the southern hemisphere of Mars. LPS XXXIX, CD-ROM
- A117 Britt D. T. and Consolmagno G. J. (2004) Meteorite porosities and densities: A review of trends in the data. LPS XXXV, CD-ROM.
- A118 Britt D. T., Robinson M. and the Gulliver Team (2004) The Gulliver sample return mission to Deimos. 35th COSPAR Scientific Assembly
- A119 Consolmagno G.J., Macke R.J., and Britt D.T. (2004) How homogeneous are stones from ordinary chondrite showers? *Meteoritics* 39, A25.
- A120 Langsdorf E. L. and Britt D. T. (2004) Mapping periglacial features in the southern hemisphere of Mars *BAAS* 36, 1160
- A121 Macke R.J., Consolmagno G.J., Rochette P. and Britt D.T. (2005) A fast, non-destructive method for classifying ordinary chondrite falls using density and magnetic susceptibility LPS XXXVI. CD-ROM
- A122 Langsdorf E. L. and Britt D. T. (2005) Classification and distribution of patterned ground in the southern hemisphere of Mars. LPS XXXVI. CD-ROM
- A123 Britt D. T. Consolmagno G. J. and W. J. Merline (2005) Update on Small Body Density and Porosity. *BAAS* 37, 627
- A124 G. J. Consolmagno SJ, S. C. Tegler, W. Romanishin, and D. T. Britt (2006) Shape, Spin, and the Structure of Asteroids, Centaurs, and Kuiper Belt Objects. LPS XXXVII. CD-ROM
- A125 Britt D. T. Consolmagno G. J. and W. J. Merline (2006) Small Body Density and Porosity: New Data, New Insights. LPS XXXVII. CD-ROM
- A126 Drube, L., Madsen, M.B., Olsen, M., Jørgensen J., Bernt, M.H., Britt, D., Lemmon M., Shinohara C., Smith P. (2006) Simulation of dust sedimentation in the Martin atmosphere for Phoenix mars lander 2007 mission calibration target. LPS XXXVII. CD-ROM.
- A127 Consolmagno G. J. and Britt D. T. (2006) Rubble piles or planets? Implications for meteorite parent bodies. *Meteoritics* 41, A40.
- A128 Strait M.M., Consolmagno G.J., and Britt D.T. (2006) Terrestrial analogues for meteoritic porosity measurements. *Meteoritics* 41, A168.
- A129 Drube L., Madsen M. B., Olsen M., Jørgensen J., Britt D., Lemmon M., Shinohara C., Smith P. (2007) Simulation of Dust Sedimentation on the Calibration Targets for the Surface Stereo Imager Onboard the Phoenix Mars Lander 2007. Fourth International Conference on Mars Polar Science and Exploration, Abstract #8012
- A130 Consolmagno G. J., Wignarajah D. P., and Britt D. T. (2007) Bulk Densities of Assorted CK Chondrites, Primitive Achondrites, and Bencubbin. *Meteoritics* 42, A33.

- A131 Britt D.T., Consolmagno G.J., and Lust N. (2007) The Density and Porosity of Binary Asteroids. Presented at the 1st Workshop on Binaries in the Solar System, Steamboat Springs, CO August 2007.
- A132 Macke R.J., Consolmagno G. J., and Britt D. T. (2008) Analyzing systematic error in “Bead Method” measurements of meteorite bulk volume and density. *LPS XXXIX*. Abs #2048, CD-ROM
- A133 Consolmagno G. J., Britt D. T., and Macke R.J. (2008) What density and porosity tell us about meteorites. *LPS XXXIX*. Abs #1582, CD-ROM
- A134 Lemmon M.T., Smith P., Shinohara C., Tanner R., Woida P., Shaw A., Hughes J., Reynolds R., Woida R., Penegor J., Oquest C., Hviid S.F., Madsen M.B., Olsen M., Leer K., Drube L., Morris R.V., Britt D.T. (2008) The PHOENIX surface stereo imager (SSI) investigation. *LPS XXXIX*. Abs #2156, CD-ROM
- A135 Macke R., Britt D., Consolmagno G. (2008) Density and Porosity of Shower Meteorites as Indicators of Meter-scale Asteroid Homogeneity. *BAAS 40*. Abstract 33.02
- A136 Lust N, and Britt D.T.. (2008) Determination of the Period of Binary Asteroid Systems. *BAAS 40*. Abstract 28.10
- A137 Consolmagno G. J., Britt D. T., and Macke R.J. (2008) The Density and Porosity of Carbonaceous Chondrites: A New Look. *Meteoritics Vol. 43*, A34.
