

VITA: JAMES F. BELL III (JIM)

Professor, Arizona State University
School of Earth and Space Exploration
Box 876004; Building: ISTB-4, Room: 681
Tempe, AZ 85287-6004
phone: (480) 965-1044; fax: (480) 965-8102
email: Jim.Bell@asu.edu
web: <http://jimbellsese.asu.edu>



EDUCATION:

Ph.D.: 1992, University of Hawaii at Manoa; Planetary Geosciences
M.S.: 1989, University of Hawaii at Manoa; Geology and Geophysics
B.S.: 1987, California Institute of Technology; Planetary Science and Aeronautics

PERSONAL INFORMATION:

Born: July 23, 1965, Providence RI; Citizenship: USA.

FIELDS OF EXPERTISE:

- Surface composition and geology of terrestrial planets, moons, asteroids, comets
- Spacecraft instrumentation, testing, operations (multispectral imaging & spectroscopy)
- Reflectance & emittance spectroscopy (telescopic, laboratory, spacecraft)
- Image processing and data reduction/calibration/analysis (telescopic, spacecraft)

PROFESSIONAL EXPERIENCE:

Since 2018: Chief Scientist, [MILO Space Science Institute](#)
Since 2018: Graduate Faculty, ASU School for the Future of Innovation in Society's PhD program in Human and Social Dimensions of Science and Technology
Since 2013: Distinguished Visiting Scientist, NASA Jet Propulsion Laboratory/Caltech
Since 2013: Director, [ASU Space Technology and Science \("NewSpace"\) Initiative](#)
Since 2011: Professor, Honors Faculty, ASU Barrett Honors College
Since 2011: Adjunct Professor, Department of Astronomy, Cornell University
2009-2010: Professor, Department of Astronomy, Cornell University
2003-2008: Associate Professor, Department of Astronomy, Cornell University
2005: Visiting Scientist, CNRS/Observatoire Midi-Pyrénées, Toulouse, France
1998-2003: Assistant Professor, Department of Astronomy, Cornell University
1997 to 1998: Senior Research Associate, Department of Astronomy, Cornell
1995 to 1997: Research Associate, Department of Astronomy, Cornell
1994 to 1995: Postdoctoral Research Assistant, U. Washington Remote Sensing Lab
1992 to 1994: NRC Postdoctoral Research Fellow, NASA Ames Research Center.
1989 to 1992: NASA Graduate Student Researchers Program Fellow, NASA/JSC
1987 to 1989: Graduate student researcher, U. Hawaii Planetary Geosciences Dept.
1983 to 1987: Undergraduate researcher, Caltech Department of Planetary Sciences

PROFESSIONAL AFFILIATIONS:

American Astronomical Society (Division for Planetary Sciences); American Geophysical Union (Planetary Sciences Section); International Astronomical Union; American Association for the Advancement of Science; Geologic Society of America (Planetary Sciences Div.); The Planetary Society (President: 2008-2020)

HONORS AND AWARDS:

NASA Group Achievement Award: Lucy mission development team, 2022
 NASA Group Achievement Award: Mars 2020 instrument development & testing, 2021
 NASA Group Achievement Award, NASA Psyche mission development, 2020
 Distinguished Alumnus Award, Univ. Hawaii Dept. of Geology & Geophysics, 2019
 NASA Group Achievement Awards (2), MSL/*Curiosity* Science Team, 2015-2017
 Nominated for ASU's CLAS Zebulon Pearce Teaching Award, 2017.
 ASU/SESE "Best Undergraduate Professor" Award (by student vote), 2015-2016
 NASA Group Achievement Award, MSL/*Curiosity* Operations Team, 2013
 Carl Sagan Medal for Excellence in Public Communication, AAS/DPS, 2011
 NASA Group Achievement Award, MRO MARCI and CTX Science Team, 2011
 NASA Group Achievement Award, Phoenix Mission Support Team, 2008
 NASA Group Achievement Awards (2), MER 3rd & 4th Extended Missions, 2008
 National Academy of Sciences Kavli Fellow, 2007
 NASA Group Achievement Award, Mars Odyssey Primary Mission, 2006
 National Air and Space Museum Trophy, Mars Exploration Rover Team, 2005
 NASA Group Achievement Awards (2), MER 1st, 2nd Extended Missions, 2004-2005
 NASA Group Achievement Awards (2), MER Primary Mission, 2004
 NASA Group Achievement Award, NEAR/Eros mission, 2001
 Awarded asteroid name [8146 Jimbell](#) by the IAU, 1999
 Editor's Letter of Commendation, *Icarus*, 1997
 NASA Group Achievement Award, Mars Pathfinder mission, 1997
 NASA Group Achievement Award, NEAR/Mathilde flyby, 1997
 Editor's Citation for Excellence in Refereeing, *J. Geophys. Res.*, 1996
 NASA/National Research Council Postdoctoral Fellowship, 1992-1994
 NASA Graduate Student Researcher's Program Fellowship, 1989-1992

PROFESSIONAL ACTIVITIES:

Instrument Scientist, NASA Lucy Discovery mission Target Tracking Camera, 2018-
 Deputy P.I. and Imaging Investigation Lead, NASA Psyche Discovery Mission, 2017-
 Deputy P.I.: NASA LunaH-Map SIMPLEX Artemis-1 CubeSat mission (2015-);
 P.I., NASA Mars-2020 rover *Mastcam-Z* stereo imaging investigation, 2014-
 Science Team Member: ESA JUICE mission JANUS camera team; 2013-
 Science Team Member: ESA Mars Trace Gas Orbiter MAGIE camera team; 2010-2012
 P.I., *Odysseus* New Frontiers Trojan asteroid mission (not accepted), 2009
 Member: NASA Advisory Council, Planetary Sciences Subcommittee, 2009-2012
 Participating Scientist: NASA Lunar Reconnaissance Orbiter LROC team, 2008-
 Deputy P.I.: NASA Mars Science Laboratory Rover *Mastcam* camera system; 2005-
 Participating Scientist: NASA Mars Odyssey THEMIS Investigation, 2002-
 Science Team Member: NASA MRO MARCI/CTX team, 2003-
 Pancam Payload Element Lead: NASA 2003 Mars Exploration Rover Missions, 1997-
 Science Team Member: NASA CONTOUR Discovery Mission, 1997-2002
 Participating Scientist: NASA Mars Pathfinder Mission, 1997-1998
 Science Team Member: Mars-98 Orbiter MARCI Investigation, 1996-1999
 Science Team Member, NASA Near Earth Asteroid Rendezvous Mission, 1994-2001
 Guest Observer, ESA Infrared Space Observatory, 1995-1997
 Guest Observer, NASA Hubble Space Telescope, 1994-2003
 Visiting Astronomer, NASA Infrared Telescope Facility, 1988-1999

PROFESSIONAL SERVICE:

Consulting Editor, *Icarus*, 2011-2021.
 Chair, NASA Senior Review Panel for Mars InSight extended mission, 2020
 NASA Europa Clipper Instrument Risk Assessment Team, 2020
 Editorial Advisory Board, *Astronomy* magazine, 2019-
 External Advisory Board member, University of Winnipeg Centre for Terrestrial and Planetary Exploration, 2019-
 Study Team Member, "Space Science Opportunities Augmented by Exploration Telepresence", Keck Institute for Space Studies, 2016-2017
 Member, NASA Mars International Collaboration Science Analysis Group, 2016
 Member, NASA Chief Scientist's Office Citizen Science Advisory Forum, 2016
 Member, AAS/DPS Prize Committee, 2015-2016
 Member, NASA Human Exploration Mission Directorate (HEOMD) Asteroid Redirect Mission (ARM) Formulation Assessment and Support Team (FAST), 2015
 Member, Science Definition Team for the NASA Mars-2020 Rover mission, 2013
 Study Team Member, *In Situ Instrumentation for Primitive Bodies*, Keck Institute for Space Studies, 2012
 Organizing Committee, *International Space Science Institute*, Quantifying the Martian Geochemical Reservoirs; Workshop and Book, 2011-2012
 Member, Mars Science Laboratory Participating Scientist Review Panel, 2011
 Member, NASA ROSES Education and Outreach Review Panel, 2010-2011
 Contributing Editor, *Sky & Telescope* magazine, 2011-
 Member, NASA/JPL Mars Critical Data Products Program Review Panel, 2011
 Member, Acting Chair: NASA Advisory Council Planetary Sci. Subcomm., 2009-2012
 Chair, NASA Lunar Science Institute Review Panel, 2008
 Member then Chair, AAS/DPS Federal Relations Subcommittee, 2006-2008; 2008-2010
 Member, NASA Planetary Data System Geosciences Node Advisory Group, 2008-
 Member, National Academy of Sciences Committee on the Review of Planetary Protection Requirements for Mars Sample Return Missions, 2008
 Local Organizing Committee Co-Chair, 2008 AAS/DPS Conference, Ithaca
 Member, NASA Mars Instrument Development Program Review Panel, 2007
 Elected to AAS/DPS Committee, 2004-2006
 Chair, NASA Mars Fundamental Research Program Review Panel, 2005
 Editor, *Icarus* (International Journal of Solar System Studies), 1998-2010
 Consulting Editor, Cambridge University Press Planetary Science book series, 2002-
 NSF Planetary Astronomy Review panel, 2003
 Group Chief, NASA Mars Scout '07 mission Review Panel, 2002
 Group Chief, NASA Planetary Geology & Geophysics Review Panel, 2001-2002
 Hubble Space Telescope Cycle 10 Review Panel (Solar System Committee), 2000
 Group Chief, NASA Mars Data Analysis Program Review Panel, 2000
 Member, NASA Planetary Astronomy NEO Program Review Panel, 2000
 Program Committee Member, AAS/DPS annual meeting, Pasadena CA, 2000
 Member, Italian Space Agency/NASA 2003 Mars Lander Instrument Review Panel, 1999
 Member, NASA Mars Exploration Program Assessment Group (MEPAG), 1999-
 Chair, NASA Mars-98 Participating Scientist Program Review Panel, 1999
 Member, AAS Working Group on Professional-Amateur Collaboration, 1999-
 Group Chief, NASA Mars Data Analysis Program Review Panel, 1998
 Member, NASA Planetary Geology & Geophysics Program Review Panel, 1998

NASA Planetary Astronomy Program Management Operations Working Group, 1996-98
 Eos Planetary Sciences Editor, AGU Weekly newspaper, 1997-1999
 Member, NASA Mars Science Working Group (MarsSWG), 1996-1997
 Member, SIRTf Solar System Working Group, 1996-
 Member, SIRTf Large Projects/Survey Working Group, 1995-96
 National Research Council Panel on Reducing Space Science Mission Costs, 1996
 NASA Planetary Instrument Definition and Development Program Review Panel, 1995
 Hubble Space Telescope Cycle 6 Review Panel (Solar System Committee), 1995
 NASA Discovery Missions and Planetary Astronomy Review Panels, 1994
 Lunar and Planetary Science Conference Program Committee, 1994-1995
 Member, NASA MSATT, MECA, MEVTV, and MSATT Study Groups, 1988-1993

TEACHING EXPERIENCE:

SES 107, "A Solar System Journey," (Online), 2019-
 SES 494/598: "Commercial Opportunities in Space", co-taught, 2014-2019
 SES 121-124: "Earth/Solar System/Universe" (Introductory, majors, + Labs), 2014-2017
 SES 394: "Exploration: The Human Imperative," co-taught, 2016-2017
 GEO/ASTRO 494/598: "Dissecting the Decadal Survey," ASU, Spring 2012
 Astronomy 111, "Introduction to Solar System Astronomy," ASU, Fall 2011
 Astronomy 310, "Planetary Image Processing", Cornell, Fall 2002, '05, '07, '09
 Astronomy/EAS 577, "Planetary Surface Processes," Cornell, Spring 2007, 2009
 Astronomy 102, "Our Solar System", Cornell University, Spring 2001, 2002
 Astronomy 202, "Our Home in the Solar System", Cornell, Spring 1998, '99, '00, '08
 Astronomy 7671/EAS 7310, "Lunar Science and Exploration", Cornell, Fall 2009
 Astronomy 410, "Experimental Astronomy", Cornell, Fall 2005, 2006
 Astronomy 671/EAS 693, "The Martian Surface", Cornell, Spring 2008
 Astronomy 671, "Spectroscopy of Planetary Surfaces", Cornell, Fall 2001
 Astronomy 671, "Asteroids", Cornell, Fall 2000
 Astronomy 101, "The Nature of the Universe", Cornell University, Fall 1998
 BioG 101-106 "Explorations" Program, Cornell University, Spring 2000, 2001
 Fieldwork in Human Development 402 (Service learning/outreach course), 2007, '08, '09

DEPARTMENT/UNIVERSITY FACULTY SERVICE

ASU/SESE Awards Committee, 2021-2024
 ASU Space Strategy Committee member, 2020-
 ASU/SESE Colloquium Committee, 2015-2017; 2020-2023
 Member, SESE Discipline-Based Education Research Faculty Search Committee, 2019
 Chair, ASU/SESE Director Search Committee, 2018-2019
 ASU/SESE Faculty Evaluation Committee, 2015-2017
 ASU/SESE Exploration Postdoctoral Fellowship evaluation committee, 2013
 ASU/SESE Graduate Admissions Committee, 2011-2012
 ASU/SESE Faculty search committees (2), 2012-2013
 Thesis Advisor for 13 graduate students, 1998-2016
 Minor Advisor/Committee member for 18 other graduate students, 1998-2016
 Cornell Graduate School General Committee member (elected) 2008-2010
 Cornell West Campus Council Advisory Committee, 2008-
 Johnson Museum of Art Faculty Advisory Committee, 2007-
 Cornell Frank H.T. Rhodes Visiting Professorship advisory committee, 2007-
 Faculty Fellow for Cornell's Becker House student dormitory, 2006-

Director of Graduate Studies, Cornell Astronomy & Space Sciences, 2005-2009
 Member of Graduate Field, Cornell Dept. of Geological Sciences, 2004-
 Astronomy Department Academic Integrity Committee representative, 2001-
 Astronomy Department representative to the Physical Sciences Library, 2002-2004
 Astronomy Department Colloquium Committee, 2002-2003
 Astronomy Department Course Committee, '00-'01, '03-'04
 Cornell Palomar TAC Member, 1999-2001
 Advisor: ~30 undergraduates (Arts & Sciences), 1998-2009
 Astronomy Department Representative for College Admissions, 1999, 2005
 Astronomy Department First Year Graduate Student Committee, 1999-2000
 Faculty Advisor, Cornell HEDS-UP, SEDS, Moonbuggy student teams, 1999-2000
 Faculty Sponsor for Frank H.T. Rhodes Class of '56 Univ. Professor Bill Nye, '00-'05

EDUCATION, OUTREACH, AND COMMUNITY ACTIVITIES:

Interviewed for Voyager mission documentary film, "[The Farthest.](#)" 2017
 Science Consultant for PBS "Nova" television series and WNYC radio
 Faculty Advisor for Cornell and now ASU student SEDS and Planetary Society chapters
 Faculty Fellow In Service Awardee, Cornell HD402 service course (with Prof. C. Hazan)
 Mentor/Advisor: Athena Mars Rover K-12 outreach program; Member: JPL/NASA Mars
 Education and Outreach Advisory Board; Volunteer at the Sciencenter, Ithaca. Projects
 include assistance with Sagan Planetwalk, Mars exhibit, slide shows, and newsletters;
 Organizer of teacher workshops for Tompkins County educators (in cooperation with the
 Sciencenter) in order to promote increased science education in the K-12 classroom;
 Numerous talks to Elementary and High School students and community, religious, and
 civic groups around the country about astronomy and planetary sciences.

INVITED TALKS/LECTURES (see detailed list at <http://jimbell.sese.asu.edu/appearances>)

TEDx; Keck Institute for Space Studies (multiple); Smithsonian Air and Space Museum;
 National Academy of Sciences Kavli Program, Space Telescope Science Institute;
 American Museum of Natural History; Rochester Museum and Science Center; Argonne
 Laboratories; Buffalo Science Museum; Boston Museum of Science; Miami Museum of
 Science; MIT, Caltech, U. Washington; U. Colorado; U.C. Santa Cruz; U. Virginia;
 Science Museum of Minnesota; Denver Museum of Nature and Science; Elmira Wings of
 Eagles Museum; NYC 92nd St. Y; Cornell Olin Lecture; Georgia Tech

TECHNICAL EXPERIENCE

Instrumentation: Proficiency with laboratory and telescopic VIS-IR spectrometers and
 Near-IR and CCD cameras. 90+ nights observing experience on large telescopes at
 Mauna Kea, Wyoming, Lick, Lowell, Palomar, and Pic du Midi observatories, plus
 experience with HST and ISO. Lab experience: reflectance, emittance, and Mössbauer
 spectrometers, magnetometers, and water evolution analysis; Machine shop work (NC
 mill, lathe, etc.) and familiarity with electronic testing equipment.

Computer/Software: Proficiency in Unix/Linux on a variety of platforms. Programming
 proficiency in IDL, and experience with IRAF, USGS-ISIS, and ENVI. Proficiency in
 workstation system administration and with Mac and Windows PCs.

LANGUAGES

French (3 years high school), Russian (1 year college), Rhode Islandese (18 years)

HOBBIES AND INTERESTS

Baseball/Softball, Woodworking, Hiking, Photography, Hawaiian Outrigger Canoe

PUBLICATIONS (see details at http://molokai.sese.asu.edu/~jimbo/Bell_Pubs.pdf)

- 41 first-authored, peer-reviewed publications from 1989-2023
- Co-author on 49 peer-reviewed papers by my graduate students and postdocs
- Co-author on more than 200 other peer-reviewed publications
- Author of 8 popular science books; editor/co-editor of 3 professional reference books
- Author of more than 100 popular science magazine articles, web blogs, and podcasts
- First author or co-author on more than 750 abstracts and conference presentations
- Current [Google Scholar h-index](#): 97 (Since 2017: 56)
- Five highest impact peer-reviewed first-authored publications:

Bell III, J.F. *et al.*, The Mars Exploration Rover Athena Panoramic Camera (Pancam) Investigation, *J. Geophys. Res.*, *108* (E12), [doi:10.1029/2003JE002070](https://doi.org/10.1029/2003JE002070), 2003.

Bell III, J.F., *et al.*, Mineralogic and compositional properties of Martian soil and dust: Results from Mars Pathfinder, *JGR*, *105*, 1721, [doi:10.1029/1999JE001060](https://doi.org/10.1029/1999JE001060), 2000.

Bell III, J.F., T.B. McCord, and P.D. Owensby, Observational Evidence of crystalline iron oxides on Mars, *JGR*, *95*, 14447-14461, [doi:10.1029/JB095iB09p14447](https://doi.org/10.1029/JB095iB09p14447), 1990.

Bell III, J.F., *et al.*, Pancam multispectral imaging results from the Spirit rover at Gusev crater, *Science*, *305*, 800-806, [doi:10.1126/science.1100175](https://doi.org/10.1126/science.1100175), 2004.

Bell III, J.F., *et al.*, Pancam multispectral imaging results from the Opportunity rover at Meridiani Planum, *Science*, *306*, 1703-1709, [doi:10.1126/science.1105245](https://doi.org/10.1126/science.1105245), 2004.

JAMES F. BELL III: PUBLICATIONS AS OF JUNE 2022

FIRST AUTHORED PEER-REVIEWED & SUBMITTED PUBLICATIONS

41. Bell III, J.F., J.N. Maki, S. Alwmark, B.L. Ehlmann, S.A. Fagents, J.P. Grotzinger, S. Gupta, A. Hayes, K.E. Herkenhoff, B.H.N. Horgan, J.R. Johnson, K.B. Kinch, M.T. Lemmon, M.B. Madsen, J.I. Núñez, G. Paar, M. Rice, J.W. Rice Jr., N. Schmitz, R. Sullivan, A. Vaughan, M.J. Wolff, A. Bechtold, T. Bosak, L.E. Dufлот, A.G. Fairén, B. Garczynski, R. Jaumann, M. Merusi, C. Million, E. Ravanis, D.L. Shuster, J. Simon, M. St. Clair, C. Tate, S. Walter, B. Weiss, A. Bailey, T. Bertrand, O. Beyssac, A. Brown, P. Caballo-Perucha, M.A. Caplinger, C.M. Caudill, F. Cary, E. Cisneros, E. Cloutis, N. Cluff, P. Corlies, K. Crawford, S. Curtis, R. Deen, D. Dixon, C. Donaldson, M. Barrington, M. Ficht, S. Fleron, M. Hansen, D. Harker, R. Howson, J. Huggett, S. Jacob, E. Jensen, O.B. Jensen, M. Jodhpurkar, J. Joseph, C. Juarez, L.C. Kah, M. Kanine, J. Kristensen, T. Kubacki, K. Lapo, A. Magee, M. Maimone, G.L. Mehall, L. Mehall, J. Mollerup, D. Viúdez-Moreiras, K. Paris, K. Powell, F. Preusker, J. Proton, C. Rojas, D. Sallurday, K. Saxton, E. Scheller, C.H. Seeger, M. Starr, N. Stein, N. Turenne, J. Van Beek, A.G. Winhold, and R. Yingling, Geological and Meteorological Imaging Results from the Mars 2020 *Perseverance* Rover in Jezero Crater, submitted to *Science Advances*, 2022.
40. Bell III, J.F., M.A. Ravine, M.A. Caplinger, J.A. Schaffner, S.M. Brylow, M.J. Clark, D.A. Peckham, P.T. Ojens, J.W. Ravine, J.D. Laramée, R.C. Juergens, W. Morgan, A.G. Parker, D. Williams, A. Winhold, S. Dibb, E. Cisneros, M. Walworth, N. Amiri, C. Polanskey, N. Mastrodemos, R. Park, N.K. Alonge, R. Jaumann, R.P. Binzel, T. McCoy, M.G. Martin, and P.A. Arthur, The Psyche Multispectral Imager Investigation: Characterizing the Geology, Topography, and Color Properties of a Potentially Metallic World, *Space Sci. Rev.*, in prep., 2021.
39. Bell III, J.F., J.N. Maki, G.L. Mehall, M.A. Ravine, M.A. Caplinger, Z.J. Bailey, S. Brylow, J.A. Schaffner, K.M. Kinch, M.B. Madsen, A. Winhold, A. Hayes, P. Corlies, M. Barrington, R. Deen, E. Cisneros, E. Jensen, K. Paris, K. Crawford, C. Rojas, L. Mehall, J. Joseph, J.B. Proton, N. Cluff, B. Betts, E. Cloutis, A. Coates, A. Colaprete, K.S. Edgett, B.L. Ehlmann, S. Fagents, J. Grotzinger, C. Tate, C. Hardgrove, K. Herkenhoff, B. Horgan, R. Jaumann, J.R. Johnson, M. Lemmon, G. Paar, M. Caballo-Perucha, S. Gupta, C. Traxler, F. Preusker, M. Rice, M.S. Robinson, N. Schmitz, R. Sullivan, and M.J. Wolff, The Mars 2020 Rover Mast Camera Zoom (Mastcam-Z) Multispectral, Stereoscopic Imaging Investigation, *Space Science Reviews*, 217, 24, [doi:10.1007/s11214-020-00755-x](https://doi.org/10.1007/s11214-020-00755-x), 2020.
38. Bell III, J.F., W.H. Farrand, J.R. Johnson, K. Kinch, M. Lemmon, M. Parente, M.S. Rice, and D.F. Wellington, [Compositional and Mineralogic Analyses of Mars Using Multispectral Imaging on the Mars Exploration Rover, Phoenix, and Mars Science Laboratory Missions](#), Chapter 26 in *Remote Compositional Analysis: Techniques for Understanding Spectroscopy, Mineralogy, and Geochemistry of Planetary Surfaces*, (J.L. Bishop, J. Moersch, and J.F. Bell, III, eds.), Cambridge Univ. Press, pp. 513-537, 2020.
37. Bell III, J.F., A. Godber, S. McNair, M.C. Caplinger, J.N. Maki, M.T. Lemmon, J. Van Beek, M.C. Malin, D. Wellington, K.M. Kinch, M.B. Madsen, C. Hardgrove, M.A. Ravine, E. Jensen, D. Harker, R.B. Anderson, K.E. Herkenhoff, R.V. Morris, E. Cisneros, and R.G. Deen, [The Mars Science Laboratory Curiosity rover Mast Camera \(Mastcam\) instruments: Pre-flight and in-flight calibration, validation, and data archiving](#), *Earth and Space Science*, 4, [doi:10.1002/2016EA000219](https://doi.org/10.1002/2016EA000219), 2017.
36. Bell III, J.F., "Leveraging the academic-commercial partnership for NewSpace," *New Space*, 2, pp. 131-138, [doi:10.1089/space.2014.0009](https://doi.org/10.1089/space.2014.0009), 2014.
35. Bell III, J.F., M.C. Malin, B.A. Cantor, M.A. Caplinger, M.J. Wolff, J. Fahle, F. Ghaemi, L. Posiolova, M.A. Ravine, K.D. Supulver, W.M. Calvin, R.T. Clancy, K.S. Edgett, L.J. Edwards, R.M. Haberle, A. Hale, P.B. James, S.W. Lee, M.S. Rice, P.C. Thomas, and R.M.E. Williams, Calibration and Performance of the Mars Reconnaissance Orbiter Context Camera (CTX), *Mars*, 8, 1-14, [doi:10.1555/mars.2013.0001](https://doi.org/10.1555/mars.2013.0001), 2013.
34. Bell III, J.F., The search for habitable worlds: Planetary exploration in the 21st century, *Daedalus: Journal of the American Academy of Arts & Sciences*, 141 (3), pp. 8-22, [doi:10.1162/DAED_a_00157](https://doi.org/10.1162/DAED_a_00157), 2012.
33. Bell III, J.F., "Water on Planets," in *Highlights of Astronomy* (Proc. IAU Gen. Assembly XXVII), 15, 29-44, [doi:10.1017/S1743921310008161](https://doi.org/10.1017/S1743921310008161), 2010.
32. Bell III, J.F., M.J. Wolff, M.C. Malin, W.M. Calvin, B.A. Cantor, M.A. Caplinger, R.T. Clancy, K.S. Edgett, L.J. Edwards, J. Fahle, F. Ghaemi, R.M. Haberle, A. Hale, P.B. James, S.W. Lee, T. McConnochie, E. Noe Dobrea, M.A. Ravine, D. Schaeffer, K.D. Supulver, and P.C. Thomas, Mars Reconnaissance Orbiter Mars Color Imager (MARCI): Instrument description, calibration, and performance, *J. Geophys. Res.*, 114, E08S92, [doi:10.1029/2008JE003315](https://doi.org/10.1029/2008JE003315), 2009.
31. Bell III, J.F. (Editor) *The Martian Surface: Composition, Mineralogy, and Physical Properties*, Cambridge University Press (ISBN-13: 9780521866989), Cambridge, 688 pp., 2008.

