BENJAMIN PAUL WEISS

Department of Earth, Atmospheric and Planetary Sciences bpweiss@mit.edu
Massachusetts Institute of Technology (MIT) 54-622
77 Massachusetts Avenue (Phone) 617-324-0224
Cambridge, MA 02139 (Fax) 617-258-0620

Homepage: http://benweiss.mit.edu/
Google Scholar page: https://scholar.google.com/citations?user=E5z9ToMAAAAJ&hl=en

Research Interests: I study the formation, evolution, and history of planets and small bodies, with a particular focus on paleomagnetism and geomagnetism, planetary geophysics, meteoritics, planet formation, and planetary paleoclimate and habitability. I conduct laboratory analyses of planetary samples and in situ spacecraft exploration of solar system bodies to understand the history of planetary geophysical and geochemical processes.

Key Research Discoveries: (a) Demonstrated that the Moon generated a long-lived core dynamo; (b) demonstrated the existence of a nebular magnetic field like that predicted to have played a central role in planet formation; (c) discovered that some asteroids generated core dynamos; (d) developed magnetic microscopy as a new tool for paleomagnetism; (e) provided evidence for the existence of the ancient Martian dynamo; (f) provided experimental evidence that some meteorites were not heat-sterilized during their transfer from Mars to Earth.

Education

California Institute of Technology, Pasadena, CA	
Ph.D., Planetary Science and Geology	2003
M.S., Planetary Science and Geology	2001
Amherst College, Amherst, MA	1991-1995
B. A. Physics, magna cum laude	1995

Professional Experience

Professor of Planetary Sciences, MIT	2014-
Visiting Miller Professor, U. C. Berkeley	2014
Associate Professor of Planetary Sciences, MIT	2009-2014
Visiting Professor, Institut de Physique du Globe de Paris	2009
Victor P. Starr Assistant Professor of Planetary Sciences, MIT	2006-2009
Assistant Professor of Planetary Sciences, MIT	2004-2006
Visiting Assistant Professor, MIT	2003-2004
Scientist, California Institute of Technology	2003-2004
Research Assistant, California Institute of Technology	1997-2003
Princeton-In-Asia International Fellow, Temasek Polytechnic, Singapore	1995-1997

Honors and Awards

Visiting Miller Professor Award, U. C. Berkeley, 2014
Asteroid 8069 Benweiss (http://ssd.jpl.nasa.gov/sbdb.cgi?sstr=Benweiss), named 2012

James B. Macelwane Medal, American Geophysical Union (AGU), 2009
Fellow, AGU, 2009
Invited speaker and participant, Kavli and Beckman Frontiers of Science Symposia, U.S. National Academy of Sciences, 2002, 2003, 2004, and 2008
Charles E. Reed Faculty Initiatives Fund Award, 2007
Victor P. Starr Career Development Chair, 2006
Runner Up, Planetary Sciences Best Student Paper Award 2002, Meteoritical Society and the Geological Society of America Division of Planetary Geology, 2003
Milton and Francis Clauser Doctoral Prize, 2003
Everhart Distinguished Graduate Student Lecturer Award, 2002
Outstanding Student Paper Award, Geomagnetism and Paleomagnetism Section, AGU Fall Meeting, 2000
Princeton-in-Asia International Fellow, 1995-1996
Barry M. Goldwater Scholar, 1994-1995
Magna cum laude, Amherst College, 1995
Elected to Sigma Xi, 1995
Winner, Amherst College Great Minds Challenge, 1993
Bausch & Lomb Science Award, 1987
Selected as youngest Amateur Astronomer Principal Investigator (PI) on Hubble Space Telescope (HST), 1987

MIT Service and Membership

Chair, Program in Planetary Sciences, MIT Department of Earth, Atmospheric and Planetary Sciences (EAPS), 2015-
MIT NASA Engagement Group, 2009-
Space Committee, Department of EAPS, 2012-
Chair, geophysics and geochemistry faculty search committee, 2018-2019
EAPS Distinguished Postdoctoral Fellowship committee, 2018-2019
Faculty, MIT/Woods Hole Oceanographic Institute Joint Program, 2011-
Deputy Principal Investigator, NASA Lunar Science Institute node at MIT, 2009-2013; NASA Solar System Exploration Research Virtual Institute, 2014-2018
Planetary science faculty search committee, 2017-2018
Co-organizer, EAPS Strategic Planning evening faculty meetings, 2017
Task Force on EAPS Undergraduate Majors, 2016
EAPS Renovations Idea Group, 2016
Chair, Department Lecture Series committee, 2013-2014
Geology faculty search committee, 2006-2007
Chair, Program in Geology, Geochemistry, and Geobiology, Department of EAPS, 2009-2010, 2012-2014
EAPS Department Head search committee 2011-2012
Crosby Fund committee, Department of EAPS, 2009-2018
Chair, EAPS Department Lecture Series committee, 2013-2014
Lecture, Dean of Science Advisory Committee, 2013
Frontiers Lecture, MIT Club of New York, Hayden Planetarium, New York, NY, April 2013
Planetary science faculty search committee, 2005-2006

External Service and Outreach Activities

Small Bodies Panel, Planetary Science and Astrobiology Decadal Survey 2023-2032, National Academy of Sciences, 2020-

Outside expert consultant for Mars sample return, paleomagnetism sample quality criteria, 2014-2020

Scientific Organizing Committee, session on Mars Sample Return (B4.3), 43rd COSPAR Assembly, Sidney, Australia, 2020-2021

Honors Committee, AGU Planetary Sciences Section, 2017-2019

International Mars Sample Return Objectives and Samples Team (iMOST), 2017-2018

Returned Sample Science Board, Mars 2020 rover mission, 2015-2018

Outside expert consultant, Lunar Curation Task Force Report, 2014-2015

Scientific Organizing Committee, Workshop on Planetesimals, Washington, DC, October 2013

Scientific Organizing Committee, *Asteroids IV*, 2013-2014

Agouron Institute Scientific Drilling Project, Pilbara Craton, 2012-2019

Convener, "Planetary Magnetism and Paleomagnetism" sessions, AGU Fall Meeting, San Francisco, CA, December, 2001, 2009-2017

American Geophysical Union Macelwane Medal Committee, 2013-2014

Rapporteur, Ph.D. thesis examination of Cécile Cournède, Université Paul Cézanne Aix-Marseille III, Aix-en-Provence, France, 2013

Research Advisory Committee, Institute of Rock Magnetism, University of Minnesota, Minneapolis, MN, 2010-2015

Science for the Public Lecture Series, Belmont, MA, 2012

Coauthor, "Determining the origins of lunar remanent crustal magnetism" and "Mars' ancient dynamo and crustal remanent magnetism" White Papers for Planetary Science Decadal Survey 2013-2022, 2012

Moderator, Space Science and Technology Breakout Session, Skolkovo Institute for Science and Technology Research Center Planning Meeting, Cambridge, MA, December, 2011

Outside expert consultant for "MEPAG E2E-iSAG (2011) Planning for Mars Returned Sample Science: Final report of the MSR End-to-End International Science Analysis Group (E2E-iSAG)", 2011

Advisory Board, *Earth and Planetary Science Letters*, 2010-2011

Convener, "Evolution and Exploration of Asteroids", AGU Fall Meeting, San Francisco, CA, December, 2011

Faculty Participant, MIT Women in Aerospace Symposium, 2009

Outside expert consultant for "MEPAG MRR-SAG (2009) Mars Astrobiology Explorer-Cacher (MAX-C): A Potential Rover Mission for 2018: Final Report of the Mars Mid-Range Rover Science Analysis Group (MRR-SAG)", 2009

Examinateur, Ph.D. thesis of Clément Suavet, Université Paul Cézanne Aix-Marseille III, Aix-en-Provence, France, 2009

Session Co-leader, Workshop on Quantifying Martian Stratigraphy: Chronology, Composition, and Morphology, Keck Institute for Space Studies, Caltech, Los Angeles, CA, 2009

Outside expert consultant for "MEPAG Next Decade Science Analysis Group (ND-SAG), Science Priorities for Mars Sample Return", 2008

Rapporteur, Ph.D. thesis examination of Natalia Bezaeva, Université Paul Cézanne Aix-Marseille III, Aix-en-Provence, France, 2008

Science Definition Team, NASA International Lunar Network, 2008

Chair, "Achondrites", Lunar and Planetary Science Conference, Houston, TX, 2008

External Examiner, Ph.D. thesis of Michiel de Kock, University of Johannesburg, Johannesburg, South Africa, 2007

Member, NASA Astrobiology Drilling Project, Pilbara Craton, Western Australia, 2003-2004

"Rocks from Mars! Rocks from the Moon!", Presentation, Cambridge Science Festival, Cambridge, MA, 2007

"Moon Rocks!", Presentation, MITAC Space Odyssey Ball, Cambridge, MA, 2007

Convener, "New Developments in Magnetic Instrumentation, Data Acquisition, and Processing", American Geophysical Union Spring Meeting, Washington, DC, May, 2002

Member, Mars Community Panel for National Research Council Decadal Study on Planetary Exploration: 2001

Convener, "Planetary Paleomagnetism", American Geophysical Union Fall Meeting, San Francisco, CA, December, 2001

Chair, "Astrobiology Instruments, Methods, and Missions", SPIE 46th International Symposium on Optical Science and Technology, San Diego, CA, July, 2001

Panelist, The Planetary Society's Children's Press Conference, Pasadena, CA, October, 2000

Session Chair, Caltech Summer Undergraduate Research Fellowship Seminar Day, Pasadena, CA, October, 2000

Chair, "Astrobiology: Meteorites", 31st Lunar and Planetary Science Conference, Houston, TX, March, 2000

External reviewer and review panel member, numerous NSF, NASA, NSF, and international funding agencies

Referee, *Earth and Planetary Science Letters, Eos Transactions of the AGU, Geochemistry Geophysics Geosystems, Geochimica et Cosmochimica Acta, Geology, Geological Society of America Special Papers, Geophysical Research Letters, Journal of Geophysical Research, Meteoritics and Planetary Science, Nature, Nature Geoscience, Physics of the Earth and Planetary Interiors, Science, Science Advances*

Member, American Geophysical Union, Meteoritical Society, and American Association for Advancement of Science

Undergraduate Students Supervised in Research

Allison Couch (MIT), Fall 2020

Vittorio Colicci (MIT), Summer 2020

Mariia Smyk (MIT), Summer 2020

Jose Lavariega (MIT), Spring 2020

Hannah Ledford (MIT), Summer 2019, Fall 2020, Spring 2020

Elise Clavé (Institut Supérieur de l'Aéronautique et de l'Espace), Spring-Summer 2019

Mary Murray (U. Cambridge), Summer 2019

Jade Fischer (MIT), Spring 2019

Fuming Chang (USTC), Summer 2018

Charlotte Minsky (MIT), Fall 2016, IAP 2017, and Spring 2017

Brenna Getzin (Smith), Summer 2016, Summer 2017

Jacob Abraham (Caltech), Summer 2016
Preksha Naik (MIT), Spring 2016
Jianjiang Liu [University of Science and Technology, China (USTC)], Summer 2015
Zhiyuan Cai (USTC), Summer 2015
Isabella Sanders (MIT), Spring 2014, Fall 2014, Spring 2015, Fall 2015, IAP 2016, Spring 2016
Brynna Downey (MIT), Summer 2014, Fall 2014, Spring 2015, Fall 2015
Sebastian Fischer (MIT), Fall 2011, Spring 2012, Fall 2012, Spring 2012, Fall 2013, Spring 2013, Fall 2013, Spring 2014, Fall 2014, Spring 2015
Elizabeth Bailey, Summer 2013
Jessica Fujimori, Fall 2013
Hao-Yu Derek Chang, Summer 2013
Molly Kosiarek, Summer 2013
Melih Ucer, Summer 2013
Laura McKnight, Summer 2013
Hollie O'Brien, Summer 2013
Melody Liu, Summer 2013
Hongze Chen (USTC, China), Summer 2013
Qinsu Yu (MIT), Fall 2011, Spring 2012
Cong Zhao (USTC, China), Summer 2012
Rachel Bowens-Rubins (MIT), Summer 2010, Fall 2010
Sean Faulk (MIT), Spring 2010
Benjamin Burchfiel (U. Wisconsin, Madison), Summer 2009, Summer 2010
Joseph Silverman (MIT), Summer 2009, Fall 2009, Spring 2010
Jennifer Buz (MIT), Summer 2008, Fall 2009, Spring 2010
Scott Berdahl (MIT) Fall 2008, Spring 2008
Shelsea Pedersen (MIT), Spring 2008, Fall 2007, Spring 2007, Fall 2006, Summer 2006, Spring 2006; graduated May 2008
Sean Wahl (MIT), Spring 2008
Sarah Slotznick (MIT), Summer 2007

Graduate Students Supervised or Co-Supervised in Research

Elias Mansbach, 2019-
Craig Martin, 2017-
Clara Maurel, 2016-
Cauê S. Borlina, 2016-
Saied Mighani, 2015-2019
John Biersteker, 2015-2019
Shujuan Mao, 2016-2018
Benjamin Klein, 2012-2015
Roger R. Fu, 2010-2015
Neesha Schnepf, 2013-2015
Sonia M. Tikoo, 2007-2013
Helen Feng, 2011-2012
Luyao Li, 2010-2011
Kyle Bradley, 2006-2012