- A138 Sasso M. R., Macke R. J., Britt D. T., Rivers M. L., Ebel D. S., and Friedrich J. M. (2009) Physical Properties of Incompletely Compacted Equilibrated Ordinary Chondrites: Implications for Asteroidal Structure and Impact Processing. *LPS XL*. Abs #1670, CD-ROM
- A139 Macke R. J., Britt D. T., and Consolmagno G. J. (2009) Enstatite Chondrite Physical Properties: Density, Porosity and Magnetic Susceptibility. *LPS XL*. Abs #1598, CD-ROM
- A140 Consolmagno G. J., Britt D. T., and Macke R. J. (2009) Physical Properties of Meteorites: A Review. Bolides and Meteorite Falls Conference, Prague
- A141 Macke R. J., Hutson M. L., Britt D. T., Consolmagno G. J. (2009) EH and EL Enstatite Chondrite Physical Properties: No Difference in Iron Content. *Meteoritics Vol. 44*, A129.
- A142 Hargrove K., Smith C. W., Campins H. , Britt D. (2009) A Laboratory Simulation of Solar Wind Space Weathering for Near-Earth Asteroids. *BAAS 41*. Abstract 68.26
- A143 Consolmagno G. J., Opeil C. P., and Britt D. T. (2009) New Thermal Conductivity Measurements of Meteorites: Implications for Asteroid Models. *BAAS 41*. Abstract 50.05
- A144 Lust N. B., Stevenson K. B., Britt D. T., Harrington J. (2009) The Performance of PSF Centering Techniques. *BAAS 41*. Abstract 40.10
- A145 Macke R. J., Britt D. T., and Consolmagno G. J. (2009) Measurement of Meteorite Density, Porosity, and Magnetic Susceptibility: Fast, Non-Destructive, Non-Contaminating, and Very Informative. *2009 Joint Assembly Meeting of the American Geophysical Union, Toronto, Canada, Abstract MA11B-03*.
- A146 Macke R. J., W. S. Kiefer, D. T. Britt, and G. J. Consolmagno (2010) Density, Porosity, and Magnetic Susceptibility of Lunar Rocks, *Lunar and Planetary Sci. Conf. XLI, abstract 1252*.
- A147 Britt D.T., Macke, R. J., W. S. Kiefer, and G. J. Consolmagno (2010) An Overview of Achondrite Density, Porosity and Magnetic Susceptibility, *Lunar and Planetary Sci. Conf. XLI, abstract 1869*.
- A148 Schuerger A.C., Clausen C., and Britt D.T. (2010) Methane Evolution from UV-Irradiated Spacecraft Materials Under Simulated Martian Conditions: Implications of the MSL Mission. *Lunar and Planetary Sci. Conf. XLI, abstract 2092*.
- A149 Wittmann A., D. A. Kring, J. M. Friedrich, J. Troiano, R. J. Macke D. T. Britt, T. D. Swindle, J. R. Weirich, and D. Rumble III. (2010) Highly Porous and Compositionally Intermediate Ordinary Chondrites LAP 031047. *Lunar and Planetary Sci. Conf. XLI, abstract 2092*.
- A150 Consolmagno G.J., Opeil C.P., Britt DT. (2010) Thermal Conductivities and Porosities of Stony Meteorites. *Meteoritics and Planetary Science 45*, A38.
- A151 Macke R. J., Britt D. T., and Consolmagno G. J. (2010) Using Grain Density and magnetic Susceptibility to Quantify Weathering in Chondrite Finds. *Meteoritics and Planetary Science 45*, A124.

- A151 Consolmagno G.J., Opeil C.P., Britt D.T. (2010) Thermal Conductivities of Two Basaltic Achondrite Meteorites. *BAAS 42 #4*, 48.03.
- A152 Kohout T., Kiuru R., Montonen M., Scheirich P., Britt D. T., Macke R., and Consolmagno G. (2010) 2008 TC3 asteroid internal structure and physical properties inferred from study of the Almahata Sitta meteorites. *BAAS 42 #4*, 13.29.