30. Bell III, J.F., M.S. Rice, J.R. Johnson, and T.M. Hare, Surface albedo observations at Gusev Crater and Meridiani Planum, Mars, *J. Geophys. Res.*, *113*, E06S18, [doi:10.1029/2007JE002976](https://doi.org/10.1029/2007JE002976), 2008.
29. Bell III, J.F., T. Glotch, V. Hamilton, T. McConnochie, T. McCord, A. McEwen, P. Christensen, and R. Arvidson, "Visible to Near-IR Multispectral Observations of Mars," Chapter 8 in *The Martian Surface: Composition, Mineralogy, and Physical Properties* (J.F. Bell III, ed.), Cambridge University Press, pp. 169-194, 2008.
28. Bell III, J.F., W.M. Calvin, W. Farrand, R. Greeley, J.R. Johnson, B. Jolliff, R.V. Morris, R.J. Sullivan, S. Thompson, A. Wang, C. Weitz, and S.W. Squyres, "Mars Exploration Rover Pancam Multispectral Imaging of Rocks, Soils, and Dust in Gusev Crater and Meridiani Planum," *Chapter 13 in The Martian Surface: Composition, Mineralogy, and Physical Properties* (J.F. Bell III, ed.), Cambridge University Press, pp. 281-314, 2008.
27. Bell III, J.F. and T. Ansty, High spectral resolution UV to near-IR observations of Mars during 1999, 2001, and 2003 using HST/STIS, *Icarus*, *191*, 581-602, [doi:10.1016/j.icarus.2007.05.019](https://doi.org/10.1016/j.icarus.2007.05.019), 2007.
26. Bell III, J.F., D. Savransky, and M.J. Wolff, Chromaticity of the Martian sky as observed by the Mars Exploration Rover Pancam instruments, *J. Geophys. Res.*, *111*, E12S05, [doi:10.1029/2006JE002687](https://doi.org/10.1029/2006JE002687), 2006.
25. Bell III, J.F., J. Joseph, J.N. Sohl-Dickstein, H.M. Arneson, M.J. Johnson, M.T. Lemmon, and D. Savransky, In-flight calibration and performance of the Mars Exploration Rover Panoramic Camera (Pancam) Instruments, *J. Geophys. Res.*, *111*, E02S03, [doi:10.1029/2005JE002444](https://doi.org/10.1029/2005JE002444), 2006.
24. Bell III, J.F., M.T. Lemmon, T.C. Duxbury, M.Y.H. Hubbard, M.J. Wolff, S.W. Squyres, L. Craig, and J.M. Ludwinski, Solar eclipses of Phobos and Deimos observed from the surface of Mars, *Nature*, *436*, 55-57, [doi:10.1038/nature03437](https://doi.org/10.1038/nature03437), 2005.
23. Bell III, J.F., S.W. Squyres, R.E. Arvidson, H.M. Arneson, D. Bass, W. Calvin, W.H. Farrand, W. Goetz, M. Golombek, R. Greeley, J. Grotzinger, E. Guinness, A.G. Hayes, M.Y.H. Hubbard, K.E. Herkenhoff, M.J. Johnson, J.R. Johnson, J. Joseph, K.M. Kinch, M.T. Lemmon, R. Li, M.B. Madsen, J.N. Maki, M. Malin, E. McCartney, S. McLennan, H.Y. McSween, Jr., D.W. Ming, R.V. Morris, E.Z. Noe Dobrea, T.J. Parker, J. Proton, J.W. Rice, Jr., F. Seelos, J. Soderblom, L.A. Soderblom, J.N. Sohl-Dickstein, R.J. Sullivan, C. Weitz, M.J. Wolff, Pancam multispectral imaging results from the Opportunity rover at Meridiani Planum, *Science*, *306*, 1703-1709, [doi:10.1126/science.1105245](https://doi.org/10.1126/science.1105245), 2004.
22. Bell III, J.F., S.W. Squyres, R.E. Arvidson, H.M. Arneson, D. Bass, D. Blaney, N. Cabrol, W. Calvin, J. Farmer, W.H. Farrand, W. Goetz, M. Golombek, J.A. Grant, R. Greeley, E. Guinness, A.G. Hayes, M.Y.H. Hubbard, K.E. Herkenhoff, M.J. Johnson, J.R. Johnson, J. Joseph, K.M. Kinch, M.T. Lemmon, R. Li, M.B. Madsen, J.N. Maki, M. Malin, E. McCartney, S. McLennan, H.Y. McSween, Jr., D.W. Ming, J.E. Moersch, R.V. Morris, E.Z. Noe Dobrea, T.J. Parker, J. Proton, J.W. Rice, Jr., F. Seelos, J. Soderblom, L.A. Soderblom, J.N. Sohl-Dickstein, R.J. Sullivan, M.J. Wolff, and A. Wang, Pancam multispectral imaging results from the Spirit rover at Gusev crater, *Science*, *305*, 800-806, [doi:10.1126/science.1100175](https://doi.org/10.1126/science.1100175), 2004.
21. Bell III, J.F., S.W. Squyres, K.E. Herkenhoff, J.N. Maki, H.M. Arneson, D. Brown, S.A. Collins, A. Dingizian, S.T. Elliot, E.C. Hagerott, A.G. Hayes, M.J. Johnson, J.R. Johnson, J. Joseph, K. Kinch, M.T. Lemmon, R.V. Morris, L. Scherr, M. Schwochert, M.K. Shepard, G.H. Smith, J.N. Sohl-Dickstein, R. Sullivan, W.T. Sullivan, and M. Wadsworth, The Mars Exploration Rover Athena Panoramic Camera (Pancam) Investigation, *J. Geophys. Res.*, *108* (E12), [doi:10.1029/2003JE002070](https://doi.org/10.1029/2003JE002070), 2003.
20. Bell III, J.F., *HST Studies of Mars*, in "A Decade of Hubble Space Telescope Science," eds. M. Livio, K. Noll, & M. Stiavelli, Cambridge University Press, ISBN: 0-521-82459-1, pp. 1-24, 2003.
19. Bell III, J.F., W.H. Farrand, J.R. Johnson, and R.V. Morris, Low abundance materials at the Mars Pathfinder landing site: An investigation using spectral mixture analysis and related techniques, *Icarus*, *158*, 56-71, [doi:10.1006/icar.2002.6865](https://doi.org/10.1006/icar.2002.6865), 2002.
18. Bell III, J.F., N.I. Izenberg, P.G. Lucey, B.E. Clark, C. Peterson, M.J. Gaffey, J. Joseph, B. Carcich, A. Harch, M.E. Bell, J. Warren, P.D. Martin, L.A. McFadden, D. Wellnitz, S. Murchie, M. Winter, J. Veverka, P. Thomas, M.S. Robinson, M. Malin, and A. Cheng, Near-IR Reflectance Spectroscopy of 433 Eros from the NIS Instrument on the NEAR Mission. 1. Low Phase Angle Observations, *Icarus*, *155*, 119-144, [doi:10.1006/icar.2001.6752](https://doi.org/10.1006/icar.2001.6752), 2002.
17. Bell III, J.F., H. Y. McSween Jr., J. A. Crisp, R. V. Morris, S. L. Murchie, N. T. Bridges, J. R. Johnson, D. T. Britt, M.P. Golombek, H. J. Moore, A. Ghosh, J. L. Bishop, R. C. Anderson, J. Brückner, T. Economou, J. P. Greenwood, H. P. Gunnlaugsson, R. M. Hargraves, S. Hviid, J. M. Knudsen, M. B. Madsen, R. Reid, R. Rieder, and L. Soderblom, Mineralogic and Compositional Properties of Martian Soil and Dust: Results From Mars Pathfinder, *J. Geophys. Res.*, *105*, 1721-1755, [doi:10.1029/1999JE001060](https://doi.org/10.1029/1999JE001060), 2000.
16. Bell III, J.F., M.J. Wolff, T.C. Daley, D. Crisp, P.B. James, S.W. Lee, J.T. Trauger, and R.W. Evans, Near-infrared imaging of Mars from HST: Surface reflectance, photometric properties, and implications for MOLA data, *Icarus*, *138*, 25-35, [doi:10.1006/icar.1998.6057](https://doi.org/10.1006/icar.1998.6057), 1999.
15. Bell III, J.F., M.J. Wolff, P.B. James, R.T. Clancy, S.W. Lee, and L.J. Martin, Mars surface mineralogy from Hubble Space Telescope imaging during 1994-1995: Observations, calibration, and initial results, *J. Geophys. Res.*, *102*, 9109-9123, [doi:10.1029/96JE03990](https://doi.org/10.1029/96JE03990), 1997.
14. Bell III, J.F., Iron, sulfate, carbonate, and hydrated minerals on Mars, in "Mineral Spectroscopy: A Tribute to Roger G. Burns," *Geochemical Society Special Publication 5* (M.D. Dyar, C. McCammon, and M.W. Schaefer, eds.), 359-380, 1996.
13. Bell III, J.F., W.M. Calvin, M.E. Ockert-Bell, J.B. Pollack, D. Crisp, and J. Spencer, Detection and monitoring of H₂O and CO₂ ice clouds on Mars, *J. Geophys. Res.*, *101*, 9227-9238, [doi: 10.1029/96JE00689](https://doi.org/10.1029/96JE00689), 1996.

12. Bell III, J.F. and B.R. Hawke, Compositional variability of the Serenitatis/Tranquillitatis region of the Moon from telescopic multispectral imaging and spectroscopy, *Icarus*, 118, 51-68, [dx.doi.org/10.1006/icar.1995.1177](https://doi.org/10.1006/icar.1995.1177), 1995.
11. Bell III, J.F., T.L. Roush, and R.V. Morris, Mid-infrared transmission spectra of crystalline and nanophase iron oxides/oxyhydroxides and implications for Mars, *J. Geophys. Res.*, 100, 5297-5309, [doi: 10.1029/94JE01389](https://doi.org/10.1029/94JE01389), 1995.
10. Bell III, J.F., J.B. Pollack, T.R. Geballe, D.P. Cruikshank, and R. Freedman, Spectroscopy of Mars from 2.04 to 2.44 μm during the 1993 opposition: Absolute calibration and atmospheric vs. mineralogic origin of narrow absorption features, *Icarus*, 111, 106-123, [dx.doi.org/10.1006/icar.1994.1136](https://doi.org/10.1006/icar.1994.1136), 1994.
9. Bell III, J.F. and D. Crisp, Groundbased Imaging Spectroscopy of Mars in the Near-Infrared: Preliminary Results, *Icarus*, 104, 2-19, [dx.doi.org/10.1006/icar.1993.1078](https://doi.org/10.1006/icar.1993.1078), 1993.
8. Bell III, J.F., R.V. Morris, and J.B. Adams, Thermally Altered Palagonitic Tephra: A Spectral and Process Analog to the Soils and Dust of Mars, *J. Geophys. Res.*, 98, 3373-3385, [doi:10.1029/92JE02367](https://doi.org/10.1029/92JE02367), 1993.
7. Bell III, J.F., Charge-Coupled Device Imaging Spectroscopy of Mars. 2. Results and Implications for Martian Ferric Mineralogy, *Icarus*, 100, 575-597, [dx.doi.org/10.1016/0019-1035\(92\)90119-R](https://doi.org/10.1016/0019-1035(92)90119-R), 1992.
6. Bell III, J.F., P.G. Lucey, and T.B. McCord, Charge-Coupled Device Imaging Spectroscopy of Mars. 1. Instrumentation and Data Reduction/Analysis Procedures, *Experimental Astronomy*, 2, 287-306, [doi: 10.1007/BF00690087](https://doi.org/10.1007/BF00690087), 1992.
5. Bell III, J.F., D. Crisp, P.G. Lucey, T.A. Ozoroski, W.M. Sinton, S.C. Willis, and B.A. Campbell, Spectroscopic Observations of Bright and Dark Emission Features on the Night Side of Venus, *Science*, 252, 1293-1296, [doi:10.1126/science.252.5010.1293](https://doi.org/10.1126/science.252.5010.1293), 1991.
4. Bell III, J.F. and T.B. McCord, [A search for spectral units on the Uranian satellites using color ratio images](https://doi.org/10.1006/icar.1991.1136), *Proc. Lunar Planet. Sci. XXI*, 473-489, 1991.
3. Bell III, J.F., T.B. McCord, and P.D. Owensby, Observational Evidence of crystalline iron oxides on Mars, *J. Geophys. Res.*, 95, 14447-14461, [doi: 10.1029/JB095iB09p14447](https://doi.org/10.1029/JB095iB09p14447), 1990.
2. Bell III, J.F., T.B. McCord, and P.G. Lucey, [Imaging Spectroscopy of Mars \(0.4-1.1 \$\mu\text{m}\$ \) During the 1988 Opposition](https://doi.org/10.1006/icar.1990.1136), *Proc. Lunar Planet. Sci. Conf. XX*, 479-486, 1990.
1. Bell III, J.F. and T.B. McCord, Mars: Near-Infrared Comparative Spectroscopy During the 1986 Opposition, *Icarus*, 77, 21-34, [dx.doi.org/10.1016/0019-1035\(89\)90004-3](https://doi.org/10.1016/0019-1035(89)90004-3), 1989.

PEER-REVIEWED PUBLICATIONS BY JIM'S GRADUATE STUDENTS & POSTDOCS

49. Dibb, S.D., [J.F. Bell III](https://doi.org/10.1006/icar.1995.1177), L.T. Elkins-Tanton, D.A. Williams, and the Psyche Mission Team, Visible to Near-Infrared Reflectance Spectroscopy of Asteroid (16) Psyche: Implications for the Psyche Mission's Science Investigations, submitted to *Earth and Space Science*, 2021.
48. Dibb, S., A. Winhold, [J.F. Bell III](https://doi.org/10.1006/icar.1995.1177), and D. Williams, Evaluation of a Benchtop Commercial-Off-the-Shelf Version of the NASA Psyche Mission's Multispectral Imager, submitted to *Optical Engineering*, 2021.
47. Dibb, S., [J.F. Bell III](https://doi.org/10.1006/icar.1995.1177), and L. Garvie, Spectral Reflectance Variations of Aubrites, Metal-rich Meteorites, and Sulfides: Implications for Exploration of (16) Psyche and other 'Spectrally Featureless' Asteroids, submitted to *Meteoritics and Planetary Science*, 2021.
46. Horton, P., H. R. Kerner, S. Jacob, E. Cisneros, K. L. Wagstaff, and [J.F. Bell III](https://doi.org/10.1006/icar.1995.1177), "Integrating Novelty Detection Capabilities with MSL Mastcam Operations to Enhance Data Analysis" submitted to *2021 IEEE Aerospace Conference*. IEEE, 2021, pp. 1-8, 2021.
45. Adler, J.B., [J.F. Bell III](https://doi.org/10.1006/icar.1995.1177), N.H. Warner, E. Noe Dobrea, and T.N. Harrison, Regional Geology of the Hypanis Valles System, Mars, *J. Geophys. Res. Planets*, [doi:10.1029/2021JE006994](https://doi.org/10.1029/2021JE006994), 2022.
44. Jacob, S.R., D.F. Wellington, [J.F. Bell III](https://doi.org/10.1006/icar.1995.1177), C. Achilles, A.A. Fraeman, B. Horgan, J.R. Johnson, S. Maurice, G. H. Peters, E.B. Rampe, L.M. Thompson, and R.C. Wiens, Spectral, Compositional, and Physical Properties of the Upper Murray Formation and Vera Rubin ridge, Gale Crater, Mars, *J. Geophys. Res.*, 125, e2019JE006290, [doi:10.1029/2019JE006290](https://doi.org/10.1029/2019JE006290), 2020.
43. Kerner, H.R., K. Wagstaff, B. Bue, D. Wellington, S. Jacob, P. Horton, [J.F. Bell III](https://doi.org/10.1006/icar.1995.1177), C. Kwan, and H. Ben Amor, Comparison of novelty detection methods for multispectral images in rover-based planetary exploration missions", *Data Mining and Knowledge Discovery*, [doi:10.1007/s10618-020-00697-6](https://doi.org/10.1007/s10618-020-00697-6), 2020.
42. Gustafson, J.O., Gustafson, J.A., L.R. Gaddis, and [J.F. Bell III](https://doi.org/10.1006/icar.1995.1177), An Investigation of Potential Pyroclastic Deposits on the Southeast Limb of the Moon, *Icarus*, 349, [doi:10.1016/j.icarus.2020.113828](https://doi.org/10.1016/j.icarus.2020.113828), 2020.
41. Wellington, D.F. and [J.F. Bell III](https://doi.org/10.1006/icar.1995.1177), Patterns of Surface Albedo Changes from Mars Reconnaissance Orbiter Mars Color Imager (MARCI) Observations, *Icarus*, in press, [doi:10.1016/j.icarus.2020.113766](https://doi.org/10.1016/j.icarus.2020.113766), 2020.
40. Kerner, H.R., D.F. Wellington, K.L. Wagstaff, [J.F. Bell III](https://doi.org/10.1006/icar.1995.1177), C. Kwan, and H. Ben Amor, Novelty detection for multispectral images with application to planetary exploration, Proceedings of the AAAI Conference on Artificial Intelligence, vol. 33., pp. 9484-9491, Association for the Advancement of Artificial Intelligence, [doi:10.1609/aaai.v33i01.33019484](https://doi.org/10.1609/aaai.v33i01.33019484), 2019.

39. Williams, N.R., [J.F. Bell III](#), T.R. Watters, M.E Banks, K. Daud, and R.A. French, Evidence for Recent and Ancient Faulting at Mare Frigoris and Implications for Lunar Tectonic Evolution, *Icarus*, 326, 151-161, [doi:10.1016/j.icarus.2019.03.002](#), 2019.
38. Kerner, H.R., K.L. Wagstaff, B.D. Bue, P.C. Gray, [J.F. Bell III](#), and H. Ben Amor, Toward Generalized Change Detection on Planetary Surfaces with Convolutional Autoencoders and Transfer Learning, *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, [doi:10.1109/ISTARS.2019.2936771](#), 2019.
37. Lai, J.C., B. Horgan, [J.F. Bell III](#), and D.F. Wellington, Assessing Martian Bedrock Mineralogy Through “Windows” in the Dust Using Near-Infrared and Thermal Infrared Remote Sensing, *Icarus*, 324, 15-40, [doi:10.1016/j.icarus.2019.01.019](#), 2019.
36. Adler, J.B., [J.F. Bell III](#), P. Fawdon, J. Davis, N.H. Warner, E. Sefton-Nash, P. Grindrod, S. Gupta, and T.N. Harrison, Hypotheses for the Origin of the Hypanis Fan-Shaped Deposit at the Edge of the Chryse Escarpment, Mars: Is it a Delta? *Icarus*, 319, 885-908, [doi:10.1016/j.icarus.2018.05.021](#), 2019.
35. Bennett, K.A., J.R. Hill K.C. Murray, C. Edwards, [J.F. Bell III](#), and P.R. Christensen, THEMIS-VIS investigations of sand at Gale Crater, *Earth & Space Sci.*, 5, 352-363, [doi:10.1029/2018EA000380](#), 2018.
34. Kerner, H.R., [J.F. Bell III](#), and H. Ben Amor, Context-Dependent Image Quality Assessment of JPEG Compressed Mars Science Laboratory Mastcam Images using Convolutional Neural Networks, *Computers in Geosciences*, 118, 109-121, [doi:10.1016/j.cageo.2018.06.001](#), 2018.
33. Bennett, K.A., L. Fenton, and [J.F. Bell III](#), The Albedo of Martian Dunes: Insights into Migration Rates, Wind Regimes, and Dust Devil Formation, *Aeolian Research*, 26, 89-100, [doi:10.1016/j.aeolia.2016.08.009](#), 2017.
32. Wellington, D.F., [J.F. Bell III](#), J.R. Johnson, K.M. Kinch, M.S. Rice, A. Godber, B.L. Ehlmann, A.A. Fraeman, C. Hardgrove, S. Le Mouélic, and the MSL Science Team, Visible to Near-Infrared MSL/Mastcam Multispectral Imaging: Initial Results from Select High-Interest Science Targets within Gale Crater, Mars, *American Mineralogist*, 102, 1202-1217, [doi:10.2138/am-2017-5760CCBY](#), 2017 .
31. Bennett, K.A., B.H.N. Horgan, L.R. Gaddis, B.T. Greenhagen, C.C. Allen, P.O. Hayne, [J.F. Bell III](#), and D.A. Paige, Complex explosive volcanic activity on the Moon within Oppenheimer crater, *Icarus*, 264, 331-341, [doi:10.1016/j.icarus.2015.09.041](#), 2016.
30. Bennett, K.A. and [J.F. Bell III](#), A global survey of Martian central mounds: Central mounds as remnants of previously more extensive large-scale sedimentary deposits, *Icarus*, 264, 334-341, [doi:10.1016/j.icarus.2015.09.041](#), 2016.
29. Williams, N.R., [J.F. Bell III](#), P.R. Christensen, and J.D. Farmer, Evidence for an explosive origin of central pit craters on Mars, *Icarus*, 252, 175-185, [doi:10.1016/j.icarus.2014.12.005](#), 2015.
28. Edgar, L.A., J.P. Grotzinger, [J.F. Bell III](#), and J.A. Hurowitz, Hypotheses for the origin of fine-grained sedimentary rocks at Santa Maria Crater, Meridiani Planum, *Icarus*, 234, 36-44 [doi:10.1016/j.icarus.2014.02.019](#), 2014.
27. Horgan, B.N.H, E.A. Cloutis, P. Mann, and [J.F. Bell III](#), Near-infrared spectra of ferrous mineral mixtures and methods for their identification in planetary surface spectra, *Icarus*, 234, 132-154; [doi:10.1016/j.icarus.2014.02.031](#), 2014.
26. Anderson, R.B. and [J.F. Bell III](#), Correlating multispectral imaging and compositional data from the Mars Exploration Rovers and implications for Mars Science Laboratory, *Icarus*, 223, 157-180; [doi:10.1016/j.icarus.2012.11.029](#), 2013.
25. Rice, M.S., [J.F. Bell III](#), S. Gupta, Geologic characterization of Eberswalde crater and testable hypotheses for habitability in an ancient fluvial environment on Mars, *Mars*, 8, 15-57; [doi:10.1555/mars.2013.0002](#), 2013.
24. Rice, M.S., E.A. Cloutis, [J.F. Bell III](#), D.L. Bish, B.N. Horgan, S.A. Mertzman, M. Craig, R.W. Renaut, and B. Gautason, Reflectance Spectra Diversity of Silica-Rich Materials: Sensitivity to Environment and Implications for Detections on Mars, *Icarus*, 223, 499-533, [doi:10.1016/j.icarus.2012.09.021](#), 2013.
23. Williams, N.R., T.R. Watters, M.E. Pritchard, M.E. Banks, [J.F. Bell III](#), T. Tran, and M.S. Robinson, Fault dislocation modeled structure of lobate scarps from Lunar Reconnaissance Orbiter Camera digital terrain models, *JGR*, [doi:10.1002/jgre.20051](#), 2013.
22. Gustafson, J.O., [J.F. Bell III](#), L.R. Gaddis, B.R. Hawke, and T.A. Giguere, Characterization of Previously Unidentified Lunar Pyroclastic Deposits using Lunar Reconnaissance Orbiter Camera (LROC) Data, *J. Geophys. Res.*, 117, E6, [doi:10.1029/2011JE003893](#), 2012.
21. Horgan, B.N.H. and [J.F. Bell III](#), Seasonally active slipface avalanches in the north polar sand sea of Mars: Evidence for a wind-related origin, *GRL*, 39, L09201, [doi:10.1029/2012GL051329](#), 2012.
20. Anderson, R.B., R.V. Morris, S.M. Clegg, [J.F. Bell III](#), R.C. Wiens, S.D. Humphries, S.A. Mertzman, T.G. Graff and R. McInroy, Remote quantitative chemical composition of rocks using laser induced breakdown spectroscopy with partial least squares and artificial neural network methods, *Icarus*, 215, 608-627, [doi:10.1016/j.icarus.2011.07.034](#), 2012.

19. Rice, M.S., S. Gupta, J.F. Bell III, and N.H. Warner, Influence of fault-controlled topography on fluvio-deltaic sedimentary systems in Eberswalde crater, Mars, *Geophys. Res. Lett.*, 38, L16203, [doi:10.1029/2011GL048149](https://doi.org/10.1029/2011GL048149), 2011.
18. Horgan, B.H. and J.F. Bell III, Widespread weathered glass on the surface of Mars, *Geology*, 40, 391-394, [doi:10.1130/G32755.1](https://doi.org/10.1130/G32755.1), 2012.
17. Rice, M.S., J.F. Bell III, E.A. Cloutis, J.J. Wray, K.E. Herkenhoff, R. Sullivan, J.R. Johnson, and R.B. Anderson, Temporal observations of bright soil exposures at Gusev Crater, Mars, *J. Geophys. Res.*, 116, E00F14, [doi:10.1029/2010JE003683](https://doi.org/10.1029/2010JE003683), 2011.
16. McConnochie, T., J.F. Bell III, D. Savransky, M.J. Wolff, A.D. Toigo, H. Wang, M.I. Richardson, and P.R. Christensen, THEMIS-VIS Observations of Clouds in the Martian Mesosphere: Altitudes, Wind Speeds, and Decameter-Scale Morphology, *Icarus*, 210, 545-565, [doi:10.1016/j.icarus.2010.07.021](https://doi.org/10.1016/j.icarus.2010.07.021), 2010.
15. Anderson, R.B. and J.F. Bell III, Geologic mapping and characterization of Gale crater and implications for its potential as a Mars Science Laboratory landing site, *Mars*, 5, 76-128, [doi:10.1555/mars.2010.0004](https://doi.org/10.1555/mars.2010.0004), 2010.
14. Rice, M.S., J.F. Bell III, E. A. Cloutis, A. Wang, S. Ruff, M.A. Craig, D.T. Bailey, J.R. Johnson, P.A. de Souza, Jr., and W.H. Farrand, Silica-rich deposits and hydrated minerals at Gusev Crater, Mars: Vis-NIR spectral characterization and regional mapping, *Icarus*, 205, 375-395, [doi:10.1016/j.icarus.2009.03.035](https://doi.org/10.1016/j.icarus.2009.03.035), 2010.
13. Horgan, B.N.H., J.F. Bell III, E.Z. Noe Dobrea, E.A. Cloutis, D.T. Bailey, and M.A. Craig, The distribution of hydrated minerals in the north polar region of Mars, *J. Geophys. Res.*, 114, E01005, [doi:10.1029/2008JE003187](https://doi.org/10.1029/2008JE003187), 2009.
12. Soderblom, J.M., J.F. Bell III, J.R. Johnson, J. Joseph, and M.J. Wolff, Mars Exploration Rover Navigation Camera (Navcam) in-flight calibration, *J. Geophys. Res.*, 113, E06S19, [doi:10.1029/2007JE003003](https://doi.org/10.1029/2007JE003003), 2008.
11. Noe Dobrea, E. Z., J.F. Bell III, M. J. Wolff, K. Noll, A. Lubenow, and C.C. Million, Global-Scale Near Infrared Variability on Mars: Analysis of 2003 Mars Opposition Observations from HST/NICMOS, *Icarus*, 193, 112-124, [doi:10.1016/j.icarus.2007.07.026](https://doi.org/10.1016/j.icarus.2007.07.026), 2008.
10. Kinch, K.J., J. Sohl-Dickstein, J.F. Bell III, J.R. Johnson, W. Goetz, and G.A. Landis, Dust deposition on the Mars Exploration Rover Panoramic Camera (Pancam) calibration targets, *J. Geophys. Res.*, 112, CiteID E06S03, [doi:10.1029/2006JE002807](https://doi.org/10.1029/2006JE002807), 2007.
9. Soderblom, J.M., J.F. Bell III, M.Y.H. Hubbard, and M.J. Wolff, Martian phase function: Modeling the visible to near-infrared surface photometric function using HST-WFPC2 data, *Icarus*, 184, 401-423, [doi:10.1016/j.icarus.2006.05.006](https://doi.org/10.1016/j.icarus.2006.05.006), 2006.
8. Noe Dobrea, E.Z., J.F. Bell III, T.H. McConnochie, and M. Malin, Analysis of a Spectrally Unique Deposit in the Dissected Noachian Terrain of Mars, *J. Geophys. Res.*, 111, E06007, [doi:10.1029/2005JE002431](https://doi.org/10.1029/2005JE002431), 2006.
7. McConnochie, T.H., J.F. Bell III, D. Savransky, G. Mehall, M. Caplinger, P. R. Christensen, L. Cherednik, K. Bender, A. Dombovari, Calibration and In-Flight Performance of the Mars Odyssey THEMIS Visible Imaging Subsystem (VIS) Instrument, *J. Geophys. Res.*, 111, E06018, [doi:10.1029/2005JE002568](https://doi.org/10.1029/2005JE002568), 2006.
6. Noe Dobrea, E.Z. and J.F. Bell III, TES Spectroscopic Identification of a Region of Persistent Water Ice Clouds on the Flanks of Arsia Mons Volcano, Mars, *J. Geophys. Res.*, 110, E05002, [doi:10.1029/2003JE002221](https://doi.org/10.1029/2003JE002221), 2005.
5. Lim, L.F., T.H. McConnochie, J.F. Bell III, and T.L. Hayward, Thermal infrared (8 to 13 μm) spectra of 29 asteroids: The Cornell Mid-Infrared Asteroid Spectroscopy ("MIDAS") survey, *Icarus*, 173, 385-408, [doi:10.1016/j.icarus.2004.08.005](https://doi.org/10.1016/j.icarus.2004.08.005), 2004.
4. Noe Dobrea, E.Z., J.F. Bell III, M.J. Wolff, and K.D. Gordon, H₂O- and OH-bearing minerals in the Martian regolith: Analysis of 1997 observations from HST/NICMOS, *Icarus*, 166, 1-20, 2003.
3. Klassen, D.R. and J.F. Bell III, Radiance factor calibration of near-infrared spectral images of Mars, *Icarus*, 163, 66-77, [doi:10.1016/S0019-1035\(03\)00044-7](https://doi.org/10.1016/S0019-1035(03)00044-7), 2003.
2. Klassen, D.R., J.F. Bell III, R.R. Howell, P.E. Johnson, W. Golisch, C.D. Kaminski, and D. Griep, Infrared spectral imaging of Martian clouds and ices, *Icarus*, 138, 36-48, [doi:10.1006/icar.1998.6058](https://doi.org/10.1006/icar.1998.6058), 1999.
1. Mischna, M., J.F. Bell III, P.B. James and D. Crisp, Synoptic measurements of Martian winds using the Hubble Space Telescope, *Geophys. Res. Lett.*, 25, 611-614, [doi:10.1029/98GL50358](https://doi.org/10.1029/98GL50358), 1998.

NASA/NATIONAL RESEARCH COUNCIL COMMITTEE REPORT CO-AUTHORSHIP

4. NASA Asteroid Redirect Mission (ARM) Formulation Assessment and Support Team (FAST) Final Report, D.D. Mazanek (Co-Chair), D.M. Reeves (Co-Chair), P.A. Abell, E. Asphaug, N.M. Abreu, J.F. Bell III, W.F. Bottke, D.T. Britt, H. Campins, P.W. Chodas, C.M. Ernst, M.D. Fries, L.S. Gertsch, D.P. Glavin, C.M. Hartzell, A.R. Hendrix, J.A. Nuth, D.J. Scheeres, J.C. Sercel, D. Takir, and K. Zacny, NASA TM-2016-219011, Feb. 2016, online at https://www.nasa.gov/sites/default/files/atoms/files/nasa-tm-2016-219011-arm-fast-final-report_0.pdf
3. NASA Mars-2020 Science Definition Team (SDT): J.F. Mustard, (chair), M. Adler, A. Allwood, D.S. Bass, D.W. Beaty, J.F. Bell III, W.B. Brinckerhoff, M. Carr, D.J. Des Marais, B. Drake, K.S. Edgett, J. Eigenbrode, L.T. Elkins-Tanton, J.A. Grant, S. M. Milkovich, D. Ming, C. Moore, S. Murchie, T.C. Onstott, S.W. Ruff, M.A. Sephton, A. Steele, A. Treiman: Report of the Mars-2020 Science Definition Team, 154 pp., posted July, 2013, online at http://mepag.jpl.nasa.gov/reports/MEP/Mars_2020_SDT_Report_Final.pdf, 2013.

2. National Research Council/National Academies of Sciences Committee on the Review of Planetary Protection Requirements for Mars Sample Return Missions, J.D. Farmer (Chair), J.F. Bell III, K.C. Benison, W.V. Boynton, S.L. Cady, F.G. Ferris, D. Macpherson, M.S. Race, M.H. Thiemens, and M. Wadhwa, The National Academies Press, Washington, DC, [doi:10.17226/12576](https://doi.org/10.17226/12576), 2009.
1. National Research Council/National Academies of Sciences, Workshop Proceedings on Reducing the Costs of Space Science Research Missions, B.C. Corn (Co-Chair), J.J. Donegan (Co-Chair), R. Arno, J.P. Bagian, D.N. Baker, D. Bearden, J.F. Bell III, K. Biber, J. Blamont, A. Christensen, T. Dawson, S. Dubyn, J.E. Farr, J. Fischer, D. Fitzgerald, B.J. Garrick, J. Grey, R. Hartunian, T. Heinsheimer, M. Hirschbein, D. Johnson, W.J. Larson, B. Lusignan, M. Malin, B. Moran, R. Obermann, M. Packard, E. Rechten, F.J. Redd, L.P. Sarsfield, M. Seibel, H.E. Senesack, D.L. Shirley, G. Squibb, M. Stancati, L.L. Thompson, W. Ware, J. Westrich, and P. Wilhelm, Washington, DC: The National Academies Press, [doi:10.17226/5829](https://doi.org/10.17226/5829), 1997.