Karin Louzada, 2004-2009
Maria Silva, 2009-2012
Erin Shea, 2009-2012
Ian Garrick-Bethell, 2004-2008
Cristina Thomas, 2006-2007

B. S. Theses Supervised

Haley Bates, "Examining the Evidence for Chthonian Planets: Superdense Exposed Exoplanet Cores", 2019
Elizabeth Bailey, "Paleolatitude of the Kohistan-Ladakh Arc", 2014
Rachel Bowens-Rubin, "Paleomagnetism Conglomerate Test on Archean Conglomerate Rock from Jack Hills, Australia", 2011
Joseph Silverman, "Source Distribution Analysis of Magnetic Microscopy Maps of Geological Samples", 2010
Jennifer Buz, "Lunar Magnetism During the Last 9,000 Years", 2010
Sarah Slotznick, "Paleomagnetism of the Angrite Sahara 99555", 2009
Shelsea Pedersen, "Paleomagnetism of Lonar Impact Glass", 2008
Scott Berdahl, "Remanent Magnetization in Angrite NWA 4931", 2008*
**Runner Up, MIT Christopher Goetze Memorial Award for Undergraduate Research*

M.S. Theses Supervised

Elise Clavé, 2019, "Magnetic Measurements of Large Iron Meteorites", Institut Supérieur de l'Aéronautique et de l'Espace (ISAE-Supaéro), France
Neesha Schnepf, 2015, "Can We Probe the Conductivity of the Lithosphere and Upper Mantle Using Satellite Ocean Tidal Magnetic Signals?", 2015, presently Ph.D. student, U. Colorado
Jennifer Buz, "Lunar Magnetism in the Last 9000 years", 2011, presently Postdoctoral Researcher, Department of Physics and Astronomy, Northern Arizona University

Ph.D. Theses Supervised

Eli Mansbach, 2019-
Clara Maurel, 2016-
Cauê S. Borlina, 2016-
Roger R. Fu, 2015, "Magnetic Fields in the Early Solar System"; currently Assistant Professor, Harvard University
Sonia M. Tikoo, 2013, "Decline of the Lunar Dynamo"; currently Assistant Professor, Stanford University
Kyle Bradley (co-advisor*), 2012, "The Roof of the Cyclades: A Structural, Stratigraphic, and Paleomagnetic Study of Neogene Extensional Tectonics in Central Greece"; currently Research Fellow, Earth Observatory, NTU, Singapore
Karin Louzada (Harvard student, co-advisor*), 2009, "The Effects of Impact Cratering on Planetary Crustal Magnetism"; presently Senior Advisor for Innovation, Technology and Science, Consulate General of the Netherlands in San Francisco
Ian Garrick-Bethell (co-advisor*), 2008, "Early Lunar Geology and Geophysics"; presently Associate Professor at the University of California, Santa Cruz
**Served as lead advisor for one or more thesis chapters*

Postdoctoral Researchers Supervised

Foteini Vervelidou, 2019-
John B. Biersteker, 2019-
Jay Shah, 2018-
Claire I. O. Nichols, 2018-2020; presently Lecturer at University of Oxford, Oxford, UK
Rona Oran, 2014-2018; presently Research Scientist at MIT
James F. J. Bryson, 2015-2016; presently Lecturer at University of Oxford, Oxford, UK
Huapei Wang, 2013-2016; presently Professor at China University of Geosciences, Wuhan, China
Jefferson Araujo, 2014-2016; presently lecturer a PUC-Rio
Roger R. Fu, 2015; presently Assistant Professor, Harvard University
Sonia M. Tikoo, 2013; presently Assistant Professor, Stanford University
Clément Suavet, 2010-2013, presently Senior Scientist at the Stockholm Environmental Institute, Stockholm, Sweden
Laurent Carporzen, 2007-2010, presently lycée teacher, Paris, France
Eduardo A. Lima, 2006-2007, presently Principle Research Scientist at MIT
Adam C. Maloof, 2004-2005, presently Professor of Geosciences at Princeton University

Research Scientists Supervised

Rona Oran, 2018-
Jodie B. Ream, 2018-
Eduardo A. Lima, 2007-
Clément Suavet, 2013-2015

Spacecraft Mission Involvement

Co-Investigator, Returned Sample Science, Mars 2020 rover mission, 2019-
Magnetometry Investigation Lead and Co-Investigator, Psyche mission, NASA Discovery, 2015-
Co-Investigator, Europa Clipper Magnetometer, NASA Europa Clipper mission, 2019-
Co-Investigator, Interior Characterization of Europa using Magnetometry (ICEMAG) investigation, NASA Europa Clipper mission, 2015-2019
Science Team, SpaceIL, Google Lunar X-Prize mission, 2015-2019
Co-Investigator, Mobile Asteroid Surface Scout (MASCOT) Mobile Asteroid Magnetometer (MasMag) investigation, JAXA Hayabusa 2 mission, 2012-
Member, Returned Sample Science Board, Mars 2020 rover mission, 2015-2018
Funded investigator, U.S. Rosetta mission program, 2013-2017

Original Geological Fieldwork

Isukasia, Greenland: Paleomagnetism, metamorphic, and geochronological study of Isua supracrustal belt, July-August 2018
Southern Cross Domain, Western Australia: Paleomagnetism and stratigraphy of supracrustal rocks to characterize the Hadean-Eoarchean environment, July-August 2017
Jack Hills, Western Australia: Paleomagnetism and stratigraphy of supracrustal rocks to characterize the Hadean dynamo, June 2001, August 2012

Ladakh, India: Paleolatitude of the Kohistan-Ladakh island arc using paleomagnetism to test geodynamic models of its collision with Eurasia, July 2014

Vredefort crater, South Africa: Testing the hypothesis that plasmas from large impact craters can generate large magnetic fields, November 2008

Lonar crater, India: Geology and paleomagnetism of an impact crater in basalt, January 2005 and January 2006

Pilbara craton, Western Australia: Paleomagnetism of Archean rocks to constrain the early history of the geodynamo, August 2004, August 2006

Mamainse Point, Ontario: Paleomagnetism of Keweenawan rocks to test the geocentric axial dipole hypothesis, October 2005

Artistic Collaborations

Advisor, Cosmorama: Mining the Sky, Planetary Ark, and Pacific Cemetery, United States Pavilion, Venice Architecture Biennale, 2018

Books Edited

Planetesimals: Early Differentiation and Consequences for Planets (2017) L. T. Elkins-Tanton and B. P. Weiss, Eds., Cambridge University Press**,** Cambridge, UK, 448 pp.

Publications

Available at: http://benweiss.mit.edu/publications/
*denotes work by associates of my laboratory

*Weiss, B. P. (2020) Meteorite evidence for formation of Jupiter by core accretion, *AGU Advances*, submitted.

*Oran, R., B. P. *Weiss, M. de Soria Santacruz-Pich, I. Jun, D. J. Lawrence, C. Polanskey, M. Ratliff, J. B. *Ream, C. T. Russell, Y. Shprits, M. T. Zuber, L. T. Elkins-Tanton and the Psyche team (2020) Minimal conditions for radiation belts around planets and small bodies, *Geophys. Res. Lett.*, submitted.

133. *Martin, C., O. Jagoutz, R. Upadhyay, L. H. Royden, M. P. Eddy, E. E. Bailey, C. I. O. *Nichols, B. P. *Weiss (2020) Paleocene latitude of the Kohistan-Ladakah arc indicates multi-stage India-Eurasia collision, *Proc. Natl. Acad. Sci. USA*, in press.

132. Aharonson, O., C. T. Russell, J. W. Head III, M. Wieczorek, I. Garrick-Bethell, B. P. *Weiss, D. E. Smith, K. Rowe, A. Grosz, S. Amrusi, A. Novoselsky, N. Nahaman, Y. Grossman, Y. Simoni, A. Gomez (2020) The science mission of SpaceIL's Beresheet lander, *Planet. Space Sci*., in press.

131. *Weiss, B. P., X.-N. Bai, R. R. Fu (2020) History of the solar nebula from meteorite paleomagnetism, *Sci. Adv.*, in press.

130. *Clavé, E., C. *Maurel, E. A. *Lima, J. *Shah, E. N. *Mansbach, M. Uehara, B. P. *Weiss (2020) A portable magnetometer for magnetic measurements of meter-size meteorites, *Geochem. Geophys. Geosyst.*, in press.

129. Wieczorek, M. A., B. P. *Weiss, D. Breuer, D. Cébron, M. Fuller, I. Garrick-Bethell, J. Gattacceca, J. S. Halekas, D. J. Hemingway, L. L. Hood, M. Laneuville, F. Nimmo, R. Oran, M. E. Purucker, T. Ruckriemen, K. M. Soderlund, S. M. Tikoo (2020) Lunar magnetism, in *New Views of the Moon 2*, in press.

128. de Soria-Santacruz, M., M. Soriano, O. Quintero, F. Wong, S. Hart, M. Kokorowski, B. Bone, B. Solish, D. Trofimov, E. Bradford, C. Raymond, P. Narvaez, J. *Ream, R. *Oran, B. P *Weiss, K. Ascrizzi, C. Keys, P. Lord, C. Russell, L. Elkins-Tanton (2020) An approach to magnetic cleanliness for the Psyche mission, *2020 IEEE Aerosp. Conf. Proc.*, doi: 10.1109/AERO47225.2020.9172801.
127. *Oran, R., B. P. *Weiss, Y. Shprits, K. Miljković, G. Toth (2020) Was the Moon magnetized by impact plasmas?, *Sci. Adv.*, **6**, eabb1475.
126. *Maurel, C., J. F. J. Bryson, R. J. Lyons, M. R. Ball, R. V. Chopdekar, A. Scholl, F. J. Ciesla, W. F. Bottke, B. P. *Weiss (2020) Meteorite evidence for partial differentiation and protracted accretion of planetesimals, *Sci. Adv.*, **6**, eaba1303.
125. Shang, H., M. Daye, O. Sivan, C. S. *Borlina, N. Tamura, B. P. *Weiss, T. Bosak (2020) Formation of zero-valent iron in iron-reducing cultures of *Methanosarcina barkeri*, *J. Environ. Sci. Technol.*, **54**, 7354-7365.
124. *Bryson, J. F. J., B. P. *Weiss, J. B. *Biersteker, A. J. King, S. S. Russell (2020) Constraints on the distances and timescales of solid migration in the early solar system from meteorite magnetism, *Astrophys. J.*, **896**, 103.
123. *Fu, R. R., P. Kehayias, B. P. *Weiss, D. L. Schrader, X.-N. Bai, J. B. Simon (2020) Weak magnetic fields in the outer solar nebula recorded in CR chondrites, *J. Geophys. Res.*, **125**, e2019JE006260.
122. *Bryson, J. F. J, B. P. *Weiss, B. *Getzin, J. N. H. *Abrahams, F. Nimmo, A. Scholl (2020) Evidence for asteroid scattering and distal solar system solids from meteorite paleomagnetism, *Astrophys. J.*, **892**, 126.
121. Elkins-Tanton, L. T., J. F. Bell III, H. Bercovici, B. Bills, R. Binzel, W. F. Bottke, S. Dibb, D. J. Lawrence, S. Marchi, T. J. McCoy, R. *Oran, R. S. Park, P. N. Peplowski, C.A. Polanskey, T. H. Prettyman, C. T. Russell, L. Schaefer, B. P. *Weiss, M. A. Wieczorek, D. A. Williams, M. T. Zuber (2020), Observations, meteorites, and models: A pre-flight assessment of the composition and formation of (16) Psyche, *J. Geophys. Res.*, **125**, e2019JE006296.
120. *Borlina, C. S., B. P. *Weiss, E. A. *Lima, F. Tang, R. J. M. Taylor, J. F. Einsle, R. J. Harrison, R. R. Fu, E. A. Bell, E. W. Alexander, H. M. Kirkpatrick, M. W. Wielicki, T. M. Harrison, A. C. Maloof (2020) Re-evaluating the evidence for a Hadean-Eoarchean dynamo, *Sci. Adv.*, **6**, eaav9634.
119. Herčik, D., H.-U. Auster, D. Constantinescu, Jürgen Blum, K.-H. Fornaçon, M. Fujimoto, K. Gebauer, J.-T. Grundmann, C. Güttler, O. Hillenmaier, T.-M. Ho, A. Hördt, C. Krause, E. Kührt, L. Lorda, A. Matsuoka, U. Motschmann, A. Moussi-Soffys, I. Richter, K. Sasak, F. Scholten, B. Stoll, B. P. *Weiss, F. Wolff, K.-H. Glassmeier (2020) Magnetic properties of asteroid (162173) Ryugu, *J. Geophys. Res.*, **125**, e2019JE006035. https://doi.org/10.1029/2019JE006035.
118. Feinberg, J. M., I. Lascu, E. A. *Lima, B. P. *Weiss, J. A. Dorale, E. C. Alexander, Jr., and R. L. Edwards (2020) Magnetic detection of paleoflood layers in stalagmites and implications for historical land use changes, *Earth Planet. Sci. Lett.*, **530**, 115946.
117. *Mighani, S., H. *Wang, B. P. *Weiss, D. L. Shuster, C. S. *Borlina, C. I. O. *Nichols (2020) The end of the lunar dynamo, *Sci. Adv.*, **6**, eaax0883.
116. *Eyster, A. E., B. P. *Weiss, K. Karlstrom, F. A. Macdonald (2020) Paleomagnetism of the Chuar Group and evaluation of the late Tonian Laurentian apparent polar

wander path with implications for the makeup and breakup of Rodinia, *Geol. Soc. Am. Bull.*, **132**, 710-738.