- A153 Lust N. B. and Britt D.T. (2010) Algorithms for Determining Multiple Periodicities in Sparsely and Unevenly Sampled Data. *BAAS 42 #4*, 39.13.
- A154 Britt D.T. (2010) Microgravity and Regolith Processes on Asteroids. GSA Annual Meeting Denver, CO.
- A155 Britt D.T. (2010) The Gulliver Mission: Sample Return from Deimos. European Planetary Science Congress 2010-463. Rome Italy.
- A156 Consolmagno G.J., Opeil C.P., Britt D.T. (2010) Meteorite physical properties, meteor models, and the structure of minor solar system bodies. European Planetary Science Congress 2010-215. Rome Italy.
- A157 Kohout T., Kiuru R., Montonen M., Haloda J., and Britt D. (2010) Restriction on 2008 TC3 asteroid properties from study of the Almahata Sitta meteorites. European Planetary Science Congress 2010-692. Rome Italy.
- A158 Britt D., Macke R., and Consolmagno G. (2010) The Density, Porosity, and Structure of Very Small Bodies. European Planetary Science Congress 2010-863. Rome Italy.
- A159 Britt D.T. (2011) Microgravity and Regolith Processes on Asteroids. Next-Generation Suborbital Researchers Conference, Orlando FL.
- A160 Kohout T. and Britt D. (2011) magnetic Susceptibility as a Tool for Asteroid Exploration. *Lunar and Planetary Sci. Conf. XLII, abstract 1517*.
- A161 Schuerger A.C. and Britt D.T. (2011) Hypobaric conditions within rock void spaces on Mars will likely inhibit the replication of terrestrial microorganisms. *Lunar and Planetary Sci. Conf. XLII, abstract 1976*.
- A162 Macke R. J., W. S. Kiefer, D. T. Britt, A. J. Irving and G. J. Consolmagno (2011) Density, Porosity, and Magnetic Susceptibility of Lunar Samples: Early Results, *Lunar and Planetary Sci. Conf. XLII, abstract 1986*.
- A163 Kiuru R., Kohout T., Montonen M., Britt D., Macke R., Scheirich P., Consolmagno G. (2011) Limits for Asteroid 2008 TC3 Size and Mass Based on Densities of Almahata Sitta Meteorites. *74th Annual Meteoritical Society Meeting*, Abstract 5090.
- A164 Kohout T., Britt D. (2011) Magnetic Susceptibility as a Tool for Characterization of an Asteroid Regolith and Sample Return. *74th Annual Meteoritical Society Meeting*, Abstract 5195.
- A165 Schaefer M. W., Consolmagno G. J., Britt D., Schaefer B. E. (2011) Measurement of Low-Temperature Heat Capacity of Meteorites. *74th Annual Meteoritical Society Meeting*, Abstract 5034.
- A166 Macke R. J., Britt D. T., Kiefer W. S., Irving A. J., Consolmagno G. J. (2011) Porosity, Magnetic Susceptibility and Density of Lunar Meteorites. *74th Annual Meteoritical Society Meeting*, Abstract 5093.
- A167 Consolmagno G.J., Opeil C.P., Britt D.T. (2011) Uniaxial stress/strain of meteorites. EPSC-DPS2011, Abstract 574.
- A168 Kohout T. and Britt D. (2011) Magnetic susceptibility as a tool for characterization of an asteroid regolith and sample return. EPSC-DPS2011, Abstract 784.
- A169 Lust N. B., Britt D.T., and Harris A. (2011) .New Methodology for the Reanalysis of Low Signal Small Bodies. EPSC-DPS2011, Abstract 1512
- A170 Consolmagno G., Britt D, and Macke R. (2011) Cautionary tales about comparing meteorites to asteroids. EPSC-DPS2011, Abstract 578
- A171 Macke R. J., Britt D. T., Kiefer W. S., Irving A. J., and Consolmagno G. J. (2012) Density and porosity of Apollo lunar basalts and breccias. *Lunar and Planetary Sci. Conf. XLIII, abstract 1299*.