BOOKS AND BOOK CHAPTERS

22. ["The Art of the Cosmos: Visions from the Frontier of Deep Space Exploration"](#), Union Square & Co., New York; ISBN-13: 9781454946083, 224 pp., 2022.
21. ["Discovering Mars: A History of Observation and Exploration of the Red Planet"](#), W. Sheehan and J.F. Bell III, Univ. Arizona Press, Tucson, ISBN-13: 978-0816532100, 744 pp., 2021.
20. ["Hubble Legacy: 30 Years of Discoveries and Images."](#) Sterling, New York, ISBN-13: 978-1454936220, 224 pp., 2020. [also translated into Japanese and Chinese]
19. ["Remote Compositional Analysis: Techniques for Understanding Spectroscopy, Mineralogy, and Geochemistry of Planetary Surfaces."](#) edited by J.L. Bishop, J. Moersch, and J.F. Bell, III, Cambridge Univ. Press, ISBN-13: 978-1107186200, 632 pp., 2020.
19. ["The Earth Book."](#) Sterling, New York, ISBN-13: 978-1454929109, 528 pp., 2019. [also translated into Chinese]
17. ["The Ultimate Interplanetary Travel Guide."](#) ISBN-13: 978-1454925682, 146 pp., Sterling, New York, 2018. [also translated into Chinese]
16. "Human Exploration of Mars: Fact from Fiction?" in [Visions, Ventures, Escape Velocities: A Collection of Space Futures](#) (E. Finn and J. Eschrich, eds.), ASU Center for Science and the Imagination, ISBN 978-0-9995902-2-5, pp. xxiv-xxxi, 2017.
15. "The Luxury Problem: Space Exploration in the 'Emergency Century:' A Conversation with Kim Stanley Robinson," in [Visions, Ventures, Escape Velocities: A Collection of Space Futures](#) (E. Finn and J. Eschrich, eds.), ASU Center for Science and the Imagination, Visions, Ventures, Escape Velocities: A Collection of Space Futures, ISBN 978-0-9995902-2-5, pp. 265-273, 2017.
14. "The NewSpace of Tomorrow," in [Journeys Through Time and Space](#) (E. Finn and G.P. Zachary, eds.), ASU Center for Science and the Imagination, pp 1-7, 2015.
13. ["The Interstellar Age: Inside the Forty Year Voyager Mission."](#) ISBN-13: 978-0525954323, 336 pp., Dutton, New York, 2015. [also translated into Italian and Japanese]
12. ["The Space Book"](#), ISBN-13: 978-1402780714, 529 pp., Sterling, New York, 2013. [also translated into Chinese, Russian, French, Spanish, Dutch, Greek, and German]
11. "Quantifying the Martian Geochemical Reservoirs: An Interdisciplinary Perspective," M.J. Toplis, J.F. Bell III, E. Chassefière, C. Sotin, T. Spohn, and M. Blanc, editors; Springer, *Space Sci. Rev.*, 174, <http://link.springer.com/article/10.1007%2Fs11214-012-9951-8> - page-1, doi:10.1007/s11214-012-9951-8, 2013.
10. "Planetary Exploration Using Hyperspectral Remote Sensing," (with K. Reed *et al.*) chapter in *Manual of Remote Sensing: Hyperspectral Remote Sensing*, Amer. Soc. Photogramm. Rem. Sens., submitted, 2007.
9. ["Moon 3-D"](#), ISBN-13: 978-1402765513, Sterling, New York, 160 pp., 2009. [also translated into Russian]
8. ["Mars 3-D"](#), ISBN-13: 978-1-4027-5620-7, Sterling, New York, 160 pp., 2008. [also translated into Russian]
7. ["The Martian Surface: Composition, Mineralogy, and Physical Properties"](#), (Editor: J.F. Bell III), ISBN-13: 9780521866989, Cambridge University Press Planetary Science Series, Cambridge, 636 pp., 2008.
6. ["Postcards from Mars"](#), ISBN 0525949852, Dutton/Penguin, New York, 196 pp., 2006. [also translated into Japanese and German]
5. "Mineralogy of Mars", McGraw-Hill Yearbook of Science and Technology, ISBN-13: 978-0071445047, McGraw-Hill, New York, 432 pp., 2005.
4. ["Asteroid Rendezvous"](#), (Editors: J.F. Bell III and J. Mitton), ISBN 0521813603, Cambridge University Press, Cambridge, 130 pp., 2002.
3. "Natural Resources in Space," MacMillan Space Science Series Volume 4: Our Future in Space, ISBN 13: 9780028655468, pp. 115-118, MacMillan Reference USA, 2002.
2. "Planetary Geology" (with B.A. Campbell and M.S. Robinson), Chapter 10 in [Remote Sensing for the Earth Sciences: Manual of Remote Sensing, Third Edition, Volume 3](#), ISBN: 978-0-471-29405-4, pp. 509-564, A.N. Renz, Editor, John Wiley & Sons, 728 pp., 1999.
1. "Visible and Near-Infrared Spectroscopy", entry in [Encyclopedia of Planetary Sciences](#) (J.H. Shirley and R.W. Fairbridge, eds.), ISBN-13: 978-0412069512, Chapman and Hall, New York, pp. 911-915, 1997.

POPULAR SCIENCE ARTICLES, BLOGS, PODCASTS, INTERVIEWS, AND TALKS

100. "Flying with Ingenuity on Mars," *Sky & Telescope*, Vol. 144, no. 2, pp. 12-19, August, 2022.

99. ["Renaissance in Red: Setting the Stage for Mars Sample Return."](#) by Jim Bell, *The Planetary Report*, vol. 42, no. 2, pp. 8-17, June, 2022.
98. ["NASA is bringing rocks back from Mars, but what if those samples contain alien life?"](#), National Public Radio interview, Morning Edition, May 4, 2022.
97. ["50 Years on Mars"](#) (with William Sheehan), *Astronomy Magazine*, pages 16-23, Nov. 2021.
96. ["Science Overview: NASA Perseverance Mars Rover"](#) (NASA Press Briefing panelist), Feb. 16, 2021.
95. ["Why the Quest for the Ninth Successful Landing on Mars Is Unlike Any That Have Come Before."](#) *Slate online*, Feb. 17, 2021.
94. ["Calibrating Mars"](#) by Kjartan Kinch, Mark Hilverda, Morten Bo Madsen, and Jim Bell, *The Planetary Report*, vol. 40, 19-22, December, 2020.
93. ["What is a Planet?"](#) participant in interview on the Pale Blue Dot Podcast, Dec. 13, 2019.
92. ["NASA's Mars 2020 Rover: Mapping Mars in 3-D."](#) Pacific International Space Center for Exploration Systems (PISCES) Newsletter, p. 2, Oct. 2019.
91. "Martian Weather Report," *Sky & Telescope Magazine*, pp. 22-29, Dec. 2019.
90. ["Digging Deep into Mars."](#) *Astronomy Magazine*, pages 18-27, Oct. 2019.
89. ["Is there Life on Mars?"](#) *Astronomy Magazine*, pp. 24-29, Sept., 2019.
88. ["Remembering the Pathfinders to the Moon."](#) *New York Times*, May 14, 2019.
87. ["The MILO Institute: A new model for deep space exploration."](#) (Op-Ed) *Space News*, Dec. 21, 2018.
86. ["An astounding journey to Pluto and beyond."](#) (book review) *Physics Today*, vol. 71, pp. 51-52, Oct. 2018.
85. ["Science Facts Inspire Science Fiction – And Vice Versa!"](#) *Forces of Geek*, April 16, 2018.
84. ["NASA Lander May Search for Alien Life on Europa."](#) CNN TV interview with Cyril Vanier (Feb. 19, 2017)
83. "Weekending on the Moon," Arizona State University KEDtalk presentation (<https://research.asu.edu/stories/watch/kedtalks-weekending-moon/>), November 17, 2016.
82. "Alan Stern & New Horizons Team Receive Cosmos Award," *The Planetary Society Blog* (<http://www.planetary.org/blogs/guest-blogs/2016/1012-alan-stern-new-horizons-team-cosmos-award.html>), October 12, 2016.
81. Did Venus have oceans? What about Mars?" in *Astronomy's 60 Greatest Mysteries*, special issue of *Sky & Telescope* magazine, pp. 24-25, 2016.
80. "The Promising Future of Commercial Space, Despite the Setbacks," *Huffington Post Science Blog* (<http://www.huffingtonpost.com/entry/the-promising-future-of-commercial-space-despite-the-us-57cd93a8e4b07addc413b35c>), 5 Sept. 2016.
79. "Getting Humans to Mars," *Sky & Telescope*, p. 84, June, 2016.
78. ["We have to get off this planet!"](#) TEDx Talk, Arrowhead Ranch, Scottsdale, AZ, Apr. 30, 2016.
77. "A Fresh Look at Mars," *Astronomy Magazine*, pp. 28-33, August, 2015.
76. "Vivid Dispatches from Space," Zócalo Public Square "Ideas" Web Page, <http://www.zocalopublicsquare.org/2015/05/21/vivid-dispatches-space-scientist-voyager-mission/ideas/nexus/>, 21 May 2015.
75. "SpaceShipTwo: Much more than just a roller coaster for the rich," *Huffington Post Science Blog* (http://www.huffingtonpost.com/jim-bell/spaceshiptwo-much-more-th_b_6090596.html), Nov. 4, 2014.
74. "Why Rosetta Spacecraft Chased After a Comet," CNN.com Op/Ed piece, 8 August 2014 (<http://www.cnn.com/2014/08/08/opinion/bell-rosetta-comet/index.html>)
73. "Tiny Planet, Huge Charisma," *Sky & Telescope, Mysteries & Marvels of the Red Planet*, pp. 26-31, 2014.
72. "A Galaxy Full of Earths?" CNN.com Op/Ed piece, 18 April 2014 (<http://www.cnn.com/2014/04/18/opinion/bell-planet-discovery>)
71. "Extreme Mars," *Sky & Telescope*, Summer 2014.
70. "Mars the Beautiful," *Sky & Telescope's Beautiful Universe*, pp. 38-68, 2014.
69. "Book Review: The Space Chronicles," *Nature*, 490, p. 150, 11 July 2013.
68. "The Luxury of Scientifically Aesthetic Photography", (<http://photoworks.org.uk/the-luxury-of-scientifically-aesthetic-photography/>), *Photoworks*, 17 June 2013.
67. "One Ocean World Among Many," *Huffington Post TEDWeekends Blog*, (http://www.huffingtonpost.com/jim-bell/water-solar-system_b_3366503.html), June 1, 2013.
66. "Life on Mars" (book review), *Nature*, 497, May 16, 2013.
65. "Have a Drink on Mars," CNN.com Op/Ed (<http://www.cnn.com/2013/03/14/opinion/bell-mars-water/>), March 14, 2013.
64. "The Path to Second-Term Success Goes Through Space," *Huffington Post Science Blog*, (http://www.huffingtonpost.com/jim-bell/the-path-to-secondterm-su_b_2790565.html), March 4, 2013.
63. "An Audible tour of the Solar System? Sign Me Up!" *Huffington Post TEDWeekends Blog* (http://www.huffingtonpost.com/jim-bell/solar-system-sounds_b_2736114.html?utm_hp_ref=science&ir=Science), Feb. 21, 2013.
62. "Mars Exploration: Roving the Red Planet," *Nature*, 490, 34-35, 4 October 2012 ([doi:10.1038/490034a](https://doi.org/10.1038/490034a)).
61. "Protoplanet Closeup", *Sky & Telescope*, September 2012, pp. 32-37.
60. "Will Curiosity Find Life on Mars?", *Astronomy*, pp. 20-25, August 2012.

59. "Mars is Getting Big in the Windshield," *Huffington Post Science Blog* (http://www.huffingtonpost.com/jim-bell/mars-is-getting-big-in-th_b_1676918.html), July 17, 2012.
58. "Not Necessarily Your Last Venus Transit!", *Huffington Post Science Blog* (http://www.huffingtonpost.com/jim-bell/-venus-transit_b_1557551.html), June 3, 2012.
57. "Virtual Exploration, Virtually Everywhere", *Huffington Post Science Blog* (http://www.huffingtonpost.com/jim-bell/telerobotics_b_1513254.html), May 14, 2012.
56. "A Turning Point at Mars", *Huffington Post Science Blog* (http://www.huffingtonpost.com/jim-bell/a-turning-point-at-mars_b_1412890.html), Apr. 9, 2012.
55. "Space, Available," *Huffington Post Science Blog* (http://www.huffingtonpost.com/jim-bell/space-available_b_1291814.html), Feb. 22, 2012.
54. "Seeing the Moon Like Never Before", *Sky & Telescope*, June 2012, pp. 19-23.
53. "A Tale of Two Martians," *Huffington Post Science Blog* (http://www.huffingtonpost.com/jim-bell/a-tale-of-two-martians_b_1163741.html), Jan. 9, 2012.
52. "NASA's Curiosity Rover: Hunting for Signs of Life on the Red Planet," BBC Focus Magazine, Fall 2011.
51. "Dawn's Early Light: A Vesta Fiesta!" *Sky & Telescope*, Nov. 2011.
50. "Change Comes From Within," *Planetary Report*, vol. 31, no. 1, pp. 12-14, Jan/Feb 2011.
49. "Never-Ending Postcards from Mars," *Astronomy Beat*, 59, Astron. Soc. Pac., Nov. 1, 2010.
48. "Umbra in Paradise: The July 11, 2010 Planetary Society Solar Eclipse Expedition", *The Planetary Society Blog* (<http://planetary.org/blog/article/00002605/>), July 30, 2010
47. "Spirit: Not Dead Yet," by Emily Lakdawalla & Jim Bell, *The Planetary Report*, May/June, 2010.
46. "Once a Decade", *The Planetary Society Blog* (<http://planetary.org/blog/article/00001933/>), May 9, 2009.
45. "Take us to Our Leader", *The Planetary Society Blog* (<http://planetary.org/blog/article/00001929/>), May 5, 2009.
44. "Fly Me to the Moon", *The Planetary Society Blog* (<http://planetary.org/blog/article/00001928/>), May 4, 2009.
43. "Beyond the Moon", Op-Ed by Doug Stetson & Jim Bell, *Space News*, February 3, 2009.
42. "365 Days of Astronomy Podcast: Five Years of Living Vicariously on Mars," *365 Days of Astronomy Podcast (and transcript)*, (<http://planetary.org/blog/article/00001821/>), Jan. 24, 2009.
41. "Sands on Earth, Sands on Mars", *The Planetary Society Blog* (<http://planetary.org/blog/article/00001508/>), June 13, 2008.
40. "MARCI and CTX: Lesser-known (but important!) siblings on MRO", *The Planetary Society Blog* (<http://planetary.org/blog/article/00001506/>), June 11, 2008.
39. "Phoenix and the Quest for the Improbable," *The Planetary Society Blog* (<http://planetary.org/blog/article/00001502/>), June 9, 2008.
38. "Have Brain, Must Travel," *Scientific American*, August 2007, pp. 36-37.
37. "The Next Age of Exploration," *Sky & Telescope's "Beautiful Universe"*, 2007, pp. 10-12.
36. "Portraits from Mars," *Astronomy*, January 2007, pp. 64-69.
35. "Photographing Mars," *The Planetary Report*, November/December 2006, pp. 12-18.
34. "The Red Planet's Watery Past," *Scientific American*, December 2006, pp. 62-69.
33. "Giving Away the Data", *The Planetary Society Blog* (<http://planetary.org/blog/article/00000681/>), Aug. 25, 2006
32. "I can't remember what my day job used to be like", *The Planetary Society Blog* (<http://planetary.org/blog/article/00000679/>), Aug. 23, 2006
31. "We Need Global Warming!", *The Planetary Society Blog* (<http://planetary.org/blog/article/00000678/>), Aug. 22, 2006
30. "What's in a Name?", *The Planetary Society Blog* (<http://planetary.org/blog/article/00000677/>), Aug. 21, 2006.
29. "Backyard Astronomy from Mars," *Sky & Telescope*, August 2006, pp. 40-44.
28. "Return to Mars," *Sky at Night*, August 2005, pp. 26-32.
27. "In Search of Martian Seas," *Sky & Telescope*, March 2005, pp. 40-47.
26. "MER/Pancam Data Processing User's Guide," Jim Bell, Jonathan Joseph, and Jascha Sohl-Dickstein, version 1.0, released via NASA/Planetary Data System, 28 July 2004. (http://pds-imaging.jpl.nasa.gov/data/mer/opportunity/mer1po_0xxx/document/pancam_users_guide.pdf)
25. "The MarsDial: A Sundial for the Red Planet," (with Woody Sullivan), *The Planetary Report*, January/February 2004, pages 6-11 (https://s3.amazonaws.com/planetary/assets/tpr/pdf/tpr-2004-v24n1_200424_191231.pdf).
24. "The Human Side of Mars Exploration," *The Planetary Report*, November/December 2003.
23. "Mineral Mysteries and Planetary Paradoxes," *Sky & Telescope*, December 2003, pp. 34-40.
22. "Blazing a New Path," *Astronomy Magazine*, August 2003, pp. 52-57.
21. "Red Rover's Rocky Road," *Mercury*, Vol. 23, No. 4, July/August 2003, pp. 14-23.
20. "Once and Future Mars," *Physics World*, January 2003, pp. 35-40.
19. "Mars" entry in Microsoft Encarta Dictionary, 2002.
18. "Tip of the Martian Iceberg?", *Science*, 297, 60-61, 2002.
17. "Colors on the Moon," *Astronomy*, May 2000, pp. 48-51.
16. "Students participate in Mars Sample Return rover field trials," (R. Arvidson *et al.*), *Eos*, 81, p. 113.
15. "Three recent books in planetary science (Book Reviews)", *Eos*, 81, pp. 139-140.
14. "All we need is will to go to Mars," *Newsday*, December 8, 1999, p. A45.
13. "Two Resources for Planetary Scientists (Book Reviews)", *Eos*, 80, p. 272.
12. "Exploring Crater Rays," *Astronomy*, May 1999, pp. 86-87.
11. "Dome Sweet Dome" *Astronomy*, October, 1998, pp. 94-95.
10. "Awash in a Sea of Crises" *Astronomy*, September, 1998, pp. 94-95.
9. "The International Marswatch Project" *Stars and Space*, September, 1998, pp. 88-89 (in German).

8. "Mars Pathfinder: Better Science?" *Sky & Telescope*, July 1998, pp. 36-43.
7. "Mars Pathfinder Keeps Going and Going..." *Modern Astronomer*, October, 1997, p. 17.
6. "Mathilde flyby provides first glimpse of a C-type asteroid," *Modern Astronomer*, August 1997, p. 15.
5. "Pathfinder on target for July 4 landing," *Modern Astronomer*, July 1997, p. 14.
4. "Return to Mars," *Modern Astronomer*, March 1997, pp. 39-43.
3. "Mars", in *Reports on Astronomy, Vol. XXIII*A, (IAU Commission 16), M.Ya. Marov and D.P. Cruikshank, eds., International Astronomical Union, 203-213, 1997.
2. "Far journey to a NEAR asteroid," *Astronomy*, March 1996, pp. 42-47.
1. "Backyard telescopes join research labs," *Mercury*, 23, 17.

OTHER CO-AUTHORED PEER-REVIEWED PUBLICATIONS

209. Lemmon, M.T., R.D. Lorenz, D. Rabinovitch, N. Williams, R. Sullivan, M. Golombek, C. Newman, J.F. Bell III, J.N., Maki, and A. Vicente-Retortillo, Lifting and transport of Martian dust as seen by high-speed imaging of mechanically induced dust clouds, submitted to *J. Geophys. Res.*, 2022.
208. Haber, J.T., B. Horgan, A.A. Fraeman, J.R. Johnson, J.F. Bell III, M.S. Rice, C. Seeger, N. Mangold, L. Thompson, D. Wellington, E. Cloutis, and S. Jacob, Mineralogy of a possible ancient lakeshore in the Sutton Island member of Mt. Sharp, Gale crater, Mars, from Mastcam multispectral images, submitted to *J. Geophys. Res.*, 2022.
207. Johnson, J.R., W.M. Grundy, M.T. Lemmon, W. Liang, J.F. Bell III, A.G. Hayes, and R.G. Deen, Spectrophotometric Properties of Materials from the Mars Science Laboratory at Gale Crater: 1. Bradbury Landing to Cooperstown, in preparation for *J. Geophys. Res.*, 2022.
206. Vaughan, A., M.E. Minitti, E.L. Cardarelli, J.R. Johnson, L.C. Kah, P. Pilleri, M.S. Rice, M. Sephton, B.H.N. Horgan, R.C. Wiens, R.A. Yingst, M.-P.Z. Mier, A.J. Brown, E.A. Cloutis, A. Cousin, K.E. Herkenhoff, J.F. Bell III, E.M. Hausrath, A.G. Hayes, K.M. Kinch, M. Merusi, C.C. Million, R. Sullivan, S.M. Siljeström, and M. St. Clair, Regolith of the crater floor units, Jezero crater, Mars: Textures, composition and implications for provenance, submitted to *J. Geophys. Res.*, 2022.
205. Crumpler, L.S., B. Horgan, J. Simon, K. Stack, S. Alwmark, D. Gilles, R. Wiens, A. Udry, A. Brown, P. Russel, H. Amundson, S-E. Hamran, J.F. Bell III, D. Shuster, F. Calef, J. Núñez, B. Cohen, D. Flannery, C.D.K. Herd, K. Hand, J. Maki, M. Schmidt, M. Golombek, and N. Williams, *In Situ* Geologic Context Mapping Transect on the Floor of Jezero Crater from Mars 1 2020 Perseverance Rover Observations, submitted to *J. Geophys. Res.*, 2022.
204. Paar, G., T. Ortner, C. Tate, R.G. Deen, P. Abercrombie, M. Vona, J. Proton, A. Bechtold, F. Calef, R. Barnes, C. Koeberl, K. Herkenhoff, E. Hausrath, C. Traxler, P. Caballo, A. Annex, S. Gupta, J.F. Bell III, and J. Maki, Three-dimensional data preparation and immersive mission-spanning visualization 2 and analysis of Mars 2020 Mastcam-Z stereo image sequences, submitted to *J. Geophys. Res.*, 2022.
203. Lemmon, M.T., M.D. Smith, D. Viúdez-Moreiras, M. de la Torre-Juarez, A. Vicente-Retortillo, A. Munguira, A. Sanchez-Lavega, R. Hueso, G. Martinez, B. Chide, R. Sullivan, D. Toledo, L. Tamppari, T. Bertrand, J.F. Bell III, C. Newman, M. Baker, D. Banfield, J.A. Rodriguez-Manfredi, J.N. Maki, V. Apestigue, Dust, Sand, and Winds within an Active Martian Storm in Jezero Crater, submitted to *Geophys. Res. Lett.*, 2022.
202. Newman, C., R. Hueso, M.T. Lemmon, A. Munguira, Á. Vicente-Retortillo, V. Apestigue, G. Martínez, D.T. Carrasco, R. Sullivan, K. Herkenhoff, M. de la Torre Juárez, M.I. Richardson, A. Stott, N. Murdoch, A. Sanchez-Lavega, M. Wolff, I.A. Rodriguez, E. Sebastián, S. Navarro, J. Gómez-Elvira, L. Tamppari, D. Viúdez-Moreiras, A.-M. Hari, M. Genzer, M. Hieta, R.D. Lorenz, P. Conrad, F. Gómez, T. McConnochie, D. Mimoun, C. Tate, T. Bertrand, J.F. Bell III, J. Maki, J.A.R. Manfredi, R. Wiens, B. Chide, S. Maurice, M.-P. Zorzano, L. Mora, M. Baker, D. Banfield, J. Pla-García, O. Beyssac, A. Brown, B. Clark, A. Lepinette, F. Montmessin, E. Fischer, P. Patel, T. del Río-Gaztelurrutia, T. Fouchet, R. Francis, and S. Guzewich, The dynamic atmospheric and aeolian environment of Jezero crater, Mars, *Science Advances*, 8, [doi:10.1126/sciadv.abn3783](https://doi.org/10.1126/sciadv.abn3783), 2021.
201. Rudolph, A., B. Horgan, J. Johnson, K. Bennett, J. Haber, J.F. Bell III, V. Fox, S. Jacob, S. Maurice, E. Rampe, M. Rice, C. Seeger, and R. Wiens, The distribution of clay minerals and their impact on diagenesis in Glen Torridon, Gale crater, Mars, submitted to *J. Geophys. Res.*, 2021.
200. Marchi, S., J.F. Bell III, B. Bierhaus, J. Spencer, [...], Surface geology of Trojan asteroids, *Space Sci. Rev.*, submitted, 2021.
199. Bowman, C.D.D., L.T. Elkins-Tanton, A. Talamante, J.F. Bell III, E. Cisneros, A. Cook, J.D. Frieman, D. Gainor, J. Hunziker, S. Khan, C.R. Lawler, J. Maschino, T.J. McCoy, K. Nessi, R. Oran, D. Seal, A. Simon, R. Singh, C.M. Tolbert, K. Valentine, B. Weiss, D.D. Wenkert, and D.A. Williams, Psyche Student Collaborations: Including Undergraduates and the Public on the Journey to a Metal World, *Space Sci. Rev.*, submitted, 2021.

198. McCoy, T.J., S.D. Dibb, P.N. Peplowski, C. Maurel, H.L. Bercovici, C.M. Corrigan, [J.F. Bell III](#), B.P. Weiss, D.J. Lawrence, D.D. Wenkert, T.H. Prettyman, and L.T. Elkins-Tanton, Deciphering Redox State for a Metal-Rich World, *Space Sci. Rev.*, submitted, 2021.
197. Marchi, S., E. Asphaug, [J.F. Bell III](#), W. F. Bottke, R. Jaumann, R. S. Park, C. A. Polansky, T. Prettyman, D. A. Williams, R.P. Binzel, R. Oran, B. Weiss, and C.T. Russell, Determining the relative cratering ages of regions of Psyche's surface, *Space Sci. Rev.*, submitted, 2021.
196. Zuber, M.T., R.S. Park, L.T. Elkins-Tanton, [J.F. Bell III](#), K.N. Bruvold, D. Bercovici, B.R. Bills, R.P. Binzel, R. Jaumann, S. Marchi, C.A. Polansky, C.A. Raymond, T. Roatsch, C.C. Wang, B.P. Weiss, D. Wenkert, and M.A. Wieczorek, The Psyche Gravity Investigation, *Space Sci. Rev.*, submitted, 2021.
195. Jaumann, R., [J.F. Bell III](#), C.A. Polansky, C.A. Raymond, E. Asphaug, D. Bercovici, B.R. Bills, R. Binze, W. Bottke, J.M. Christoph, S. Marchi, A. Neesemann, K. Otto, R.S. Park, F. Preusker, T. Roatsch, D.A. Williams, M.A. Wieczorek, and M.T. Zuber, The Psyche Topography and Geomorphology Investigation, *Space Sci. Rev.*, submitted, 2021.
194. Polansky, C.A., L.T. Elkins-Tanton, S.K. Noble, B.P. Weiss, J. Merayo, [J.F. Bell III](#), D.J. Lawrence, R.S. Park, R.P. Binzel, T. McCoy, N.K. Alonge, K.D. Cloutier, E. Cisneros, D. Wenkert, D. Bass, T. Weise, D. Han, N. Mastrodemos, D. Oh, I. Jun, C.T. Russell, M. Zuber, K. Larsen, A. Feldman, W.M. Klipstein, P. Peplowski, and T. Prettyman, Psyche Mission Overview, *Space Sci. Rev.*, submitted, 2021.
193. Elkins-Tanton, L., E. Asphaug, [J.F. Bell III](#), B. Bills, W. Bottke, I. Jun, D. Lawrence, S. Marchi, T. McCoy, J. Merayo, R. Oran, R. Park, P. Peplowski, T. Prettyman, C. Raymond, B. Weiss, M. Wieczorek, and M. Zuber, [Distinguishing the origin of asteroid \(16\) Psyche](#), *Space Sci. Rev.*, 218, 2022.
192. Crowther, B.G., [J.R. Rogers](#), J.M. Rodgers, [M.A. Ravine](#), [J.F. Bell III](#), J. Laramee, and J.N. Maki "Optical design of the Mastcam-Z lenses", Proc. SPIE 12078, International Optical Design Conference 2021, 120780C; doi:10.1117/12.2603621, 19 Nov. 2021.
191. Metzger, P., W. Grundy, M. Sykes, A. Stern, [J.F. Bell III](#), C. Detelich, K. Runyon, and M. Summers, Moons are Planets: Scientific Reductionism versus Cultural Teleology in the Taxonomy of Planetary Science, *Icarus*, doi:10.1016/j.icarus.2021.114768, 2021.
190. Mangold, N., S. Gupta, O. Gasnault, G. Dromart, J.D. Tarnas, S.F. Sholes, B. Horgan, C. Quantin-Nataf, A.J. Brown, S. Le Mouélic, R.A. Yingst, [J.F. Bell III](#), O. Beyssac, T. Bosak, F. Calef III, B.L. Ehlmann, K.A. Farley, J.P. Grotzinger, K. Hickman-Lewis, S. Holm-Alwmark, L.C. Kah, J. Martinez-Frias, S.M. McLennan, S. Maurice, J.I. Nuñez, A.M. Ollila, P. Pilleri, J.W. Rice J., M. Rice, J.I. Simon, D.L. Shuster, K.M. Stack, V.Z. Sun, A.H. Treiman, B.P. Weiss, R.C. Wiens, A.J. Williams, N.R. Williams, K.H. Williford and the Mars 2020 Science Team, Evidence for a delta-lake system and ancient flood deposits at Jezero crater, Mars, from the Perseverance rover, *Science*, doi:10.1126/science.aba14051, 2021.
189. Levison, H.F., C.B. Olkin, K.S. Noll, S. Marchi, [J.F. Bell III](#), E. Bierhaus, R. Binzel, W. Bottke, D. Britt, M. Brown, M. Buie, P. Christensen, J. Emery, W. Grundy, V.E. Hamilton, C. Howett, S. Mottola, M. Pätzold, D. Reuter, J. Spencer, T.S. Statler, S.A. Stern, J. Sunshine, H. Weaver, and I. Wong, Lucy Mission to the Trojan Asteroids: Science Goals, *Planetary Science Journal*, 2, doi:10.3847/PSJ/abf840, 2021.
188. Olkin, C.B., H. Levison, M. Vincent, J. Andrews, S. Gray, P. Good, K. Noll, S. Marchi, P. Christensen, D. Reuter, H. Weaver, M. Pätzold, [J.F. Bell III](#), V. Hamilton, N. Dello Russo, A. Simon, M. Beasley, W. Grundy, C. Howett, J. Spencer, M. Ravine, and M. Caplinger, Lucy Mission to the Trojan Asteroids: Concept of Operations and Instrumentation, *Planetary Science Journal*, 2, doi:10.3847/PSJ/abf83f, 2021.
187. Christensen, L., R. Park, and [J.F. Bell III](#), Estimating Asteroid Mass from Optically Tracked Radio Beacons, *AIAA Journal of Spacecraft and Rockets*, doi:10.2514/1.A34830, 2021.
186. Hayes, A.G., P. Corlies, C. Tate, [J.F. Bell III](#), J.N. Maki, M. Caplinger, K.M. Kinch, K. Herkenhoff, B. Horgan, J. Johnson, G. Parr, M.S. Rice, E. Jensen, T.M. Kubacki, E. Cloutis, B. Ehlmann, E. Lakdawalla, R. Sullivan, A. Winhold, M. Barrington, A. Parkinson, J. van Beek, P. Caballo-Perucha, E. Cisneros, D. Dixon, C. Donaldson, O.B. Jensen, J. Kuik, K. Lapo, and A. Magee, Pre-Flight Calibration of the Mars 2020 Rover Mastcam Zoom (Mastcam-Z) Multispectral, Stereoscopic Imager, *Space Sci. Rev.*, 217, doi:10.1007/s11214-021-00795-x, 2020.
185. Johnson, J.R., W.G. Grundy, M.T. Lemmon, W. Liang, [J.F. Bell III](#), A.G. Hayes, R.G. Deen, Spectrophotometric Properties of Materials Observed by Pancam on the Mars Exploration Rovers: 4. Final Mission Observations, *Icarus*, 357, 114261, <https://doi.org/10.1016/j.icarus.2020.114261>, 2021.
184. Farley, K.A., K.H. Williford, K.M. Stack, R. Bhartia, A. Chen, M. de la Torre, K. Hand, Y. Goreva, C.D.K. Herd, R. Hueso, Y. Liu, J.N. Maki, G. Martinez, R.C. Moeller, A. Nelessen, C.E. Newman, D. Nunes, A. Ponce, N. Spanovich, P.A. Willis, L.W. Beegle, [J.F. Bell III](#), A.J. Brown, S.-E. Hamran, J.A. Hurowitz, S. Maurice, D.A. Paige, J.A. Rodriguez-Manfredi, M. Schulte, and R.C. Wiens, Mars 2020 Mission Overview, *Space Sci. Rev.*, 216, 142, doi:10.1007/s11214-020-00762-y, 2020.
183. Kinch, K.M., M.B. Madsen, [J.F. Bell III](#), J.N. Maki, Z. Bailey, A.G. Hayes, O.B. Jensen, M. Merusi, M.H. Bernth, A.N. Sørensen, M. Hilverda, E. Cloutis, D. Applin, E. Mateo-Marti, J. A. Manrique, G. Lopez-Reyes,