115. Tartèse, R., M. Anand, J. Gattacceca, K. H. Joy, J. I. Mortimer, J. F. Pernet-Fisher, S. Russell, J. F. Snape, B. P. *Weiss (2019) Constraining the evolutionary history of the Moon and inner solar system: A case for new returned samples, *Space Sci. Rev.*, **215**, 54.
114. *Bryson, J. F. J., B. P. *Weiss, B. *Getzin, J. N. H. *Abrahams, F. Nimmo, A. Scholl (2019) Paleomagnetic evidence for a partially differentiated ordinary chondrite parent asteroid, *J. Geophys. Res.*, **124**, https://doi.org/10.1029/2019JE005951
113. Beaty, D. W., M. M. Grady, H. Y. McSween, E. Sefton-Nash; documentarian: B. L. Carrier; team members: F. Altieri, Y. Amelin, E. Ammannito, M. Anand, L. G. Benning, J. L. Bishop, L. E. Borg, D. Boucher, J. R. Brucato, H. Busemann, K. A. Campbell, A. D. Czaja, V. Debaille, D. J. Des Marais, M. Dixon, B. L. Ehlmann, J. D. Farmer, D. C. Fernandez-Remolar, J. Filiberto, J. Fogarty, D. P. Glavin, Y. S. Goreva, L. J. Hallis, A. D. Harrington, E. M. Hausrath, C. D. K. Herd, B. Horgan, M. Humayun, T. Kleine, J. Kleinhenz, R. Mackelprang, N. Mangold, L. E. Mayhew, J. T. McCoy, F. M. McCubbin, S. M. McLennan, D. E. Moser, F. Moynier, J. F. Mustard, P. B. Niles, G. G. Ori, F. Raulin, P. Rettberg, M. A. Rucker, N. Schmitz, S. P. Schwenzer, M. A. Sephton, R. Shaheen, Z. D. Sharp, D. L. Shuster, S. Siljestrom, C. L. Smith, J. A. Spry, A. Steele, T. D. Swindle, I. L. ten Kate, N. J. Tosca, T. Usui, M. J. Van Kranendonk, M. Wadhwa, B. P. *Weiss, S. C. Werner, F. Westall, R. M. Wheeler, J. Zipfel, and M. P. Zorzano (2019) The potential science and engineering value of samples delivered to Earth by Mars sample return, *Meteorit. Planet. Sci.,* **54**, 667-671 (executive summary only), https://doi.org/10.1111/maps.13232; open access web link to full report (*Meteorit. Planet. Sci.*, **54**, S3-S152): https://doi.org/10.1111/maps.13242.
112. *Biersteker, J., B., B. P. *Weiss, P. Heinisch, D. Herčik, K.-H. Glassmeier, H.-U. Auster (2019) Implications of Philae magnetometry measurements at comet 67P/Churyumov-Gerasimenko for the outer solar system nebular field, *Astrophys. J.*, **875**, 39.
111. *Maurel, C., B. P. *Weiss, and J. F. J. Bryson (2019) Meteorite cloudy zone formation as a quantitative indicator of paleomagnetic field intensities and cooling rates on planetesimals, *Earth Planet. Sci. Lett.*, **513**, 166-175.
110. Myre, J. M., I. Lascu, E. A. *Lima, J. M. Feinberg, M. O. Saar, B. P. *Weiss (2019) Using TNT-NN to unlock the fast full spatial inversion of large scanning magnetic microscopy datasets, *Earth Planets Space*, **71**, 14, https://doi.org/10.1186/s40623-019-0988-8.
109. Tang, F., R. J. M. Taylor, J. F. Einsle, C. S. *Borlina, R. R. Fu, B. P. *Weiss, H. M. Williams, W. Williams, L. Nagy, P. Midgley, E. A. *Lima, E. A. Bell, T. M. Harrison, E. Alexander, R. J. Harrison, Secondary magnetite in ancient zircon precludes analysis of a Hadean geodynamo (2019) *Proc. Natl. Acad. Sci. USA*, **116**, 407-412, https://doi.org/10.1073/pnas.1811074116.
108. Mittelholz, A., A. Morschhauser, C. L. Johnson, B. Langlais, R. J. Lillis, F. Vervelidou, B. P. *Weiss (2018) The Mars 2020 candidate landing sites: A magnetic field perspective, *Earth Space Sci*., **5**, https://doi.org/10.1029/2018EA000420.

107. *Fu, R. R., B. P. *Weiss, D. L. Schrader, B. C. Johnson (2018) Records of magnetic fields in the chondrule formation environment, in *Chondrules: Records of Protoplanetary Disk Processes*, Eds. Russell, S.S., H. C. Connolly Jr., A. N. Krot, Cambridge University Press (Cambridge, UK), pp. 324-330, https://doi.org/10.1017/9781108284073.012.
106. Mai, C., S. J. Desch, A. C. Boley, B. P. *Weiss (2018) Magnetic fields recorded by chondrules formed in nebular shocks, *Astrophys. J.*, **857**, 96.
105. *Weiss, B. P., R. R. *Fu, J. F. Einsle, D. R. Glenn, P. Kehayias, E. A. Bell, J. Gelb, J. F. D. F. Araujo, E. A. *Lima, C. S. *Borlina, P. Boehnke, D. N. Johnstone, T. M. Harrison, R. J. Harrison, R. L. Walsworth (2018) Secondary magnetic inclusions in detrital zircons from the Jack Hills, Western Australia and implications for the origin of the geodynamo, *Geology*, **46**, 427-430.
104. *Oran, R., B. P. *Weiss, and O. Cohen (2018) Were chondrites magnetized by the early solar wind? *Earth Planet. Sci. Lett.*, **492**, 222-231.
103. Tominaga, M., A. Beinlich, E. A. *Lima, M. A. Tivey, B. Hampton, B. *Weiss, Y. Harigane (2017) Multi-scale magnetic mapping of serpentinite carbonation, *Nature Commun.*, **8**, doi:10.1038/s41467-017-01610-4.
102. Glenn, D. R., R. R. *Fu, P. Kehayias, D. Le Sage, E. A. *Lima, B. P. *Weiss, R. L. Walsworth (2017) Micrometer-scale magnetic imaging of geological samples using a quantum diamond microscope, *Geochem. Geophys. Geosyst.*, **18**, doi:10.1002/2017GC006946.
101. *Tikoo, S. M., B. P. *Weiss, D. L. Shuster, C. *Suavet, H. *Wang, T. L. Grove (2017) A two-billion-year history for the lunar dynamo, *Sci. Adv.*, **3**, e1700207.
100. *Bryson, J. F. J., R. Harrison, J. A. Neufeld, F. Nimmo, J. Herrero-Albillos, F. Kronast, B. P. *Weiss (2017) Paleomagnetic evidence for dynamo activity driven by inward crystallisation of a metallic asteroid, *Earth Planet. Sci. Lett.*, **472**, 152-163.
99. *Weiss, B. P., H. *Wang, T. G. Sharp, J. Gattacceca, D. L. Shuster, B. *Downey, J. Hu, R. R. *Fu, A. T. Kuan, C. *Suavet, A. J. Irving, J. Wang, J. Wang (2017) A nonmagnetic differentiated early planetary body, *Earth Planet. Sci. Lett.*, **468**, 119-132.
98. *Wang, H., B. P. *Weiss, X.-N. Bai, B. G. *Downey, J. Wang, Y. K. Chen-Wiegart, J. Wang, C. *Suavet, R. R. *Fu, M. E. Zucolotto (2017) Lifetime of the solar nebula constrained by meteorite paleomagnetism, *Science*, **355**, 623-627.
97. Schmitt, H. H., N. E. Petro, R. A. Wells, M. S. Robinson, B. P. *Weiss, C. M. Mercer (2017) Revisiting the field geology of Taurus-Littrow, *Icarus*, 298, 2-33.
96. *Weiss, B. P. (2017) Planetesimals, in *Planetesimals: Early Differentiation and Consequences for Planets*, L. T. Elkins-Tanton and B. P. Weiss, Eds., Cambridge University Press (Cambridge, UK) pp. 1-4.
95. Scheinberg, A., R. R. *Fu, L. T. Elkins-Tanton, B. P. *Weiss, S. Stanley (2017) Magnetic fields on asteroids and planetesimals, in *Planetesimals: Early Differentiation and Consequences for Planets*, L. T. Elkins-Tanton and B. P. Weiss, Eds., Cambridge University Press (Cambridge, UK) pp. 180-203.
94. Harrison, R. J., J. F. J. *Bryson, B. P. *Weiss (2017) Magnetic mineralogy of meteoritic metal: paleomagnetic evidence for dynamo activity on differentiated planetesimals, in *Planetesimals: Early Differentiation and Consequences for Planets*, L. T. Elkins-Tanton and B. P. Weiss, Eds., Cambridge University Press (Cambridge, UK) pp. 204-223.

93. Garrick-Bethell, I., B. P. *Weiss, D. L. Shuster, S. M. Tikoo (2017) Further evidence for early lunar magnetism from troctolite 76535, *J. Geophys. Res.*, **121**, doi:10.1002/2016JE005154.
92. *Fu, R. R., B. P. *Weiss, E. A. *Lima, P. Kehayias, J. F. D. F. Araujo, D. R. Glenn, J. Gelb, J. F. Einsle, A. M. Bauer, R. J. Harrison, G. A. H. Ali, R. L. Walsworth (2017) Evaluating the paleomagnetic potential of single zircon crystals using the Bishop Tuff, *Earth Planet. Sci. Lett.*, **458**, 1-13.
91. Ehlmann, B. L., F. S. Anderson, J. Andrews-Hanna, J. Carter, D. C. Catling, P. R. Christensen, B. A. Cohen, C. D. Dressing, C. S. Edwards, L. T. Elkins-Tanton, K. A. Farley, C. I. Fassett, W. W. Fischer, A. A. Fraeman, M. P. Golombek, V. E. Hamilton, A. G. Hayes, C. D. K. Herd, B. Horgan, R. Hu, B. M. Jakosky, J. R. Johnson, J. F. Kasting, L. Kerber, K. M. Kinch, E. S. Kite, H. A. Knutson, J. I. Lunine, P. R. Mahaffy, N. Mangold, F. M. McCubbin, J. F. Mustard, P. B. Niles, C. Quantin-Nataf, M. S. Rice, K. M. Stack, D. J. Stevenson, S. T. Stewart, M. J. Toplis, T. Usui, B. P. *Weiss, S. C. Werner, R. D. Wordsworth, J. J. Wray, R. A. Yingst, Y. L. Yung, K. J. Zahnle (2016) The sustainability of habitability on terrestrial planets: Insights, questions, and needed measurements from Mars for understanding the evolution of Earth-like worlds, *J. Geophys. Res.*, **121**, 1927-1961.
90. *Gattacceca, J., B. P. *Weiss, M. Gounelle (2016) New constraints on the magnetic history of the CV parent body and the solar nebula from the Kaba meteorite, *Earth Planet. Sci. Lett.*, **455**, 166-175.
89. Eyster, A., R. R. *Fu, J. V. Strauss, B. P. *Weiss, C. F. Roots, G. P. Halverson, D. A. D. Evans, F. A. MacDonald (2016) Paleomagnetic evidence for a large rotation of the Yukon block relative to Laurentia: Implications for a low-latitude Sturtian Glaciation and the break-up of Rodinia, *Geol. Soc. Am. Bull.*, doi: 10.1130/B31425.1.
88. *Lima, E. A. and B. P. *Weiss (2016) Ultra-high sensitivity moment magnetometry of geological samples using magnetic microscopy, *Geochem. Geophys. Geosyst.*, **17**, doi:10.1002/2016GC006487.
87. *Weiss, B. P., Maloof, A. C., Harrison, T. M., Swanson-Hysell, N. L., Fu, R. R., Kirschvink, J. L., Watson, E. B., Coe, R. S., Tikoo, S. M., Ramezani, J. (2016) Reply to Comment on "Pervasive remagnetization of detrital zircon host rocks in the Jack Hills, Western Australia and implications for records of the early geodynamo", *Earth Planet. Sci. Lett.*, **450**, 409-412.
86. Einsle, J. F., R. J. Harrison, T. Kasama, P. Ó. Conbhuí, K. Fabian, W. Williams, L. Woodland, R. R. Fu, B. P. *Weiss, P. A. Midgley (2016) Multi-scale three-dimensional characterisation of iron particles in dusty olivine: implications for paleomagnetism of chondritic meteorites, *Am. Mineral.*, **101**, 2070-2084.
85. Trail, D., D. J. Cherniak, E. B. Watson, T. M. Harrison, B. P. *Weiss, I. Szumila (2016) Li zoning in zircon as a potential geospeedometer and peak temperature indicator, *Contrib. Mineral. Petrol.*, **171**, doi:10.1007/s00410-016-1238-8.
84. Herčik, D., H.-U. Auster, J. Blum, K.-H. Fornaçon, M. Fujimoto, K. Gebauer, C. Güttler, O. Hillenmaier, A. Hördt, E. Liebert, A. Matsuoka, R. Nomura, I. Richter, B. Stoll, B. P. *Weiss, K.-H. Glassmeier (2016) MasMag: The MASCOT magnetometer experiment, *Space Sci. Rev.*, **208**, 433-439, doi: 10.1007/s11214-016-0236-5
83. Scheinberg, A., R. R. *Fu, L. T. Elkins-Tanton, B. P. *Weiss (2015) Asteroid differentiation: Hydrous and silicate melting and large-scale structure, in *Asteroids*

IV, P. Michel, F. DeMelo, and W. F. Bottke, Eds., University of Arizona Press, 533-552.

