

## CURRICULUM VITAE

### **Louise M. Prockter**

#### **Director, Lunar and Planetary Institute**

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#### **SUMMARY OF QUALIFICATIONS**

- Strong research and technical background in planetary science (icy satellites, Mercury, small bodies), NASA mission science development, operations, and management.
- Goal-oriented and highly organized decision maker, with over a decade of experience in developing and leading a diverse scientific, technical, and administrative staff.
- Proven strategic thinker with demonstrated experience in initiating and implementing projects of clear benefit to the organization.
- Subject-matter expert with many years' experience and leadership serving on National Academy of Science and NASA specialty panels.
- Proven record of winning funding from a variety of sources.

#### **EDUCATION**

##### **Brown University, Rhode Island**

Ph.D. Planetary Geology	2000
M.S. in Planetary Geology	1996

##### **Lancaster University, Lancaster, U.K.**

B.Sc. (Honors, 1st class) in Geophysics	1994
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#### **PROFESSIONAL EXPERIENCE**

##### **Universities Space Research Association, Columbia MD**

**Director, Lunar and Planetary Institute, Houston, TX** (Sep 2016 – present)

Responsible for directing the activities of ~80 scientific, technical, and administrative staff, some of whom are working remotely. Staff activities include scientific research, conference and meetings organization, education and public outreach, IT, contracts, and procurement.

##### **Johns Hopkins University Applied Physics Laboratory, Laurel, MD.**

**Assistant Branch Supervisor, Science Branch, Space Sector** (Jul 2013 – present)

Shared responsibility for the day-to-day operations of 175 scientific, technical, and administrative staff, including about 125 scientists and 45 engineers working in five groups (Planetary, Heliophysics, Earth Science, Space Defense, and Space Instrumentation) and using 23 laboratories. Duties include evaluation and staffing of ongoing projects, strategic planning, budget management including grants and contracts oversight, proposal evaluation, facilities management, hiring of new personnel, staff performance evaluation, mentoring, and collaboration with other APL departments and mission areas. Representation of the Science

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branch, Space Sector, and Laboratory to sponsors, congressional staff, and the general public. One successful initiative involved developing significantly closer ties with the John Hopkins University Earth and Planetary Science department, resulting in more joint student involvement and planetary science courses. Specific diversity activities include starting a networking group for women in the Space Sector, serving on APL's Women and Minority Advisory Council and acting as a director of the APL Hopkins Women's Network. Served as Branch Supervisor for a 4-month training rotation, Nov 2012 – Feb 2013.

### **Group Supervisor, Planetary Exploration Group** (Jan 2008 – Jun 2013)

Managed a thriving group of Ph.D. planetary scientists, strategically growing the group from 21 to 33 staff members while also increasing diversity. Responsibilities included ensuring adequate funding for staff and sufficient staffing for in-flight mission projects and studies in development, management of overhead budget, facilities management, strategic planning, liaison with sponsor (primarily NASA) and external organizations with respect to ongoing research and analysis as well as future projects, liaison with other APL space sector science and engineering groups, new business development, hiring of new employees, logistics of accommodating <17 Summer interns annually, career development, and mentoring.

### **Section Supervisor, Planetary Exploration Group** (2006 – 2008)

Lead a group of six planetary scientists. Duties included ensuring staff had adequate funding and career development opportunities, carrying out performance evaluations, and mentoring.

### **Research Scientist** (2001 – Aug 2016)

Basic research into the geomorphology and structural geology of icy satellites, small bodies, and Mercury.

### **Postdoctoral Research Fellow, Near Earth Asteroid Rendezvous (NEAR)** (1999 – 2001)

Performed daily calibration and validation of images from the NEAR Multi-Spectral Imager (MSI). Duties included selection of optimum imaging conditions and mosaic geometries, troubleshooting, and close interaction science and mission operations team members.

### **Research Assistant, Galileo/Galileo Extended Mission (GEM)** (1996-1999)

Extensive involvement in planning for the Solid State Imager (SSI) while in graduate school, with specific responsibility for overseeing the imaging plans for two Galileo Europa flybys.

## **Mission Experience**

### **Co-Investigator, Europa Imaging System (EIS), Europa Clipper mission** (Sep 2016- present)

Assisting with mission design, science planning, attending science team meetings.