- A. Bello-Arufe, B. Ehlmann, J. Buz, A. Pommerol, N. Thomas, L. Affolter, K. Herkenhoff, J.R. Johnson, M. Rice, P. Corlies, C. Tate, M. Caplinger, E. Jensen, T. Kubacki, E. Cisneros, K. Paris, A. Winhold, and D. Wellington, Radiometric Calibration Targets for the Mastcam-Z Camera on the Mars 2020 Rover Mission, *Space Sci. Rev.*, 216, 141, [doi:10.1007/s11214-020-00774-8](https://doi.org/10.1007/s11214-020-00774-8), 2020.
182. Horgan, B.N., J.R. Johnson, A.A. Fraeman, M.R. Rice, T.H. Seeger, J.F. Bell III, K.A. Bennett, E.A. Cloutis, J. Frydenvang, J. L'Haridon, N. Mangold, L.A. Edgar, J.P. Grotzinger, S.R. Jacob, E.B. Rampe, F. Rivera-Hernandez, V.Z. Sun, L.M. Thompson, and D.F. Wellington, Diagenesis of Vera Rubin ridge, Gale crater, Mars from Mastcam multispectral images, *J. Geophys. Res.*, [doi:10.1029/2019JE006322](https://doi.org/10.1029/2019JE006322), 2020.
181. Fraeman, A.A., J.R. Johnson, R.E. Arvidson, M.S. Rice, D.F. Wellington, R.V. Morris, V.K. Fox, B.H. Horgan, S.R. Jacob, M.R. Salvatore, V.Z. Sun, P. Pinet, J.F. Bell III, R.C. Wiens, and A.R. Vasavada, Synergistic ground and orbital observations of iron oxides on Mt. Sharp and Vera Rubin ridge, *J. Geophys. Res.*, 125, [doi:10.1029/2019JE006294](https://doi.org/10.1029/2019JE006294), 2020.
180. Liang, W., J.R. Johnson, A.G. Hayes, M. Lemmon, J.F. Bell III, W.G. Grundy, and R.G. Deen, Spectrophotometry from Mars Hand Lens Imager goniometer measurements: Kimberley region, Gale crater, *Icarus*, 335, [doi:10.1016/j.icarus.2019.06.022](https://doi.org/10.1016/j.icarus.2019.06.022), 2020.
179. Hardgrove, C., R. Starr, I. Lazbin, A. Babuscia, B. Roebuck, J. DuBois, N. Struebel, A. Colaprete, D. Drake, E. Johnson, J. Christian, L. Heffern, S. Stem, S. Parlapiano, M. Wiens, A. Genova, D. Dunham, D. Nelson, B. Williams, J. Bauman, P. Hailey, T. O'Brien, K. Marwah, L. Vlieger, J.F. Bell III, T. Prettyman, T. Crain, E. Cisneros, N. Cluff, and G. Stoddard, The Lunar Polar Hydrogen Mapper CubeSat Mission, *IEEE Aerospace and Electronic Systems*, 35, [doi:10.1109/MAES.2019.2950747](https://doi.org/10.1109/MAES.2019.2950747), 2020.
178. Elkins-Tanton, L.T., E. Asphaug, J.F. Bell III, H. Bercovici, B. Bills, R. Binzel, W.F. Bottke, S. Dobb, D.J. Lawrence, S. Marchi, T.J. McCoy, R. Oran, R.S. Park, P.N. Peplowski, C.A. Polansky, T.H. Prettyman, C.T. Russell, L. Schaefer, B.P. Weiss, M.A. Wiczorek, D.A. Williams, and M.T. Zuber, Observations, meteorites, and models: A pre-flight assessment of the composition and formation of (16) Psyche, *J. Geophys. Res.*, 125, [doi:10.1029/2019JE006296](https://doi.org/10.1029/2019JE006296), 2020.
177. Herkenhoff, K.E., S.W. Squyres, R. Arvidson, S. Cole, R. Sullivan, A. Yingst, N. Cabrol, E.M. Lee*, J. Richie, B. Sucharski, J.F. Bell III, F. Calef, M. Chapman, L. Edgar, B. Franklin*, P. Geissler, J. Hurowitz, E. Jensen, J.R. Johnson, R. Kirk, P. Lanagan, C. Leff, J. Maki, K. Mullins*, B. Redding, M. Rice, M. Sims, L. Soderblom, N. Spanovich, R. Springer, A. Sunda, and A. Vaughan, Overview of *Spirit* Microscopic Imager Results, *J. Geophys. Res.*, [doi:10.1029/2018JE005774](https://doi.org/10.1029/2018JE005774), 2019.
176. Buz, J., B.L. Ehlmann, K. Kinch, J.R. Johnson, M.S. Rice, J. Maki, and J.F. Bell III, Photometric characterization of Lucideon and Avian Technologies color standards including application for calibration of the Mastcam-Z instrument on the Mars 2020 rover, *Opt. Eng.*, 58, [doi: 10.1117/1.OE.58.2.027108](https://doi.org/10.1117/1.OE.58.2.027108), 2019.
175. Lemmon, M.T., S.D. Guzewich, T. McConnochie, A. de Vicente-Retortillo, G. Martinez, M.D. Smith, J.F. Bell III, D. Wellington, and S. Jacob, Martian dust aerosol size variability seen during the 2018 global dust event by the Curiosity rover, *Geophys. Res. Lett.*, [doi:10.1029/2019GL084407](https://doi.org/10.1029/2019GL084407), 2019.
174. Mittlefehldt, D., R. Gellert, S. vanBommel, D.W. Ming, A.S. Yen, B.C. Clark, R.V. Morris, C. Schröder, L.S. Crumpler, J.A. Grant, B.L. Jolliff, R.E. Arvidson, W.H. Farrand, K.E. Herkenhoff, J.F. Bell III, B.A. Cohen, G. Klingelhöfer, C.M. Schrader, and J.W. Rice, Diverse Lithologies and Alteration Events on the Rim of Noachian-Aged Endeavour Crater, Meridiani Planum, Mars: In-Situ Compositional Evidence, *J. Geophys. Res.*, [doi:10.1002/2017JE005474](https://doi.org/10.1002/2017JE005474), 2018.
173. Hart, W., G.M. Brown, S.M. Collins, P. Fieseler, D. Goebel, D. Marsh, D.Y. Oh, S. Snyder, N. Warner, G. Whiffen, L. Elkins-Tanton, J.F. Bell III, D.J. Lawrence, and P. Lord, Overview of the Spacecraft Design for the Psyche Mission Concept, *IEEE Aerospace Conference, Big Sky, Montana, 3-10 March 2018*, [doi:10.1109/AERO.2018.8396444](https://doi.org/10.1109/AERO.2018.8396444), 2018.
172. Johnson, J.R., J.F. Bell III, S. Bender, E. Cloutis, B. Ehlmann, A. Fraeman, O. Gasnault, S. Maurice, P. Pinet, L. Thompson, D. Wellington, and R.C. Wiens, Bagnold Dunes campaign Phase 2: Visible/near-infrared reflectance spectroscopy of longitudinal ripple sands, *Geophys. Res. Lett.*, [doi:10.1029/2018GL079025](https://doi.org/10.1029/2018GL079025), 2018.
171. Fawdon, P., S. Gupta, J.M. Davis, N.H. Warner, J.B. Alder, M.R. Balme, J.F. Bell III, P.M. Grindrod, and E. Sefton-Nash, The Hypanis Valles Delta: The last highstand of a sea on early Mars? *Earth and Planetary Science Letters*, 500, 225-241, [doi:10.1016/j.epsl.2018.07.040](https://doi.org/10.1016/j.epsl.2018.07.040), 2018.
170. Rice, M.S., M. Reynolds, G. Studer-Ellis, J.F. Bell III, J.R. Johnson, K.E. Herkenhoff, and D. Wellington, The albedo of Mars: Six Mars years of observations from Pancam on the Mars Exploration Rovers and comparisons to MOC, CTX and HiRISE, *Icarus*, [doi:10.1016/j.icarus.2018.05.017](https://doi.org/10.1016/j.icarus.2018.05.017), 2018.
169. Cloutis, E.A., V.B. Pietrasz, C. Kiddell, M.R.M. Izawa, P. Vernazza, T. Burbine, F. DeMeo, K.T. Tait, J.F. Bell III, P. Mann, D.M. Applin, and V. Reddy, Spectral reflectance “deconstruction” of the Murchison CM2 carbonaceous chondrite and implications for spectroscopic investigations of dark asteroids, *Icarus*, 305, 203-224, [doi:10.1016/j.icarus.2018.01.015](https://doi.org/10.1016/j.icarus.2018.01.015), 2018.

168. Banham, S.G., S. Gupta, D.M. Rubin, J.A. Watkins, D.Y. Sumner, K.S. Edgett, J.P. Grotzinger, K.W. Lewis, L.A. Edgar, K.M. Stack-Morgan, R. Barnes, [J.F. Bell III](#), M.D. Day, R.C. Ewing, M.G.A. Lapotre, N.T. Stein, F. Rivera-Hernandez, and A.R. Vasavada, Ancient Martian aeolian processes and palaeomorphology reconstructed from the Stimson formation on the lower slope of Aeolis Mons, Gale crater, Mars, *Sedimentology*, 65, 993-1042, [doi:10.1111/sed.12469](#), 2018.
167. McConnochie, T.H., M. D. Smith, M.J. Wolff, S. Bender, M. Lemmon, R.C. Wiens, S. Maurice, O. Gasnault, J. Lasue, P.-Y. Meslin, A.-M. Harri, M. Genzer, O. Kempainen, G.M. Martínez, L. DeFlores, D. Blaney, J.R. Johnson, and [J.F. Bell III](#), Retrieval of Water Vapor Column Abundance and Aerosol Properties from ChemCam Passive Sky Spectroscopy, *Icarus*, 307, 294-306, [doi:10.1016/j.icarus.2017.10.043](#), 2018.
166. Johnson, J.R., C. Achilles, [J.F. Bell III](#), S. Bender, E. Cloutis, B. Ehlmann, A. Fraeman, O. Gasnault, V.E. Hamilton, S. Le Mouélic, S. Maurice, P. Pinet, L. Thompson, D. Wellington, and R.C. Wiens, Visible/near-infrared spectral diversity from in situ observations of the Bagnold Dune Field sands in Gale Crater, Mars, *J. Geophys. Res. Planets*, 122, [doi:10.1002/2016JE005187](#), 2017.
165. Kwan, C., B. Chou; L.-Y.M. Kwan, [J.F. Bell III](#), and H. Kerner, Demosaicing enhancement using pixel-level fusion, *Signal, Image and Video Processing*, [doi:10.1007/s11760-017-1216-2](#), 2017.
164. Ayhan, B. M. Dao, C. Kwan, H. Chen, [J.F. Bell III](#), and R. Kidd, "A Novel Utilization of Image Registration Techniques to Process Mastcam Images in Mars Rover with Applications to Image Fusion, Pixel Clustering, and Anomaly Detection," *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, 10, [doi:10.1109/JSTARS.2017.2716923](#), October, 2017.
163. Malin, M.C., M.A. Ravine, M.A. Caplinger, F.T. Ghaemi, J.A. Schaffner, J.N. Maki, [J.F. Bell III](#), J.F. Cameron, W.E. Dietrich, K.S. Edgett, L.J. Edwards, J.B. Garvin, B. Hallet, K.E. Herkenhoff, E. Heydari, L.C. Kah, M.T. Lemmon, M.E. Minitti, T.S. Olson, T.J. Parker, S.K. Rowland, J. Schieber, R. Sletten, R.J. Sullivan, D.Y. Sumner, R.A. Yingst, B.M. Duston, S. McNair, and E.H. Jensen, The Mars Science Laboratory (MSL) Mast Cameras and Descent Imager: I. Investigation and instrument descriptions, *Earth & Space Science*, 4, [doi:10.1002/2016EA000252](#), 2017.
162. Edgar, L.A., S. Gupta, D.M. Rubin, K.W. Lewis, G.A. Kocurek, R.B. Anderson, [J.F. Bell III](#), G. Dromart, K.S. Edgett, J.P. Grotzinger, C. Hardgrove, L.C. Kah, R. Leveille, M.C. Malin, N. Mangold, R.E. Milliken, M. Minitti, M. Palucis, M. Rice, S.K. Rowland, J. Schieber, K.M. Stack, D.Y. Sumner, R.C. Wiens, R.M.E. Williams, and A.J. Williams, Shaler: *In Situ* Analysis of a Fluvial Sedimentary Deposit on Mars, *Sedimentology*, [doi:10.1111/sed.12370](#), 2017.
161. Lanza, N.L. *et al.*, Oxidation of manganese in an ancient aquifer, Kimberley formation, Gale crater, Mars, *Geophysical Research Letters*, 43, 7398-7407, [doi:10.1002/2016GL069109](#), 2016.
160. Farrand, W.H., J.R. Johnson, M.S. Rice, A. Wang, and [J.F. Bell III](#), VNIR Multispectral Observations of Aqueous Alteration Materials by the Pancams on the Spirit and Opportunity Mars Exploration Rovers, *American Mineralogist*, 101, 2005-2019, [doi:10.2138/am-2016-5627](#), 2016.
159. Arvidson, R.E., S.W. Squyres, R.V. Morris, A.H. Knoll, R. Gellert, B.C. Clark, J.G. Catalano, B.L. Jolliff, S.M. McLennan, K.E. Herkenhoff, S. VanBommel, D.W. Mittlefehldt, J.P. Grotzinger, E.A. Guinness, J.R. Johnson, [J.F. Bell III](#), W.H. Farrand, N. Stein, V.K. Fox, M.P. Golombek, M.A.G. Hinkle, W.M. Calvin, and P.A. de Souza, High concentrations of manganese and sulfur in deposits on Murray Ridge, Endeavour Crater, Mars, *Amer. Min.*, 101, 1389-1405, [doi:10.2138/am-2016-5599](#), 2016.
158. Johnson, J.R., [J.F. Bell III](#), S. Bender, D. Blaney, E. Cloutis, B. Ehlmann, A. Fraeman, O. Gasnault, K. Kinch, S. Le Mouélic, S. Maurice, E. Rampe, D. Vaniman, R.C. Wiens, Constraints on iron sulfate and iron oxide mineralogy from ChemCam visible/near-infrared reflectance spectroscopy of Mt. Sharp basal units, Gale Crater, Mars, *Amer. Mineralogist*, 101, 1501-1514, [doi:10.2138/am-2016-5553](#), 2016.
157. Johnson, J.R., W.M. Grundy, M.T. Lemmon, [J.F. Bell III](#), and R.G. Deen, Spectrophotometric properties of materials observed by Pancam on the Mars Exploration Rovers: 3. Sols 500-1525, *Icarus*, 248, 25-71, [doi:10.1016/j.icarus.2014.10.026](#), 2015.
156. Johnson, J.R., [J.F. Bell III](#), S. Bender, D. Blaney, E. Cloutis, L. DeFlores, B. Ehlmann, O. Gasnault, B. Gondet, K. Kinch, M. Lemmon, S. Le Mouélic, S. Maurice, M. Rice, R.C. Wiens, and the MSL Science Team, ChemCam passive reflectance spectroscopy of surface materials at the Curiosity landing site, Mars, *Icarus*, 249, 74-92, [doi:10.1016/j.icarus.2014.02.028](#), 2015.
155. Lemmon, M.T., M.J. Wolff, [J.F. Bell III](#), M.D. Smith, B.A. Cantor, and P.H. Smith, Dust aerosol, clouds, and the atmospheric optical depth record over 5 Mars years of the Mars Exploration Rover mission, *Icarus*, 251, 96-111, [doi:10.1016/j.icarus.2014.03.029](#), 2015.
154. Chojnacki, M., J.R. Johnson, J.E. Moersch, L.K. Fenton, T.I. Michaels, and [J.F. Bell III](#), Persistent aeolian activity at Endeavour crater, Meridiani Planum, Mars; new observations from orbit and the surface, *Icarus*, 251, 275-290, [doi:10.1016/j.icarus.2014.04.044](#), 2015.
153. Kinch, K.M., [J.F. Bell III](#), W. Goetz, J.R. Johnson, J. Joseph, M.B. Madsen, and J. Sohl-Dickstein, Dust deposition on the decks of the Mars Exploration Rovers: 10 years of dust dynamics on the Panoramic Camera

- calibration targets, *Earth & Space Sci.*, [doi:10.1002/2014EA000073](https://doi.org/10.1002/2014EA000073), 2015.
152. Qadi, A., E. Cloutis, C. Samson, L. Whyte, A. Ellery, [J.F. Bell III](#), G. Berard, A. Boivin, E. Haddad, J. Lavoie, W. Jamroz, R. Kruzelecky, A. Mack, P. Mann, K. Olsen, M. Perrot, D. Popa, T. Rhind, R. Sharma, J. Stromberg, K. Strong, A. Tremblay, R. Wilhelm, B. Wing, and B. Wong, Mars methane analogue mission: Mission simulation and rover operations at Jeffrey Mine and Norbestos Mine Quebec, Canada, *Adv. Space Res.*, 55, 2414–2426, dx.doi.org/10.1016/j.asr.2014.12.008, 2015.
 151. Farrand, W.H., [J.F. Bell III](#), J.R. Johnson, M.S. Rice, B.L. Joliff, and R.E. Arvidson, Observations of rock spectral classes by the Opportunity rover's Pancam on northern Cape York and on Matijevic Hill, Endeavour Crater, Mars, *J. Geophys. Res. Planets*, 119, 2349–2369, [doi:10.1002/2014JE004641](https://doi.org/10.1002/2014JE004641), 2014.
 150. Lin, Y., M. Bunte, S. Saripalli, [J.F. Bell III](#), and R. Greeley, Autonomous Volcanic Plume Detection on Planetary Bodies, *Acta Astronautica*, 97, 151–163, dx.doi.org/10.1016/j.actaastro.2013.11.029, 2014.
 149. Arvidson, R.E., S. W. Squyres, [J.F. Bell III](#), J. G. Catalano, B. C. Clark, L. S. Crumpler, P. A. de Souza Jr., A. G. Fairén, W. H. Farrand, V. K. Fox, R. Gellert, A. Ghosh, M. P. Golombek, J. P. Grotzinger, E. A. Guinness, K. E. Herkenhoff, B. L. Jolliff, A. H. Knoll, R. Li, S. M. McLennan, D. W. Ming, D. W. Mittlefehldt, J. M. Moore, R. V. Morris, S. L. Murchie, T. J. Parker, G. Paulsen, J. W. Rice, S. W. Ruff, M. D. Smith, and M. J. Wolff, Ancient Aqueous Environments at Endeavour Crater, Mars, *Science*, 343, [doi:10.1126/science.1248097](https://doi.org/10.1126/science.1248097), 2014.
 148. Ming, D.W., P. D. Archer Jr., D. P. Glavin, J. L. Eigenbrode, H. B. Franz, B. Sutter, A. E. Brunner, J. C. Stern, C. Freissinet, A. C. McAdam, P. R. Mahaffy, M. Cabane, P. Coll, J. L. Campbell, S. K. Atreya, P. B. Niles, J. F. Bell III, D. L. Bish, W. B. Brinckerhoff, A. Buch, P. G. Conrad, D. J. Des Marais, B. L. Ehlmann, A. G. Fairén, K. Farley, G. J. Flesch, P. Francois, R. Gellert, J. A. Grant, J. P. Grotzinger, S. Gupta, K. E. Herkenhoff, J. A. Hurowitz, L. A. Leshin, K. W. Lewis, S. M. McLennan, K. E. Miller, J. Moersch, R. V. Morris, R. Navarro-González, A. A. Pavlov, G. M. Perrett, I. Pradler, S. W. Squyres, R. E. Summons, A. Steele, E. M. Stolper, D. Y. Sumner, C. Szopa, S. Teinturier, M. G. Trainer, A. H. Treiman, D. T. Vaniman, A. R. Vasavada, C. R. Webster, J. J. Wray, R. A. Yingst, and MSL Science Team, Volatile and Organic Compositions of Sedimentary Rocks in Yellowknife Bay, Gale Crater, Mars, *Science*, 343 [\[DOI:10.1126/science.1245267\]](https://doi.org/10.1126/science.1245267), 2014.
 147. McLennan, S.M., R. B. Anderson, J. F. Bell III, J. C. Bridges, F. Calef III, J. L. Campbell, B. C. Clark, S. Clegg, P. Conrad, A. Cousin, D. J. Des Marais, G. Dromart, M. D. Dyar, L. A. Edgar, B. L. Ehlmann, C. Fabre, O. Forni, O. Gasnault, R. Gellert, S. Gordon, J. A. Grant, J. P. Grotzinger, S. Gupta, K. E. Herkenhoff, J. A. Hurowitz, P. L. King, S. Le Mouélic, L. A. Leshin, R. Léveillé, K. W. Lewis, N. Mangold, S. Maurice, D. W. Ming, R. V. Morris, M. Nachon, H. E. Newsom, A. M. Ollila, G. M. Perrett, M. S. Rice, M. E. Schmidt, S. P. Schwenzer, K. Stack, E. M. Stolper, D. Y. Sumner, A. H. Treiman, S. VanBommel, D. T. Vaniman, A. Vasavada, R. C. Wiens, R. A. Yingst, and MSL Science Team, Elemental Geochemistry of Sedimentary Rocks at Yellowknife Bay, Gale Crater, Mars, *Science*, 343 [\[DOI:10.1126/science.1244734\]](https://doi.org/10.1126/science.1244734), 2014.
 146. Grotzinger, J.P., D. Y. Sumner, L. C. Kah, K. Stack, S. Gupta, L. Edgar, D. Rubin, K. Lewis, J. Schieber, N. Mangold, R. Milliken, P. G. Conrad, D. DesMarais, J. Farmer, K. Siebach, F. Calef III, J. Hurowitz, S. M. McLennan, D. Ming, D. Vaniman, J. Crisp, A. Vasavada, K. S. Edgett, M. Malin, D. Blake, R. Gellert, P. Mahaffy, R. C. Wiens, S. Maurice, J. A. Grant, S. Wilson, R. C. Anderson, L. Beegle, R. Arvidson, B. Hallet, R. S. Sletten, M. Rice, J. Bell III, J. Griffes, B. Ehlmann, R. B. Anderson, T. F. Bristow, W. E. Dietrich, G. Dromart, J. Eigenbrode, A. Fraeman, C. Hardgrove, K. Herkenhoff, L. Jandura, G. Kocurek, S. Lee, L. A. Leshin, R. Leveille, D. Limonadi, J. Maki, S. McCloskey, M. Meyer, M. Miniti, H. Newsom, D. Oehler, A. Okon, M. Palucis, T. Parker, S. Rowland, M. Schmidt, S. Squyres, A. Steele, E. Stolper, R. Summons, A. Treiman, R. Williams, A. Yingst, and MSL Science Team, A Habitable Fluvio-Lacustrine Environment at Yellowknife Bay, Gale Crater, Mars, *Science*, 343 [\[DOI:10.1126/science.1242777\]](https://doi.org/10.1126/science.1242777), 2014.
 145. Vaniman, D.T., D. L. Bish, D. W. Ming, T. F. Bristow, R. V. Morris, D. F. Blake, S. J. Chipera, S. M. Morrison, A. H. Treiman, E. B. Rampe, M. Rice, C. N. Achilles, J. Grotzinger, S. M. McLennan, J. Williams, J. Bell III, H. Newsom, R. T. Downs, S. Maurice, P. Sarrazin, A. S. Yen, J. M. Morookian, J. D. Farmer, K. Stack, R. E. Milliken, B. Ehlmann, D. Y. Sumner, G. Berger, J. A. Crisp, J. A. Hurowitz, R. Anderson, D. DesMarais, E. M. Stolper, K. S. Edgett, S. Gupta, N. Spanovich, and MSL Science Team, Mineralogy of a Mudstone at Yellowknife Bay, Gale Crater, Mars, *Science*, 343 [\[DOI:10.1126/science.1243480\]](https://doi.org/10.1126/science.1243480), 2014.
 144. Berard, G., D. Applin, E.A. Cloutis, J. Stromberg, R. Sharma, P. Mann, S. Grasby, R. Bezys, B. Horgan, K. Londry, M. Rice, B. Last, F. Last, P. Badiou, G. Goldsborough, and [J.F. Bell III](#), A hypersaline spring analogue in Manitoba, Canada for potential ancient spring deposits on Mars, *Icarus*, 224, 399–412, [doi:10.1016/j.icarus.2012.12.024](https://doi.org/10.1016/j.icarus.2012.12.024), 2013.
 143. Williams, R.M.E., J. P. Grotzinger, W. E. Dietrich, S. Gupta, D. Y. Sumner, R. C. Wiens, N. Mangold, M. C. Malin, K. S. Edgett, S. Maurice, O. Forni, O. Gasnault, A. Ollila, H. E. Newsom, G. Dromart, M. C. Palucis, R. A. Yingst, R. B. Anderson, K. E. Herkenhoff, S. Le Mouélic, W. Goetz, M. B. Madsen, A. Koefoed, J. K. Jensen, J. C. Bridges, S. P. Schwenzer, K. W. Lewis, K. M. Stack, D. Rubin, L. C. Kah, [J.F. Bell III](#), J. D.

- Farmer, R. Sullivan, T. Van Beek, D. L. Blaney, O. Pariser, R. G. Deen, and the MSL Science Team, Martian fluvial conglomerates at Gale crater, *Science*, 340, 1068-1072, doi:10.1126/science.1237317, 2013.
142. Cloutis, E.A., M.R.M. Izawa, L. Pompilio, V. Reddy, H. Hiesinger, A. Nathues, P. Mann, L. Le Corre, E. Palomba, and J.F. Bell III, Spectral reflectance properties of HED meteorites + CM2 carbonaceous chondrites: Comparison to HED grain size and compositional variations and implications for the nature of low-albedo features on asteroid 4 Vesta, *Icarus*, 223, 850-877, doi:10.1016/j.icarus.2013.02.003, 2013.
141. Edgett, K.S., R.A. Yingst, M.A. Ravine, M.A. Caplinger, J.N. Maki, F.T. Ghaemi, J.A. Schaffner, J.F. Bell III, L.J. Edwards, K.E. Herkenhoff, E. Heydari, L.C. Kah, M.T. Lemmon, M.E. Minitti, T.S. Olson, T.J. Parker, S.K. Rowland, J. Schieber, R.J. Sullivan, D.Y. Sumner, P.C. Thomas, E.H. Jensen, J.J. Simmonds, A.J. Sengstacken, R.G. Willson, and W. Goetz, Curiosity's Mars Hand Lens Imager (MAHLI) Investigation, *Space Science Reviews*, 170, 259-317, doi:10.1007/s11214-012-9910-4, 2012.
140. Cloutis, E.A., P. Hudson, T. Hiroi, M.J. Gaffey, P. Mann, and J.F. Bell III, Spectral reflectance properties of carbonaceous chondrites: 6. CV chondrites, *Icarus*, 221, 328-358, doi:10.1016/j.icarus.2012.07.007, 2012.
139. Squyres, S.W., R. E. Arvidson, J. F. Bell III, F. Calef III, B. C. Clark, B. A. Cohen, L. A. Crumpler, P. A. de Souza Jr., W. H. Farrand, R. Gellert, J. Grant, K. E. Herkenhoff, J. A. Hurowitz, J. R. Johnson, B. L. Jolliff, A. H. Knoll, R. Li, S. M. McLennan, D. W. Ming, D. W. Mittlefehldt, T. J. Parker, G. Paulsen, M. S. Rice, S. W. Ruff, C. Schröder, A. S. Yen, and K. Zacny, Ancient Impact and Aqueous Processes at Endeavour Crater, Mars, *Science*, 336, 570-576, doi:10.1126/science.1220476, 2012.
138. Crumpler, L.S., R. E. Arvidson, S. W. Squyres, T. McCoy, A. Yingst, S. Ruff, W. Farrand, Y. McSween, M. Powell, D. W. Ming, R. V. Morris, J.F. Bell III, J. Grant, R. Greeley, D. DesMarais, M. Schmidt, N. A. Cabrol, A. Haldemann, K.W. Lewis, A. E. Wang, C. Schröder, D. Blaney, B. Cohen, A. Yen, J. Farmer, R. Gellert, E. A. Guinness, K. E. Herkenhoff, J. R. Johnson, G. Klingelhöfer, A. McEwen, J. W. Rice Jr., M. Rice, P. deSouza, and J. Hurowitz, Field reconnaissance geologic mapping of the Columbia Hills, Mars, based on Mars Exploration Rover Spirit and MRO HiRISE observations, *JGR Planets*, 116, doi:10.1029/2010JE003749, 2011.
137. Ruff, S. W., Farmer, J.D., Calvin, W.M., Herkenhoff, K.E., Johnson, J.R., Morris, R.V., Rice, M.S., Arvidson, R.E., Bell III, J.F., Christensen, P.R., and Squyres, S.W., Characteristics, distribution, origin, and significance of opaline silica observed by the Spirit rover in Gusev crater, Mars, *J. Geophys. Res.*, 116, E00F23, doi:10.1029/2010JE003767, 2011.
136. Arvidson, R.E., Ashley, J.W., Bell III, J.F., Chojnacki, M., Cohen, J., Economou, T.E., Farrand, W.H., Ferguson, R., Fleischer, I., Geissler, P., Gellert, R., Golombek, M.P., Grotzinger, J.P., Guinness, E.A., Haberle, R.M., Herkenhoff, K.E., Herman, J.A., Iagnemma, K.D., Jolliff, B.L., Johnson, J.R., Klingelhöfer, G., Knoll, A.H., Knudson, A.T., Li, R., McLennan, S.M., Mittlefehldt, D.W., Morris, R.V., Parker, T.J., Rice, M.S., Schröder, C., Soderblom, L.A., Squyres, S.W., Sullivan, R.J., and Wolff, M.J., Opportunity Mars Rover mission: Overview and selected results from Purgatory ripple to traverses to Endeavour crater, *J. Geophys. Res.*, 116, E00F15, doi:10.1029/2010JE003746, 2011.
135. Wiens, R.C. *et al.*, The ChemCam Instrument Suite on the Mars Science Laboratory (MSL) Rover: Body Unit and Combined System Performance, *Space Sci. Rev.*, doi:10.1007/s11214-012-9902-4, 2012.
134. Arvidson, R.E., J.F. Bell III, P. Bellutta, N. A. Cabrol, J. G. Catalano, J. Cohen, L. S. Crumpler, D. J. Des Marais, T. A. Estlin, W. H. Farrand, R. Gellert, J. A. Grant, R. N. Greenberger, E. A. Guinness, K. E. Herkenhoff, J. A. Herman, K. D. Iagnemma, J. R. Johnson, G. Klingelhöfer, R. Li, K. A. Lichtenberg, S. A. Maxwell, D. W. Ming, R. V. Morris, M. S. Rice, S. W. Ruff, A. Shaw, K. L. Siebach, P. A. de Souza, A. W. Stroupe, S. W. Squyres, R. J. Sullivan, K. P. Talley, J. A. Townsend, A. Wang, J. R. Wright, and A. S. Yen, Spirit Mars Rover Mission: Overview and selected results from the northern Home Plate Winter Haven to the side of Scamander crater, *J. Geophys. Res.*, E00F03, doi:10.1029/2010JE003633, 2010.
133. Zipfel, J., C. Schröder, B.L. Jolliff, R. Gellert, R. Rieder, R. Anderson, J.F. Bell III, J. Brückner, J.A. Crisp, P.R. Christensen, B.C. Clark, P.A. de Souza Jr., G. Dreibus, C. d'Uston, T. Economou, S.P. Gorevan, B.C. Hahn, K.E. Herkenhoff, G. Klingelhöfer, T.J. McCoy, H.Y. McSween Jr., D.W. Ming, R.V. Morris, D.S. Rodionov, S.W. Squyres, H. Wänke, S.P. Wright, M.B. Wyatt, and A.S. Yen, Bounce Rock: A Shergottite-Like Basalt Encountered at Meridiani Planum, Mars, *Meteoritics and Planetary Science*, 46, 1-20, doi:10.1111/j.1945-5100.2010.01127.x, 2011.
132. Watters, T.R., M.S. Robinson, R.A. Beyer, M.E. Banks, J.F. Bell III, M.E. Pritchard, H. Hiesinger, C. van der Bogert, P.C. Thomas, E.P. Turtle, and N.R. Williams, Recent thrust faulting on the Moon revealed by the Lunar Reconnaissance Orbiter Camera, *Science*, 329, 936-940, doi:10.1126/science.1189590, 2010.
131. Farmer, J., J.F. Bell III, K.C. Benison, W.V. Boynton, S.L. Cady, F.G. Ferris, D. Macpherson, M.S. Race, M.H. Thiemens, and M. Wadhwa, Assessment of Planetary Protection Requirements for Mars Sample Return Missions, Committee on the Review of Planetary Protection Requirements for Mars Sample Return Missions; National Research Council, National Academy of Sciences, Washington DC; http://molokai.sese.asu.edu/~jimbo/indexed/publications/other_co_author/0131_Farmer_J_Assessment_of