82. *Buz, J., B. P. *Weiss, S. M. Tikoo, D. L. Shuster, J. Gattacceca, T. L. Grove (2015) Magnetism of a very young lunar glass, *J. Geophys. Res.*, **120**, doi:10.1002/2015JE004878.
81. *Tikoo, S. M., J. Gattacceca, N. L. Swanson-Hysell, B. P. Weiss, C. Suavet, C. Cournède (2015) Preservation and detectability of shock-induced magnetization, *J. Geophys. Res.*, **120**, doi: 10.1002/2015JE004840.
80. *Weiss, B. P., Maloof, A. C., Tailby, N. D., Ramezani, J., *Fu, R. R., *Hanus, V., Trail, D., Watson, E. B., Harrison, T. M., Bowring, S. A., Kirschvink, J. L., Swanson-Hysell, N. L., Coe, R. S. (2015) Pervasive remagnetization of detrital zircon host rocks in the Jack Hills, Western Australia and implications for records of the early geodynamo, *Earth Planet. Sci. Lett.*, 430, 115-128. **
****Hot Paper, 2016, ISI Essential Science Indicators*
79. Balikhin, M. A., Y. Y. Shprits, S. N. Walker, L. Chen, N. Cornilleau-Wehrlin, I. Dandouras, O. Santolik, C. Carr, K. H. Yearby, B. *Weiss (2015) Observations of discrete harmonics emerging from equatorial noise, *Nature Commun.*, **6**, doi: 10.1038/ncomms8703.
78. *Bradley, K., B. P. *Weiss, and R. Buick (2015) Records of geomagnetism, climate, and tectonics across a Paleoarchean erosion surface, *Earth Planet. Sci. Lett*., 413, 1-13.
77. *Black, B. A., B. P. *Weiss, L. T. Elkins-Tanton, R. V. Veselovskiy, and A. Latyshev (2015) Siberian Traps volcaniclastic rocks and the role of magma-water interactions, *Geol. Soc. Am. Bull.*, **127**, 1437-1452.
76. Cournède, C., J. Gattacceca, M. Gounelle, P. Rochette, B. P. *Weiss, B. (2014) An early solar system magnetic field recorded in CM chondrites, *Earth Planet. Sci. Lett.*, **410**, 62-74.
75. *Weiss, B. P. and S. M. Tikoo (2014) The lunar dynamo, *Science*, **346**, 1246753, doi: 10.1126/science.1246753.
74. *Fu, R. R., B. P. *Weiss, E. A. *Lima, R. J. Harrison, X.-N. Bai, D. S. Ebel, C. *Suavet, H. *Wang, D. Glenn, D. Le Sage, T. Kasama, S. J. Desch, R. L. Walsworth, A. T. Kuan (2014) Solar nebula magnetic fields recorded by the Semarkona meteorite, *Science*, **346**, 1089-1092.**
*****Winner of 2014 Nininger Meteorite Award to Roger Fu*
73. Chen, A. P., V. M. Berounsky, M. K. Chan, M.G. Blackford, C. Cady, B. M. Moskowitz, P. Kraal, E. A. *Lima. R. E. Kopp, G. R. Lumpkin, B. P. *Weiss, P. Hesse, N. G. F. Vella (2014) Magnetic properties of uncultivated magnetotactic bacteria and their contribution to a stratified estuary iron cycle, *Nature Commun.*, **5**, 4797, doi:10.1038/ ncomms579
72. *Lima, E. A., A. C. Bruno, H. R. Carvalho, and B. P. *Weiss (2014) Scanning magnetic tunnel junction microscope for high-resolution imaging of remanent magnetization fields, *Meas. Sci. Technol.*, **25**, 105401, doi:10.1088/0957-0233/25/10/105401**
*****Institute of Physics (IOP) Select Paper*, *chosen for its "novelty, significance and potential impact on future research"*
*****Outstanding Paper Award, Measurement Science and Technology*
71. *Tikoo, S. M., B. P. *Weiss, W. S. Cassata, D. L. Shuster, J. Gattacceca, E. A. *Lima, C. *Suavet, F. Nimmo, and M. D. Fuller (2014) Decline of the lunar core dynamo, *Earth.*

Planet. Sci. Lett., **404**, 89-97.
70. *Fu, R. R., E. A. Lima, B. P. Weiss (2014) No nebular magnetization in the Allende CV carbonaceous chondrite, *Earth Planet. Sci. Lett.*, **404**, 54-66.
69. *Suavet, C., B. P. *Weiss, and T. L. Grove (2014) Controlled-atmosphere thermal demagnetization and paleointensity analyses of extraterrestrial rocks, *Geochem. Geophys. Geosyst.*, **15**, doi:10.1002/2013GC005215.
68. Evans, A. J., M. T. Zuber, B. P. *Weiss, and S. M. *Tikoo (2014) A wet, heterogeneous lunar interior: Lower mantle and core dynamo evolution, *J. Geophys. Res.*, **119**, 1061–1077, doi:10.1002/2013JE004494.
67. *Gattacceca, J., C. *Suavet, P. Rochette, B. P. *Weiss, M. Winkelhofer, M. Uehara, J. M. Friedrich (2014) Metal phases in ordinary chondrites: Magnetic hysteresis properties and implications for thermal history, *Meteorit. Planet. Sci.*, **49**, 652-676.
65. *Bradley, K., Vassilakis, E., B. P. *Weiss, and L. Royden (2013) A re-assessment of the shallow paleomagnetic inclinations of the western Cyclades, Greece, *Bull. Geol. Soc. Greece*, **XLVII**, 2, 498-505
64. *Lima, E. A., B. P. *Weiss, L. Baratchart, D. P. Hardin, E. B. Saff (2013) Fast inversion of magnetic field maps of unidirectional planar geological magnetization *J. Geophys. Res.*, **118**, 2723-2752.
63. *Suavet, C., B. P. *Weiss, W. S. Cassata, D. L. Shuster, J. Gattacceca, L. Chan, I. Garrick-Bethell, J. W. Head, T. L. Grove, and M. D. Fuller (2013) Persistence and origin of the lunar core dynamo, *Proc. Natl. Acad. Sci. USA*, **110**, 8453-8458.
62. *Weiss, B. P. and L. T. Elkins-Tanton (2013) Differentiated planetesimals and the parent bodies of chondrites, *Annu. Rev. Earth Planet. Sci.*, **41**, 529-560.
61. Fernandes, V. A., J. Fritz, B. P. *Weiss, I. *Garrick-Bethell, and D. L. Shuster (2013) The bombardment history of the Moon as recorded by ^{40}Ar-^{39}Ar chronometry, *Meteorit. Planet. Sci.*, **48**, 241-269.
60. *Bradley, K. E., E. Vassilakis, A. Hosa, and B. P. *Weiss (2013) Segmentation of the Hellenides recorded by Pliocene initiation of clockwise block rotation in Central Greece *Earth Planet. Sci. Lett.*, **362**, 6-19.
59. Baratchart, L., D. P. Hardin, E. A. *Lima, E. B. Saff, and B. P. *Weiss (2013) Characterizing kernels of operators related to thin plate magnetizations via generalizations of Hodge decompositions, *Inverse Problems*, **29**, 015004.
58. *Weiss, B. P. (2012) A vitrage of asteroid magnetism, *Science*, **338**, 897-898.
57. *Fu, R. R., B. P. *Weiss, D. L. Shuster, J. Gattacceca, T. L. Grove, C. *Suavet, E. A. *Lima, L. Li, and A. T. Kuan (2012) An ancient core dynamo in asteroid Vesta, *Science*, **338**, 238-241.
56. *Tikoo, S. M., B. P. *Weiss, J. Buz, E. A. *Lima, E. K. Shea, G. Melo, and T. L. Grove (2012) Magnetic fidelity of lunar samples and implications for an ancient core dynamo, *Earth Planet. Sci. Lett.*, **337-338**, 93-103.
55. Cassata, W. S., P. R. Renne, D. L. Shuster, and B. P. *Weiss (2012) Trapped Ar isotopes in meteorite ALH 84001 indicate Mars did not have a thick ancient atmosphere, *Icarus*, **221**, 461-465.
54. *Weiss, B. P., L. T. Elkins-Tanton, M. A. Barucci, H. Sierks, C. Snodgrass, J.-B. Vincent, S. Marchi, M. Pätzold, I. Richter, P. R. Weissman, M. Fulchignoni, and R. P. Binzel, R. Schulz (2012) Possible evidence for partial differentiation of asteroid Lutetia from Rosetta, *Planet. Space Sci.*, **66**, 137-146.

53. Wieczorek, M. A., B. P. *Weiss, and S. T. Stewart (2012) An impactor origin for lunar magnetic anomalies, *Science*, **335**, 1212-1215.
52. *Fu, R. R. and B. P. *Weiss (2012) Detrital remanent magnetization in the solar nebula, *J. Geophys. Res.*, **117**, E02003, doi:10.1029/2011JE003925.
51. *Shea, E. K., B. P. *Weiss, W. S. Cassata, D. L. Shuster, S. M. *Tikoo, J. Gattacceca, T. L. Grove, and M. D. Fuller (2012) A long-lived lunar core dynamo, *Science*, **335**, 453-456.
50. *Carporzen, L., B. P. *Weiss, S. A. Gilder, A. Pommier, and R. J. Hart (2012) Lightning remagnetization of the Vredefort impact crater, *J. Geophys. Res.*, **117**, E01007, doi:10.1029/2011JE003919.
49. Pätzold, M., T. Andert, S. W. Asmar, J. D. Anderson, J.-P. Barriot, M. K. Bird, B. Häusler, M. Hahn, S. Tellmann, H. Sierks, P. Lamy, B. P. *Weiss (2011) Asteroid (21) Lutetia – low mass, high density, *Science*, **334**, 491-492.
48. Sierks, H., P. Lamy, C. Barbieri, D. Koschny, H. Rickman, R. Rodrigo, M. A'Hearn, F. Angrilli, M. A. Barucci, J.-L. Bertaux, I. Bertini, S. Besse, B. Carry, G. Cremonese, V. Da Deppo, B. Davidsson, S. Debei, M. De Cecco, J. De Leon, F. Ferri, S. Fornasier, M. Fulle, S. F. Hviid, R. W. Gaskell, O. Groussin, P. Gutierrez, W. Ip, L. Jorda, M. Kaasalainen, H. U. Keller, J. Knollenberg, R. Kramm, E. Kührt, M. Küppers, L. Lara, C. Leyrat, M. Lazzarin, J. J. Lopez Moreno, S. Magrin, S. Marchi, F. Marzari, M. Massironi, H. Michalik, R. Moissl, G. Naletto, F. Preusker, L. Sabau, W. Sabolo, F. Scholten, C. Snodgrass, N. Thomas, C. Tubiana, P. Vernazza, J.-B. Vincent, K.-P. Wenzel, T. Andert, M. Pätzold, B. P. *Weiss (2011) Images of asteroid 21 Lutetia: A remnant planetesimal from the early solar system, *Science*, **334**, 487-490.
47. *Louzada, K. L., S. T. Stewart, B. P. *Weiss, J. Gattacceca, R. J. Lillis, J. S. Halekas (2011) Impact demagnetization of the Martian crust: Current knowledge and future directions, *Earth Planet. Sci. Lett.*, **305**, 257-269.
46. Elkins-Tanton, L. T., B. P. *Weiss, and M. T. Zuber (2011) Chondrites as samples of differentiated planetesimals, *Earth Planet. Sci. Lett.*, **305**, 1-10.
45. *Carporzen, L., B. P. *Weiss, L. T. Elkins-Tanton, D. L. Shuster, D. S. Ebel. J. Gattacceca (2011) Magnetic evidence for a partially differentiated carbonaceous chondrite parent body, *Proc. Natl. Acad. Sci. USA*, **108**, 6386-6389.
44. Oda, H., A. Usui, I. Miyagi, M. Joshima, B. P. *Weiss, C. Schantz, L. E. Fong, K. K. McBride, R. Harder, F. J. Baudenbacher (2011) Ultrafine-scale magnetostratigraphy of marine ferromanganese crust, *Geology*, **39**, 227-230.
43. Cassata, W., D. L. Shuster, P. R. Renne, B. P. *Weiss (2010) Evidence for heterogeneous shock heating and constraints on Martian surface temperatures revealed by $^{40}Ar/^{39}Ar$ thermochronometry of Martian meteorites, *Geochim. Cosmochim. Acta*, **74**, 6900-6920.
42. *Weiss, B. P., Pedersen, S., Garrick-Bethell, I., Stewart, S. T., *Louzada, K. L., Maloof, A. C., and Swanson-Hysell, N. L. (2010) Paleomagnetism of impact spherules from Lonar crater, India and a test for impact-generated fields, *Earth Planet. Sci. Lett.*, **298**, 66-76.
41. Gattacceca, J., M. Boustie, E. *Lima, B. P. *Weiss, T. de Resseguier, J. P. Cuq-Lelandais (2010) Unraveling the simultaneous shock magnetization and demagnetization of rocks, *Phys. Earth Planet. Inter.*, **182**, 42-49.