### **Deputy Project Scientist, Europa Clipper mission** (Jun 2015 – Aug 2016)

Definition of scientific goals, objectives, and mission success criteria, presentations at national and international science conferences, congressional and sponsor presentations, preparation of reports for NASA. Oversight of Investigation Scientists, assistance with instrument development and accommodation studies, concept of operations development and evaluation, definition of rules and processes for science publications, team building, responsibility for liaising with ESA colleagues, oversight of education and outreach efforts.

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### **Deputy Study Scientist, Europa Jupiter System Mission** (May 2010 – Jun 2015)

Worked with the study Project Scientist to investigate orbiter, flyby, and lander concepts for a future NASA flagship mission. Included definition of scientific goals and objectives, preparation of reports for NASA, presentations at national and international science conferences to promote the mission, definition and implementation of workshops and town hall meetings, congressional and sponsor presentations. Liaised with European counterparts on the Jupiter Ganymede Orbiter mission, helping them to define their requirements and investigating synergistic science opportunities between our two missions. Served as chair of the Europa Science Definition Team from 2012-2013, leading the science analysis needed to support the Project's successful new start.

### **Deputy Project Scientist and Co-Investigator, MESSENGER mission** (Nov 2009 – Jun 2013)

Ensured science objectives of NASA's in-flight mission to Mercury were met, by working with extensive and diverse team of scientific and technical staff both within APL and on the external science team. Duties included liaising with Principal Investigator and Project Manager to plan and run science team meetings, reporting to sponsor on science activities during monthly and quarterly management reviews, ensuring specific data products were archived on time, writing extended mission proposals, giving presentations highlighting mission science results, education and public outreach efforts, helping with PDS deliveries, and ensuring that the science team was staffed effectively and worked together harmoniously. Responsible for the science section of the successful \$30M second extended mission proposal to NASA.

### **Instrument Scientist, MESSENGER Mercury Dual Imaging System** (2002 – 2009)

Worked with a team of mission operations staff, engineers, and scientists to ensure the Mercury Dual Imaging System (MDIS) on the MESSENGER spacecraft met and exceeded its proposed science goals. Duties included design negotiations with instrument engineers, planning of software and archiving implementation, creation of ground-based and in-flight calibration plans and implementation, creation and implementation of mission sequence plans throughout cruise and Mercury orbit phase, data analysis, and public outreach.

## HONORS AND AWARDS

- Geological Society of Washington Bradley prize for best formal paper, 2015.
- Ron Greeley Award for Distinguished Service, Geological Society of America Planetary Geology Division (2014)
- Elected a Fellow of the Geological Society of America (2011)
- Elected to APL Principal Professional Staff (2008) (*APL equivalent of tenure*)
- NASA Group Achievement award, MESSENGER mission (2008)
- NASA Group Achievement award, JIMO Science Definition Team (2006)
- Outstanding Special Publication award, Applied Physics Laboratory (2005)
- NASA Group Achievement award, NEAR Mission Team (2002)
- Award for outstanding first paper, Applied Physics Laboratory (2001)
- Elected full member: Society of Sigma Xi (1999)
- Amelia Earhart Award: Zonta International Women's Organization Fellowship (1998-1999)
- Lancaster University: Prize for best overall performance in Geophysics (1994)

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### PROFESSIONAL SOCIETY MEMBERSHIPS

- American Geophysical Union (1993 - present)
- Division of Planetary Sciences, American Astronomical Society (1997 - present)
- Geological Society of America (1997 - present)
- Sigma Xi (1999 - present)
- Women in Aerospace (2004 - present)