- [planetary protection Requirements for mars Sample 2009.pdf](#)], 2009.
130. Parente, M., J.L. Bishop, and [J.F. Bell III](#), Spectral unmixing for mineral identification in Pancam images of soils in Gusev crater, Mars, *Icarus*, 203, 421-436, [doi:10.1016/j.icarus.2009.04.029](#), 2009.
 129. Metz, J.M, J.P. Grotzinger, D.M. Rubin, K.W. Lewis, S.W. Squyres, and [J.F. Bell III](#), [Sulfate-Rich Eolian and Wet Interdune Deposits, Erebus Crater, Meridiani Planum, Mars](#), *J. Sed. Res.*, 79, 247-264, 2009.
 128. Squyres, S.W., A.H. Knoll, R.E. Arvidson, J.W. Ashley, [J.F. Bell III](#), W.M. Calvin, P.R. Christensen, B.C. Clark, B.A. Cohen, P.A. de Souza Jr., L. Edgar, W.H. Farrand, I. Fleischer, R. Gellert, M.P. Golombek, J. Grant, J. Grotzinger, A. Hayes, K.E. Herkenhoff, J.R. Johnson, B. Jolliff, G. Klingelhöfer, A. Knudson, R. Li, T.J. McCoy, S.M. McLennan, D.W. Ming, D.W. Mittlefehldt, R.V. Morris, J.W. Rice Jr., C. Schröder, R.J. Sullivan, A. Yen, R.A. Yingst, Exploration of Victoria Crater by the rover Opportunity, *Science*, 324, 1058-1061, [doi:10.1126/science.1170355](#), 2009.
 127. Arvidson, R. E., S. W. Ruff, R. V. Morris, D. W. Ming, L. S. Crumpler, A. S. Yen, S. W. Squyres, R. J. Sullivan, [J.F. Bell III](#), N. A. Cabrol, B. C. Clark, W. H. Farrand, R. Gellert, R. Greenberger, J. A. Grant, E. A. Guinness, K. E. Herkenhoff, J. A. Hurowitz, J. R. Johnson, G. Klingelhöfer, K. W. Lewis, R. Li, T. J. McCoy, J. Moersch, H. Y. McSween, S. L. Murchie, M. Schmidt, C. Schröder, A. Wang, S. Wiseman, M. B. Madsen, W. Goetz, S. M. McLennan, Spirit Mars Rover Mission to the Columbia Hills, Gusev Crater: Mission overview and selected results from the Cumberland Ridge to Home Plate, *J. Geophys. Res.*, 113, E12S33, [doi:10.1029/2008JE003183](#), 2008.
 126. Farrand, W. H., [J.F. Bell, III](#), J. R. Johnson, R. E. Arvidson, L. S. Crumpler, J. A. Hurowitz, and C. Schröder, Rock spectral classes observed by the Spirit Rover's Pancam on the Gusev Crater Plains and in the Columbia Hills, *J. Geophys. Res.*, 113, E12S38, [doi:10.1029/2008JE003237](#), 2008.
 125. Farrand, W. H., E. Merenyi, J. R. Johnson and [J.F. Bell III](#), Comprehensive mapping of spectral classes in the imager for Mars Pathfinder Super Pan, *Mars*, 4, 33, [DOI: 10.1555/mars.2008.0004](#), 2008.
 124. Herkenhoff, K. E., J. P. Grotzinger, A. H. Knoll, S. M. McLennan, C. M. Weitz, R. A. Yingst, R. C. Anderson, B. Archinal, R. E. Arvidson, J. Barrett, K. J. Becker, [J.F. Bell III](#), C. Budney, M. G. Chapman, D. A. Cook, B. L. Ehlmann, B. J. Franklin, L. R. Gaddis, D. Galuszka, P. Garcia, P. E. Geissler, T. M. Hare, E. Howington-Kraus, J. R. Johnson, L. Keszthelyi, R. L. Kirk, P. D. Lanagan, E. M. Lee, C. Leff, J. Maki, K. F. Mullins, T. Parker, B. Redding, M. Rosiek, M. H. Sims, L. A. Soderblom, N. Spanovich, R. Springer, S. W. Squyres, D. Stolper, R. Sucharski, T. Sucharski, R. J. Sullivan, and J. Torson (2008), Surface processes recorded by rocks and soils on Meridiani Planum, Mars: Microscopic Imager observations during Opportunity's first three extended missions, *J. Geophys. Res.*, 113, CiteID E12S32, [doi:10.1029/2008JE003100](#), 2008.
 123. Squyres, S.W., R.E. Arvidson, S. Ruff, R. Gellert, R.V. Morris, D.W. Ming, L. Crumpler, J.D. Farmer, D.J. Des Marais, A. Yen, S.M. McLennan, W. Calvin, [J.F. Bell, III](#), B.C. Clark, A. Wang, T.J. McCoy, M.E. Schmidt, and P.A. de Souza, Jr., Detection of Silica-Rich Deposits on Mars, *Science*, 320, 1063-1067, [doi:10.1126/science.1155429](#), 2008.
 122. Sullivan, R., R. Arvidson, [J.F. Bell III](#), M. Golombek, R. Greeley, K. Herkenhoff, J. Johnson, S. Squyres, S. Thompson, P. Whelley, and J. Wray, Wind-Driven Particle Mobility on Mars: Insights from MER Observations At "El Dorado" and Surroundings at Gusev Crater, *J. Geophys. Res.*, 113, CiteID E06S07, [doi:10.1029/2008JE003101](#), 2008.
 121. Cloutis, E.A., K.A. McCormack, [J.F. Bell III](#), A.R. Hendrix, D.T. Bailey, M.A. Craig, S.A. Mertzman, M.S. Robinson, and M.A. Riner, Ultraviolet spectral reflectance properties of common planetary minerals, *Icarus*, 197, 321-347, [doi:10.1016/j.icarus.2008.04.018](#), 2008.
 120. Calvin, W.M., J.D. Shoffner, J.R. Johnson, A.H. Knoll, J.M. Pockock, S.W. Squyres, C.M. Weitz, R.E. Arvidson, [J.F. Bell III](#), P.R. Christensen, P.A. de Souza, Jr., W.H. Farrand, T.D. Glotch, K.E. Herkenhoff, B.L. Jolliff, A.T. Knudson, S.M. McLennan, A.D. Rogers, and S.D. Thompson, Hematite Spherules at Meridiani: Results from MI, Mini- TES and Pancam, *J. Geophys. Res.*, 113, E12S37, [doi:10.1029/2007JE003048](#), 2008.
 119. Lewis, K. W., O. Aharonson, J. P. Grotzinger, S. W. Squyres, [J.F. Bell, III](#), L. S. Crumpler, and M. E. Schmidt, Structure and stratigraphy of Home Plate from the Spirit Mars Exploration Rover, *J. Geophys. Res.*, 113, E12S36, [doi:10.1029/2007JE003025](#), 2008.
 118. Wang, A., [J.F. Bell III](#), R. Li, J.R. Johnson, W. Farrand, R.E. Arvidson, L. Crumpler, S.W. Squyres, K.E. Herkenhoff, A. Knudson, W. Chen, and the MER/Athena Science Team, Light-toned salty soils and co-existing silica-rich species discovered by the Mars Exploration Rover Spirit in Columbia Hills, *J. Geophys. Res.*, 113, E12S40, [doi:10.1029/2008JE003126](#), 2008.
 117. Soderblom, L.A. and [J.F. Bell III](#), "Exploration of the Martian Surface: 1992-2007," Chapter 1 in [The Martian Surface: Composition, Mineralogy, and Physical Properties](#) (J.F. Bell III, ed.), Cambridge Univ. Press, Cambridge, pp. 3-19, 2008.
 116. Calvin, W.M. and [J.F. Bell III](#), "Historical Context: The Pre-MGS View of Mars' Surface Composition," Chapter 2 in [The Martian Surface: Composition, Mineralogy, and Physical Properties](#) (J.F. Bell III, ed.), Cambridge University Press, pp. 20-34, 2008.
 115. Farrand, W.H., [J.F. Bell III](#), J.R. Johnson, J.L. Bishop, and R.V. Morris, Multispectral imaging from Mars Pathfinder," Chapter 12 in [The Martian Surface: Composition, Mineralogy, and Physical Properties](#) (J.F.

- Bell III, ed.), Cambridge University Press, pp. 265-280, 2008.
114. Golombek, M.P., A.F.C. Haldemann, R.A. Simpson, R.L. Fergason, N.E. Putzig, R.E. Arvidson, J.F. Bell III, and M.T. Mellon, "Martian Surface Properties from Joint Analysis of Orbital, Earth-Based, and Surface Observations," Chapter 21 in *The Martian Surface: Composition, Mineralogy, and Physical Properties* (J.F. Bell III, ed.), Cambridge Univ. Press, Cambridge, pp. 468-500, 2008.
 113. Johnson, J.R., J.F. Bell III, P. Geissler, W.M. Grundy, E.A. Guinness, P.C. Pinet, and J. Soderblom, Physical properties of the martian surface from spectrophotometric observations, Chapter 19 in *The Martian Surface: Composition, Mineralogy, and Physical Properties* (J.F. Bell III, ed.), Cambridge University Press, pp. 428-450, 2008.
 112. Malin, M.C., W.M. Calvin, B.A. Cantor, R.T. Clancy, R.M. Haberle, P.B. James, P.C. Thomas, M.J. Wolff, J.F. Bell III, and S.W. Lee, Climate, Weather, and North Polar Observations from the Mars Reconnaissance Orbiter Mars Color Imager, *Icarus*, 194, 501-512, [doi:10.1016/j.icarus.2007.10.016](https://doi.org/10.1016/j.icarus.2007.10.016), 2008.
 111. Knoll, A., B.L. Jolliff, W.H. Farrand, J.F. Bell III, B.C. Clark, R. Gellert, M.P. Golombek, J.P. Grotzinger, K.E. Herkenhoff, J.R. Johnson, S.M. McLennan, R.V. Morris, S.W. Squyres, R. Sullivan, N.J. Tosca, A. Yen, and Z. Learner, Veneers, rinds, and fracture fills: Relatively late alteration of sedimentary rocks at Meridiani Planum, Mars, *J. Geophys. Res.*, 113, [doi:10.1029/2007JE002949](https://doi.org/10.1029/2007JE002949), 2008.
 110. Shepard, M.K., B.E. Clark, M.C. Nolan, L.A. Benner, S.J. Ostro, J.D. Giorgini, F. Vilas, K. Jarvis, S. Lederer, L.F. Lim, T. McConnochie, J.F. Bell III, J.-L. Margot, A. Rivkin, C. Magri, D. Scheeres, and P. Pravec, Multi-wavelength observations of Asteroid 2100 Ra-Shalom, *Icarus*, 193, 20-38, [doi:10.1016/j.icarus.2007.09.006](https://doi.org/10.1016/j.icarus.2007.09.006), 2008.
 109. Goetz, W., K. Leer, H.P. Gunnlaugsson, P. Bartlett, B. Basso, J.F. Bell III, P. Bertelsen, C.S. Binau, P.C. Chu, S. Gorevan, M.F. Hansen, S.F. Hviid, K.M. Kinch, G. Klingelhöfer, A. Kusack, M.B. Madsen, D.W. Ming, R.V. Morris, E. Mumm, T. Myrick, M. Olsen, S.W. Squyres, J. Wilson, and A. Yen, The Search for Magnetic Minerals in Martian Rocks: Overview of the RAT Magnet Investigation on Spirit and Opportunity, *J. Geophys. Res.*, 113, CiteID E05S90, [doi:10.1029/2006JE002819](https://doi.org/10.1029/2006JE002819), 2008.
 108. Inada, A., M. I. Richardson, T. H. McConnochie, M. J. Strausberg, H. Wang, and J. F. Bell, III, High-Resolution Atmospheric Observations by the Mars Odyssey Thermal Emission Imaging System, *Icarus*, 192, 378-395, [doi:10.1016/j.icarus.2007.07.020](https://doi.org/10.1016/j.icarus.2007.07.020), 2007.
 107. Lichtenberg, K.A., R.E. Arvidson, F. Poulet, R.V. Morris, A. Knudson, J.F. Bell III, G. Bellucci, J.-P. Bibring, W.H. Farrand, J.R. Johnson, D.W. Ming, P.C. Pinet, A.D. Rogers, and S.W. Squyres, Coordinated Analyses of Orbital and Spirit Rover Data to Characterize Surface Materials on the Cratered Plains of Gusev Crater, Mars, *J. Geophys. Res.*, 112, E12S90, [doi:10.1029/2006JE002850](https://doi.org/10.1029/2006JE002850), 2007.
 106. Johnson, J.R., J.F. Bell III, E.A. Cloutis, M. Staid, W. Farrand, M. Rice, A. Wang, and A. Yen, Mineralogic constraints on sulfur-rich soils from Pancam spectra at Gusev Crater, Mars, *Geophys. Res. Lett.*, 34, L13202, [doi:10.1029/2007GL029894](https://doi.org/10.1029/2007GL029894), 2007.
 105. Robinson, M.S., B.W. Hapke, J.B. Garvin, D. Skillman, J.F. Bell III, M.P. Ulmer, and C.M. Pieters, High resolution mapping of TiO₂ abundances on the Moon using the Hubble Space Telescope, *Geophys. Res. Lett.*, 34, L13203, [doi:10.1029/2007GL029754](https://doi.org/10.1029/2007GL029754), 2007.
 104. Domokos, A., J.F. Bell III, P. Brown, M.T. Lemmon, R. Suggs, J. Vaubaillon and W. Cooke, Measurement of the meteoroid flux at Mars, *Icarus*, 191, 141-150, [doi:10.1016/j.icarus.2007.04.017](https://doi.org/10.1016/j.icarus.2007.04.017), 2007.
 103. Malin, M.C., J.F. Bell III, B.A. Cantor, M.A. Caplinger, W.M. Calvin, R.T. Clancy, L. Edwards, K.S. Edgett, R.M. Haberle, P.B. James, S.W. Lee, M.A. Ravine, P.C. Thomas, and M.J. Wolff, Context Camera investigation on board the Mars Reconnaissance Orbiter, *J. Geophys. Res.*, 112, E05S04, [doi:10.1029/JE002808](https://doi.org/10.1029/JE002808), 2007.
 102. Clark, B.C., R.E., Arvidson, R. Gellert, R.V. Morris, D.W. Ming, L. Richter, S.W. Ruff, J.R. Michalski, W.H. Farrand, A. Yen, K.E. Herkenhoff, R. Li, S.W. Squyres, C. Schröder, G. Klingelhöfer, and J.F. Bell III, Evidence for montmorillonite or its compositional equivalent in Columbia Hills, Mars, *J. Geophys. Res.*, 112, CiteID E06S01, [doi: 10.1029/2006JE002756](https://doi.org/10.1029/2006JE002756), 2007.
 101. Farrand, W.H., J.F. Bell III, J.R. Johnson, B.L. Jolliff, A.H. Knoll, S.M. McLennan, W.M. Calvin, J.P. Grotzinger, M. Lemmon, R.V. Morris, J. Soderblom, S.W. Squyres, S. Thompson, W.A. Watters, A. Yen, Visible and Near Infrared multispectral analysis of in situ and displaced rocks, Meridiani Planum, Mars by the Mars Exploration Rover Opportunity: Spectral properties and stratigraphy, *J. Geophys. Res.*, 112, CiteID E06S02, [doi:10.1029/2006JE002773](https://doi.org/10.1029/2006JE002773), 2007.
 100. Arvidson, R. E., F. Poulet, R.V. Morris, J.-P. Bibring, J.F. Bell III, S.W. Squyres, P.R. Christensen, G. Bellucci, B. Gondet, B.L. Ehlmann, W.H. Farrand, R.L. Fergason, M. Golombek, J.L. Griffes, J. Grotzinger, E.A. Guinness, K.E. Herkenhoff, J.R. Johnson, G. Klingelhöfer, Y. Langevin, D. Ming, K. Seelos, R.J. Sullivan, J.G. Ward, S.M. Wiseman, and M. Wolff, Nature and origin of the hematite-bearing plains of Terra Meridiani based on analyses of orbital and Mars Exploration rover data sets, *J. Geophys. Res.*, 111, E12S08, [doi:10.1029/2006JE002728](https://doi.org/10.1029/2006JE002728), 2006.

99. Weitz, C., R.C. Anderson, J.F. Bell III, W.H. Farrand, K.E. Herkenhoff, J.R. Johnson, B.L. Jolliff, R.V. Morris, S.W. Squyres, and R.J. Sullivan, Soil grain analyses at Meridiani Planum, Mars, *J. Geophys. Res.*, *111*, E12S04, [doi:10.1029/2005JE002541](https://doi.org/10.1029/2005JE002541), 2006.
98. Golombek, M.P., J.A. Grant, L.S. Crumpler, R. Greeley, R.E. Arvidson, J.F. Bell III, C. M. Weitz, R. Sullivan, P.R. Christensen, L.A. Soderblom, and S.W. Squyres, Erosion rates at the Mars Exploration Rover landing sites and long-term climate change on Mars, *J. Geophys. Res.*, *111*, E12S10, [doi:10.1029/2006JE002754](https://doi.org/10.1029/2006JE002754), 2006.
97. Wolff, M.J., M.D. Smith, R.T. Clancy, N. Spanovich, B.A. Whitney, M.T. Lemmon, J.L. Bandfield, D. Banfield, A. Ghosh, G. Landis, P.R. Christensen, J.F. Bell III, and S.W. Squyres, Constraints on dust aerosols from the Mars Exploration Rovers using MGS overflights and Mini-TES, *J. Geophys. Res.*, *111*, E12S17, [doi:10.1029/2006JE002786](https://doi.org/10.1029/2006JE002786), 2006.
96. Grotzinger, J., J.F. Bell III, K. Herkenhoff, J.R. Johnson, A. Knoll, E. McCartney, S. McLennan, J. Metz, J. Moore, S. Squyres, R. Sullivan, O. Aharonson, R. Arvidson, B. Joliff, M. Golombek, K. Lewis, T. Parker, and J. Soderblom, Sedimentary textures formed by aqueous processes, Erebus crater, Meridiani Planum, Mars, *Geology*, *34*, 1085–1088; [doi: 10.1130/G22985A.1](https://doi.org/10.1130/G22985A.1), 2006.
95. Johnson, J.R., W.M. Grundy, M.T. Lemmon, J.F. Bell III, M.J. Johnson, R. Deen, R.E. Arvidson, W.H. Farrand, E. Guinness, A. Hayes, K.E. Herkenhoff, F. Seelos IV, J. Soderblom and S. Squyres, Spectrophotometric Properties of Materials Observed by Pancam on the Mars Exploration Rovers: 2. Opportunity, *J. Geophys. Res.*, *111*, E12S16, [doi:10.1029/2006JE002762](https://doi.org/10.1029/2006JE002762), 2006.
94. Yen, A. S., D. W. Mittlefehldt, S.M. McLennan, R. Gellert, J.F. Bell III, H.Y. McSween, Jr., D.W. Ming, T.J. McCoy, R.V. Morris, M. Golombek, T. Economou, M.B. Madsen, T. Wdowiak, B.C. Clark, B.L. Jolliff, C. Schröder, J. Brückner, J. Zipfel, and S.W. Squyres, Nickel on Mars: Constraints on meteoritic material at the surface, *J. Geophys. Res.*, *111*, E12S11, [doi:10.1029/2006JE002797](https://doi.org/10.1029/2006JE002797), 2006.
93. Johnson, J.R., J. Sohl-Dickstein, W.M Grundy, R.E. Arvidson, J.F. Bell III, P. Christensen, T. Graff, E. A. Guinness, K. Kinch, R.V. Morris, and M.K. Shepard, Radiative transfer modeling of dust-coated Pancam calibration target materials: Laboratory visible/near-infrared spectrogoniometry, *J. Geophys. Res.*, *111*, E12S07, [doi:10.1029/2005JE002658](https://doi.org/10.1029/2005JE002658), 2006.
92. Kaydash, V.G., M.A. Kreslavsky, Yu. G. Shkuratov, G. Videen, J.F. Bell III, and M. Wolff, Measurements of winds on Mars with Hubble Space Telescope images in 2003 opposition, *Icarus*, *185*, 97-101, [doi:10.1016/j.icarus.2006.07.017](https://doi.org/10.1016/j.icarus.2006.07.017), 2006.
91. Squyres, S.W., O. Aharonson, R. E. Arvidson, J. F. Bell III, P. R. Christensen, B. C. Clark, J. A. Crisp, W. Farrand, T. Glotch, M. P. Golombek, J. Grant, J. Grotzinger, K. E. Herkenhoff, J. R. Johnson, B. L. Jolliff, A. H. Knoll, S. M. McLennan, H. Y. McSween, J. M. Moore, J. W. Rice Jr., and N. Tosca, [Bedrock formation at Meridiani Planum](https://doi.org/10.1038/nature05212), *Nature*, *443*, E1-E2, [doi:10.1038/nature05212](https://doi.org/10.1038/nature05212), 2006.
90. Squyres, S.W., R.E. Arvidson, D. Bollen, J.F. Bell III, J. Brückner, N. A. Cabrol, W. M. Calvin, M. H. Carr, P. R. Christensen, B. C. Clark, L. Crumpler, D. J. Des Marais, C. d'Uston, T. Economou, J. Farmer, W. H. Farrand, W. Folkner, R. Gellert, T.D. Glotch, M. Golombek, S. Gorevan, J. A. Grant, R. Greeley, J. Grotzinger, K. E. Herkenhoff, S. Hviid, J. R. Johnson, G. Klingelhöfer, A. H. Knoll, G. Landis, M. Lemmon, R. Li, M. B. Madsen, M. C. Malin, S. M. McLennan, H. Y. McSween, D. W. Ming, J. Moersch, R. V. Morris, T. Parker, J. W. Rice Jr., L. Richter, R. Rieder, C. Schröder, M. Sims, M. Smith, P. Smith, L. A. Soderblom, R. Sullivan, N.J. Tosca, H. Wänke, T. Wdowiak, M. Wolff, and A. Yen, Overview of the Opportunity Mars Exploration Rover Mission to Meridiani Planum: Eagle Crater to Purgatory Ripple, *J. Geophys. Res.*, *111*, E12S12, [doi:10.1029/2006JE002771](https://doi.org/10.1029/2006JE002771), 2006.
89. Cloutis, E.A., F.C. Hawthorne, S.A. Mertzman, K. Krenn, M.A. Craig, D. Marcino, M. Methot, J. Strong, J.F. Mustard, D.L. Blaney, J.F. Bell III, and F. Vilas, Detection and discrimination of sulfate minerals using reflectance spectroscopy, *Icarus*, *184*, 121-157, [doi:10.1016/j.icarus.2006.04.003](https://doi.org/10.1016/j.icarus.2006.04.003), 2006.
88. McSween, H.Y., S. W. Ruff, R. V. Morris, J. F. Bell III, K. Herkenhoff, R. Gellert, K. R. Stockstill, L. L. Tornabene, S. W. Squyres, J. A. Crisp, P. R. Christensen, T. J. McCoy, D. W. Mittlefehldt, and M. Schmidt, Alkaline volcanic rocks from the Columbia Hills, Gusev crater, Mars, *J. Geophys. Res.*, *111*, E09S91, [doi:10.1029/2006JE002698](https://doi.org/10.1029/2006JE002698), 2006.
87. Squyres, S.W., A.H. Knoll, R.E. Arvidson, B.C. Clark, J.P. Grotzinger, B.L. Jolliff, S.M. McLennan, N. Tosca, J.F. Bell III, W.M. Calvin, W.H. Farrand, T.D. Glotch, M.P. Golombek, K.E. Herkenhoff, J.R. Johnson, G. Klingelhofer, H.Y. McSween, and A.S. Yen, [Two years at Meridiani Planum: Results from the Opportunity Rover](https://doi.org/10.1126/science.1130147), *Science*, *313*, 1403-1407, 2006.
86. Golombek, M.P., L. S. Crumpler, J. A. Grant, R. Greeley, N. A. Cabrol, T. J. Parker, J. W. Rice Jr., J. G. Ward and R. E. Arvidson, J. E. Moersch, R. L. Fergason and P. R. Christensen, A. Castaño, R. Castaño, and A. F. C. Haldemann, R. Li, J.F. Bell III and S. W. Squyres, Geology of the Gusev cratered plains from the *Spirit* rover traverse, *J. Geophys. Res.*, *111*, E02S07, [doi:10.1029/2005JE002503](https://doi.org/10.1029/2005JE002503), 2006.
85. Li, R., B.A. Archinal, R.E. Arvidson, J.F. Bell III, P. Christensen, L. Crumpler, D.J. Des Marais, K. Di, T. Duxbury, M. Golombek, J. Grant, R. Greeley, J. Guinn, A. Johnson, R.L. Kirk, M. Maimone, L.H. Matthies, M. Malin, T. Parker, M. Sims, S. Thompson, S.W. Squyres, and L.A. Soderblom, *Spirit* rover localization