- A172 Schuerger A.C., Moores J.E., Clausen C., Barlow N.G., and Britt D.T. (2012) A proposed UV/CH₄ linked model for the global methane budget on Mars. *Lunar and Planetary Sci. Conf. XLIII, abstract 1911.*
- A173 Friedrich J. M., Ruzicka A., Ebel D.S., Thostenson J., Rudolph R.A., Rivers M.L., Macke M.J., and Britt D.T. (2012) Three dimensional petrography of Kernouve: A story of vein formation, compaction, and metamorphism. *Lunar and Planetary Sci. Conf. XLIII, abstract 1197.*
- A174 Britt D. T., Macke R. J., Kiefer W. S., Irving A. J., G. Hupe, and Consolmagno G. J. (2012) Density, porosity and magnetic susceptibility of two recent meteorite falls: Tissint and Sutter's Mill. *75th Annual Meteoritical Society Meeting, Abstract 5350.*
- A175 Consolmagno G. J., Schaefer M. W., Schaefer B. E., and Britt D. T. (2012) The Heat Capacity of Meteorites at Low Temperature: First Results. *75th Annual Meteoritical Society Meeting, Abstract.*
- A176 Lisano M.E., Britt D. T., Castillo J., and Kring D. (2012) Mars Moon Sample Return for Science and Segue to Potential Human Presence at Mars. *Concepts and Approaches for Mars Exploration. June, 2012, Houston, Texas*
- A177 Kohout T., Britt D., Cuda J., and the MSM team (2012) Magnetic susceptibility meter (MSM) for planetary regolith composition studies. International Workshop on Instrumentation for Planetary Missions, Greenbelt, Maryland.
- A178 Consolmagno G.J., Macke R.J., and Britt D.T. (2012) The evidence in asteroids for chemical and physical trends in the solar nebula. DPS2012, Abstract
- A179 Lust N. B. and Britt D.T. (2012) Reinvestigation of Low-Signal Small Bodies. DPS2012, Abstract
- A180 Kiefer W. S., Macke R. J., Britt D. T., Irving A. J., and Consolmagno G. J. (2012) Density and Porosity of Lunar Feldspathic Rocks and Implications for Lunar Gravity Modeling. *Lunar Highland Crust Conf., July 2012.*
- A181 Lust N. B. and Britt D.T. (2012) Binary Asteroid Follow-up 3rd Workshop on Binaries in the Solar System, Hawaii.
- A182 Cuda J., Filip J., Tucek J., Kohout T., Skala R., Britt D., Bradley T. and Zboril R. (2013) Space weathering simulations through laboratory production of iron nanoparticles on mineral grains. *Lunar and Planetary Sci. Conf. XLIV, abstract 2524.*
- A183 Macke R. J., Britt D. T., and Consolmagno G. J. (2013) New pycnometer design for thin-sliced meteorites. *Lunar and Planetary Sci. Conf. XLIV, abstract 1398.*
- A184 Kohout T., Čuda J., Filip J., Britt D., Bradley T., Tuček J., Skála R., Kletetschka G., Kašlík J., Malina O., Šišková K., and Zbořil R. (2013) Space Weathering Evolution on Airless Bodies - Laboratory Simulations with Olivine. DPS 2013 Abstract.
- A185 Consolmagno G.J., Macke R.J., and Britt D.T. (2013) Asteroid Thermal Properties Derived from Meteorite Data. DPS 2013 Abstract.
- A186 Consolmagno G.J. and Britt D.T. (2013) Iron meteorite density and heat capacity. MetSoc 2013 Abstract.
- A187 Kohout T., Čuda J., Filip J., Britt D., Bradley T., Tuček J., Skála R., Kletetschka G., Kašlík J., Malina O., Šišková K., and Zbořil R. (2014) Evolution of Space Weathering-Laboratory Simulations. *Lunar and Planetary Sci. Conf. XLV, abstract 1977.*
- A188 Britt D. T., Schelling P. K., Consolmagno G. J. SJ, and Bradley T. (2014) Space weathering on volatile-rich asteroids. *Lunar and Planetary Sci. Conf. XLV, abstract 2067.*
- A189 Macke R.J., Kiefer W. S., Britt D.T., Consolmagno G.J., and Irving A. J. (2014) New lunar sample density and magnetic susceptibility measurements. *Lunar and Planetary Sci. Conf. XLV, abstract 1949.*
- A190 Kiefer W. S., Macke R. J., Britt D. T., Irving A. J., and Consolmagno G. J. (2014) The Density, Porosity, and Magnetic Susceptibility of Martian Meteorites as Constraints on Gravity Models. *Lunar and Planetary Sci. Conf. XLV, abstract 2028.*

- A191 Ralchenko M., Britt D.T., Samson C., Herd C.D.K., Herd R.K., and McCausland P.J.A (2014) Bulk physical properties of the Tagish Lake meteorite pristine frozen fragments. Lunar and Planetary Sci. Conf. XLV, abstract 1021.