### SELECTED PROFESSIONAL SERVICE

- Member, NRC Space Studies Board, Nov 2014 – June 2016.
- Editorial Board, *Earth and Planetary Science Letters*, Nov 2013 – present.
- Editor, *Icarus*, 2005 – 2009; Editorial Board 2009 - present.
- Member, or Co-Chair of numerous Europa and related studies, including the Jupiter Icy Moons Orbiter Science Definition Team (SDT) (2003-2005), Europa Explorer SDT (2007), Jupiter System Orbiter SDT (2007), Europa Jupiter System Mission SDT (2008–2011), Europa Habitability Mission SDT (member 2011-2012, Chair 2012–2015).
- Convener, “Instruments for Planetary Missions” workshop, GSFC, Oct 2012 - 2013.
- Panelist, AGU Science Policy Conference in Washington DC, 2013.
- Member, NASA Planetary Science Subcommittee, Oct 2010 – Apr 2013.
- LPSC Program committee member, 2009, 2012.
- Panelist: Women in Science event, LPSC, 2012.
- Guest Editor, Mercury special issue, *Planetary Space Sciences*, 2011.
- NASA Press conference panelist, 1998, 2008, and 2011.
- Member, Satellites panel, NRC Planetary Decadal Survey, July 2009 to Nov 2010.
- Chair: Geological Society of America Planetary Geology Division, 2008-2009.
- Guest Editor, “MESSENGER at Mercury”, *Earth and Planetary Sciences* special issue, 2009.
- Member, National Academies Space Studies Board Committee for Planetary and Lunar Exploration (COMPLEX), 2004 –2009.
- Guest Editor, “Spacecraft Reconnaissance of Asteroid and Comet Interiors”, Special issue, *Meteoritics & Planetary Science*, 2008.
- Chair, AAS Division of Planetary Sciences (DPS) Federal Relations Subcommittee, 2008.
- Secretary/Treasurer, 2nd Vice Chair, Vice Chair, Planetary Geology Division, Geological Society of America, 2004 – 2008.
- Planetary Sciences Editor, *EOS*, 2005 – 2006.
- Member: National Academies Roadmap Review Committee – Solar System, 2005.
- Member: National Academies Solar System Exploration Panel for the Committee on Opportunities for Space Science Enabled by Nuclear Power and Propulsion, 2004 – 2005.
- Co-convener and program committee member, “The Nature of Europa’s Ice Shell – Past, Present and Future” workshop, Lunar and Planetary Institute, February 2004.

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- Panel Chair, Group Chief or member of numerous NASA review panels since 2000, including the 2015 PDS Senior Review (Chair), PDART, Habitable Worlds, Outer Planets Research, MESSENGER Participating Scientist, Exobiology, PGG, OPR, CDAP.
- Convener or co-convener of numerous sessions at conferences including AGU and LPSC.
- Reviewer for numerous manuscripts from the journals *Nature*, *Icarus*, *Planetary and Space Science*, *Space Science Reviews*, *Astrobiology*, *Geophysics Research Letters*, *Meteoritics*, and *Journal of Geophysical Research - Planets* (1999 – present).
- Numerous press interviews for print, radio, and online publications.

### INVITED TALKS:

- Fermilab, Chicago, colloquium, February 2016.
- Geological Society of Washington, DC, invited talk, November 2015.
- JUICE Science team meeting, ESTEC, invited talk, September 2015.
- Open University, Milton Keynes, UK, colloquium, September 2015.
- Goddard Space Science Symposium, colloquium, 2014.
- Planetary Society, Arlington, VA, public lecture, 2014.
- European Geophysical Union, Vienna, invited talk, 2012.
- International Planetary Probe Workshop, Toulouse, invited talk, 2012
- Speaker, Congressional luncheon organized by the Planetary Society on “The future of planetary science” (the other two speakers were Bill Nye and Neil DeGrasse Tyson), 2012.
- University of Colorado (LASP), Boulder, colloquium, 2012.
- Asian Oceanographic Geophysical Society conference, Taipei, invited talk, 2011.
- University of Idaho, colloquium, 2010.
- Pomona College, colloquium, 2010.
- Galileo’s Medicean Moons workshop, Padua, invited talk, 2010.
- 1st Annual Symposium of Planetary Exploration, Chiba, Japan, invited talk, 2009.
- Asian Oceanographic Geophysical Society conference, Singapore, two invited talks, 2009.
- Speaker at MESSENGER second Flyby public and press event, APL, 2009.
- Europa Lander workshop, Moscow, Russia, invited talk, 2009.
- Brown-Vernadsky Symposium, Houston, invited talk, 2009.
- Johns Hopkins University Earth and Planetary Sciences, invited seminar, 2008.
- Catholic University Physics Department, colloquium, Washington DC. 2008.
- Jet Propulsion Laboratory, Pasadena, CA, invited science seminar, 2008.

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### PUBLICATIONS

(Lead author or coauthor of ~150 conference abstracts, list available on request.)