- and topographic mapping at the landing site of Gusev crater, Mars, *J. Geophys. Res.*, *111*, E02S06, [doi:10.1029/2005JE002483](https://doi.org/10.1029/2005JE002483), 2006.
84. Herkenhoff, K.E., S.W. Squyres, R. Anderson, B.A. Archinal, R.E. Arvidson, J.M. Barrett, K.J. Becker, J.F. Bell III, C. Budney, N. Cabrol, M.G. Chapman, D. Cook, B.L. Ehlmann, J. Farmer, B. Franklin, L. Gaddis, D.M. Galuszka, P.A. Garcia, T.M. Hare, E. Howington-Kraus, J.R. Johnson, S. Johnson, K. Kinch, R.L. Kirk, E.M. Lee, C. Leff, M. Lemmon, M.B. Madsen, J.N. Maki, K.F. Mullins, B.L. Redding, L. Richter, M.R. Rosiek, M.H. Sims, L.A. Soderblom, N. Spanovich, R. Springer, R.M. Sucharski, T. Sucharski, R. Sullivan, J.M. Torson, and A. Yen, Overview of the Microscopic Imager investigation during *Spirit's* first 450 sols in Gusev crater, *J. Geophys. Res.*, *111*, E02S04, [doi:10.1029/2005JE002574](https://doi.org/10.1029/2005JE002574), 2006.
 83. Arvidson, R.E., S.W. Squyres, R.C. Anderson, J.F. Bell III, D. Blaney, J. Brückner, N.A. Cabrol, W.M. Calvin, M.H. Carr, P.R. Christensen, B.C. Clark, L. Crumpler, D. Des Marais, P.A. de Souza, C. d'Uston, T. Economou, J. Farmer, W.H. Farrand, W. Folkner, M. Golombek, S. Gorevan, J.A. Grant, R. Greeley, J. Grotzinger, E. Guinness, B.C. Hahn, L. Haskin, K.E. Herkenhoff, J.A. Hurowitz, S. Hviid, J.R. Johnson, G. Klingelhöfer, A.H. Knoll, G. Landis, C. Leff, M. Lemmon, R. Li, M.B. Madsen, M.C. Malin, S.M. McLennan, H.Y. McSween, D.W. Ming, J. Moersch, R.V. Morris, T. Parker, J.W. Rice, L. Richter, R. Rieder, D.S. Rodionov, C. Schröder, M. Sims, M. Smith, P. Smith, L.A. Soderblom, R. Sullivan, S.D. Thompson, N.J. Tosca, A. Wang, H. Wänke, J. Ward, T. Wdowiak, M. Wolff, and A. Yen, Overview of the *Spirit* Mars Exploration Rover mission to Gusev crater: Landing site to Backstay rock in the Columbia Hills, *J. Geophys. Res.*, *111*, E02S01, [doi:10.1029/2005JE002499](https://doi.org/10.1029/2005JE002499), 2006.
 82. Johnson, J.R., W.M. Grundy, M.T. Lemmon, J.F. Bell III, M.J. Johnson, R. Deen, R.E. Arvidson, W.H. Farrand, E. Guinness, K.E. Herkenhoff, F. Seelos IV, J. Soderblom and S. Squyres, Spectrophotometric Properties of Materials Observed by Pancam on the Mars Exploration Rovers: 1. Spirit, *J. Geophys. Res.*, *111*, E02S14, [doi:10.1029/2005JE002494](https://doi.org/10.1029/2005JE002494), 2006.
 81. McSween, H.Y., M. B Wyatt, R. Gellert, J.F. Bell III, R. V. Morris, K. E. Herkenhoff, L. S. Crumpler, K. A. Milam, K. R. Stockstill, and L. L. Tornabene, R. E. Arvidson, P. Bartlett, D. Blaney, N. A. Cabrol, P. R. Christensen, B. C. Clark, J. A. Crisp, D. J. Des Marais, T. Economou, J. D. Farmer, W. Farrand, A. Ghosh, M. Golombek, S. Gorevan, R. Greeley, V. E. Hamilton, J. R. Johnson, B. L. Joliff, G. Klingelhöfer, A. T. Knudson, S. McLennan, D. Ming, J. E. Moersch, R. Rieder, S. W. Ruff, C. Schröder, P. A. de Souza Jr., S. W. Squyres, H. Wänke, A. Wang, A. Yen, and J. Zipfel, Characterization and petrologic interpretation of olivine-rich basalts at Gusev Crater, Mars, *J. Geophys. Res.*, *111*, E02S10, [doi:10.1029/2005JE002477](https://doi.org/10.1029/2005JE002477), 2006.
 80. Fergason, R. L., P. R. Christensen, J.F. Bell III, M. P. Golombek, K. E. Herkenhoff, and H. H. Kieffer, Physical properties of the Mars Exploration Rover landing sites as inferred from Mini-TES derived thermal inertia, *J. Geophys. Res.*, *111*, E02S21, [doi:10.1029/2005JE002583](https://doi.org/10.1029/2005JE002583), 2006.
 79. Farrand, W. H., J.F. Bell III, J. R. Johnson, S.W. Squyres, J. Soderblom, and D. W. Ming, Spectral variability among rocks in visible and near-infrared multispectral Pancam data collected at Gusev crater: Examinations using spectral mixture analysis and related techniques, *J. Geophys. Res.*, *111*, E02S15, [doi:10.1029/2005JE002495](https://doi.org/10.1029/2005JE002495), 2006.
 78. McLennan, S.M., J.F. Bell III, W.M. Calvin, P.R. Christensen, B.C. Clark, P.A. de Souza, J. Farmer, W.H. Farrand, D.A. Fike, R. Gellert, A. Ghosh, T.D. Glotch, J.P. Grotzinger, B. Hahn, K.E. Herkenhoff, J.A. Hurowitz, J.R. Johnson, S.S. Johnson, B. Jolliff, G. Klingelhöfer, A.H. Knoll, Z. Learner, M.C. Malin, H.Y. McSween, Jr., J. Pockock, S.W. Ruff, L.A. Soderblom, S.W. Squyres, N.J. Tosca, W.A. Watters, M.B. Wyatt and A. Yen, Provenance and diagenesis of the evaporite-bearing Burns formation, Meridiani Planum, Mars, *Earth Planet. Sci. Lett.*, *240*, 95-121, [doi:10.1016/j.epsl.2005.09.041](https://doi.org/10.1016/j.epsl.2005.09.041), 2005.
 77. Morris, R.V., D.W. Ming, T.G. Graff, R.E. Arvidson, J.F. Bell III, S.W. Squyres, S.A. Mertzman, J.E. Gruener, D.C. Golden, L. Le and G.A. Robinson, Hematite spherules in basaltic tephra altered under aqueous, acid-sulfate conditions on Mauna Kea volcano, Hawaii: Possible clues for the occurrence of hematite-rich spherules in the Burns formation at Meridiani Planum, Mars, *Earth Planet. Sci. Lett.*, *240*, 168-178, [doi:10.1016/j.epsl.2005.09.044](https://doi.org/10.1016/j.epsl.2005.09.044), 2005.
 76. Grotzinger, J.P., R.E. Arvidson, J.F. Bell III, W. Calvin, B.C. Clark, D.A. Fike, M. Golombek, R. Greeley, A. Haldemann, K.E. Herkenhoff, B.L. Jolliff, A.H. Knoll, M. Malin, S.M. McLennan, T. Parker, L. Soderblom, J.N. Sohl-Dickstein, S.W. Squyres, N.J. Tosca and W.A. Watters, Stratigraphy and sedimentology of a dry to wet eolian depositional system, Burns formation, Meridiani Planum, Mars, *Earth Planet. Sci. Lett.*, *240*, 11-72, [doi:10.1016/j.epsl.2005.09.039](https://doi.org/10.1016/j.epsl.2005.09.039), 2005.
 75. Li, R., S.W. Squyres, R.E. Arvidson, B.A. Archinal, J.F. Bell III, Y. Cheng, L. Crumpler, D.J. DesMarais, K. Di, T.A. Ely, M. Golombek, E. Graat, J. Grant, J. Guinn, A. Johnson, R. Greeley, R.L. Kirk, M. Maimone, L.H. Matthies, M. Malin, T. Parker, M. Sims, L.A. Soderblom, S. Thompson, J. Wang, P. Whelley, and F. Xu, [Initial results of rover localization and topographic mapping for the 2003 Mars Exploration Rover Mission](https://doi.org/10.1016/j.photogrammetric.2005.09.001), *Photogram. Eng. Rem. Sens.*, *71*, 1129-1142, 2005.
 74. Crumpler, L.S., S.W. Squyres, R.E. Arvidson, J.F. Bell III, D. Blaney, N.A. Cabrol, P.R. Christensen, D.J. DesMarais, J.D. Farmer, R. Fergason, M.P. Golombek, F.D. Grant, J.A. Grant, R. Greeley, B. Hahn, K.E. Herkenhoff, J.A. Hurowitz, A.T. Knudson, G.A. Landis, R. Li, J. Maki, H.Y. McSween, D.W. Ming, J.E. Moersch, M.C. Payne, J.W. Rice, L. Richter, S.W. Ruff, M. Sims, S.D. Thompson, N. Tosca, A. Wang, P. Whelley, S.P. Wright and M.B. Wyatt, [Mars Exploration Rover Geologic traverse by the Spirit rover in the Plains of Gusev Crater](https://doi.org/10.1016/j.geology.2005.09.001), Mars, *Geology*, *33*, 809-812, 2005.
 73. Golombek, M.P., R.E. Arvidson, J.F. Bell III, P.R. Christensen, J.A. Crisp, L.A. Crumpler, B. Ehlmann, R.L. Fergason, J.A. Grant, R. Greeley, A.F.C. Haldemann, D.M. Kass, T.J. Parker, J.T. Schofield, S.W. Squyres, and R.W. Zurek, [Assessment of Mars Exploration Rover landing site predictions](https://doi.org/10.1038/436444a), *Nature*, *436*, 44-48, 2005.

72. Haskin, L., A. Wang, B.L. Jolliff, H.Y. McSween, B.C. Clark, D.J. Des Marais, S.M. McLennan, N.J. Tosca, J.A. Hurowitz, J.D. Farmer, A. Yen, S.W. Squyres, R.E. Arvidson, G. Klingelhöfer, C. Schröder, P.A. de Souza, D. Ming, R. Gellert, J. Zipfel, J. Brückner, [J.F. Bell III](#), K.E. Herkenhoff, P.R. Christensen, S. Ruff, D. Blaney, S. Gorevan, N.A. Cabrol, L. Crumpler, J. Grant, and L.A. Soderblom, [Water alteration of rocks and soils on Mars at the Spirit rover site in Gusev crater](#), *Nature*, *436*, 66-69, 2005.
71. Sullivan, R., D. Banfield, [J.F. Bell III](#), W. Calvin, D. Fike, M. Golombek, R. Greeley, J. Grotzinger, K.E. Herkenhoff, D. Jerolmack, M. Malin, D. Ming, L.A. Soderblom, S.W. Squyres, S. Thompson, W.A. Watters, C.M. Weitz, and A. Yen, [Aeolian processes at the Mars Exploration Rover Meridiani Planum landing site](#), *Nature*, *436*, 58-61, 2005.
70. Yen, A.S., R. Gellert, C. Schröder, R.V. Morris, [J.F. Bell III](#), A.T. Knudson, B.C. Clark, D.W. Ming, J.A. Crisp, R.E. Arvidson, D. Blaney, J. Brückner, P.R. Christensen, D.J. Desmarais, P.A. de Souza, T.E. Economou, A. Ghosh, B.C. Hahn, K.E. Herkenhoff, L.A. Haskin, J.A. Hurowitz, B.L. Jolliff, J.R. Johnson, G. Klingelhöfer, M.B. Madsen, S.M. McLennan, H.Y. McSween, L. Richter, R. Rieder, D. Rodionov, L. Soderblom, S.W. Squyres, N.J. Tosca, A. Wang, M. Wyatt, and J. Zipfel, [An integrated view of the chemistry and mineralogy of martian soils](#), *Nature*, *436*, 49-54, 2005.
69. Shkuratov, Y.G., M.A. Kreslavsky, V.G. Kaydash, G. Videen, [J.F. Bell III](#), M.J. Wolff, M. Hubbard, K. Noll, and A. Lubenow, Hubble Space Telescope Imaging polarimetry of Mars during the 2003 opposition, *Icarus*, *176*, pp. 1-11, [doi:10.1016/j.icarus.2005.01.009](#), 2005.
68. Greeley, R.; R. Arvidson; [J.F. Bell, III](#); P. Christensen; D. Foley; A. Haldemann; R.O. Kuzmin; G. Landis; L.D. Neakrase; G. Neukum; S.W. Squyres; R. Sullivan; S.D. Thompson; P.L. Whelley; and D. Williams, Martian variable features: New insight from the Mars Express Orbiter and the Mars Exploration Rover Spirit, *J. Geophys. Res.*, *110*, No. E6, [doi:10.1029/2005JE002403](#), 2005.
67. Selsis, F., M.T. Lemmon, J. Vaubaillon, and [J.F. Bell, III](#), Extraterrestrial meteors: A Martian meteor and its parent comet. *Nature* *435*, 581, [doi:10.1038/435581a](#), 2005.
66. Squyres, S.W., R. E. Arvidson, [J.F. Bell, III](#), J. Brückner, N. A. Cabrol, W. Calvin, M. H. Carr, P. R. Christensen, B. C. Clark, L. Crumpler, D. J. Des Marais, C. d'Uston, T. Economou, J. Farmer, W. Farrand, W. Folkner, M. Golombek, S. Gorevan, J. A. Grant, R. Greeley, J. Grotzinger, L. Haskin, K. E. Herkenhoff, S. Hviid, J. Johnson, G. Klingelhöfer, A. H. Knoll, G. Landis, M. Lemmon, R. Li, M. B. Madsen, M. C. Malin, S. M. McLennan, H. Y. McSween, D. W. Ming, J. Moersch, R. V. Morris, T. Parker, J. W. Rice, Jr., L. Richter, R. Rieder, M. Sims, M. Smith, P. Smith, L. A. Soderblom, R. Sullivan, H. Wänke, T. Wdowiak, M. Wolff, and A. Yen, The Opportunity Rover's Athena Science Investigation at Meridiani Planum, Mars, *Science*, *306*, 1698-1703, [doi:10.1126/science.1106171](#), 2004.
65. Arvidson, R.E., R. C. Anderson, P. Bartlett, [J.F. Bell III](#), P. R. Christensen, P. Chu, K. Davis, B. L. Ehlmann, M. P. Golombek, S. Gorevan, E. A. Guinness, A. F. C. Haldemann, K. E. Herkenhoff, G. Landis, R. Li, R. Lindemann, D. W. Ming, T. Myrick, T. Parker, L. Richter, F. P. Seelos IV, L. A. Soderblom, S. W. Squyres, R. J. Sullivan, and J. Wilson, [Localization and Physical Property Experiments Conducted by Opportunity at Meridiani Planum](#), *Science*, *306*, 1730-1733, 2004.
64. Herkenhoff, K.E., S.W. Squyres, R. Arvidson, D. S. Bass, [J.F. Bell III](#), P. Bertelsen, B. L. Ehlmann, W. Farrand, L. Gaddis, R. Greeley, J. Grotzinger, A. G. Hayes, S. F. Hviid, J. R. Johnson, B. Jolliff, K. M. Kinch, A. H. Knoll, M. B. Madsen, J. N. Maki, S. M. McLennan, H. Y. McSween, D. W. Ming, J. W. Rice Jr., L. Richter, M. Sims, P. H. Smith, L. A. Soderblom, N. Spanovich, R. Sullivan, S. Thompson, T. Wdowiak, C. Weitz, and P. Whelley, Evidence from Opportunity's Microscopic Imager for Water on Meridiani Planum, *Science*, *306*, 1727-1730, [doi:10.1126/science.1105286](#), 2004.
63. Lemmon, M.T. M. J. Wolff, M. D. Smith, R. T. Clancy, D. Banfield, G. A. Landis, A. Ghosh, P. H. Smith, N. Spanovich, B. Whitney, P. Whelley, R. Greeley, S. Thompson, [J.F. Bell III](#), and S. W. Squyres, Atmospheric Imaging Results from the Mars Exploration Rovers: Spirit and Opportunity, *Science*, *306*, 1753-1756, [doi:10.1126/science.1104474](#), 2004.
62. Soderblom, L.A., R. C. Anderson, R. E. Arvidson, [J.F. Bell III](#), N. A. Cabrol, W. Calvin, P. R. Christensen, B. C. Clark, T. Economou, B. L. Ehlmann, W. H. Farrand, D. Fike, R. Gellert, T. D. Glotch, M. P. Golombek, R. Greeley, J. P. Grotzinger, K. E. Herkenhoff, D. J. Jerolmack, J. R. Johnson, B. Jolliff, G. Klingelhöfer, A. H. Knoll, Z. A. Learner, R. Li, M. C. Malin, S. M. McLennan, H. Y. McSween, D. W. Ming, R. V. Morris, J. W. Rice Jr., L. Richter, R. Rieder, D. Rodionov, C. Schröder, F. P. Seelos IV, J. M. Soderblom, S. W. Squyres, R. Sullivan, W. A. Watters, C. M. Weitz, M. B. Wyatt, A. Yen, and J. Zipfel, [Soils of Eagle Crater and Meridiani Planum at the Opportunity Rover Landing Site](#), *Science*, *306*, 1723-1726, 2004.
61. Squyres, S.W., J. P. Grotzinger, R. E. Arvidson, [J.F. Bell III](#), W. Calvin, P. R. Christensen, B. C. Clark, J. A. Crisp, W. H. Farrand, K. E. Herkenhoff, J. R. Johnson, G. Klingelhöfer, A. H. Knoll, S. M. McLennan, H. Y. McSween Jr., R. V. Morris, J. W. Rice Jr., R. Rieder, and L. A. Soderblom, [In Situ Evidence for an Ancient Aqueous Environment at Meridiani Planum](#), Mars, *Science*, *306*, 1709-1714, [doi:10.1126/science.1104559](#), 2004.
60. McSween, H.Y., R. E. Arvidson, [J.F. Bell III](#), D. Blaney, N. A. Cabrol, P. R. Christensen, B. C. Clark, J. A. Crisp, L. S. Crumpler, D. J. Des Marais, J. D. Farmer, R. Gellert, A. Ghosh, S. Gorevan, T. Graff, J. Grant, L. A. Haskin, K. E. Herkenhoff, J. R. Johnson, B. L. Jolliff, G. Klingelhöfer, A. T. Knudson, S. McLennan, K. A. Milam, J. E. Moersch, R. V. Morris, R. Rieder, S. W. Ruff, P. A. de Souza Jr., S. W. Squyres, H. Wänke, A. Wang, M. B. Wyatt, A. Yen, and J. Zipfel, [Basaltic Rocks Analyzed by the Spirit Rover in Gusev Crater](#), *Science*, *305*, 842-845 (2004).
59. Bertelsen, P., W. Goetz, M. B. Madsen, K. M. Kinch, S. F. Hviid, J. M. Knudsen, H. P. Gunnlaugsson, J. Merrison, P. Nørnberg, S. W. Squyres, [J.F. Bell III](#), K. E. Herkenhoff, S. Gorevan, A. S. Yen, T. Myrick, G.

- Klingelhöfer, R. Rieder and R. Gellert, [Magnetic Properties Experiments on the Mars Exploration Rover Spirit at Gusev Crater](#), *Science*, 305, 827-829 (2004).
58. Greeley, R., S. W. Squyres, R. E. Arvidson, P. Bartlett, [J. F. Bell III](#), D. Blaney, N. A. Cabrol, J. Farmer, B. Farrand, M. P. Golombek, S. P. Gorevan, J. A. Grant, A. F. C. Haldemann, K. E. Herkenhoff, J. Johnson, G. Landis, M. B. Madsen, S. M. McLennan, J. Moersch, J. W. Rice Jr., L. Richter, S. Ruff, R. J. Sullivan, S. D. Thompson, A. Wang, C. M. Weitz, P. Whelley, and the Athena Science Team, [Wind-Related Processes Detected by the Spirit Rover at Gusev Crater](#), *Mars, Science*, 305, 810-813 (2004).
 57. Grant, J.A., R. Arvidson, [J. F. Bell III](#), N. A. Cabrol, M. H. Carr, P. Christensen, L. Crumpler, D. J. Des Marais, B. L. Ehlmann, J. Farmer, M. Golombek, F. D. Grant, R. Greeley, K. Herkenhoff, R. Li, H. Y. McSween, D. W. Ming, J. Moersch, J. W. Rice Jr., S. Ruff, L. Richter, S. Squyres, R. Sullivan and C. Weitz, [Surficial Deposits at Gusev Crater Along Spirit Rover Traverses](#), *Science*, 305, 807-810 (2004).
 56. Squyres, S.W., R. E. Arvidson, [J. F. Bell III](#), J. Brückner, N. A. Cabrol, W. Calvin, M. H. Carr, P. R. Christensen, B. C. Clark, L. Crumpler, D. J. Des Marais, C. d'Uston, T. Economou, J. Farmer, W. Farrand, W. Folkner, M. Golombek, S. Gorevan, J. A. Grant, R. Greeley, J. Grotzinger, L. Haskin, K. E. Herkenhoff, S. Hviid, J. Johnson, G. Klingelhöfer, A. Knoll, G. Landis, M. Lemmon, R. Li, M. B. Madsen, M. C. Malin, S. M. McLennan, H. Y. McSween, D. W. Ming, J. Moersch, R. V. Morris, T. Parker, J. W. Rice Jr., L. Richter, R. Rieder, M. Sims, M. Smith, P. Smith, L. A. Soderblom, R. Sullivan, H. Wänke, T. Wdowiak, M. Wolff, and A. Yen, [The Spirit Rover's Athena Science Investigation at Gusev Crater](#), *Mars, Science*, 305, 794-799, doi:10.1126/science.3050794, 2004.
 55. Herkenhoff, K.E., S. W. Squyres, R. Arvidson, D. S. Bass, [J. F. Bell III](#), P. Bertelsen, N. A. Cabrol, L. Gaddis, A. G. Hayes, S. F. Hviid, J. R. Johnson, K. M. Kinch, M. B. Madsen, J. N. Maki, S. M. McLennan, H. Y. McSween, J. W. Rice Jr., M. Sims, P. H. Smith, L. A. Soderblom, N. Spanovich, R. Sullivan, and A. Wang (2004) [Textures of the Soils and Rocks at Gusev Crater from Spirit's Microscopic Imager](#), *Science*, 305, 824-826 .
 54. Arvidson, R.E., R. C. Anderson, P. Bartlett, [J. F. Bell III](#), D. Blaney, P. R. Christensen, P. Chu, L. Crumpler, K. Davis, B. L. Ehlmann, R. Fergason, M. P. Golombek, S. Gorevan, J. A. Grant, R. Greeley, E. A. Guinness, A. F. C. Haldemann, K. Herkenhoff, J. Johnson, G. Landis, R. Li, R. Lindemann, H. McSween, D. W. Ming, T. Myrick, L. Richter, F. P. Seelos IV, S. W. Squyres, R. J. Sullivan, A. Wang, and J. Wilson, [Localization and Physical Properties Experiments Conducted by Spirit at Gusev Crater](#), *Science*, 305, 821-824 , 2004.
 53. Hawke, B.R., D.T. Blewett, P.G. Lucey, [J.F. Bell III](#), B.A. Campbell, and M.S. Robinson, The origin of lunar crater rays, *Icarus*, 170, 1-16, doi:10.1016/j.icarus.2004.02.013, 2004.
 52. Cloutis, E.A. and [J.F. Bell III](#), Mafic silicate mapping on Mars: Effects of palagonite, multiple mafic silicates, and spectral resolution, *Icarus*, 172, 233-254, doi:10.1016/j.icarus.2004.06.002, 2003.
 51. Maki, J.N., [J. F. Bell III](#), K. E. Herkenhoff, S. W. Squyres, A. Kiely, M. Klimesh, M. Schwochert, T. Litwin, R. Willson, A. Johnson, M. Maimone, E. Baumgartner, A. Collins, M. Wadsworth, S. T. Elliot, A. Dingizian, D. Brown, E. C. Hagerott, L. Scherr, R. Deen, D. Alexander, and J. Lorre, The Mars Exploration Rover Engineering Cameras, *J. Geophys. Res.*, CiteID 8071, doi:10.1029/2003JE002077, 2003.
 50. Herkenhoff, K.E., S. W. Squyres, [J. F. Bell III](#), J. N. Maki, H. M. Arneson, P. Bertelsen, D. I. Brown, S. A. Collins, A. Dingizian, S. T. Elliott, W. Goetz, E. C. Hagerott, A. G. Hayes, M. J. Johnson, R. L. Kirk, S. McLennan, R. V. Morris, L. M. Scherr, M. A. Schwochert, L. R. Shiraishi, G. H. Smith, L. A. Soderblom, J. N. Sohl-Dickstein, M. V. Wadsworth, and the Athena Science Team, The Athena Microscopic Imager Investigation, *J. Geophys. Res.*, (E12), 108, doi: 10.1029/2003JE002076, 2003.
 49. Squyres, S.W., R. E. Arvidson, E. T. Baumgartner, [J. F. Bell III](#), P. R. Christensen, S. Gorevan, K. E. Herkenhoff, G. Klingelhöfer, M. B. Madsen, R. V. Morris, R. Rieder, and R. A. Romero (2003) The Athena Mars Rover Science Investigation, *J. Geophys. Res.*, 108 (E12), 8062, doi:10.1029/2003JE002121, 2003.
 48. Christensen, P.R., J.L. Bandfield, [J.F. Bell III](#), V.E. Hamilton, A. Ivanov, B.M. Jakosky, H.H. Kieffer, M.D. Lane, M.C. Malin, T. McConnochie, A.S. McEwen, H.Y. McSween, Jr., J.E. Moersch, K.H. Nealson, J.W. Rice, Jr., M. Richardson, S.W. Ruff, M.D. Smith, and T.N. Titus, [Morphology and Composition of the Surface of Mars: Mars Odyssey THEMIS Results](#), *Science*, 300, 2056-2061, 2003.
 47. Izenberg, N.R., S.L. Murchie, [J.F. Bell III](#), L.A. McFadden, D.D. Wellnitz, B.E. Clark, and M.J. Gaffey, [Spectral properties and geologic processes on Eros from combined NEAR NIS and MSI data sets](#), *Meteoritics and Planetary Science*, 38, 1053-1077, 2003.
 46. Cochran, A.L., J. Veverka, [J.F. Bell III](#), M. Belton, J. Benkhoff, A. Cheng, B. Clark, P. Feldman, J. Kissel, P. Mahaffey, M. Malin, S. Murchie, H. Neimann, T. Owen, M. Robinson, G. Schwehm, S. Squyres, P. Thomas, F. Whipple, and D. Yeomans, [The COmet Nucleus TOUR \(CONTOUR\): A NASA Discovery Mission](#), *Earth, Moon and Planets*, 89, 289-300, 2002.
 45. Rivkin, A.S., R.H. Brown, D.E. Trilling, [J.F. Bell III](#), and J.H. Plassmann, Near-infrared spectrophotometry of Phobos and Deimos, *Icarus*, 156, 64-75, doi:10.1006/icar.2001.6767, 2002.
 44. Lucey, P.G., J. Hinrichs, M. Urquhart-Kelly, D. Wellnitz, N. Izenberg, S. Murchie, M. Robinson, B.E. Clark, and [J.F. Bell III](#), Detection of temperature-dependent spectral variation on the asteroid Eros and new evidence for the presence of an olivine-rich silicate assemblage, *Icarus*, 155, 181-188, doi:10.1006/icar.2001.6747, 2002.

43. Thomas, P.C., J. Joseph, B. Carcich, J. Veverka, B.E. Clark, [J.F. Bell III](#), M. Robinson, S. Murchie, L. Prockter, A. Cheng, N. Izenberg, M. Malin, C. Chapman, L.A. McFadden, R. Kirk, M. Gaffey, and P. Lucey, Eros: Shape, topography, and slope processes, *Icarus*, 155, 18-37, [doi:10.1006/icar.2001.6755](#) 2002.
42. Clark, B.E., P. Helfenstein, [J.F. Bell III](#), J. Veverka, N.I. Izenberg, D. Domingue, D. Wellnitz, and L. McFadden NEAR Infrared Spectrometer Photometry of Asteroid 433 Eros, *Icarus*, 155, 189-204, [doi:10.1006/icar.2001.6748](#), 2002.
41. McFadden, L.A., D.D. Wellnitz, M. Schnaubelt, M.J. Gaffey, [J.F. Bell III](#), B.E. Clark, N. Izenberg, S. Murchie, C.R. Chapman, P.G. Lucey, and the NEAR MSINIS Science Team, [Mineralogical Interpretation of Reflectance Spectra of Eros from NEAR NIS Low Phase Flyby](#), *Meteoritics and Planetary Science*, 36, 1711-1726, 2001.
40. McCoy, T.J., T.H. Burbine, L. McFadden, R.D. Starr, M.J. Gaffey, L.R. Nittler, L.G. Evans, N. Izenberg, P. Lucey, J.I. Trombka, [J.F. Bell III](#), B.E. Clark, P.E. Clark, S.W. Squyres, C.R. Chapman, W.V. Boynton, J. Veverka, and A.F. Cheng, [The Composition of 433 Eros: A Mineralogical-Chemical Synthesis](#), *Meteoritics and Planetary Science*, 36, 1661-1672, 2001.
39. Clark, B.E., P. Lucey, P. Helfenstein, [J.F. Bell III](#), C. Peterson, J. Veverka, T. McConnochie, M.S. Robinson, B. Bussey, S.L. Murchie, N.I. Izenberg, and C.R. Chapman, [Space weathering on Eros: Constraints from albedo and spectral measurements of Psyche crater](#), *Meteoritics and Planetary Science*, 36, 1617-1638, 2001.
38. Veverka, J., B. Farquhar, M. Robinson, P. Thomas, S. Murchie, A. Harch, P.G. Antreasian, S.R. Chesley, J.K. Miller, W.M. Owen, Jr., B.G. Williams, D. Yeomans, D. Dunham, G. Heyler, M. Holdridge, R.L. Nelson, K.E. Whittenburg, J.C. Ray, B. Carcich, A. Cheng, C. Chapman, [J.F. Bell III](#), M. Bell, B. Bussey, B. Clark, D. Domingue, M.J. Gaffey, E. Hawkins, N. Izenberg, J. Joseph, R. Kirk, P. Lucey, M. Malin, L. McFadden, W.J. Merline, C. Peterson, L. Prockter, J. Warren, and D. Wellnitz, [The landing of the NEAR-Shoemaker spacecraft on asteroid 433 Eros](#), *Nature*, 413, 390-393, 2001.
37. Malin, M., [J.F. Bell III](#), W. Calvin, R.T. Clancy, R.M. Haberle, P.B. James, S.W. Lee, P.C. Thomas, and M.A. Caplinger, [The Mars Color Imager \(MARCI\) on the Mars Climate Orbiter](#), *J. Geophys. Res.*, 106, 17651-17672, 2001.
36. Bridges, N.T., J.A. Crisp, and [J.F. Bell III](#), [Characteristics of the Pathfinder APXS sites: Implications for the composition of Martian rocks and soils](#), *J. Geophys. Res.*, 106, 14621-14665, 2001.
35. Veverka, J., P. Thomas, M. Robinson, S. Murchie, C. Chapman, M. Bell, A. Harch, W.J. Merline, [J.F. Bell III](#), B. Bussey, B. Carcich, A. Cheng, B. Clark, D. Domingue, D. Dunham, R. Farquhar, M.J. Gaffey, E. Hawkins, N. Izenberg, J. Joseph, R. Kirk, H. Li, P. Lucey, M. Malin, L. McFadden, J.K. Miller, W.M. Owen, Jr., C. Peterson, L. Prockter, J. Warren, D. Wellnitz, B.G. Williams, and D.K. Yeomans, [Imaging of small-scale features on 433 Eros from NEAR: Evidence for a complex regolith](#), *Science*, 292, 484-488, 2001.
34. Morris, R.V., D.C. Golden, D.W. Ming, T.D. Shelfer, L.C. Jørgensen, [J.F. Bell III](#), T.G. Graff, and S.A. Mertzmann, Phyllosilicate-Poor Palagonitic Dust from Mauna Kea Volcano (Hawaii): A Mineralogical and Process Analogue for Magnetic Martian Dust? *J. Geophys. Res.*, 106, 5057-5084, [doi: 10.1029/2000JE001328](#), 2001.
33. Veverka, J., M. Robinson, P. Thomas, S. Murchie, [J.F. Bell III](#), N. Izenberg, C. Chapman, A. Harch, M. Bell, B. Carcich, A. Cheng, B. Clark, D. Domingue, D. Dunham, R. Farquhar, M.J. Gaffey, E. Hawkins, J. Joseph, R. Kirk, H. Li, P. Lucey, M. Malin, P. Martin, L. McFadden, W.J. Merline, J.K. Miller, W.M. Owen, Jr., C. Peterson, L. Prockter, J. Warren, D. Wellnitz, B.G. Williams, and D.K. Yeomans, [NEAR at Eros: Imaging and Spectral Results](#), *Science*, 289, 2088-2097, 2000.
32. Izenberg, N.R., [J.F. Bell III](#), J.W. Warren, P. Martin, K. Peacock, E.H. Darlington, G. Heyler, S.L. Murchie, L. McFadden, D. Wellnitz, B. Clark, J. Joseph, B. Carcich, A. Harch, M. Robinson, C. Chapman, B. Merline, and J. Veverka (2000) In-flight Calibration of the Near Earth Asteroid Rendezvous Mission's Near Infrared Spectrometer I. Initial Calibrations, *Icarus*, 148, 550-571, [doi:10.1006/icar.2000.6487](#), 2000.
31. Cloutis, E.A., and [J.F. Bell III](#), Diaspores and related hydroxides: Spectral-compositional properties and implications for Mars, *J. Geophys. Res.*, 105, 7053-7070, [doi: 10.1029/1999JE001188](#), 2000.
30. Morris, R.V., D.C. Golden, [J.F. Bell III](#), T.D. Shelfer, A.C. Scheinost, N.W. Hinman, G. Furniss, S.A. Mertzman, J.L. Bishop, D.W. Ming, C.C. Allen, and D.T. Britt, Mineralogy, composition, and alteration of Mars Pathfinder rocks and soils: Evidence from multispectral, elemental, and magnetic data on terrestrial analogue, SNC meteorite, and Pathfinder samples, *J. Geophys. Res.*, 105, 1757-1817, [doi: 10.1029/1999JE001059](#), 2000.
29. Veverka, J., P.C. Thomas, [J.F. Bell III](#), M. Bell, B. Carcich, B. Clark, A. Harch, J. Joseph, P. Martin, M. Robinson, S. Murchie, N. Izenberg, E. Hawkins, J. Warren, A. Cheng, D. Dunham, C. Chapman, W.J. Merline, L. McFadden, D. Wellnitz, M. Malin, W.M. Owen Jr., J.K. Miller, B.G. Williams, and D.K. Yeomans, NEAR's flyby reconnaissance of asteroid 433 Eros: Imaging and spectral results, *Science*, 285, 562-564, 1999.
28. Veverka, J., P. Thomas, A. Harch, B. Clark, [J.F. Bell III](#), B. Carcich, J. Joseph, S. Murchie, N. Izenberg, C. Chapman, W. Merline, M. Malin, L. McFadden, and M. Robinson, NEAR encounters with asteroid 253 Mathilde: Overview, [doi:10.1006/icar.1999.6120](#), *Icarus*, 140, 3-16, 1999.
27. Thomas, P.C., J. Veverka, [J.F. Bell III](#), B. Clark, B. Carcich, J. Joseph, M. Robinson, L.A. McFadden, M.C. Malin, C.R. Chapman, W. Merline, and S. [Murchie, Mathilde: Size, shape, and geology](#), *Icarus*, 140, 17-27, 1999.