40. *Garrick-Bethell, I. and B. P. *Weiss (2010) Kamacite blocking temperatures and applications to lunar magnetism, *Earth Planet. Sci. Lett.*, **294**, 1-7.
39. *Louzada, K. L., S. T. Stewart, B. P. *Weiss, J. Gattacceca, N. S. Bezaeva (2010) Shock and static pressure demagnetization of pyrrhotite and implications for the Martian crust, *Earth Planet. Sci. Lett.*, **290**, 90-101.
38. Shuster, D. L., G. Balco, W. S. Cassata, V. A. Fernandes, I. *Garrick-Bethell, B. P. *Weiss (2010) A record of impacts preserved in the lunar regolith, *Earth Planet. Sci. Lett.*, **290**, 155-165.
37. Maloof, A. C., S. T. Stewart, B. P. *Weiss, S. A. Soule, N. Swanson-Hysell, K. L. *Louzada, I. *Garrick-Bethell, and P. M. Poussart (2010) Geology of Lonar crater, India, *Geol. Soc. Am. Bull.*, **122**, 109-126.
36. *Weiss B. P., J. Gattacceca, S. Stanley, P. Rochette, U. R. Christensen (2010) Paleomagnetic records of meteorites and early planetesimal differentiation, *Space Sci. Rev.*, **152**, 341-390.
35. Shearer, C. K.. V. Burger, C. Neal, Z. Sharp, L. Spivak-Birndorf, L. Borg, V. A. Fernandes, J. J. Papike, J. Karner, M. Wadhwa, A. Gaffney, J. Shafer, J. Geissman, N.-V. Atudorei, C. Herd, B. P. Weiss, P.L. King, S. A. Crowther, and J. D. Gilmour (2010) Non-basaltic asteroidal magmatism during the earliest stages of solar system evolution: A view from Antarctic achondrites Graves Nunatak 06128 and 06129, *Geochim. Cosmochim. Acta*, **74**, 1172-1199.
34. Swanson-Hysell, N. L., A. C. Maloof, B. P. *Weiss, D. A. D. Evans (2009) No asymmetry in geomagnetic reversals recorded by 1.1-billion-year-old Keweenawan basalt flows, *Nature Geosci.*, **2**, 713-716
33. Rochette, P., B. P. *Weiss, and J. Gattacceca (2009) Magnetic minerals and magnetism of extraterrestrial materials, *Elements*, **5**, 223-228.
32. *Lima, E. A. and B. P. *Weiss (2009) Obtaining vector magnetic field maps from single-component measurements, *J. Geophys. Res.*, **114**, B06102, doi:10.1029/ 2008JB006006.
31. *Garrick-Bethell, I., B. P. *Weiss, D. L. Shuster, and J. *Buz (2009) Early lunar magnetism, *Science*, **323**, 356-359.
30. Shearer, C. K., P. V. Burger, C. R. Neal, Z. Sharp, L. E. Borg, L. Spivak-Birndorf, M. Wadhwa, J. J. Papike, J. M. Karner, A. M. Gaffney, J. Shafer, B. P. *Weiss, and J. Geissman (2008) A unique glimpse into asteroidal melting processes in the early solar system from the Graves Nunatak 06128/06129 achondrites, *Am. Mineral.*, **93**, 1937-1940.
29. *Weiss, B. P., L. E. Fong, H. Vali, E. A. *Lima, F. J. Baudenbacher (2008) Paleointensity of the ancient Martian magnetic field, *Geophys. Res. Lett.*, **35**, L23207, doi: 10.1029/2008GL035585.
28. *Weiss, B. P., S. Berdahl, L. T. Elkins-Tanton, S. Stanley, E. A. *Lima, L. *Carporzen (2008) Magnetism on the angrite parent body and the early differentiation of planetesimals, *Science*, **322**, 713-716.
27. *Louzada, K. L., B. P. *Weiss, A. C. Maloof, S. T. Stewart, N. Swanson-Hysell, S. A. Soule (2008) Paleomagnetism of Lonar Crater, India, *Earth Planet. Sci. Lett.*, **275**, 308-319.
26. *Weiss, B. P., E. A. *Lima, L. E. Fong, F. J. Baudenbacher (2007) Paleointensity of the Earth's magnetic field using SQUID microscopy, *Earth Planet. Sci. Lett.*, **264**, 61-71.

25. *Weiss, B. P., E. A. *Lima, L. E. Fong, F. J. Baudenbacher (2007) Paleomagnetic analysis using SQUID microscopy, *J. Geophys Res.*, **112**, B09105, doi:10.1029/2007JB004940.
24. Maloof, A.C., R. E. Kopp, J. P. Grotzinger, D.A. Fike, T. Bosak, H. Vali, P. M. Poussart, B.P. *Weiss, and J. L. Kirschvink (2007) Sedimentary iron cycling and the origin and preservation of magnetization in platform carbonate muds, Andros Island, Bahamas, *Earth Planet. Sci. Lett.*, **259**, 581-598.
23. *Louzada, K. L., S. T. Stewart, B. P. *Weiss (2007) The effect of shock on the magnetic properties of pyrrhotite, the Martian crust, and meteorites, *Geophys. Res. Lett.*, **34**, L05204, doi:10.1029/2006GL027685.
22. Kopp, R. E., C. Z. Nash, A. Kobayashi, B. P *Weiss, D. A. Bazylinski, J. L. Kirschvink (2006) Ferromagnetic resonance spectroscopy for assessment of magnetic anisotropy and magnetostatic interactions: a case study of mutant magnetotactic bacteria, *J. Geophys. Res.*, 111, B12S25, doi:10.1029/2006 JB004529.
21. *Maloof, A. C., G. P. Halverson, J. L. Kirschvink, D. P. Schrag, B. P. *Weiss, P. F. Hoffman (2006) Combined paleomagnetic, isotopic and stratigraphic evidence for true polar wander from the Neoproterozoic Akademikerbreen Group, Svalbard, *GSA Bulletin*, **118**, 1099-1124.
20. Kopp, R. E., B. P *Weiss, A. C Maloof, H. Vali, C. Z Nash, J. L. Kirschvink (2006) Chains, clumps, and strings: Magnetofossil taphonomy with ferromagnetic resonance spectroscopy, *Earth Planet. Sci. Lett.*, **247**, 10-26.
19. Wieczorek, M. A., B. L. Jolliff, A. Khan, M. E. Pritchard, B. P. *Weiss, J. Williams, L. L. Hood, K. Righter, C. R. Neal, C. K. Shearer, I. S. McCallum, S. Tompkins, B. R. Hawke, C. Peterson, J. J. Gillis, and B. Bussey (2006) The constitution and structure of the lunar interior, in *New Views of the Moon*, *Rev. Mineral. Geochem.* **60**, 221-364.
18. Gattacceca, J., M. Boustié, B. P. *Weiss, P. Rochette, E. A. *Lima, L. E. Fong, F. J. Baudenbacher, (2006) Investigating impact demagnetization through laser impacts and SQUID microscopy, *Geology*, **34**, 333-336.
16. *Louzada, K. L., S. T. Stewart, and B. P. *Weiss (2005). Shock demagnetization of pyrrhotite ($Fe_{1-x}S$, $x \leq 0.13$) and implications for the Martian crust and meteorites, *Shock Compression of Condensed Matter-2005*. *AIP Conf. Proc*., **845**, 1476-1479.
15. Shuster, D. L. and B. P. *Weiss (2005) Martian surface paleotemperatures from thermochronology of meteorites, *Science*, **309**, 594-597.
14. Storrs, A. D., C. Dunne, J.-M. Conan, L. Mugnier, B. P. *Weiss, and B. Zellner (2005) A closer look at main belt asteroids 1: WF/PC images, *Icarus*, **73**, 409-416.
13. Vali, H., *Weiss, B. P., Li, Y., Sears, S. K., Kim, S. S., Kirschvink, J. L., and Zhang, C. (2004) Formation of tabular single domain magnetite induced by *Geobacter metallireducens* GS-15, *Proc. Natl. Acad. Sci. USA*, **101**, 16121-16126.
12. *Weiss, B. P., S. S. Kim, J. L. Kirschvink, R. E. Kopp, M. Sankaran, A. Kobayashi, and A. Komeili (2004) Ferromagnetic resonance and low-temperature magnetic tests for biogenic magnetite, *Earth Planet. Sci. Lett.*, **224**, 73-89.
11. *Weiss, B. P., S. S. Kim, J. L. Kirschvink, R. E. Kopp, M. Sankaran, A. Kobayashi, and A. Komeili (2004) Magnetic tests for magnetosome chains in Martian meteorite ALH84001, *Proc. Natl. Acad. Sci. USA*, **101**, 8281-8284.
10. Moore, J. M., L. A. Leshin, D. D. Bogard, C. K. Shearer, N. G. Barlow, A. F. C. Haldemann, R. J. Wilson, B. P. *Weiss, A. H. Treiman, R. N. Clark, S. M. Clifford (2002) Mars: Its place in solar system exploration, in *The Future of Solar System*

Exploration, 2003-2013: Community Contributions to the NRC Solar System Exploration Decadal Survey, Ed. M. V. Sykes (Astronomical Society of the Pacific, San Francisco), *ASP Conf. Series*, **272**, p. 155-158.

9. *Weiss, B. P., D. L. Shuster, and S. T. Stewart (2002) Temperatures on Mars from $^{40}Ar/^{39}Ar$ thermochronology of ALH84001, *Earth Planet. Sci. Lett*, **201**, 465-472.

8.*Weiss, B. P., H. Vali, F. J. Baudenbacher, J. L. Kirschvink, S. T. Stewart, and D. L. Shuster (2002) Records of an ancient Martian magnetic field in ALH84001, *Earth Planet. Sci. Lett.*, **201**, 449-463.**
***One of top 20 most cited Mars papers published between 2002-2004, ISI Essential Science Indicators Mars Special Topics*

7. Kirschvink, J. L. and B. P. *Weiss (2002) Mars, panspermia, and the origin of life: Where did it all begin? *Palaeontologia Electronica*, **4**, 2, editorial 2: 8p. (http://palaeo-electronica.org/2001_2/editor/mars.htm).

6. *Weiss, B. P., F. J. Baudenbacher, J. P. Wikswo, and J. L. Kirschvink (2001) Magnetic microscopy promises a leap in sensitivity and resolution, *Eos Trans. AGU*, **82**, 513 & 518.

4. *Weiss, B. P., J. L. Kirschvink, F. J. Baudenbacher, H. Vali, N. T. Peters, F. A. Macdonald, and J. P. Wikswo (2000) A low temperature transfer of ALH84001 from Mars to Earth, *Science*, **290**, 791-795.

3. *Weiss, B. P. and A. P. Ingersoll (2000) Cold spots in the martian polar regions: Evidence for carbon dioxide depletion?, *Icarus*, **144**, 432-435.

2. *Weiss, B. P., Y. L. Yung, and K. H. Nealson (2000) Atmospheric energy for subsurface life on Mars? *Proc. Natl. Acad. Sci. USA*, **97**, 1395-1399.

1. Storrs, A., B. *Weiss, B. Zellner, W. Burleson, R. Sichitiu, E. Wells, C. Kowal, and D. Tholen (1999) Imaging observations of asteroids with Hubble Space Telescope, *Icarus,* **137**, 260-268.

Popular Articles

66. *Fu, R. R. and B. P. *Weiss (2013) An ancient magnetic field on asteroid Vesta, *Meteorite Magazine*, **19**, 28-32.

17. Warmflash, D. and B. *Weiss (2005) Did life come from another world? *Scientific American*, **293**, 64-71.

5. *Weiss, B. P. and J. L. Kirschvink (2000) Life from space? Testing panspermia with Martian meteorite ALH84001, *The Planetary Report*, November/December, 8-11.