**Prockter L.M.**, M.J. Kinczyk, P.K. Byrne, B.W. Denevi, J.W. Head III, C.I. Fassett, J.L. Whitten, R.J. Thomas, D.L. Buczkowski, B.M. Hynek, L.R. Ostrach, D.T. Blewett, C.M. Ernst, The first global geological map of Mercury, to be submitted to *Icarus*, February 2016.

**Prockter L.M.**, J.H. Shirley, J.B. Dalton, III, and L. Kamp, Surface composition of pull-apart bands in Argadnel Regio, Europa: Evidence of localized cryovolcanic resurfacing during basin formation, *Icarus*, 285, 27-42, 2016.

Kattenhorn S.A. and **L.M. Prockter**, Recycling of Europa's icy crust at convergent margins: a case for ice subduction zones, *Nature Geoscience*, 7, 762–767, 2014.

**Prockter, L. M.**, & Pappalardo, R. T. (2014). Europa. In T. Spohn, D. Breuer, & T. V. Johnson (Eds.), *Encyclopedia of the Solar System*, Elsevier (pp. 793–811).

Roberts, J.H., O.S. Barnouin, E.G. Kahn, and **L.M. Prockter**, Observational bias and the apparent distribution of ponds on Eros, *Icarus*, 241, 160–164, 2014.

Roberts, J.H., E.G. Kahn, O.S. Barnouin, C.M. Ernst, **L.M. Prockter** and R.W. Gaskell, Origin and flatness of ponds on asteroid 433 Eros, *Meteoritics & Plan. Sci.* 49, 1735–1748 doi: 10.1111/maps.12348, 2014.

McNutt, R.L., S. C. Solomon, P. D. Bedini, B. J. Anderson, D. T. Blewett, L. G. Evans, R. E. Gold, S. M. Krimigis, S. L. Murchie, L. R. Nittler, R. J. Phillips, **L. M. Prockter**, J. A. Slavin, M. T. Zuber, E. J. Finnegan, D. G. Grant, and the MESSENGER Team. MESSENGER at Mercury: Early Orbital Operations, *Acta Astronautica*, 93, 509–515, 2014.

Pappalardo, R.T., and twenty others including **L.M. Prockter**, Science Potential from a Europa Lander *Astrobiology*, 13(8): 740-773. doi:10.1089/ast.2013.1003, 2013.

Collins G.C., G. W. Patterson, J.W. Head, R.T. Pappalardo, **L.M. Prockter**, B.K. Lucchitta, and J.P. Kay, Global Geologic Map of Ganymede, USGS Scientific Investigations Map 3237, 2013.

Quick, L.C., O.S. Barnouin, **L.M. Prockter**, and G.W. Patterson, Constraints on the Detection of Cryovolcanic Plumes on Europa, *Planetary Space Science*, 86, 1-9, 2013.

Blair, D. M., A. M. Freed, P. K. Byrne, C. Klimczak, **L. M. Prockter**, C. M. Ernst, S. C. Solomon, H. J. Melosh, and M. T. Zuber, The origin of graben and ridges in Rachmaninoff, Raditladi, and Mozart basins, Mercury, *J. Geophys Res.* 117, doi:10.1029/2012JE004119, 2013.

Dombard, A.J., G.W. Patterson, A.P. Lederer, and **L.M. Prockter**, Flanking Fractures and the Formation of Double Ridges on Europa, *Icarus*, 223, 74-81, 2013.

Dalton, J.B., III, T. Cassidy, C. Paranicas, J.H. Shirley, **L.M. Prockter**, L.W. Kamp, Exogenic controls on sulfuric acid hydrate production at the surface of Europa, *Planetary and Space Science*, <http://dx.doi.org/10/1016/j.pss.2012.05.013>, 2012.

Neish, C.L., G.W. Patterson, and **L.M. Prockter**, Observational constraints on the identification and distribution of chaotic terrain on icy satellites, *Icarus*, 221, 72-79, 2012.

Patterson G.W., Paranicas C., **L.M. Prockter**, Characterizing electron bombardment of Europa's surface by location and depth, *Icarus*, 220, 286–290, 2012.