26. Murchie, S., M. Robinson, S.E. Hawkins III, A. Harch, P. Helfenstein, P. Thomas, K. Peacock, E.H. Darlington, B. Clark, [J.F. Bell III](#), W. Merline, N. Izenberg, and J. Veverka, Inflight calibration of the NEAR Multispectral Imager, *Icarus*, 140, 66-91, [doi:10.1006/icar.2001.6746](#), 1999.
25. Clark, B.E., J. Veverka, P. Helfenstein, P.C. Thomas, [J.F. Bell III](#), J. Joseph, A. Harch, B.T. Carcich, M.S. Robinson, S.L. Murchie, A. Cheng, N.R. Izenberg, L.A. McFadden, C.R. Chapman, W. Merline, and M. Malin, [NEAR photometry of asteroid 253 Mathilde](#), *Icarus*, 140, 53-65, 1999.
24. Reid, R.J., P.H. Smith, M. Lemmon, R. Tanner, M. Burkland, E. Wegryn, J. Weinberg, R. Marcialis, D.T. Britt, N. Thomas, R. Kramm, A. Dummel, D. Crowe, B.J. Bos, [J.F. Bell III](#), P. Rueffer, F. Gliem, J.R. Johnson, J.N. Maki, K.E. Herkenhoff, and R.B. Singer, [Imager for Mars Pathfinder \(IMP\) image calibration](#), *J. Geophys. Res.*, 104, 8907-8926, 1999.
23. Golombek, M.P., R. C. Anderson, J. R. Barnes, [J.F. Bell III](#), N. T. Bridges, D. T. Britt, J. Brückner, R. A. Cook, D. Crisp, J. Crisp, T. Economou, W. M. Folkner, R. Greeley, R. M. Haberle, R. B. Hargraves, J. A. Harris, A. F. C. Haldemann, S. F. Hviid, R. Jaumann, J. R. Johnson, K. E. Herkenhoff, P. H. Kallemeyn, H. U. Keller, R. L. Kirk, J. M. Knudsen, S. Larsen, M. Lemmon, M. B. Madsen, J. A. Magalhaes, R. M. Manning, J. N. Maki, M. C. Malin, J. Matijevic, H. Y. McSween Jr., H. J. Moore, S. L. Murchie, J. R. Murphy, T. J. Parker, R. Rieder, J. T. Schofield, A. Seiff, R. Singer, P. H. Smith, L. A. Soderblom, D. A. Spencer, C. Stoker, R. Sullivan, N. Thomas, S. W. Thurman, M. G. Tomasko, R. M. Vaughan, H. Wänke, W. Ward, and G. Wilson, [Overview of the Mars Pathfinder mission: Launch through landing, surface operations, data sets, and science results](#), *J. Geophys. Res.*, 104, 8523-8554, 1999.
22. Wolff, M.J., [J.F. Bell III](#), P.B. James, R.T. Clancy, and S.W. Lee, Hubble Space Telescope observations of the Martian aphelion cloud belt prior to the Mars Pathfinder mission: Water Ice Cloud and Dust Optical Depths, *J. Geophys. Res.*, 104, 9027-9042, [doi: 10.1029/98JE01967](#), 1999.
21. Murchie, S., N. Thomas, D. Britt, K. Herkenhoff, and [J.F. Bell III](#), [Mars Pathfinder spectral measurements of Phobos and Deimos: Comparison with preexisting data](#), *J. Geophys. Res.*, 104, 9069-9080, 1999.
20. Johnson, J.R., R. Kirk, L.A. Soderblom, L. Gaddis, R. J. Reid, D.T. Britt, P. Smith, M. Lemmon, N. Thomas, [J.F. Bell III](#), N.T. Bridges, R. Anderson, K.E. Herkenhoff, J. Maki, S. Murchie, A. Dummel, R. Jaumann, E. Hauber, and G. Arnold, [Photometric properties of materials at the Sagan Memorial Station, Mars](#), *J. Geophys. Res.*, 104, 8809-8830, 1999.
19. McSween, H.Y., Jr., S.L. Murchie, J. Crisp, N.T. Bridges, R. Anderson, [J.F. Bell III](#), D.T. Britt, J. Brueckner, G. Dreibus, T. Economou, A. Ghosh, J.P. Greenwood, J.R. Johnson, H.J. Moore, R.V. Morris, T.J. Parker, R. Rieder, R. Singer, and H. Wänke, [Chemical, multispectral, and textural constraints on the composition and origin of rocks at the Mars Pathfinder landing site](#), *J. Geophys. Res.*, 104, 8679-8716, 1999.
18. Cruikshank, D.P., T.L. Roush, M.J. Bartholomew, T.R. Geballe, Y.J. Pendleton, S. White, [J.F. Bell III](#), J.K. Davies, T.C. Owen, C. deBergh, D. Tholen, M.P. Bernstein, R.H. Brown, K.A. Tryka, and C.M. Dalle Ore, [The composition of Centaur 5145 Pholus](#), *Icarus*, 135, 389-407, 1998.
17. Smith, P.H., [J.F. Bell III](#), N.T. Bridges, D.T. Britt, L. Gaddis, R. Greeley, H.U. Keller, K.E. Herkenhoff, R. Jaumann, J.R. Johnson, R.L. Kirk, M. Lemmon, J.N. Maki, M.C. Malin, S.L. Murchie, J. Oberst, T.J. Parker, R.J. Reid, L.A. Soderblom, C. Stoker, R. Sullivan, N. Thomas, M.G. Tomasko, and E. Wegryn, [Results from the Mars Pathfinder Camera](#), *Science*, 278, 1758-1765, 1997.
16. Veverka, J., P. Thomas, A. Harch, B. Clark, [J.F. Bell III](#), B. Carcich, J. Joseph, C. Chapman, W. Merline, M. Robinson, M. Malin, L.A. McFadden, S. Murchie, R. Farquhar, N. Izenberg, and A. Cheng, [NEAR's flyby of 253 Mathilde: Images of a C-type asteroid](#), *Science*, 278, 2109-2114, 1997.
15. Morris, R.V., D.C. Golden, and [J.F. Bell III](#), Low-temperature reflectivity spectra of red hematite and the color of Mars, *J. Geophys. Res.–Planets*, 102, 9125-9133, [doi: 10.1029/96JE03993](#), 1997.
14. Wolff, M.J., S.W. Lee, R. T. Clancy, L.J. Martin, [J.F. Bell III](#), and P.B. James, [1995 observations of Martian dust storms using the Hubble Space Telescope](#), *J. Geophys. Res.*, 102, 1679-1692, 1997.
13. Warren, J.W., K. Peacock, E.H. Darlington, S.L. Murchie, S.F. Oden, and [J.F. Bell III](#), [Near infrared spectrometer for the Near Earth Asteroid Rendezvous Mission](#), *Space Science Reviews*, 82, 101-167, 1997.
12. Veverka, J., [J.F. Bell III](#), P. Thomas, A. Harch, S. Murchie, S.E. Hawkins III, J.W. Warren, H. Darlington, K. Peacock, C.C. Chapman, L.A. McFadden, M.C. Malin, and M.S. Robinson, [An overview of the NEAR Multispectral Image \(MSI\)–Near Infrared Spectrometer \(NIS\) Investigation](#), *J. Geophys. Res.*, 102, 23709-23728, 1997.
11. Ockert-Bell, M.E., [J.F. Bell III](#), C.P. McKay, J.B. Pollack, and F. Forget, [Absorption and scattering properties of the Martian atmospheric dust in the solar wavelengths](#), *J. Geophys. Res.–Planets*, 102, 9039-9050, 1997.
10. Morris, R.V., D.W. Ming, D.C. Golden, and [J.F. Bell III](#), [An occurrence of jarositic tephra on Mauna Kea, Hawaii: Implications for the ferric mineralogy of the Martian surface](#), in "Mineral Spectroscopy: A Tribute to Roger G. Burns," Geochemical Society Special Publication 5 (M.D. Dyar, C. McCammon, and M.W. Schaefer, eds.), 327-336, 1996.
9. James, P.B., [J.F. Bell III](#), R.T. Clancy, S.W. Lee, L.J. Martin, and M.J. Wolff, [Global imaging of Mars by Hubble Space Telescope during the 1995 opposition](#), *J. Geophys. Res.*, 101, 18,883-18,890, 1996.
8. James, P.B., R.T. Clancy, S.W. Lee, L.J. Martin, and [J.F. Bell III](#), [Seasonal recession of Martian south polar cap: 1992 HST observations](#), *Icarus*, 123, 87-100, 1995.
7. Morris, R.V., D.C. Golden, [J.F. Bell III](#), and H.V. Lauer, Jr., [Hematite, pyroxene, and phyllosilicates on Mars: Implications from oxidized impact melt rocks from Manicougan Crater](#), Quebec, Canada, *J. Geophys. Res.*, 100, 5319-5329, 1995.
6. Roush, T.L. and [J.F. Bell III](#), [Thermal emission measurements 2000–400 cm⁻¹ \(5–25 μm\) of Hawaiian palagonitic soils and their implications for Mars](#), *J. Geophys. Res.*, 100, 5309-5319, 1995.

5. Mustard, J.F. and [J.F. Bell III](#), [New composite reflectance spectra of Mars from 0.4 to 3.14 \$\mu\text{m}\$](#) , *Geophys. Res. Lett.*, 21, 353-356, 1994.
4. Bouška, V. and [J.F. Bell III](#), [Assumptions about the presence of natural glasses on Mars](#), *J. Geophys. Res.*, 98, 18719-18726, 1993.
3. Morris, R.V., D.C. Golden, [J.F. Bell III](#), H.V. Lauer Jr., and J.B. Adams, [Pigmenting agents in Martian soils: Inferences from spectral, Mössbauer, and magnetic properties of nanophase and other iron oxides in Hawaiian palagonitic soil PN-9](#), *Geochim. Cosmochim. Acta*, 57, 4597-4609, 1993.
2. Campbell, B.A., [J.F. Bell III](#), S.H. Zisk, B. Ray Hawke and K.A. Horton, [A High Resolution Radar and CCD Imaging Study of Crater Rays in Mare Serenitatis and Mare Nectaris](#), *Proc. LPSC XXII*, 259-274, 1992.
1. Murchie, S.L., D.T. Britt, J.W. Head, S.F. Pratt, P.C. Fisher, B.S. Zhukov, A.A. Kuzmin, L.V. Ksanfomality, A.V. Zharkov, G.E. Nikitin, F.P. Fanale, D.L. Blaney, [J.F. Bell III](#), and M.S. Robinson, [Color Heterogeneity of the Surface of Phobos: Relationships to Geologic Features and Comparison to Meteorite Analogs](#), *J. Geophys. Res.*, 96, 5925-5945, 1991.

THESES

2. Bell III, J.F., ["The Ferric Mineralogy of Mars"](#), Ph.D. Dissertation, University of Hawaii at Manoa, 236 pp., 1992.
1. Bell III, J.F., ["Observations of Mars During the 1986 and 1988 Perihelic Oppositions: 0.4-2.5 \$\mu\text{m}\$ Reflectance Spectroscopy of Small Surface Regions With Emphasis on Iron Oxide Minerals"](#), Master's Thesis, University of Hawaii at Manoa, 80 pp., 1989.

ABSTRACTS AND CONFERENCE PRESENTATIONS

751. Johnson, J.R., [J.F. Bell III](#), K.M. Kinch, M. Merusi, J. Joseph, M. Rice, M. Lemmon, A. Hayes, [Mastcam-Z Spectrophotometric Observations at the Van Zyl Overlook, Jezero Crater, Mars](#), *52nd Lunar & Planetary Science Conf.*, Abstract #1253, 2022.
750. Johnson, J.R., C. Legett, R. C. Wiens, R. T. Newell, E. Cloutis, O. Forni, P. Beck, P. Pinet, L. Mandon, F. Poulet, T. McConnochie, S. Maurice, [J.F. Bell III](#), M. Rice, B. Horgan, K. Kinch, A. Hayes, [Visible Wavelength Spectroscopy \(400-1020 nm\) of Surface Materials at Jezero Crater, Mars, from Supercam and Mastcam-Z](#), *52nd Lunar & Planetary Science Conf.*, Abstract #1254, 2022.
749. Merusi, M., K.M. Kinch, M.B. Madsen, [J.F. Bell III](#), A. Hayes, C. Tate, J. Joseph, D. Applin, E. Cloutis, J.R. Johnson, [Initial Performance Assessment of the Mastcam-Z Radiometric Calibration Target on NASA's Perseverance Rover Over the First 200 Sols on Mars](#), *52nd Lunar & Planetary Science Conf.*, Abstract #1363, 2022.
748. Bailey, A.M., L.K. Mehall, E. Cisneros, [J.F. Bell III](#), K.N. Paris, E.H. Jensen, J.N. Maki, and the Mastcam-Z science and operations team, [The NASA Mars 2020 Mission Perseverance Rover Mastcam-Z Data Archive Update](#), *52nd Lunar & Planetary Science Conf.*, Abstract #1616, 2022.
747. Horgan, B., M. Rice, B. Garczynski, J. Johnson, K. Stack-Morgan, A. Vaughan, B. Wogsland, [J.F. Bell III](#), L. Crumpler, B. Ehlmann, S. Holm-Alwmark, K. Farley, S. Fagents, J.I. Núñez, G. Paar, E. Ravanis, D. Shuster, J.T. Simon, A. Udry, M. Wadhwa, R. Wiens, [Mineralogy, Morphology, and Geochronological Significance of the Mááz Formation and the Jezero Crater Floor](#), *52nd Lunar & Planetary Science Conf.*, Abstract #1680, 2022.
746. Sun, V.Z., K. P. Hand, K. M. Stack, K. A. Farley, S. Milkovich, R. Kronyak, J. I. Simon, K. Hickman-Lewis, D. Shuster, [J.F. Bell III](#), S. Gupta, C. D. K. Herd, S. Maurice, G. Paar, R. C. Wiens, and the Mars 2020 Science Team, [Exploring the Jezero Crater Floor: Overview of Results from the Mars 2020 Perseverance Rover's First Science Campaign](#), *52nd Lunar & Planetary Science Conf.*, Abstract #1798, 2022.
745. Mangold, N., S. Gupta, G. Caravaca, O. Gasnault, G. Dromart, J. D. Tarnas, S. F. Sholes, B. Horgan, C. Quantin-Nataf, A. J. Brown, S. Le Mouélic, R. A. Yingst, [J.F. Bell III](#), O. Beyssac, T. Bosak, F. Calef III, B. L. Ehlmann, K. A. Farley, J. P. Grotzinger, K. Hickman-Lewis, S. Holm-Alwmark, L. C. Kah, J. Martinez-Frias, S. M. McLennan, S. Maurice, J. I. Núñez, A. M. Ollila, P. Pilleri, J. W. Rice Jr., M. Rice, J. I. Simon, D. L. Shuster, K. M. Stack, V. Z. Sun, A. H. Treiman, B. P. Weiss, R. C. Wiens, A. J. Williams, N. R. Williams, K. H. Williford, [Significance of the Variations in Fluvial Input Within Jezero Crater from Perseverance Rover Observations](#), *52nd Lunar & Planetary Science Conf.*, Abstract #1814, 2022.
744. Kanine, M.K., B. L. Ehlmann, C. Tate, S. Gupta, J. Grotzinger, J.N. Reahl, G. Paar, T. Ortner, L.C. Kah, S.F. Sholes, and [J.F. Bell III](#), [Using Orbital and Rover Imagery to Reconstruct the History of Jezero Crater Lake from 3D Digital Topography](#), *52nd Lunar & Planetary Science Conf.*, Abstract #1854, 2022.
743. Hickman-Lewis, K., K.C. Benison, T. Bosak, B.A. Cohen, A.D. Czaja, V. Debaille, E.M. Hausrath, C.D.K. Herd, L.E. Mayhew, M.A. Sephton, D.L. Shuster, S. Siljeström, J.I. Simon, B.P. Weiss, M.-P. Zorzano, S.

- Shkolyar, J.F. Bell III, L.C. Kah, J.M. Madariaga, M. Wadhwa, K.P. Hand, V.Z. Sun, [Perseverance Rover Sampling Activities at South Séítah, Jezero Crater](#), *52nd Lunar & Planetary Science Conf.*, Abstract #1965, 2022.
742. Maki J.N., J.F. Bell III, G.L. Mehall, M.A. Ravine, M.A. Caplinger, K.N. Saxton, K.M. Kinch, M.B. Madsen, M. Rice, E. Cisneros, B.L. Ehlmann, A. Hayes, B. Horgan, E. Jensen, J.R. Johnson, K. Paris, A. Winhold, B. Betts, M.J. Wolff, A. Bailey, M. Barrington, E. Cloutis, N. Cluff, A. Coates, A. Colaprete, P. Corlies, K. Crawford, R. Deen, K. Edgett, S. Fagents, S.Z. Fleron, J. Grotzinger, K. Gwinner, M.D. Hansen, C. Hardgrove, K. Herkenhoff, R. Jaumann, M. Lemmon, L. Mehall, J. I. Núñez, G. Paar, M. Caballo-Perucha, F. Preusker, M.S. Robinson, C. Rojas, N. Schmitz, N. Stein, R. Sullivan, C. Tate, A. Vaughan, C. Million, M. St. Clair, J. Proton, M. Merusi, [Mastcam-Z in Jezero Crater: Overview and Status Update](#), *52nd Lunar & Planetary Science Conf.*, Abstract #2441, 2022.
741. Maki, J.N., J.F. Bell III, C. Donaldson, N. Ruoff, A. Culver, T. Green, A. Lidawer, M. Lambert, J. Van Beek, N. Williams, J. Ryan, C.D.K Herd, J. Carsten, R. Howson, E. Jensen, [Mars 2020 Sample Core Imaging](#), *52nd Lunar & Planetary Science Conf.*, Abstract #2502, 2022.
740. Rice, M.S., J. R. Johnson, C. C. Million, M. St. Clair, B. N. Horgan, A. Vaughan, J. I. Núñez, B. Garczynski, S. Curtis, K. M. Kinch, A. Hayes, and J. F. Bell III, [Summary of Mastcam-Z visible to near infrared \(VNIR\) multispectral observations from Perseverance's mission in Jezero crater, Mars](#), *52nd Lunar & Planetary Science Conf.*, Abstract #2559, 2022.
739. Núñez, J.I., J. R. Johnson, B. N. Horgan, M. S. Rice, A. Vaughan, C. Tate, G. Paar, S. Fagents, S. Gupta, K. M. Kinch, C. C. Million, M. St. Clair, L.C. Kah, J. Maki, J.F. Bell III, and the Mastcam-Z Team, [Stratigraphy and mineralogy of the deposits within Séítah region on the floor of Jezero crater, Mars as seen with Mastcam-Z](#), *52nd Lunar & Planetary Science Conf.*, Abstract #2937, 2022.
738. Garczynski, B.J., J.F. Bell III, B.H.N. Horgan, J.R. Johnson, M.S. Rice, A. Vaughan, J.I. Nuñez, C.D.K Herd, [Perseverance and the Purple Coating: A Mastcam-Z Multispectral Story](#), *52nd Lunar & Planetary Science Conf.*, Abstract #2346, 2022.
737. Gupta, S., N. Mangold, J.F. Bell, III, O. Gasnault, G. Dromart, J. D. Tarnas, S. F. Sholes, B. Horgan, C. Quantin Nataf, A. J. Brown, S. Le Mouélic, R. A. Yingst, O. Beyssac, T. Bosak, F. Calef, III, G. Caravaca, B. L. Ehlmann, K. A. Farley, J. P. Grotzinger, K. Hickman-Lewis, S. Holm-Alwmark, L. C. Kah, M.K. Kanine, J. Martinez-Frias, S. M. McLennan, S. Maurice, J. I. Nuñez, A. M. Ollila, G. Paar, P. Pilleri, J. W. Rice, Jr., M. Rice, J. I. Simon, D. L. Shuster, K. M. Stack, V. Z. Sun, A. H. Treiman, B. P. Weiss, R. C. Wiens, A. J. Williams, N. R. Williams, K. H. Williford, [A Delta-Lake System at Jezero Crater \(Mars\) from Long Distance Observations](#), *52nd Lunar & Planetary Science Conf.*, Abstract #2295, 2022.
736. Brown, A.J., R.C. Wiens, S. Maurice, K. Uckert, M. Tice, D. Flannery, R.G. Deen, A.H. Treiman, K. L. Siebach, L.W. Beegle, W.J. Abbey, J.F. Bell III, L.E. Mayhew, J.I. Simon, O. Beyssac, P.A. Willis, R. Bhartia, R.J. Smith, T. Fouchet, C. Quantin-Nataf, P. Pinet, L. Mandon, S. Le Mouélic, A. Udry, B. Horgan, F. Calef, E. Cloutis, N. Turenne, C. Royer, M.-P. Zorzano, E. Ravanis, S. Fagents, A. Fairen, S. Gupta, V. Sautter, Y. Liu, M. Schmidt, K. Hickman-Lewis, L. C.Kah, [A Komatiite Succession as an Analog for the Olivine Bearing Rocks at Jezero](#), *52nd Lunar & Planetary Science Conf.*, Abstract #1406, 2022.
735. Jodhpurkar, M.J. and J.F. Bell III, [Mapping and Interpreting Putative Deltaic Deposits Across the Martian Surface](#), *52nd Lunar & Planetary Science Conf.*, Abstract #2905, 2022.
734. Jacob, S.R., J.F. Bell III, E. Cloutis, E.B. Rampe, M. Rice, J.V. Clark, B. Sutter, and J.R. Johnson, [Laboratory and Modeling Results to Decipher Changes in Recent Curiosity Mastcam Multispectral Data from Drill Targets in the Clay/Sulfate Transition Zone](#), *52nd Lunar & Planetary Science Conf.*, Abstract #2636, 2022.
733. Simon, J., I., H.E.F. Amundsen, L.W. Beegle, J.F. Bell III, K.C. Benison, E.L. Berger, T. Bosak, T.M. Casademont, A.D. Czaja, B.A. Cohen, V. Debaille, A.G. Fairen, K.A. Farley, A.C. Fox, Y. Goreva, K. Hand, S.-E. Hamran, E.M. Hausrath, C.D.K. Herd, B. Horgan, J. Hurowitz, C.H. Lee, L. Mandon, S. Maurice, J.M. Madariaga, L.E. Mayhew, S. McLennan, R.C. Moeller, E.L. Scheller, S. Sharma, S. Siljeström, V.Z. Sun, D.L. Shuster, K.M. Stack, A. Udry, S. VanBommel, M. Wadhwa, B.P. Weiss, R. Wiens, A. Williams, P.A. Willis, M.-P. Zorzano, and the Mars 2020 Team, [Sampling of Jezero Crater Mááz Formation by Mars 2020 Perseverance Rover](#), *52nd Lunar & Planetary Science Conf.*, Abstract #1294, 2022.
732. Golombek, M., N. Williams, H. Grip, T. Tzanetos, J. Balaram, J. Maki, R. Deen, F. Ayoub, M. Mischna, M. Deahn, C. Brooks, E. Romashkova, J. Tarnas, T. Del Sesto, L. Crumpler, R. Sullivan, and J.F. Bell III, [Mars Helicopter, Ingenuity: Operations and Initial Results](#), *52nd Lunar & Planetary Science Conf.*, Abstract #2156, 2022.
731. Lucchetti, A., C. Tubiana, T. Roatsch, R. Hueso, T. Denk, J. Schmidt, R.M.C. Lopes, D. Williams, J.F. Bell III, N. Schneider, L. M. Lara, K. Gwinner, K. Stephan, F. Tosi, A. Aboudan, T. Bilotta, G. Cremonese, V. Della Corte, A. Dattolo, S. Hviid, V. Mertens, K.-D. Matz, R. Politi, R. Schrödter, F. Trauthan, M. Zusi, P.

- Palumbo, and the JANUS team, [The Janus Camera Onboard ESA JUICE Mission: The Science Planning Strategy](#), *52nd Lunar & Planetary Science Conf.*, Abstract #2144, 2022.
730. Mezilis, J.A., W. Hovik, K. Zacny, D. Bergman, [J.F. Bell III](#), D.C. Jacobs, C. McCormick, M. Adkins, J. Das, H. Anand, A. Masud, L.G.P. Antervedi, D. Mick, and K. Davis, [Lunar ExoCam 2021 Payload Test Flight Report](#), *52nd Lunar & Planetary Science Conf.*, Abstract #1237, 2022.
729. Wolff, M.J., M.T. Lemmon, T. Bertrand, S. Guzewich, M.D. Smith, [J.F. Bell III](#), G. Paar, and A. Bechtold, [Characterizing Aerosol Particle Sizes at Jezero Crater Using the NASA Mars 2020 Perseverance Rover Mastcam-Z Imaging System](#), AGU Fall Meeting, 13-17 December, Abstract ID P32C-03, 2021.
728. Olkin, C., H.F. Levison, H.A. Weaver Jr., J.M. Sunshine, A. Stern, J.R. Spencer, A.A. Simon, J. Salmon, D. Reuter, M. Paetzold, K.S. Noll, S. Mottola, S. Marchi, C. Howett, V.E. Hamilton, W.M. Grundy, J. Emery, N. Dello Russo, P.R. Christensen, M.W. Buie, M.E. Brown, D.T. Britt, W.F. Bottke Jr., R.P. Binzel, B. Bierhaus, and [J.F. Bell III](#), [An Overview of NASA's Lucy Mission: First to the Trojans](#), AGU Fall Meeting, 13-17 December, Abstract ID P32B-01, 2021.
727. Núñez, J.I., B.H.N. Horgan, M.S. Rice, S. Gupta, N. Mangold, [J.F. Bell III](#), K.M. Kinch, J.R. Johnson, C. Tate, A.F. Vaughan, S.Z. Fleron, C. Million, M. St. Clair, and the Mars 2020 Mastcam-Z Team, [Spectral diversity in the Western Delta Fan exposures in Jezero crater, Mars, as seen with Mastcam-Z on the Perseverance rover mission](#), AGU Fall Meeting, 13-17 December, Abstract ID P25I-2264, 2021.
726. Garczynski, B., [J.F. Bell III](#), M.S. Rice, B.H. N. Horgan, J.R. Johnson, A. Vaughan, J.I. Núñez, and M. Hansen, [Characterizing Potential Rock Coatings at the Perseverance Rover Landing Site: A Multispectral Analysis with Mastcam-Z](#), AGU Fall Meeting, 13-17 December, Abstract ID P25I-2249, 2021.
725. Vaughan, A.F., M.S. Rice, B.H.N. Horgan, J.R. Johnson, [J.F. Bell III](#), J.I. Núñez, B. Garczynski, J. Mollerup, C. Million, M. St. Clair, and A.J. Brown, [Mastcam-Z View of Regolith at Jezero Crater: Textural and Spectral Properties](#), AGU Fall Meeting, 13-17 December, Abstract ID P25I-2245A, 2021.
724. Johnson, J.R., E. Cloutis, R.C. Wiens, S. Maurice, [J.F. Bell III](#), M.S. Rice, B.H.N. Horgan, M.D. Heck, S. Jacob, and C. Seeger, [Visible/Near-infrared Reflectance Spectra of Drill Tailings in the Central Glen Torridon and Mont Mercou areas, Gale Crater, Mars](#), AGU Fall Meeting, 13-17 December, Abstract ID P25C-2176, 2021.
723. Jodhpurkar, M. and [J.F. Bell III](#), [Characterizing Putative Deltaic Deposits Across the Martian Surface](#), AGU Fall Meeting, 13-17 December, Abstract ID P25A-06, 2021.
722. Jacob, S., [J.F. Bell III](#), and M.S. Rice, [The search for sulfates: Using Mastcam visible to near-infrared spectroscopy to identify sulfates and other hydrated minerals in Gale crater, Mars](#), AGU Fall Meeting, 13-17 December, Abstract ID P24A-06, 2021.
721. Fraeman, A.A., M.N. Hughes, C. Seeger, R. Sheppard, S. Jacob, J.R. Johnson, R.E. Arvidson, M.S. Rice, and [J.F. Bell III](#), [Spectral Properties of Diagenetic Features Near the Clay-Sulfate Transition in Mt. Sharp](#), AGU Fall Meeting, 13-17 December, Abstract ID P24A-05, 2021.
720. Bell III, J.F., J. Maki, A. Bailey, P. Caballo-Perucha, M.A. Caplinger, F. Cary, C.M. Caudill, E. Cisneros, E. Cloutis, N. Cluff, P. Corlies, K. Crawford, R.G. Deen, D. Dixon, C. Donaldson, K.S. Edgett, B.L. Ehlmann, M. Barrington, S.A. Fagents, S. Fleron, B. Garczynski, J.P. Grotzinger, M. Hansen, D. Harker, A. Hayes, K.E. Herkenhoff, S. Holm-Alwmark, B.H.N. Horgan, R. Howson, J. Huggett, S. Jacob, E. Jensen, M. Jodhpurkar, J.R. Johnson, C. Juarez, L.C. Kah, K.M. Kinch, J. Kristensen, T. Kubacki, M.T. Lemmon, M.B. Madsen, A. Magee, M. Maimone, G. Mehall, L. Mehall, M. Merusi, C. Million, J. Mollerup, J.I. Núñez, G. Paar, K. Paris, F. Preusker, J. Proton, E.M. Ravanis, J. Rice³, M.S. Rice, C. Rojas, K. Saxton, E.L. Scheller, N. Schmitz, C. Seeger, M. Starr, N. Stein, M. St. Clair, R.J. Sullivan Jr., C. Tate, N. Turenne, J. Van Beek, A. Vaughan, A. Winhold, M.J. Wolff, and W. Yingling, [Geologic and Textural Variability of Surface Materials in Jezero Crater as Observed by the NASA Mars 2020 Perseverance Rover Mastcam-Z Instruments](#), AGU Fall Meeting, 13-17 December, Abstract ID P21B-04, 2021.
719. Mangold, N., S. Gupta, O. Gasnault, G. Dromart, J.D. Tarnas, S. Sholes, B.H.N. Horgan, C. Quantin Nataf, A.J. Brown, S. Le Mouelic, R.A. Yingst, [J.F. Bell III](#), O. Beyssac, T. Bosak, F.J. Calef III, B.L. Ehlmann, K.A. Farley, J.P. Grotzinger, K. Hickman-Lewis, S. Holm-Alwmark, L.C. Kah, J. Martínez-Frías, S.M. McLennan, S. Maurice, J.I. Núñez, A. Ollila, P. Pilleri, J. Rice, M.S. Rice, J.I. Simon, D.L. Shuster, K. Stack, V.Z. Sun, A.H. Treiman, B.P. Weiss, R.C. Wiens, A.J. Williams, N.R. Williams, K.H. Williford, and the Mars 2020 Science Team, [Observations of the Jezero Crater Delta Front by Perseverance Cameras](#), AGU Fall Meeting, 13-17 December, Abstract ID P21B-03, 2021.
718. Farley, K.A., [J.F. Bell III](#), T. Bosak, S. Gupta, K.P. Hand, C.E. Newman, D.L. Shuster, K. Stack, B.P. Weiss, K.H. Williford, and R.C. Wiens, [Ten months of Perseverance on Mars](#), AGU Fall Meeting, 13-17 December, Abstract ID P21B-01, 2021.
717. Johnson, J.R., [J.F. Bell III](#), M.T. Lemmon, and S. Jacob, [Mars Science Laboratory Visible/Near-Infrared Spectrophotometric Observations in the Glen Torridon, Edinburgh, and Mont Mercou regions, Gale Crater, Mars](#), AGU Fall Meeting, 13-17 December, Abstract ID EP55A-1108, 2021.