Talks and Presentations

Invited

2020:

Department of Earth and Planetary Sciences, University of California, Santa Cruz (virtual), September

Geoclub Seminar, Division of Geological and Planetary Sciences, Caltech (virtual), August

Mars 2020 Science Discussion (virtual), May

Haystack Observatory (virtual), May

National Space Institute, Technical University of Denmark, Copenhagen, Denmark, February

EAPS Active Talk Series seminar, MIT, Cambridge, MA, February

2019:

Magnetic Imaging Workshop, Berkeley, CA, December
Sixth Psyche Team Meeting, Palo Alto, CA, October
Department of Physics, Amherst College, Amherst, MA, September
International Union of Geology and Geophysics, abstract #IUGG19-4429 Montréal, QC, Canada, July
Workshop on the Core of the Moon, Marseille, France, June
Magnetometer talk at Fifth Psyche Team Meeting, Tempe, AZ, April-May
Dynamo talk at Fifth Psyche Team Meeting, Tempe, AZ, April-May
Breakthrough Discuss, Breakthrough Institute, U. C. Berkeley, Berkeley, CA, April
SpaceIL Science Team meeting, Cocoa Beach, FL, February
Hong Kong MIT Alumni Club, Hong Kong, China, January

2018:

American Geophysical Union, Abstract P52B-01, Washington, D.C., December
University of California, Los Angles Institute for Planets and Exoplanets/Planetary seminar, Los Angeles, CA, November
California Institute of Technology Yuk Lunch, Pasadena, CA, November
Brown University SSERVI seminar, Providence, RI, November
University of Cambridge Institute of Astronomy, Cambridge, UK, November
Third Psyche Team Meeting, Phoenix, AZ, May
Second International Conference on Mars Sample Return, abstract #6099, Berlin, Germany, April

2017:

Second Psyche Team Meeting, New Orleans, LA, December
University of Cambridge Department of Earth Sciences, Cambridge, UK, September
The First Billion Years: Accretion: Building New Words, Houston, TX, August
Interdisciplinary Workshop on Accretion and Early Differentiation of the Earth and Terrestrial Planets, Nice, France, May
First Psyche Team Meeting, Arizona State University, Tempe, AZ, May
MIT Alumni Club, Cleveland, OH, April
Walsworth group meeting, Harvard-Smithsonian Center for Astrophysics and Department of Physics, Harvard University, February
Magnetics Information Consortium (MagIC) Science and Database Workshop, La Jolla, CA, February

2016:

Missing Links from Disks to Planets, Budapest, Hungary, October
Primitive Material in the Solar System II: The Outer Solar System Perspective, Villefranche, France, June
Workshop on Young Solar Systems, Sant Cugat, Spain, April
Jet Propulsion Laboratory Mars Exploration Advanced Development meeting, Pasadena CA, March

Second Annual Workshop on the Potential of Mars Returned Sample Science, The Woodlands, TX, March

2015:

U. S. Rosetta Caucus, San Francisco, CA, December

Keynote lecture, Tokyo Institute of Technology Earth Life Science Institute Workshop "Geophysical and Geochemical Constraints on Early Planetary Dynamos", Kawaguchiko Lake, Japan, September

Weizmann Institute of Science, Rehovot, Israel, May

Ben Gurion University, Israel, Beersheba, Israel, May

University of California, Davis Department of Earth and Planetary Sciences, Davis, CA, April

Ringberg Workshop "Magnetorotational Instability Confronts the Observations", Ringberg Castle, Ringberg, Germany, April 2015

University of Oxford Department of Earth Science, Oxford, UK, April 2015

Stanford University Department of Geological and Environmental Sciences, Stanford, CA, February

University of California, Los Angeles Planetary Science Seminar, Los Angeles, CA, January

2014:

U. S. Rosetta Caucus, San Francisco, CA, December

University of California, Berkeley Paleomagnetism Laboratory, Berkeley, CA, November

University of California Berkeley Center for Integrative Planetary Science, Berkeley, CA, November

University of California, Berkeley Miller Institute for Basic Research, Berkeley, CA, October

Psyche mission science team meeting, Arizona State University, Tucson, AZ, September

University of California Berkeley Department of Earth and Planetary Sciences, Berkeley, CA, September

Korea Astronomy and Space Science Institute, South Korea, May

Lunar Science Workshop, Kyung Hee University, South Korea, May

Magnetics Information Consortium (MagIC) Science and Database Workshop, La Jolla, CA, May

2013:

AGU Fall Meeting, Abstract P51H-04, San Francisco, CA, December

Harvard-Smithsonian Center for Astrophysics Institute for Theory and Computation luncheon, Cambridge, MA, November

Harvard-Smithsonian Center for Astrophysics colloquium, Cambridge, MA, November

Stanford-MIT-University of Science and Technology (USTC) Faculty Forum, USTC, Hefei, China, September

Gordon Research Conference on the Origins of Solar Systems, South Hadley, MA, June

International Primitive Body Exploration Working Group workshop, Nice, France, May

Frontiers Lecture, MIT Club of New York, Hayden Planetarium, New York, NY, April

Rensselaer Polytechnic Institute Astrobiology Seminar, Troy, NY, April

California Institute of Technology Division of Geological and Planetary Sciences Seminar, Pasadena, CA, April

2012:

AGU Fall Meeting, Abstract P34B-01, San Francisco, CA, December
Philae Lander Science Working Team meeting, Seggau Castle, Seggau, Austria, October
MIT-France meeting "Moteur de Recherche: Ten Years of Seeding France-MIT Research Collaborations", Cambridge, MA, October
Rice University Department of Earth Science, Houston, TX, October
European Planetary Science Congress, abstract #EPSC2012-778, Madrid, Spain, September
Jet Propulsion Laboratory Innovation Foundry, Pasadena, CA, August
Science for the Public Lecture Series, Belmont, MA, May
University of Chicago Department of Geophysical Sciences, Chicago, IL, May
Vanderbilt University Shanks Mini-Symposium on Inverse Magnetization Problems, Vanderbilt University, Nashville, TN, April
Vernadsky Institute-Brown University Microsymposium 53, The Woodlands, TX, March
University of California, Santa Cruz Department of Earth and Planetary Sciences, Santa Cruz, CA, February

2011:

31st Rosetta Science Working Team meeting, Noordwijk, The Netherlands, November
OSIRIS-REx Science Team Meeting, Tucson, AZ, November
Public lecture, MIT Club of Boston, Cambridge, MA, October
Brown University-MIT NASA Lunar Science Institute, Designing a 500-Day Mission to the Apollo 15 Hadley-Apennine Region with Apollo 15 Commander Dave Scott, Providence, RI, May
Max-Planck Institute for Solar System Research, Lindau, Germany, April
Southwest Research Institute, Boulder, CO, April
Public lecture, MIT Club of Houston, Houston, TX, March
Johns Hopkins University Futures Seminar, Department of Earth and Planetary Sciences, Baltimore, MD, March
Lamont-Doherty Earth Observatory, Columbia University, Marine Geology and Geophysics and Seismology and Geology and Tectonophysics Joint Seminar, Palisades, NY, February

2010:

Ludwig Maximilians Universität Department of Earth and Environmental Science, Munich, Germany, November
First Results of the Flyby at 21 Lutetia: A Scientific Workshop of the Rosetta Science Working Team, Granada, Spain, October
University of Minnesota Department of Geology and Geophysics, Minneapolis, MN, October
Chondrules: Their Role in Early Solar System History symposium, New York, NY, July,
Jet Propulsion Laboratory, Pasadena, CA, July
Beijing Earth and Planetary Interiors Symposium, Beijing, China, July

NASA Lunar Science Institute Lunar Media Workshop, Boulder, CO, April
Harvard University Department of Earth and Planetary Sciences, Cambridge, MA, April
Princeton Plasma Physics Laboratory, Princeton, NJ, February

2009:
MIT-France Endowment Board Meeting, Cambridge, MA, October
University of Hawaii at Manoa, Honolulu, Hawaii, September
Musée National d'Histoire Naturelle, Paris, France, July
Institut de Physique du Globe de Paris, Paris, France, June
Ringberg Workshop on "The Astrophysics of the Magnetorotational Instability and Related Processes," Ringberg Castle, Kreuth, Germany, April
European Geological Union (EGU) General Assembly, abstract #EGU2009-11570, Vienna, Austria, April
Workshop on Quantifying Martian Stratigraphy: Chronology, Composition, and Morphology, Keck Institute for Space Studies, Caltech, Los Angeles, CA, February
Brown University Department of Geological Sciences Colloquium, February

2008:
AGU Fall Meeting, San Francisco, December
Workshop on Planetary Magnetism, International Space Science Institute, Bern, Switzerland, September
International Conference on Rock Magnetism, Cargèse, France, June
Princeton University Solid Earth Seminar, Princeton, NJ, May
University of California, Santa Cruz Department of Earth and Planetary Sciences, Santa Cruz, California, May

2007:
American Museum of Natural History, New York, NY, December
International Union of Geodesy and Geophysics, Perugia, Italy, July

2006:
Seventh Santa Fe Conference on Rock Magnetism, Santa Fe, NM, June
AGU Spring Meeting, *Eos Trans. AGU,* 87 (36), Jt. Assem. Suppl., Abstract GP24A-01, Washington, DC, May
University of Washington Astrobiology Seminar, May
University of Washington Department of Earth and Space Sciences, May
University of Toronto Department of Physics, Toronto, Canada, March

2005:
Harvard University Department of Earth and Planetary Sciences, Cambridge, MA, October
Woods Hole Oceanographic Institute Geodynamics Seminar, Woods Hole, MA, March
Yale Department of Geology and Geophysics, New Haven, CT, February

2004:

Invited speaker, Chinese-American Beckman Frontiers of Science Symposium, U.S. National Academy of Sciences, Irvine, CA, October
Petroleum Development of Oman meeting at MIT, Cambridge, MA, September
University of Colorado at Boulder Department of Geological Sciences, Boulder, CO, April

2003:
AGU Fall Meeting, San Francisco, CA, *Eos Trans. AGU,* 84 (46), Fall Meet. Suppl., Abstract GP22A-02, December
Exobiology Principal Investigators' Seventh Triennial Science Conference, NASA Ames Research Center, Mountain View, CA, August
Petroleum Development Oman, Muscat, Oman, May
NASA Jet Propulsion Laboratory, Pasadena, CA, January

2002:
UCLA Planetary Science, Los Angeles, CA, October, 2002
Thirteenth International Conference on Biomagnetism, Jena, Germany, August, 2002
Meeting on Magnetotactic Bacteria on Earth, Mars and in ALH84001, NASA Ames Research Center, Mountain View, CA, June, 2002
Caltech Alumni Seminar Day, Pasadena, CA, May, 2002
MIT Department of Earth, Atmospheric and Planetary Sciences, Cambridge, MA, April, 2002
Everhart Lecture, Caltech, Pasadena, CA, February, 2002

2001:
Mars Atmospheric Chemistry and Astrobiology Conference, Caltech, Pasadena, CA, December
SPIE 46th Annual Meeting International Symposium on Optical Science and Technology, San Diego, CA, July
Caltech Geological and Planetary Sciences 75th Anniversary Reunion, Pasadena, CA, May

2000 and earlier:
AGU Fall Meeting, *Eos Trans. AGU*, 81 (48), Fall Meet. Suppl., Abstract GP12B-01, San Francisco, CA, December, 2000
Fifth Santa Fe Conference on Rock Magnetism, Santa Fe, NM, July, 2000
NASA Jet Propulsion Laboratory, Pasadena CA, 1999

Contributed as Lead Author or Presenter

2019:
AGU Fall Meeting, Abstract GP33A-05, San Francisco, CA, December

2018:
Fourth Mars 2020 Landing Site Workshop, Glendale, CA, October
Second International Conference on Mars Sample Return, abstract #6099, Berlin, Germany, April
LPSC XLVIX, abstract #1111, The Woodlands, TX, March

LPSC XLVIX, abstract #1385, The Woodlands, TX, March

2017:

PICS Seminar, Department of EAPS, MIT, February
Mars 2020 Third Landing Site Workshop, Monrovia, CA, February

2016:

AGU Fall Meeting, Abstract GP23C-1350, San Francisco, CA, December
AGU Fall Meeting, Abstract V11D-05, San Francisco, CA, December
Solar System Conference, Sapporo, Japan, February

2015:

AGU Fall Meeting, Abstract GP23B-1308, San Francisco, CA, December
Fifth Hayabusa 2 Joint Science Team Meeting, Sagamihara, Japan, December

2014:

AGU Fall Meeting, Abstract GP51B-3733, San Francisco, CA, December
Lunar and Planetary Science Conference (LPSC) XLV, abstract #2696, The Woodlands, TX, March

2013:

AGU Fall Meeting, Abstract V33D-2800, San Francisco, CA, December
Workshop on Planetesimals, Washington, DC, October
Second Hayabusa 2 Joint Science Team Meeting, Sagamihara, Japan, September

2011:

EGU, abstract #EGU2011-12253, Vienna, Austria, April
Workshop on the Importance of Sample Return for Solar System Science, abstract #5049, Houston, TX, March
LPSC XLII, abstract #2077, Houston, TX, March

2010:

AGU Fall Meeting, Abstract GP43B-1055, San Francisco, CA, December
American Astronomical Society (AAS) Division for Planetary Sciences (DPS), abstract #02.05, Pasadena, CA, October
UCLA planetary magnetometer meeting, Los Angeles, CA, June
Scientific and Technological Aspects of a Sample Return Mission to a Near Earth Asteroid: The ESA Cosmic Vision M3 mission MarcoPolo-R, Frascati, Italy, June
Lunar and Planetary Science Conference (LPSC) XLI, abstract #1688, Houston, TX, March

2009 and earlier:

LPSC XL, abstract #2237, Houston, TX, March, 2009
LPSC XXXIX, abstract #2143, Houston, TX, March, 2008
LPSC XXXVIII, abstract #2360, Houston, TX, March, 2007

AGU Fall Meeting, *Eos Trans. AGU*, 86 (52), Fall Meet. Suppl., abstract GP41C-04, San Francisco, CA, December 2005
LPSC XXXVI, abstract #1156, Houston, TX, March, 2005
Vernadsky Institute-Brown University Microsymposium 41, Houston, TX, March, 2005
AGU Spring Meeting, Washington, DC, *Eos Trans. AGU*, 83 (19), Fall Meet. Suppl., abstract GP51A-05, December, 2004
Sixth Annual Japanese-American Beckman Frontiers of Science Symposium, Kanagawa, Japan, December, 2003
Exobiology Principal Investigators' Seventh Triennial Science Conference, NASA Ames Research Center, Mountain View, CA, August, 2003
Goldschmidt Conference, Davos, Switzerland, *Geochim. Cosmochim. Acta Suppl.* 66, (15A): A827-A827, August, 2002
AGU Spring Meeting, Washington, DC, *Eos Trans. AGU*, 83 (19), Spring Meet. Suppl., abstract GP51A-05, May, 2002
LPSC XXXIII, abstract #1991, Houston, TX, March, 2002
LPSC XXXII, abstract #1244, Houston, TX, March, 2001
Caltech Planetary Science, Pasadena, CA, November, 2000
LPSC XXXI, abstract #2078, Houston, TX, March, 2000
Caltech Planetary Science, Pasadena, CA, October, 1999
AGU Fall Meeting, San Francisco, CA, December, 1999
The Fifth International Conference on Mars, abstracts #6204 and #6192, Pasadena, CA, July, 1999
AGU Fall Meeting, San Francisco, CA, December, 1998