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- Solomon, S.C., R.L. McNutt Jr., **L.M. Prockter**, Mercury after the MESSENGER flybys: An introduction to the special issue of Planetary and Space Science, *Planet. Space Sci.*, 59, 1827-182, 2011.
- Ivanov, M.A., **L.M. Prockter** and B. Dalton, Landforms of Europa and selection of landing sites, *Adv. Space Res.*, 48, 661-677, 2011.
- Prockter L.M.**, K. Hibbard, T. Magner and J. Boldt, Exploring Europa: Science from the Jupiter Europa Orbiter – NASA’s next Outer Planet Flagship Mission, *APL Technical Digest*, 30, 72-84, 2011.
- Bedini, P.D. and **L.M. Prockter** The quest to explore Mercury, *The Planetary Report*, 30 (6), pp. 6-11, November/December 2010.
- Prockter L.M.**, C.M. Ernst, B.W. Denevi, C.R. Chapman, J.W. Head III, C.I. Fassett, W.J. Merline, S.C. Solomon, T.R. Watters, R. G. Strom, G. Cremonese, S. Marchi, M. Massironi, Evidence for young volcanism on Mercury from the third MESSENGER flyby, *Science*, 329, pp. 668-671, 2010.
- Prockter L.M.** and P.D. Bedini, The History of Mercury Exploration, Galileo's Medicean Moons: their impact on 400 years of discovery, *Proc. LAU Symposium 269*, 119-132, 2010.
- Prockter L.M.**, R.M.C. Lopes, B. Giese, R. Jaumann, R.D. Lorenz, R.T. Pappalardo, G.W. Patterson, P.C. Thomas, E.P. Turtle, R.J. Wagner, Characteristics of Icy Surfaces, *Space Sci. Rev.*, DOI 10.1007/s11214-010-9649-8, 2010.
- Patterson G. W., G. C. Collins, J. W. Head, R. T. Pappalardo, **L.M. Prockter**, B. K. Lucchitta, and J. P. Kay, Global geological mapping of Ganymede, *Icarus*, 207, 845-867, 2010.
- Dombard A.J., O. S. Barnouin, **L.M. Prockter** and P. C. Thomas, Boulders and ponds on the Asteroid 433 Eros, *Icarus*, doi:10.1016/j.icarus.2010.07.006, 2010.
- Shirley J.H., J.B. Dalton, **L.M. Prockter** and L.W. Kamp, Europa’s ridged plains and smooth low albedo plains: Distinctive compositions and compositional gradients at the leading side–trailing side boundary, *Icarus*, doi:10.1016/j.icarus.2010.06.018, 2010.
- Prockter L.M.** and G.W. Patterson, Europa’s Ridges and Bands, in *Europa*, Eds: Pappalardo, McKinnon and Khurana, 2009, Univ. Arizona Press, 727 pp.
- Head, J. W., S. L. Murchie, **L.M. Prockter**, S. C. Solomon, C. R. Chapman, R. G. Strom, T. R. Watters, D. T. Blewett, J. J. Gillis-Davis, C. I. Fassett, J. L. Dickson, G. A. Morgan and L. Kerber, Volcanism on Mercury: Evidence from the first MESSENGER flyby for extrusive and explosive activity and the volcanic origin of plains. *Earth and Planetary Science Letters*, 285 (3-4): 227-242, 2009.
- Head, J. W., S. L. Murchie, **L.M. Prockter**, S. C. Solomon, R. G. Strom, C. R. Chapman, T. R. Watters, D. T. Blewett, J. J. Gillis-Davis, C. I. Fassett, J. L. Dickson, D. M. Hurwitz and L. R. Ostrach. Evidence of intrusive activity on Mercury from the first MESSENGER flyby. *Earth and Planetary Science Letters* 285 (3-4): 251-262, 2009.
- Solomon, S. C., **L. M. Prockter**, and D.T. Blewett, Editorial: MESSENGER at Mercury: An Introduction to the Special Issue of Earth and Planetary Science Letters, *Earth and Planet. Sci. Lett.*, *Earth and Planetary Science Letters* 285, 2009.
- Murchie, S. L., T.R. Watters, M. S. Robinson, B. W. Denevi, J. W. Head, R. G. Strom, C. R. Chapman, S. C. Solomon, W. E. McClintock, **L.M. Prockter**, D. L. Domingue, D. T. Blewett, S.