- A192 Lust N. B. and Britt D. T. (2014) Observations and Analysis of 2577 Litva. Lunar and Planetary Sci. Conf. XLV, abstract 2571.
- A193 Schelling P. K., Britt D. T., Bradley T., and Consolmagno G. J. SJ. (2014) Space weathering on Mercury and Vesta. Lunar and Planetary Sci. Conf. XLV, abstract 2179.
- A194 Macke R.J., Consolmagno G.J., and Britt D.T. (2014) Heat Capacity of HED meteorites from the Vatican Collection. Lunar and Planetary Sci. Conf. XLV, abstract 1929.
- A195 Britt D.T., Schelling P.K., Consolmagno G.J. SJ, and Bradley T. (2014) Forward Modeling Space Weathering. NASA Exploration Science Forum, 2014 Abstract
- A196 Britt D.T., Schelling P.K., Consolmagno G.J. SJ, and Bradley T. (2014) Space Weathering Processes and Products on Volatile-Rich Asteroids ACM 2014. Abstract
- A197 Gritsevich M., Vinnikov V., Kuznetsova D., Kohout T., Pupyrev Y., Peltoniemi J., Lupovka V., Dmitriev V., Tóth J., Britt D., Turchak L., and Virtanen J. (2014) Pre-atmospheric parameters and fragment distribution: Case study for the Kosice meteoroid. ACM 2014, Abstract.
- A198 Consolmagno G.J., Macke R.J., and Britt D.T. (2014) Heat Capacity of HED meteorites from the Vatican Collection. ACM 2014, Abstract.
- A199 Gritsevich M., Vinnikov V., Kuznetsova D., Kohout T., Pupyrev Y., Peltoniemi J., Lupovka V., Dmitriev V., Tóth J., Britt D., Turchak L., and Virtanen J. (2014) Preatmospheric parameters and fragment distribution: A case study for Kosice Meteoroid. MetSoc 2014 Abstract.
- A200 Macke R.J., Consolmagno G.J., and Britt D.T. (2014) Heat Capacities of Ordinary Chondrites. MetSoc 2014 Abstract.
- A201 Kohout T., Čuda J., Filip J., Britt D., Bradley T., Tuček J., Skála R., Kletetschka G., Kašlík J., Malina O., Šišková K., and Zbořil R. (2014) Can we distinguish between shocked and space-weathered asteroids? DPS 2014 Abstract.
- A202 Pohl L., Johnson D., and Britt D. (2014) The Stopping Power of Asteroidal Materials as High-Energy Charged Particle Shielding. DPS 2014 Abstract.
- A203 Britt D., Kohout T., Schelling P., and Consolmagno G. (2014) Space Weathering in Olivine and the Mineralogy of (Some) M-Class Asteroids. DPS 2014 Abstract.
- A204 Macke R.J., Kent J.J., Kiefer W.S, and Britt D.T. (2015) 3D-laser Scanning Technique Applied to Bulk Density Measurements of Apollo Lunar Samples. Lunar and Planetary Sci. Conf. XLVI, abstract 1716
- A205 Pohl L. and Britt D. (2015) Asteroidal Material Shielding Potential Against High-Energy Particles. Lunar and Planetary Sci. Conf. XLVI, abstract 2368.
- A206 Kiefer W. S., Macke R. J., Britt D. T., Irving A. J., and Consolmagno G. J. (2015) The Density and Porosity of Lunar Impact Breccias and Impact Melt Rocks and Implications for GRAIL Gravity Modeling of the Orientale Impact Basin Structure. Lunar and Planetary Sci. Conf. XLVI, abstract 1711.
- A207 Kohout T., Penttilä A., Gritsevich M., Britt D., Reddy V., Mann P., Čuda J., Filip J., Malina O., Grokhovsky V.I., Yakovlev G.A., Haloda J., Halodova P., Muinonen K., Zbořil R. (2015) Can we Distinguish Between shock-Darkened and Space-Weathered Asteroids? Lunar and Planetary Sci. Conf. XLVI, abstract 2072.