Coauthored Abstracts and Presentations

2020:

Many AGU
GSA Annual Meeting, paper #95-2, Virtual, October
GSA Annual Meeting, paper #173-7, Virtual, October
GSA Annual Meeting, paper #248-4, Virtual, October
European Planetary Science Congress, abstract #EPSC2020-988, Granada, Spain, September
43rd COSPAR Scientific Assembly, Sidney, Australia, August
Atom Probe Tomography and Microscopy conference, Oxford, UK, July
Goldschmidt Conference, Honolulu, HI, June
Lunar Surface Science Workshop, abstract #5148, Denver, CO, April
LPSC LI, abstract #1267, The Woodlands, TX, March
LPSC LI, abstract #1327, The Woodlands, TX, March
LPSC LI, abstract #1409, The Woodlands, TX, March
LPSC LI, abstract #1486, The Woodlands, TX, March
LPSC LI, abstract #2283, The Woodlands, TX, March

2019:

AGU Fall Meeting, Abstract DI14A-02, San Francisco, CA, December
AGU Fall Meeting, Abstract GP22A-08, San Francisco, CA, December
AGU Fall Meeting, Abstract GP31B-0741, San Francisco, CA, December

AGU Fall Meeting, Abstract GP31A-02, San Francisco, CA, December
AGU Fall Meeting, Abstract GP43B-0798, San Francisco, CA, December
AGU Fall Meeting, Abstract T51F-0347, San Francisco, CA, December
AGU Fall Meeting, Abstract U54A-06, San Francisco, CA, December
Oran et al., Workshop on the Core of the Moon, Marseille, France, June
Nichols et al., Workshop on the Core of the Moon, Marseille, France, June
Fifth Psyche Team Meeting, Tempe, AZ, April-May
Asian Oceania Geosciences Meeting, abstract #PS08-A002, Singapore, July-August
Fifth Psyche Team Meeting, Tempe, AZ, April-May
European Geological Union, abstract #EGU2019-9508, Vienna, Austria, April
European Geological Union, abstract #EGU2019-10687, Vienna, Austria, April
European Geological Union, abstract #EGU2019-12275, Vienna, Austria, April
LPSC L, abstract #1338, The Woodlands, TX, March
LPSC L, abstract #1728, The Woodlands, TX, March
LPSC L, abstract #2049, The Woodlands, TX, March
****Dwornik Award for Best Graduate Oral Presentation to Clara Maurel*
LPSC L, abstract #2290, The Woodlands, TX, March
LPSC L, abstract #2447, The Woodlands, TX, March
LPSC L, abstract #2710, The Woodlands, TX, March
LPSC L, abstract #2720, The Woodlands, TX, March
LPSC L, abstract #2758, The Woodlands, TX, March

2018:

AGU Fall Meeting, Abstract DI21B-0014, Washington, DC, LA December
AGU Fall Meeting, Abstract GP11A-03, Washington, DC, LA, December
AGU Fall Meeting, Abstract GP13A-22, Washington, DC, LA December
AGU Fall Meeting, Abstract GP21B-0657, Washington, DC, December
AGU Fall Meeting, Abstract GP21C-0669, Washington, DC, December
AGU Fall Meeting, Abstract GP32A-08, Washington, DC, December
AGU Fall Meeting, Abstract U12B-02, Washington, DC, December
AGU Fall Meeting, Abstract P13B-05, Washington, DC, December
AGU Fall Meeting, Abstract P22A-08, Washington, DC, December
AGU Fall Meeting, Abstract P53D-2992, Washington, DC, December
Fourth Psyche Team Meeting, Baltimore, MD, October
16th Castle Meeting: New Trends on Paleo, Rock and Environmental Magnetism, *Publications of the Institute of Geophysics, Polish Academy of Sciences, Geophysical Data Bases, Processing and Instrumentation*, **423** (C-112), 111-112, DOI: 10.25171/InstGeoph_PAS_Publs-2018-057, Chęciny, Poland, June
Asian Oceania Geosciences Meeting, abstract #PS13-A005, Hawaii, June
Second International Conference on Mars Sample Return, abstract #6041, Berlin, Germany, April
Second International Conference on Mars Sample Return, abstract #6042, Berlin, Germany, April
Second International Conference on Mars Sample Return, abstract #6043, Berlin, Germany, April

Second International Conference on Mars Sample Return, abstract #6045, Berlin, Germany, April
Second International Conference on Mars Sample Return, abstract #6046, Berlin, Germany, April
Second International Conference on Mars Sample Return, abstract #6049, Berlin, Germany, April
Second International Conference on Mars Sample Return, abstract #6051, Berlin, Germany, April
Second International Conference on Mars Sample Return, abstract #6052, Berlin, Germany, April
Second International Conference on Mars Sample Return, abstract #6053, Berlin, Germany, April
Second International Conference on Mars Sample Return, abstract #6054, Berlin, Germany, April
Second International Conference on Mars Sample Return, abstract #6055, Berlin, Germany, April
Second International Conference on Mars Sample Return, abstract #6056, Berlin, Germany, April
Second International Conference on Mars Sample Return, abstract #6078, Berlin, Germany, April
Second International Conference on Mars Sample Return, abstract #6089, Berlin, Germany, April
Second International Conference on Mars Sample Return, abstract #6102, Berlin, Germany, April
Second International Conference on Mars Sample Return, abstract #6210, Berlin, Germany, April
European Geological Union, abstract #EGU2018-17890, Vienna, Austria, April
LPSC XLVIX, abstract #1085, The Woodlands, TX, March
LPSC XLVIX, abstract #1145, The Woodlands, TX, March
LPSC XLVIX, abstract #1171, The Woodlands, TX, March
LPSC XLVIX, abstract #1202, The Woodlands, TX, March
LPSC XLVIX, abstract #1252, The Woodlands, TX, March
LPSC XLVIX, abstract #1516, The Woodlands, TX, March
LPSC XLVIX, abstract #1976, The Woodlands, TX, March
LPSC XLVIX, abstract #2642, The Woodlands, TX, March
LPSC XLVIX, abstract #2961, The Woodlands, TX, March

2017:

Oran and Weiss, Second Psyche Science Team Meeting, New Orleans, LA, December
Maurel and Weiss, Second Psyche Science Team Meeting, New Orleans, LA, December
AGU Fall Meeting, Abstract DI33B-1631, New Orleans, LA, December
AGU Fall Meeting, Abstract GP22A-08, New Orleans, LA December
AGU Fall Meeting, Abstract GP34A-04, New Orleans, LA December
AGU Fall Meeting, Abstract GP34A-06, New Orleans, LA December**
****Winner, Outstanding Student Paper Award to Clara Maurel*
AGU Fall Meeting, Abstract GP41A-0641, New Orleans, LA December

AGU Fall Meeting, Abstract P33G-02, New Orleans, LA December
AGU Fall Meeting, Abstract P53F-07, New Orleans, LA December
GSA Annual Meeting, paper #120-3, Seattle, WA, October
Chinese Geosciences Union annual meeting, Wang, H. et al., "Lifetime of the Lunar Dynamo Constrained by the Young Apollo Regolith Breccia 15015", Beijing, China, October
Chinese Geosciences Union annual meeting, Wang, H. et al., "Initial ^{60}Fe abundance in the solar nebula constrained by delayed onset of a planetesimal dynamo", Beijing, China, October
Joint IAPSO-IAMAS-IAGA Assembly, abstract #1179, Cape Town, South Africa, August-September
Fourth International Conference on Early Mars: Geologic, Hydrologic, and Climatic Evolution and the Implications for Life, abstract #3051, Flagstaff, AZ
Fourth International Conference on Early Mars: Geologic, Hydrologic, and Climatic Evolution and the Implications for Life, abstract #3024, Flagstaff, AZ
Third Beijing International Forum on Lunar and Deep-space Exploration, Beijing, China, Wang, H. et al., "Lifetime of the Lunar Dynamo Constrained by the Young Apollo Regolith Breccia 15015", Beijing, China, September
Third Beijing International Forum on Lunar and Deep-space Exploration, Beijing, China, Wang, H. et al., "Initial ^{60}Fe abundance in the solar nebula constrained by delayed onset of a planetesimal dynamo", Beijing, China, September
Goldschmidt Conference, Fu et al., Keynote to session 02g, Paris, France, August
International Conference on Rock Magnetism, Utrecht, Netherlands, July
48th Annual Meeting of the APS Division of Atomic, Molecular and Optical Physics, abstract BAPS.2017.DAMOP.Q1.16, Sacramento, June
New Views of the Moon 2 – Europe, abstract #6014, Muenster, Germany, May
New Views of the Moon 2 – Europe, abstract #6025, Muenster, Germany, May
New Views of the Moon 2 – Europe, abstract #6036, Muenster, Germany, May
JpGU-AGU Joint Meeting, Chiba, Japan, May
LPSC XLVIII, abstract #1439, The Woodlands, TX, March
LPSC XLVIII, abstract #1462, The Woodlands, TX, March
LPSC XLVIII, abstract #1631, The Woodlands, TX, March
LPSC XLVIII, abstract #1718, The Woodlands, TX, March
LPSC XLVIII, abstract #2648, The Woodlands, TX, March
LPSC XLVIII, abstract #2958, The Woodlands, TX, March
Workshop on Chondrules and the Protoplanetary Disk, abstract #2043, London, UK, February

2016:

AGU Fall Meeting, Abstract GP13A-05, San Francisco, CA, December
AGU Fall Meeting, Abstract GP13A-06, San Francisco, CA, December
AGU Fall Meeting, Abstract GP23C-1351, San Francisco, CA, December
AGU Fall Meeting, Abstract GP23C-1352, San Francisco, CA, December
AGU Fall Meeting, Abstract P43A-2085, San Francisco, CA, December
AGU Fall Meeting, Abstract P51A-2124, San Francisco, CA, December
AGU Fall Meeting, Abstract P53D-02, San Francisco, CA, December

GSA Annual Meeting, paper #141-15, Denver, CO, September
16th European Microscopy Conference, doi:10.1002/9783527808465.EMC2016.5188, Lyon, France, August
2016 Microscopy and Microanalysis Meeting, abstract #0741-001204, Columbus, OH, July
11th International Conference on Numerical Modeling of Space Plasma Flows, Monterey, CA, June
Advances in Lunar Magnetism: From Paleomagnetism to Dynamos, Mighani et al., Corsica, France, June
Advances in Lunar Magnetism: From Paleomagnetism to Dynamos, Oran et al., Corsica, France, June
Advances in Lunar Magnetism: From Paleomagnetism to Dynamos, Wang et al., Corsica, France, June
Advances in Lunar Magnetism: From Paleomagnetism to Dynamos, Tikoo et al., Corsica, France, June
Beijing Earth and Planetary Interior Symposium, Beijing, China, Wang et al., June
Beijing Earth and Planetary Interior Symposium, Beijing, China, Fu et al., June
47th Annual Meeting of the APS Division of Atomic, Molecular and Optical Physics, abstract #G5.00008, Providence, RI, May
47th Annual Meeting of the APS Division of Atomic, Molecular and Optical Physics, abstract # K1.00174, Providence, RI, May
EGU General Assembly, abstract #EGU2016-11367, Vienna, Austria, March
LPSC XLVII, abstract #1366, The Woodlands, TX, March
LPSC XLVII, abstract #1546, The Woodlands, TX, March
LPSC XLVII, abstract #1631, The Woodlands, TX, March
LPSC XLVII, abstract #1661, The Woodlands, TX, March
LPSC XLVII, abstract #2662, The Woodlands, TX, March
LPSC XLVII, abstract #3057, The Woodlands, TX, March

2015:

AGU Fall Meeting, abstract GP33A-01, San Francisco, CA, December
AGU Fall Meeting, abstract GP33A-05, San Francisco, CA, December
AGU Fall Meeting, abstract T13A-2958, San Francisco, CA, December
AGU Fall Meeting, abstract GP43A-1236, San Francisco, CA, December
AGU Fall Meeting, abstract P13E-08, San Francisco, CA, December
AGU Fall Meeting, abstract P43F-08, San Francisco, CA, December
AGU Fall Meeting, abstract GP51C-02, San Francisco, CA, December
AGU Fall Meeting, abstract DI52A-04, San Francisco, CA, December
AGU Fall Meeting, abstract GP43BA-1249, San Francisco, CA, December
LatinMag, São Sebastião, Brazil, November
GSA Annual Meeting, paper #7-14, Baltimore, MD, October
Outer Planets Assessment Group, Laurel, MD, August
NASA Exploration Science Forum, Moffett Field, CA, July
APS Division of Atomic, Molecular, and Optical Physics, abstract #D.100088, Columbus, OH, June
EGU, abstract #EGU2015-15855, Vienna, Austria, March