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- E. Hawkins, III, A. P. Harch, R. M. Vaughan, and the MESSENGER Team, Geology of the Caloris Basin, Mercury: A New View from MESSENGER, *Science*, 321, 73-75, 2008.
- Buczowski, D.L., O.S. Barnouin, and **L.M. Prockter**, 433 Eros lineaments: Global mapping and analysis, *Icarus*, 193, 39-52, 2008.
- Head, J. W., S. L. Murchie, **L.M. Prockter**, M. S. Robinson, S. C. Solomon, R. G. Strom, C. R. Chapman, T. R. Watters, W. E. McClintock, D. T. Blewett, J. J. Gillis-Davis, and the MESSENGER Team. Volcanism on Mercury: Evidence from the First MESSENGER Flyby, *Science*, 321, 69-71 2008.
- Robinson, M. S., S.L. Murchie, D.T. Blewett, D.L. Domingue, S.E. Hawkins, G.M. Holsclaw, W.E. McClintock, T.J. McCoy, R.L. McNutt, **L.M. Prockter**, S.C. Solomon, T.R. Watters, Reflectance and Color Variations on Mercury: Indicators of Compositional Heterogeneity, *Science*, 321, 66-68, 2008.
- Asphaug, E. and **L. Prockter**, Editorial: Spacecraft Reconnaissance of Asteroid and Comet Interiors, *Meteoritics & Planetary Science*, Issue 6, p.995-996, 2008.
- Prockter L.M.** and R.T Pappalardo, Europa, Chapter 23, *Encyclopedia of the Solar System*, Eds. McFadden, Weissman and Johnson, Academic Press, 2007.
- Prockter L.M.** and P.M. Schenk, The origin and evolution of Castalia Macula, Europa, an anomalously young depression, *Icarus*, 177, 305-326, 2005.
- Prockter L.M.**, Shades of Titan, *Nature*, 435 749-750, 2005.
- Prockter, L.M.**, A Shear heating origin for ridges on Triton, *Geophys. Res. Lett.*, 32, L14202, doi:10.1029/2005GL022832, 2005.
- Prockter, L.M.**, Ice in the Solar System, *Johns Hopkins APL Technical Digest*, 26, 2, 175-188, 2005.
- Nimmo, F., **L. Prockter**, and P. Schenk, Europa's icy shell: Past and present state, and future exploration, *Icarus*, 177, 293-296, 2005.
- Prockter L.M.**, Chapter 10: Ice Volcanism on Jupiter's Moons and Beyond, in *Volcanic Worlds*, eds. R. Lopes and T. Gregg, 2004, Springer Praxis, 256 p. ISBN: 3-540-00431-9.
- Schenk, P.M., F. Nimmo and **L. Prockter**, Europa's Icy Shell: A Bridge Between its Surface and Ocean, *Eos*, 85, 311-312, 2004.
- Pappalardo, R., G. Collins, J. Head, P. Helfenstein, T. McCord, **L. Prockter**, J. Moore, P. Schenk, J. Spencer, "Ch. 16: Ganymede" in *Jupiter: The Planet, Satellites and Magnetosphere*, eds. F. Bagnell, T.E. Dowling, W.B. McKinnon, Cambridge University Press, 2004, 731 pp. ISBN: 0521818087.
- Prockter L.M.**, S. Murchie, A. Cheng, S. Krimigis, R. Farquhar, A. Santo, and J. Trombka, The NEAR Shoemaker Mission to Asteroid 433 Eros, *Acta Astronautica*, 51, 491 – 500, 2002.
- Prockter L.M.**, P.C. Thomas, M. Robinson, J. Joseph, A. Milne, B. Bussey, J. Veverka, A. Cheng. Surface expressions of Structural features on Eros, *Icarus*, 75-93, 2002.
- Thomas, P. C.; **L. Prockter**, M. Robinson, J. Joseph, J. Veverka. Global structure of asteroid 433 Eros, *Geophys. Res. Lett.*, 29, 10.1029/2001GL014599, 2002.
- Prockter L.M.**, J.W. Head III, R.T. Pappalardo, J.G. Patel, R.J. Sullivan, A.E. Clifton, B. Giese, R. Wagner, G. Neukum, Morphology of European bands at high resolution: A mid-ocean ridge-type rift mechanism, *J. Geophys. Res.*, 107, 10.1029/ 2000JE001458, 2002.