- A207 Lee P., Benna M., Britt D. and 32 others (2015) PADME (Phobos And Deimos & Mars Environment): A Proposed NASA Discovery Mission to Investigate the Two Moons of Mars. Lunar and Planetary Sci. Conf. XLVI, abstract 2856.
- A208 Britt D.T., Consolmagno G.J., and Macke R.J. (2015) The Non-Destructive Measurement of Meteorite Density and Porosity. AGU Spring Meeting., abstract 35094
- A209 Munsat T., D. Britt, D. Cruikshank, R. Dee, M. Gudipati, M. Horányi, D. James, S. Kempf, A.O. Nelson, Z. Sternovsky (2015) On the Creation of Complex Organic Molecules through Micrometeoroid Bombardment in the Laboratory. SSERVI Exploration Science Forum, July 2015

- A210 Britt D.T. and Beltran E. (2015) A Cautionary Tale about Volatile-Rich Carbonaceous Chondrites”, SSERVI Exploration Science Forum, July 2015
- A211 Pohl L. and Britt D.T. (2015) Asteroid material shielding potential against high energy particles. SSERVI Exploration Science Forum, July 2015
- A212 Britt D.T. (2015) Economics and Exploration: A Bit of Historical Perspective on the New Age of Exploration. SSERVI Exploration Science Forum, July 2015
- A213 Kohout T., Malina O., Penttilä A., Kröger A., Britt D., Filip J., Muinonen K. and Zboril R. (2015) Space weathering induced slope changes in pyroxene and howardite spectra. Workshop on Space Weathering of Airless Bodies, Houston TX, #2022.
- A214 Malina O., Kohout T., Tucek J., Filip J., Britt D., and Zboril R. (2015) Methodology of Space Weathering Simulation and Its Application on Olivine and Pyroxene Samples. Workshop on Space Weathering of Airless Bodies, Houston TX, #2029.
- A215 Britt D. T., Schelling P. K., and Blair R. (2015) The Chemistry and Physics of Space Weathering. Workshop on Space Weathering of Airless Bodies, Houston TX, #2057.
- A216 Blair R. G., Schelling P. K. and Britt D. T. (2015) Aspects of Space Weathering via Mechanically Initiated Chemistry. Workshop on Space Weathering of Airless Bodies, Houston TX, #2059
- A217 Schelling P. K., Britt D. T., Quadery A. H., Tucker W. C., and Blair R. (2015) Atomic-Scale Modeling and Theory of Space Weathering Processes: Mechanisms and Surface Properties. Workshop on Space Weathering of Airless Bodies, Houston TX. #2052
- A218 Britt D. T., Metzger P., Covey S. and Wiggins S. (2015) Asteroid Regolith Simulants: Development, Characteristics, and Testing. Fall AGU Meeting, San Francisco, CA. P44A-08
- A219 Munsat T.L., Britt D.T. et al. (2015) Laboratory Measurements of Micrometeoroid Impacts into Solid Ice and Gas Ablation Targets. Fall AGU Meeting, San Francisco, CA. P44A-04
- A220 Macke R.J., Consolmagno G.J., Opeil C.P. and Britt D.T. (2015) Characterizing Asteroid Thermal Properties through the Laboratory Study of Meteorites. 47th DPS Meeting, Washington DC, 204.03.
- A221 Malina O., Kohout T., Tucek J., Filip J., Britt D., and Zboril R. (2015) Methodology of Space Weathering Simulation and Its Application on Olivine and Pyroxene Samples. 47th DPS Meeting, Washington DC, 213.13.
- A222 Kohout T., Malina O., Penttilä A., Kröger A., Britt D., Filip J., Muinonen K. and Zboril R. (2015) DAWN observations of Vesta versus lunar-type space weathering. 47th DPS Meeting, Washington DC, 212.13
- A223 Kohout T., Malina O., Penttilä A., Kröger A., Britt D., Filip J., Muinonen K. and Zboril R. (2016) Space weathering induced slope changes in pyroxene and howardite reflectance spectra. Lunar and Planetary Sci. Conf. XLVII, abstract 2042.