EGU, abstract #EGU2015-3591, Vienna, Austria, March
EGU, abstract #EGU2015-8129, Vienna, Austria, March
LPSC XLVI, abstract #3000, The Woodlands, TX, March
LPSC XLVI, abstract #2987, The Woodlands, TX, March
LPSC XLVI, abstract #2516, The Woodlands, TX, March
LPSC XLVI, abstract #1632, The Woodlands, TX, March
LPSC XLVI, abstract #1587, The Woodlands, TX, March

2014:

U. S. Rosetta Caucus, C. T. Russell et al., San Francisco, CA, December
AGU Fall Meeting, abstract GP33B-02, San Francisco, CA, December
AGU Fall Meeting, abstract GP51B-3740, San Francisco, CA, December
AGU Fall Meeting, abstract GP51B-3739, San Francisco, CA, December
AGU Fall Meeting, abstract GP51B-3738, San Francisco, CA, December
AGU Fall Meeting, abstract GP51B-3737, San Francisco, CA, December
AGU Fall Meeting, abstract GP51B-3736, San Francisco, CA, December
AGU Fall Meeting, abstract GP51B-3734, San Francisco, CA, December
AGU Fall Meeting, abstract GP54A-01, San Francisco, CA, December
AGU Fall Meeting, abstract T12A-03, San Francisco, CA, December
GSA Annual Meeting, paper #159-4, Vancouver, Canada, October
GSA Annual Meeting, paper #344-11, Vancouver, Canada, October
77th Annual Meeting of the Meteoritical Society, abstract #5292, Casablanca, Morocco, September
EGU, abstract #EGU2014-4716, Vienna, Austria, March-April
LPSC XLV, abstract #1253, The Woodlands, TX, March
LPSC XLV, abstract #1420, The Woodlands, TX, March
LPSC XLV, abstract #1972, The Woodlands, TX, March
LPSC XLV, abstract #2092, The Woodlands, TX, March
LPSC XLV, abstract #2064, The Woodlands, TX, March
LPSC XLV, abstract #2178, The Woodlands, TX, March

2013:

AGU Fall Meeting, abstract GP33A-02, San Francisco, CA, December
AGU Fall Meeting, abstract GP41D-1156, San Francisco, CA, December
AGU Fall Meeting, abstract GP41D-1160, San Francisco, CA, December
AGU Fall Meeting, abstract GP41D-1165, San Francisco, CA, December
AGU Fall Meeting, abstract GP41D-1166, San Francisco, CA, December
AGU Fall Meeting, abstract GP43B-07, San Francisco, CA, December
AGU Fall Meeting, abstract GP53B-1139, San Francisco, CA, December
AGU Fall Meeting, abstract MR22-A-02, San Francisco, CA, December
AGU Fall Meeting, abstract P51A-1729, San Francisco, CA, December
AGU Fall Meeting, abstract PP51B-1960, San Francisco, CA, December
Beijing Earth and Planetary Interiors Symposium, Beijing China, June
AGU Meeting of the Americas, abstract GP24A-05, Cancun, Mexico, May
AGU Meeting of the Americas, abstract U34B-02, Cancun, Mexico, May
LPSC XLIV, abstract #2685, The Woodlands, TX, March

LPSC XLIV, abstract #2354, The Woodlands, TX, March
LPSC XLIV, abstract #2060, The Woodlands, TX, March
LPSC XLIV, abstract #1721, The Woodlands, TX, March
LPSC XLIV, abstract #1351, The Woodlands, TX, March
Vernadsky Institute-Brown University Microsymposium 54, The Woodlands, TX, March

2012:

AGU Fall Meeting, abstract GP21A-1151, San Francisco, December
AGU Fall Meeting, abstract GP41A-1095, San Francisco, December
AGU Fall Meeting, abstract T43D-2706, San Francisco, December
AGU Fall Meeting, abstract GP51A-1305, San Francisco, December
AGU Fall Meeting, abstract GP51A-1307, San Francisco, December
AGU Fall Meeting, abstract GP51A-1308, San Francisco, December
AGU Fall Meeting, abstract GP51B-03, San Francisco, December
AGU Fall Meeting, abstract GP51B-05, San Francisco, December
AGU Fall Meeting, abstract T43E-2721, San Francisco, December
EGU General Assembly, abstract #EGU2012-9373, Vienna, Austria, April
Eighth Santa Fe Conference on Rock Magnetism, Santa Fe, NM, June
LPSC XLIII, abstract #2691, The Woodlands, TX, March**
****Dwornik Award for Best Graduate Oral Presentation (Honorable Mention) at LPSC, 2012*
LPSC XLIII, abstract #2504, The Woodlands, TX, March
LPSC XLIII, abstract #1946, The Woodlands, TX, March**
****LPI Career Award, 2012*
LPSC XLIII, abstract #1925, The Woodlands, TX, March
LPSC XLIII, abstract #1690, The Woodlands, TX, March

2011:

U.S. Rosetta meeting, San Francisco, CA, December
AGU Fall Meeting, abstract GP23A-1042, San Francisco, CA, December
AGU Fall Meeting, abstract P21E-08, San Francisco, CA, December
AGU Fall Meeting, abstract GP21B-1001, San Francisco, CA, December
AGU Fall Meeting, abstract GP21B-1000, San Francisco, CA, December
AGU Fall Meeting, abstract P13D-1696, San Francisco, CA, December
AGU Fall Meeting, abstract GP11B-05, San Francisco, CA, December
AGU Fall Meeting, abstract GP11B-04, San Francisco, CA, December
AGU Fall Meeting, abstract GP11A-1027, San Francisco, CA, December
31st Rosetta Science Working Group Meeting, Noordwijk, The Netherlands, November
NASA Lunar Science Forum, S. M. Tikoo et al. "Fidelity of mare basalt paleomagnetic records and implications for an ancient lunar dynamo", Mountain View, CA, July
NASA Lunar Science Forum, C. Suavet et al. "Paleomagnetic record of mare basalt 10017", Mountain View, CA, July
European Planetary Science Conference-Division of Planetary Science (EPSC-DPS) Joint Meeting, abstract #EPSC-DPS2011-1646, Nantes, France, October
EPSC-DPS Joint Meeting, abstract #EPSC-DPS2011-1151, Nantes, France, October

Japan Geoscience Union Meeting, submission #00095 (SEM001-P02), Chiba City, Japan, May
EGU, abstract #EGU2011-1605, Vienna, Austria, April
LPSC XLII, CD-ROM abstract #1507, The Woodlands, TX, March
LPSC XLII, CD-ROM abstract #1696, The Woodlands, TX, March
LPSC XLII, CD-ROM abstract #1945, The Woodlands, TX, March
LPSC XLII, CD-ROM abstract #1675, The Woodlands, TX, March
Brown University-Vernadsky Institute Microsymposium 52, Houston, TX, March

2010:
AGU Fall Meeting, Abstract GP42A-01, San Francisco, CA, December
AGU Fall Meeting, Abstract GP42A-04, San Francisco, CA, December
AGU Fall Meeting, Abstract GP42A-05, San Francisco, CA, December
AGU Fall Meeting, Abstract GP43B-1049, San Francisco, CA, December
AGU Fall Meeting, Abstract GP43B-1058, San Francisco, CA, December
AGU Fall Meeting, Abstract P43A-07, San Francisco, CA, December
AGU Fall Meeting, Abstract DI33B-08, San Francisco, CA, December**
****Outstanding Student Paper Award, AGU Studies of the Earth's Deep Interior Section*
AAS DPS, abstract #02.04, Pasadena, CA, October
European Planetary Science Congress, abstract #EPSC2010-533, Rome, Italy, September
EGU General Assembly, abstract #EGU2010-13683, Vienna, Austria, April
EGU General Assembly, abstract #EGU2010-13971, Vienna, Austria, April
LPSC XLI, CD-ROM abstract #2705, The Woodlands, TX, March
LPSC XLI, CD-ROM abstract #2204, The Woodlands, TX, March**
****Dwornik Award for Best Graduate Oral Presentation at LPSC to Erin Shea*
LPSC XLI, CD-ROM abstract #1937, The Woodlands, TX, March
LPSC XLI, CD-ROM abstract #1625, The Woodlands, TX, March

2009:
AGU Fall Meeting, *Eos Trans. AGU*, 90 (52), Fall Meet. Suppl., Abstract GP34A-01, San Francisco, CA, December
AGU Fall Meeting, *Eos Trans. AGU*, 90 (52), Fall Meet. Suppl., Abstract GP34A-07, San Francisco, CA, December
AGU Fall Meeting, *Eos Trans. AGU*, 90 (52), Fall Meet. Suppl., Abstract GP41B-0830, San Francisco, CA, December
AGU Fall Meeting, *Eos Trans. AGU*, 90 (52), Fall Meet. Suppl., Abstract V41D-2206, San Francisco, CA, December
LPSC XL, CD-ROM abstracts #1293, Houston, TX, March

2008:
AGU Fall Meeting, *Eos Trans. AGU*, 89 (53), Fall Meet. Suppl., Abstract GP52A-08, San Francisco, CA, December
AGU Fall Meeting, *Eos Trans. AGU*, 89 (53), Fall Meet. Suppl., Abstract GP33B-02, San Francisco, CA, December

AGU Fall Meeting, *Eos Trans. AGU*, 89 (53), Fall Meet. Suppl., Abstract V51H-05, San Francisco, CA, December
AGU Fall Meeting, *Eos Trans. AGU*, 89 (53), Fall Meet. Suppl., Abstract GP21C-0792, San Francisco, CA, December
Workshop on the Early Solar System Impact Bombardment, abstract #3029, Houston, TX, November
Workshop on the Early Solar System Impact Bombardment, abstract #3028, Houston, TX, November
Workshop on the Early Solar System Impact Bombardment, abstract #3002, Houston, TX, November
Geological Society of America Annual Meeting, Paper #293-3, Houston, TX,
NASA Lunar Science Institute Lunar Science Conference, abstract #2131, Mountain View, CA, July
LPSC XXXIX, CD-ROM abstract #2521, Houston, TX, March
LPSC XXXIX, CD-ROM abstract #1825, Houston, TX, March

2007:
LPSC XXXVIII, CD-ROM abstract #2405, Houston, TX, March
LPSC XXXVIII, CD-ROM abstract #2344, Houston, TX, March
LPSC XXXVIII, CD-ROM abstract #2316, Houston, TX, March
Workshop on Science Associated with the Lunar Exploration Architecture, Tempe, AZ, February

2006:
AAS DPS 38, *Bulletin of the AAS*, 38, 3, abstract #13.02
AGU Fall Meeting, *Eos Trans. AGU*, 87 (52), Fall Meet. Suppl., abstract GP34A-06, San Francisco, CA, December
AGU Fall Meeting, *Eos Trans. AGU*, 87 (52), Fall Meet. Suppl., abstract MR51B-0968, San Francisco, CA, December
AGU Fall Meeting, *Eos Trans. AGU*, 87 (52), Fall Meet. Suppl., abstract GP23A-07, San Francisco, CA, December
Geological Society of America Annual Meeting, Paper #164-1, Philadelphia, PA
Geological Society of America Annual Meeting, Paper #164-6, Philadelphia, PA
Goldschmidt Conference, Abstract #206.00, *Geochim. Cosmochim. Acta Suppl.*, 70, 18, p. 330, Melbourne, Australia, August
Goldschmidt Conference, Abstract #206.00, *Geochim. Cosmochim. Acta Suppl.*, 70, 18, p. 320, Melbourne, Australia, August
Southern California Geobiology Symposium, Riverside, CA, April
LPSC XXXVII, CD-ROM abstract #2143, Houston, TX, March
Astrobiology Science Conference, Washington, DC, Astrobiology 6(1), Abstract 20, March

2005:
AGU Fall Meeting, *Eos Trans. AGU*, 86 (52), Fall Meet. Suppl., Abstract B42A-03, San Francisco, CA, December

AGU Fall Meeting, *Eos Trans. AGU*, 86 (52), Fall Meet. Suppl., Abstract B41A-0866, San Francisco, CA, December

AGU Fall Meeting, *Eos Trans. AGU*, 86 (52), Fall Meet. Suppl., Abstract B24A-07, San Francisco, CA, December

AGU Fall Meeting, *Eos Trans. AGU*, 86 (52), Fall Meet. Suppl., abstract B24A-03, San Francisco, CA, December

Mars Crater Consortium Meeting abstract #0803, Flagstaff, AZ, October

Workshop on the Role of Volatiles and Atmospheres on Martian Impact Craters, Laurel, MD, CD-ROM abstract #3046, July

Workshop on the Role of Volatiles and Atmospheres on Martian Impact Craters, Laurel, MD, CD-ROM abstract #3045, July

Southern California Geobiology Symposium, Los Angeles, CA, April

LPSC XXXVI, CD-ROM abstract #1134, Houston, TX, March

2004 and earlier:

AGU Spring Meeting, San Francisco, CA, *Eos Trans. AGU*, 85 (47), Fall Meet. Suppl., abstract GP21C-03, December 2004

Sixth Santa Fe Conference for Rock Magnetism, Santa Fe, NM, June 2004

AAS DPS 33, *Bulletin of the AAS*, 33, 1055, abstract #14.10, 2001

AAS DPS 26, *Bulletin of the AAS*, 26, 1176, abstract #29.23, 1994

AGU Spring Meeting, Washington, DC, *Eos Trans. AGU*, Spring Meet. Suppl., May 1994