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- Prockter L.M.** and M.S. Robinson. Landscape of an asteroid, in *Asteroid Rendezvous: NEAR Shoemaker's Adventures at Eros*, J. Bell and J. Mitton (eds.), Camb. Univ. Press, NY, 101-108, 2002.
- Prockter L.M.**, Icing Ganymede, *Nature*, 410, 25-26, 2001.
- Prockter, L.M.**, P.H. Figueredo, R. Pappalardo, J.W. Head, G. Collins, Geology and mapping of dark terrain on Ganymede and implications for grooved terrain formation *J. Geophys. Res.*, 105, 22,519-22,540, 2000.
- Prockter L.M.** and R.T. Pappalardo, Folds on Europa: Implications for crustal cycling and accommodation of extension, *Science*, 289, 941-943, 2000.
- Greeley, R., P.H. Figueredo, D. Williams, F. Chuang, J. Klemaszewski, S. Kadel, **L. Prockter**, R. Pappalardo, J.W. Head, G. Collins, N. Spaun, R. Sullivan, J. Moore, D. Senske, B. Tufts, M.J.S. Belton and K.Tanaka. Geologic mapping of Europa, *J. Geophys. Res.*, 105, 22,559-22,578, 2000.
- Prockter L.M.**, R.T. Pappalardo, J.W. Head. Strike-slip duplexing on Jupiter's icy moon, Europa, *J. Geophys. Res.*, 105, 9483-9488, 2000.
- Fagents S.A., R. Greeley, R.J. Sullivan, R.T. Pappalardo, **L.M. Prockter**. Cryomagmatic mechanisms for the formation of Rhadamanthys Linea, triple band margins, and other low albedo features on Europa. *Icarus*, 144, 54-88, 2000.
- Prockter L.M.**, A. Antman, R.T. Pappalardo, J.W. Head, G.C. Collins and the Galileo SSI Team. Europa: Stratigraphy and geological history of the anti-Jovian region from Galileo E14 SSI data, *Jour. Geophys. Res.*, 104, 16531-16540, 1999.
- Pappalardo R.T., M.J.S. Belton, H.H. Breneman, M.H. Carr, C.R. Chapman, G.C. Collins, T. Denk, S. Fagents, P.E. Geissler, B. Giese, R. Greeley, R. Greenberg, J.W. Head, P. Helfenstein, G. Hoppa, S.D. Kadel, K.P. Klaasen, J.E. Klemaszewski, K. Magee, A.S. McEwen, J.M. Moore, W.B. Moore, G. Neukum, C.B. Phillips, **L.M. Prockter**, G. Schubert, D.A. Senske, R.J. Sullivan, B.R. Tufts, E.P. Turtle, R. Wagner, and K.K. Williams. Does Europa have a subsurface ocean? Evaluation of the geological evidence, *Jour. Geophys. Res.*, 104, 24015-24056, 1999.
- Spaun N.A., J.W. Head, G.C. Collins, **L.M. Prockter** and R.T. Pappalardo. Conamara Chaos Region, Europa: Reconstruction of mobile polygonal ice blocks. *Geophys. Res. Lett.* **25**, 23, 4277 – 4280, 1999.
- Prockter L.M.**, J.W. Head, R.T. Pappalardo, D.A. Senske, G. Neukum, R. Wagner, U. Wolf, J. Oberst, B. Giese, J.M. Moore, C.R. Chapman, P. Helfenstein, R. Greeley, H.H. Breneman and M.J.S. Belton. Dark terrain on Ganymede: Geological mapping and interpretation of Galileo Regio at high resolution, *Icarus*, 135, 317 – 344, 1998.

### Recent conference abstracts:

(Lead author or coauthor of ~150 conference abstracts, list available on request.)

- Quick, L.C., S.A. Fagents, L.S. Glaze, S.M. Baloga, T. A. Hurford, and **L.M. Prockter**. A volume flux approach to cryolava dome emplacement on Europa. *Lunar Plan. Sci.*, 48, abstract **XXXX**, 2017.

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Kinzyk, M.J., H.C.M. Susorney, **L.M. Prockter**, P.K. Byrne, O.S. Barnouin, C.M. Ernst, D.R. Bohnenstiehl, 2017. Roughness of impact crater ejecta on Mercury as a proxy for degradation. Lunar Plan. Sci., 48, abstract **XXXX**.