- A224 Fries M., Abell P., Brisset J., Britt D., Colwell J. et al. (2016) Strata-1: An International Space Station Experiment into Fundamental Regolith Properties in Microgravity. Lunar and Planetary Sci. Conf. XLVII, abstract 2799
- A225 Pohl L. and Britt D.T. (2016) Orbital Evolution and the Possibility of Thermal Dehydration of Asteroid 2008 EV5. Lunar and Planetary Sci. Conf. XLVII, abstract 2688
- A226 Macke R.J., Opeil C.P., Consolmagno G.J., and Britt D.T. (2016) Ordinary Chondrite Heat Capacities Below 350K. Lunar and Planetary Sci. Conf. XLVII, abstract 1221
- A227 Macke R.J., Kiefer W. S., Irving A. J and Britt D.T. (2016) Density and Porosity Measurements of Lunar and Martian Materials. Lunar and Planetary Sci. Conf. XLVII, abstract 1294
- A228 Kuehner S. M., Wittmann A., Korotev R. L., Carpenter P., Macke R. J., and Britt D.T. (2016) Petrologic, Chemical and Physical Characterization of Unique Lunar Vitric Regolith Breccia Northwest Africa 10404. Lunar and Planetary Sci. Conf. XLVII, abstract 2246
- A229 Fries M., Abell P., Brisset J., Britt D., Colwell J. et al. (2016) The Strata-1 Experiment on Fundamental Regolith Dynamics. MetSoc 2016 Abstract, #6547.

- A230 Demasi M., Britt D.T. and Kring D.A. (2016) What do Meteorite Falls Tell Us about the Strength of Asteroid Boulders? MetSoc 2016 Abstract, #6450.
- A231 Macke R.J., Kiefer W. S., Irving A.J and Britt D.T. (2016) Comprehensive Survey of Lunar and Martian Meteorite Physical Properties to Improve Interpretation of Spacecraft Gravity Data. MetSoc 2016 Abstract.
- A232 Macke R. J., Wiggins S. , Britt D. T., and Benedix G. K. (2016) Density, Porosity, and Magnetic Susceptibility of the Murrili Meteorite Recovered by the Desert Fireball Network. MetSoc 2016 Abstract.
- A233 Britt D. T., Metzger P., Covey S. and Wiggins S. (2016) UCF/DSI Asteroid Simulants. SSERVI Exploration Science Forum, July 2016
- A234 Britt D.T. (2016) Economics and Exploration: More Historical Perspective on the New Age of Exploration. SSERVI Exploration Science Forum, July 2016
- A235 Demasi M. and Britt D.T. (2016) What do Meteorite Falls Tell Us about the Strength of Asteroid Boulders? SSERVI Exploration Science Forum, July 2016
- A235 Britt D.T., Demasi M. and Kring D. (2016) What do Meteorite Falls Tell Us about the Strength of Asteroid Boulders? DPS annual meeting, October 2016
- A236 Pohl L. and Britt D.T. (2016) Volatile Survival on Near-Earth Asteroid 2008 EV5. DPS annual meeting, October 2016
- A237 Chambers W., Metzger P., Dove A., and Britt D.T. (2016) Simulating regolith ejecta due to gas impingement, DPS annual meeting, October 2016
- A238 Britt D.T. (2016) What We do Know about Asteroid Regoliths for Observations, Meteorites, and Modeling. ISSI Workshop on Cosmic Dust from the Lab to the Stars. November 2016.
- A239 Whizin A.D., Britt D.T., and 23 others (2017) The Strata-1 Microgravity Experiment on Small Body Regolith Dynamics. Lunar and Planetary Sci. Conf. XLVIII, abstract 3043
- A240 Pohl L. and Britt D.T. (2017) Temperature Dependent Thermal Expansion on Asteroids. Lunar and Planetary Sci. Conf. XLVIII, abstract 2642
- A241 Pohl L. and Britt D.T. (2017) Thermal Dependent Heat Conductivity and Capacity in Asteroid Thermal Calculations. Lunar and Planetary Sci. Conf. XLVIII, abstract 2820
- A242 Schultz C. and Britt D.T. (2017) Structural and Mechanical Properties of Asteroid Regolith Simulant. SSERVI Exploration Science Forum, July 2017
- A243 Britt D.T. (2017) The Strength Characteristics of Small Asteroids. SSERVI Exploration Science Forum, July 2017