716. Wadhwa, M., J.L Swann, D.A. Williams, A.D. Anbar, C. Mead, [J.F. Bell III](#), G. Asner, K. Bossert, and E.L. Shkolnik, [The NASA SMD Community Of Practice For Education \(SCoPE\): A New Science Activation Program Integration Project To Connect SMEs With NASA SciAct](#), AGU Fall Meeting, 13-17 December, Abstract ID ED21A-02, 2021.
715. Thomas, D., [J.F. Bell III](#), L. Papsidero, L. Levin, L. Champion, and the MILO Space Science Institute, The innovation challenge: a new approach to payload development, International Astronautical Congress, presentation IAC-21.E1.IP.9, Dubai, UAE, 25-29 October, 2021.
714. Gupta, S., N. Mangold, G. Dromart, O. Gasnault, S. Le Mouelic, and [J.F. Bell III](#), [Evidence for a Delta-Lake System and Ancient Flood Deposits at Jezero Crater, Mars, from the Perseverance Rover](#), Geological Society of America Annual Meeting, Abstract #14-3, vol. 53, No. 6, Portland, OR, 10-13 October, 2021.
713. Sun, V., K.P. Hand, K.A. Farley, K. Stack Morgan, K.H. Williford, S. Milkovich, R. Kronyak, [J.F. Bell III](#), D. Shuster, and J.I. Simon, [Exploring the Jezero Crater Floor: The Mars 2020 Perseverance Rover's First Science Campaign](#), Geological Society of America Annual Meeting, Abstract #14-6, vol. 53, No. 6, Portland, OR, 10-13 October, 2021.
712. Calef III, F., S. Alwmark, H.E.F. Amundsen, A. Bechtold, [J.F. Bell III](#), C. Quantin, H. Dypvik, S.-E. Hamran, N. Schmitz, J.I. Simon, and K.M. Stack, [Visiting a Fresh Crater in Jezero With Tte Mars 2020 Perseverance Rover](#), Geological Society of America Annual Meeting, Abstract #14-10, vol. 53, No. 6, Portland, OR, 10-13 October, 2021.
711. Rice, M., B. Horgan, J. Johnson, [J.F. Bell III](#), A. Vaughan, M. St. Clair, C. Million, K. Kinch, and J. Nuñez, [Rock Diversity on the Floor of Jezero Crater Observed in Mastcam-Z Multispectral Images from the Perseverance Rover](#), Geological Society of America Annual Meeting, Abstract #14-12, vol. 53, No. 6, Portland, OR, 10-13 October, 2021.
710. Horgan, B., M. Rice, L. Kah, S. Gupta, N. Mangold, [J.F. Bell III](#), K. Kinch, J. Johnson, C. Million, J. Nuñez, G. Paar, M. St. Clair, C. Tate, A. Vaughan, E. Ravanis, S.A. Fagents, and A. Brown, [Linking Mastcam-Z Multispectral Imaging from the Perseverance Rover to Orbital Geology in Jezero Crater: Implications for the Origin of the Crater Floor](#), Geological Society of America Annual Meeting, Abstract #14-13, vol. 53, No. 6, Portland, OR, 10-13 October, 2021.
709. Williams, D., L.T. Elkins-Tanton, [J.F. Bell III](#), K. Krohn, K. Otto, R. Jaumann, and C.T. Russell, [The Geological Exploration of \(16\) Psyche: Investigation of a Metal World](#), Geological Society of America Annual Meeting, Abstract #200-1, vol. 53, No. 6, Portland, OR, 10-13 October, 2021.
708. Jodhpurkar, M. and [J.F. Bell III](#), [Mapping and Interpreting the Northern Fan Deposits in Jezero Crater, Mars](#), Geological Society of America Annual Meeting, Abstract #240-8, vol. 53, No. 6, Portland, OR, 10-13 October, 2021.
707. Crowther, B., J.R. Rogers, J.M. Rodgers, M.A. Ravine, [J.F. Bell, III](#), J.N. Maki, and J.D. Laramée, [Optical Design of the Mastcam-Z Lenses](#), International Optical Design Conference (virtual), Optical Society of America Optical Design and Fabrication Congress, abstract IM4A.2, June 29, 2021.
706. Bailey, A.M., L.K. Mehall, E. Cisneros, [J.F. Bell III](#), K.N. Paris, E.H. Jenson, J.N. Maki, and the Mastcam-Z science and operations team, [The NASA Mars 2020 mission Perseverance rover Mastcam-Z data archive](#), 5th Planetary Data Workshop (PDW) and 2nd Planetary Science Informatics & Data Analytics (PSIDA) meeting, Lunar & Planetary Institute, Abstract #7038, June 28–July 2, 2021.
705. Kerner, H., K. Wagstaff, S. Lu, R. Francis, G. Doran, P. Horton, S. Kulshrestha, S. Jacob, and [J.F. Bell III](#), [Novelty-guided onboard targeting and tactical planning for Mars rovers](#), virtual conference on Applications of Statistical Methods and Machine Learning in the Space Sciences, hosted by the Space Sciences Institute, May 17-21, 2021.
704. Bell III, J.F., J. N. Maki, G. L. Mehall, M. A. Ravine, M. A. Caplinger, K. N. Saxton, K. M. Kinch, M. B. Madsen, B. Betts, E. Cisneros, B. L. Ehlmann, A. Hayes, B. Horgan, E. Jensen, J. R. Johnson, K. Paris, M. Rice, A. Winhold, M. J. Wolff, A. Bailey, M. Barrington, E. Cloutis, N. Cluff, A. Coates, A. Colaprete, P. Corlies, K. Crawford, R. Deen, K. Edgett, S. Fagents, J. Grotzinger, K. Gwinner, C. Hardgrove, K. Herkenhoff, R. Jaumann, M. Lemmon, L. Mehall, J. I. Nunez, G. Paar, M. Caballo-Perucha, F. Preusker, M. S. Robinson, C. Rojas, N. Schmitz, N. Stein, R. Sullivan, C. Tate, and A. Vaughan, [Anticipated Initial Results from the NASA Mars 2020 Perseverance Rover Mastcam-Z Multispectral, Stereoscopic Imaging Investigation](#), *52nd Lunar & Planetary Science Conf.*, Abstract #2181, 2021.
703. Ehlmann, B.L., [J.F. Bell III](#), A. Brown, B. Horgan, J.A. Hurowitz, P. Kelemen, N. Mangold, L. Mayhew, C. Quantin, W. Rapin, J. Razzell Hollis, E. Scheller, D. Shuster, K. Stack, V. Sun, J. Tarnas, and A. Treiman, [Mineralogy from Mars-2020: Updates to the Regional Geological History of Jezero Crater, its Watershed, and a Framework for Perseverance Exploration](#), *52nd Lunar & Planetary Science Conf.*, Abstract #1721, 2021.
702. Jodhpurkar, M. and [J.F. Bell III](#), [Mapping and Interpreting the Northern Fan Deposit in Jezero Crater, Mars](#), *52nd Lunar & Planetary Science Conf.*, Abstract #2252, 2021.

701. Bell III, J.F., L. Papsidero, J. W. Ware, J. W. Rice Jr., T. Linn, T. S. J. Gabriel, D. Thomas, S. Smas, and the MILO Space Science Institute, Apophis Pathfinder: A Smallsat Mission to Characterize the Potentially Hazardous Asteroid (99942) Apophis, *52nd Lunar & Planetary Science Conf.*, Abstract #2110, 2021.
700. Johnson, J.R., E. Cloutis, R. Wiens, S. Maurice, [J.F. Bell III](#), S. Jacob, M. Thorpe, E.B. Rampe, C. Seeger, M.S. Rice, and B.H.N. Horgan, [Visible/Near-infrared Reflectance Spectra of Drill Tailings in the Glen Torridon and Greenheugh Pediment areas, Gale Crater, Mars](#), AGU Fall Meeting (Virtual), 1-17 December, Abstract ID P069-0008, 2020.
699. Jacob, S.R., D.F. Wellington, [J.F. Bell III](#), C. Achilles, A.A. Fraeman, B. Horgan, J.R. Johnson, S. Maurice, G.H. Peters, E.B. Rampe, L.M. Thompson, and R.C. Wiens, [Mastcam Multispectral Results from Vera Rubin Ridge and Laboratory Studies to Support and Enhance the Interpretation of Multispectral Data from the Curiosity rover](#), AGU Fall Meeting (Virtual), 1-17 December, Abstract ID P006-0003, 2020.
698. Dibb, S.D., [J.F. Bell III](#), L.T. Elkins-Tanton, and D.A. Williams, [Further constraints on the surface composition of asteroid \(16\) Psyche using laboratory reflectance spectroscopy and implications for the NASA Psyche mission's Multispectral Imager](#), AGU Fall Meeting (Virtual), 1-17 December, Abstract ID P006-0001, 2020.
697. Nerrise, F., H.R. Kerner, K. Wagstaff, S. Lu, R. Francis, U. Rebbapragada, and [J.F. Bell III](#), [Evaluation of Machine Learning Methodologies for Novelty-based Target Selection in Planetary Imaging Data Sets: Examples from the Mars Science Laboratory Mission](#), AGU Fall Meeting (Virtual), 1-17 December, Abstract ID P004-0007, 2020.
696. Hardgrove, C.J., R.D. Starr, T.H. Prettyman, I. Lazbin, E.B. Johnson, B. Roebuck, J. DuBois, N. Struebel, A. Colaprete, P. Hailey, D. Nelson, J. Knittel, M. Tsay, A. Babuscia, L. Heffern, [J.F. Bell III](#), D. Drake, A. Klesh, and S. Stem, [The Lunar Polar Hydrogen Mapper \(LunaH-Map\) Mission: Low-Altitude Hydrogen Mapping of the Lunar South Pole With a Very Small Spacecraft](#), AGU Fall Meeting (Virtual), 1-17 December, Abstract ID P060-01, 2020.
695. Bell III, J.F. L. Papsidero, and the MILO Space Science Institute, [Apophis Pathfinder: The MILO Space Science Institute's Smallsat Mission to Investigate the Potentially Hazardous Asteroid \(99942\) Apophis](#), AGU Fall Meeting (Virtual), 1-17 December, Abstract ID NH041-01, 2020.
694. Raymond C.A., [J.F. Bell III](#), R.S. Park, D. Landau, S.R. Chesley, K. Reh, P.W. Chodas, and M. Brozoviā, [Potential Mission Concepts for Characterizing the Potentially Hazardous Near-Earth Asteroid \(99942\) Apophis](#), presented at "Apophis T-9 Years: Knowledge of Opportunities for the Science of Planetary Defense Virtual Workshop," Lunar and Planetary Institute, Abstract #2048, Nov. 4-6, 2020.
693. Bell III, J.F. L. Papsidero, and the MILO Space Science Institute, [Apophis Pathfinder: A Smallsat Mission to Investigate the Potentially Hazardous Near Earth Asteroid \(99942\) Apophis](#), presented at "Apophis T-9 Years: Knowledge of Opportunities for the Science of Planetary Defense Virtual Workshop," Lunar and Planetary Institute, Abstract #2060, Nov. 4-6, 2020.
692. Bell III, J.F., M. Beasley, M.A. Caplinger, M.A. Ravine, J.A. Schaffner, M.J. Clark, J. Shamah, S. Mottola, C. Adam, and B.J. Bos, The Terminal Tracking Camera System on the NASA Lucy Trojan Asteroid Discovery Mission, IEEE Aerospace Conf., Paper number: 2196, Big Sky, Montana, March 6-13, 2021.
691. Bell III, J.F., L.T. Elkins-Tanton, C. Polanskey, E. Asphaug, D. Bercovici, B.G. Bills, R.P. Binzel, W.F. Bottke, M. Brown, S. Dibb, J. Goldsten, R. Jaumann, I. Jun, D.J. Lawrence, P. Lord, S. Marchi, T. McCoy, D. Oh, R. Oran, R. Park, P.N. Peplowski, D. Potter, T.H. Prettyman, C.A. Raymond, C.T. Russell, S. Scott, H. Stone, K.G. Sukhatme, N. Warner, B.P. Weiss, D.D. Wenkert, M. Wicczorek, D. Williams, and M.T. Zuber, [NASA's Psyche Discovery Mission: Studying Terrestrial Planet Formation by Constraining the Composition and Evolution of Main Belt Asteroid \(16\) Psyche](#), 43rd COSPAR Symposium, Scientific Commission/Panel B, Event B0.5, "Planetary Cubesats and Small Sats," Sydney, Australia, Abstract ID 26351, 28 January to 4 February, 2021.
690. Bell III, J.F., J.N. Maki, G.L. Mehall, M.A. Ravine, M.A. Caplinger, Z.J. Bailey, K.M. Kinch, M.B. Madsen, B. Betts, E. Cisneros, B.L. Ehlmann, A. Hayes, B. Horgan, E. Jensen, J.R. Johnson, K. Paris, M. Rice, A. Winhold, M.J. Wolff, M. Barrington, E. Cloutis, N. Cluff, A. Coates, A. Colaprete, P. Corlies, K. Crawford, R. Deen, K. Edgett, S. Fagents, J. Grotzinger, C. Hardgrove, K. Herkenhoff, R. Jaumann, M. Lemmon, L. Mehall, G. Paar, M. Caballo-Perucha, F. Preusker, M.S. Robinson, C. Rojas, N. Schmitz, R. Sullivan, and C. Tate, [Mastcam-Z: A Multispectral, Stereoscopic Imaging Investigation for the NASA Mars 2020 Rover](#), 43rd COSPAR Symposium, Scientific Commission/Panel B, Event B0.6, "Planetary Instruments," Sydney, Australia, Abstract ID 26640, 28 January to 4 February, 2021.
689. Bell III, J.F., L. Papsidero, T. Linn, D. Thomas, L. Levin, S. Smas & the MILO Space Science Institute, [The MILO Space Science Institute: Enabling New, Science-Focused Deep Space Smallsat Missions](#), 43rd COSPAR Symposium, Scientific Commission/Panel B, Event B0.5, "Planetary Cubesats and Small Sats," Sydney, Australia, Abstract ID 26788, 28 January to 4 February, 2021.

688. Sullivan, R.J., M. Baker, M., [J.F. Bell III](#), K.S. Edgett, and K.E. Herkenhoff, [Challenges Recognizing Aeolian Megaripple Activity in Sedimentary Rock Records, Earth and Mars](#), Geol. Soc. Am. Annual conference, Abstract ID: 358667, 2020.
687. Wagstaff, K.L., R. Francis, H. Kerner, S. Lu, F. Nerrise, [J.F. Bell III](#), G. Doran, and U. Rebbapragada, [Novelty-driven onboard targeting for Mars rovers](#), International Symposium on Artificial Intelligence, Robotics and Automation in Space (i-SAIRAS), Pasadena, CA; October 18–21, 2020.
686. Bell III, J.F., L. Papsidero, T. Linn, D. Thomas, L. Levin, S. Smas & the MILO Space Science Institute, [The MILO Space Science Institute: Enabling New, Science-Focused Deep Space Smallsat Missions](#), presented at the 2020 Stardust-R Virtual Science Workshop, Organizers: University of Pisa (Italy) and the University of Belgrade (Serbia), 8 Sept., 2020.
685. Polansky, C., L. Elkins-Tanton, [J.F. Bell III](#), R.P. Binzel, D. Lawrence, J. Merayo, R. Park, B. Weiss, and D. Williams, [Mission to \(16\) Psyche, Europlanet Science Congress](#), Abstract EPSC2020-988, 2020.
684. Bell III, J.F., L. Papsidero, T. Linn, D. Thomas, L. Levin, S. Smas & the MILO Space Science Institute, [The MILO Space Science Institute: Enabling New, Science-Focused Deep Space Smallsat Missions](#), *71st International Astronautical Congress* (Dubai, UAE), October 12-16, 2020.
683. Bell III, J.F., L. Papsidero, T. Linn, D. Thomas, L. Levin, S. Smas & the MILO Space Science Institute, [The MILO Space Science Institute: Enabling New, Science-Focused Deep Space Smallsat Missions](#), *2020 Smallsat Conference* (Ogden, UT), August 1-6, 2020.
682. Wolff, L., [J.F. Bell III](#), T. Linn, L. Levin, and J. Ware, The MILO Space Science Institute: Leveraging CLPS Through Collaboration with Lockheed Martin to Develop Lunar Science Programs, *Lunar Surface Science Workshop*, Denver, CO, April 28-30, 2020.
681. Bell III, J.F., L. Papsidero, V. Reddy, and D. Trilling, NEOshare: A Smallsat Mission to Explore the Diversity of Near-Earth Asteroids, *36th Space Symposium*, Colorado Springs, CO, March 30, 2020.
680. Bell III, J.F. and L. Papsidero, [Apophis Pathfinder: A Smallsat Mission to Investigate the Potentially Hazardous Near Earth Asteroid \(99942\) Apophis](#), submitted to *Apophis T-9 Years: Knowledge Opportunities for the Science of Planetary Defense*, Nice, France, April 23–24, 2020.
679. Rudolph, A., B. Horgan, K. Bennett, V. Fox, T. Seeger, M. Rice, J.R. Johnson, [J.F. Bell III](#), S. Jacob, and E. Rampe, [In situ Mastcam multispectral analysis of clay-rich sediments in the Glen Torridon region of Mt. Sharp, Gale crater, Mars](#), *51st Lunar & Planetary Science Conf.*, Abstract #1189, 2020.
678. Barrington, M.N., C.D. Tate, A.G. Hayes, [J.F. Bell III](#), B.N. Horgan, and M.S. Rice, [Mastcam-Z Analog Spectral Imager](#), *51st Lunar & Planetary Science Conf.*, Abstract #1595, 2020.
677. Hayes, A.G., P.M. Corlies, C. Tate, M. Barrington, [J.F. Bell III](#), J.N. Maki, A. Winhold, E. Jensen, M.A. Ravine, M.A. Caplinger, K.M. Kinch, K. Herkenhoff, J. Johnson, M. Rice, B. Horgan, O. Busborg, B. Ehlman, J. van Beek, G. Parr, and P. Caballo-Perucha, [Radiometric calibration of the Mastcam-Z cameras for Mars 2020](#), *51st Lunar & Planetary Science Conf.*, Abstract #2312, 2020.
676. Johnson, J.R., P.-Y. Meslin, [J.F. Bell III](#), R. Wiens, S. Maurice, O. Gasnault, and W. Rapin, [Progress on iron meteorite detections by the Mars Science Laboratory Curiosity rover](#), *51st Lunar & Planetary Science Conf.*, Abstract #1136, 2020.
675. Bell III, J.F., J.N. Maki, G.L. Mehall, M.A. Ravine, M.A. Caplinger, Z.J. Bailey, K.M. Kinch, M.B. Madsen, B. Betts, E. Cisneros, B.L. Ehlmann, A. Hayes, B. Horgan, E. Jensen, J.R. Johnson, K. Paris, M. Rice, A. Winhold, M.J. Wolff, M. Barrington, E. Cloutis, N. Cluff, A. Coates, A. Colaprete, P. Corlies, K. Crawford, R. Deen, K. Edgett, S. Fagents, J. Grotzinger, C. Hardgrove, K. Herkenhoff, R. Jaumann, M. Lemmon, L. Mehall, G. Paar, M. Caballo-Perucha, F. Preusker, M.S. Robinson, C. Rojas, N. Schmitz, R. Sullivan, and C. Tate, [The Mars 2020 rover Mast Camera Zoom \(Mastcam-Z\) multispectral, stereoscopic imaging investigation](#), *51st Lunar & Planetary Science Conf.*, Abstract #1305, 2020.
674. Rice, M.S., J.R. Johnson, [J.F. Bell III](#), J.N. Maki, M. Barrington, E. Cisneros, E. Cloutis, P. Corlies, N. Cluff, K. Crawford, D. Dixon, B. Ehlmann, C. Hardgrove, A. Hayes, B.N. Horgan, S. Jacob, E. Jensen, K.M. Kinch, E. Lakdawalla, K. Lapo, M.T. Lemmon, M.B. Madsen, L. Mehall, J. Mollerup, K. Paris, C. Rojas, E. Scheller, N. Schmitz, N. Scudder, C. Seeger, M. Starr, C. Tate, D. Wellington, and A. Winhold, [The Mastcam-Z filter set and plans for multispectral imaging with Mars-2020 at Jezero crater](#), *51st Lunar & Planetary Science Conf.*, Abstract #2930, 2020.
673. Mollerup, J. M.S. Rice, K. Lapo, J.R. Johnson, [J.F. Bell III](#), J.N. Maki, M. Barrington, E. Cisneros, E. Cloutis, P. Corlies, N. Cluff, K. Crawford, D. Dixon, B. Ehlmann, R. Greenberger, J.P. Grotzinger, C. Hardgrove, A. Hayes, B.N. Horgan, S. Jacob, E. Jensen, K.M. Kinch, E. Lakdawalla, M. Lemmon, M.B. Madsen, L. Mehall, K. Paris, G. Parr, C. Rojas, E. Scheller, N. Schmitz, N. Scudder, C. Seeger, M. Starr, C. Tate, D. Wellington, and A. Winhold, [Characterization of rock targets and color standards with the Mastcam-Z flight instruments](#), *51st Lunar & Planetary Science Conf.*, Abstract #2998, 2020.

672. Haber, J.T., B. Horgan, A.A. Fraeman, J.R. Johnson, S.L. Potter-McIntyre, [J.F. Bell III](#), M.S. Starr, M.S. Rice, N. Mangold, D. Wellington, and S. Jacob, [Diagenesis of an ancient lakeshore in Gale crater, Mars, from Mastcam multi-spectral images](#), *51st Lunar & Planetary Science Conf.*, Abstract #2112, 2020.
671. Jacob, S.R., D.F. Wellington, [J.F. Bell III](#), C. Achilles, A.A. Fraeman, B. Horgan, J.R. Johnson, S. Maurice, G.H. Peters, E.B. Rampe, L.M. Thompson, and R.C. Wiens, [Mastcam multispectral results from Vera Rubin Ridge and laboratory studies to support and enhance the interpretation of multispectral data from the Curiosity rover](#), *51st Lunar & Planetary Science Conf.*, Abstract #1625, 2020.
670. Dibb, S., [J.F. Bell III](#), and J.N. Maki, [Proposed Narrowband Science Filters for a Multispectral Imaging System on a Europa Lander Mission](#), in *In Situ Science and Instrumentation Workshop for the Exploration of Europa and Ocean Worlds*, JPL, Pasadena, CA, April 28–30, 2020.
669. Bell III, J.F. III, R.P. Binzel, A. Earle, C.A. Raymond, S.R. Chesley, K. Reh, R.S. Park, B. Sherwood, P.W. Chodas, L. Benner, and M. Brozovic, Science and Planetary Defense Priorities for Spacecraft Encounter Mission Concepts at (99942) Apophis During its 2029 Close Encounter with Earth, *6th IAA Planetary Defense Conference*, Abstract IAA-PDC-19-03-09, Washington DC, April 29-May 3, 2019.
668. Elkins-Tanton, L.T., [J.F. Bell III](#), H. Bercovici, B.G. Bills, D.J. Lawrence, S. Dibb, S. Marchi, T. McCoy, R. Oran, R.S. Park, P.N. Peplowski, C.A. Polanskey, T.H. Prettyman, C.T. Russell, L. Schaefer, B.P. Weiss, D. Wenkert, and M. Wiczorek, Sr., [Building a mission to an unknown body: Constraints on the composition and formation of \(16\) Psyche](#), AGU Fall Meeting, 19-13 December, Abstract U54A-06, 2019.
667. Dibb, S., [J.F. Bell III](#), L.T. Elkins-Tanton, D. Williams, R.P. Binzel, and The Psyche Mission Team, [Constraining the surface composition of asteroid \(16\) Psyche and supporting future observations from the NASA Psyche mission's Multispectral Imager using reflectance spectroscopy of metal-rich meteorites](#), AGU Fall Meeting, 19-13 December, Abstract P54B-04, 2019.
666. Hardgrove, C., R.D. Starr, T.H. Prettyman, I. Lazbin, A. Colaprete, A. Babuscia, E. Johnson, J.F. Christian, L. Heffern, and [J.F. Bell III](#), [The Lunar Polar Hydrogen Mapper \(LunaH-Map\) Mission: Revealing Hydrogen Enrichments at the Moon's South Pole](#), AGU Fall Meeting, 19-13 December, Abstract A41U-2681, 2019.
665. Kerner, H.R., K.L. Wagstaff, B.D. Bue, P.C. Gray, [J.F. Bell III](#), and H. Ben Amor, [Toward Generalized Change Detection on Planetary Surfaces with Deep Learning](#), AGU Fall Meeting, 19-13 December, Abstract IN53C-0759, 2019.
664. Bell III, J.F. and S. Smas, [The Arizona State University Space Technology and Science \("NewSpace"\) Initiative: Enhancing and Leveraging Public-Private Partnerships Between the Academic and Commercial Space Sectors](#), AGU Fall Meeting, 19-13 December, Abstract PA54B, 2019.
663. Bell III, J.F., L. Wolff, V. Reddy, D.E. Trilling, E. Cantwell, D. Thomas, L. Levin, S. Smas, and the MILO Space Science Institute, [The MILO Space Science Institute and Smallsat Missions to Explore the Diversity of Near-Earth Asteroids](#), AGU Fall Meeting, 19-13 December, Abstract A43F-07, 2019.
662. Bell III, J.F., S. Dibb, and J.N. Maki, [Geological and Astrobiological Considerations for Narrowband Science Filters on a Landed Multispectral Imaging System on Europa](#), AGU Fall Meeting, 19-13 December, Abstract P53D-3502, 2019.
661. Jacob, S., [J.F. Bell III](#), and E. Rampe, [Laboratory visible to infrared spectral investigations with hematite and iron-bearing phyllosilicates to help decipher spectral data taken by the Mars Science Laboratory Curiosity rover along the Vera Rubin ridge in Gale Crater](#), AGU Fall Meeting, 19-13 December, Abstract P33F-3496, 2019.
660. Bell III, J.F., L. Wolff, V. Reddy, D.E. Trilling, E. Cantwell, D. Thomas, L. Levin, S. Smas, and the MILO Space Science Institute, NEOShare: A Smallsat Mission to Explore the Diversity of Near-Earth Asteroids, 4th COSPAR Symposium: Small satellites for Sustainable Science and Development, Abstract #356, online at <http://www.cospar2019.org/wp-content/uploads/2019/08/COSPAR-2019-Abstracts.pdf> (p. 54), Herzliya, Israel, 4-8 November, 2019.
659. Bell III, J.F., [Remote Sensing of the Mineralogy of Mars](#), Abstract 295-1, Geological Society of America annual meeting, Phoenix, AZ, 22-25 September, 2019.
658. Bell III, J.F., [Tactical and Strategic Data Analysis Methods for Multispectral Imaging Data from Mars Rovers](#), International Geoscience and Remote Sensing (IGARSS) conference, Yokohama, Japan, Paper #1916, July 28-Aug. 2, 2019.
657. Farrand, W.H., [J.F. Bell III](#), J.R. Johnson, M.S. Rice, and A. Wang, [Color commentary: A summary of multispectral imaging results from the Spirit and Opportunity missions](#), *9th International Conference on Mars*, Abstract #6226, Pasadena, CA, July 22-25, 2019.
656. Haber, J.T., B. Horgan, A.A. Fraeman, J.R. Johnson, D. Wellington, [J.F. Bell III](#), M.S. Starr, M.S. Rice, and N. Mangold, [Mineralogy of a possible ancient lakeshore in Gale crater, Mars, from Mastcam multispectral images](#), *9th International Conference on Mars*, Abstract #6229, Pasadena, CA, July 22-25, 2019.

655. Johnson, J.R., [J.F. Bell III](#), M. Lemmon, W. Grundy, W. Liang, A. Hayes, and R. Deen, [Mars Exploration Rover Pancam spectrophotometric modeling: The final chapter](#), *9th International Conference on Mars*, Abstract #6083, Pasadena, CA, July 22-25, 2019.
654. Lemmon, M.T., S.D. Guzewich, T.H. McConnochie, G. Martínez, Á. de Vicente-Retortillo, M.D. Smith, [J.F. Bell III](#), D. Wellington, and S. Jacobs, [Martian dust particle size during the 2018 planet-encircling dust storm as measured by the Curiosity rover](#), *9th International Conference on Mars*, Abstract #6298, Pasadena, CA, July 22-25, 2019.
653. Starr, M.S., M.S. Rice, C.M. Hughes, C.H. Seeger, [J.F. Bell III](#), and D.F. Wellington, [Methodology for the creation and analysis of a comprehensive Mastcam multispectral database of Curiosity's traverse](#), *50th Lunar & Planetary Science Conf.*, Abstract #3087, 2019.
652. Wellington, D.F., P.-Y. Meslin, J. Van Beek, J.R. Johnson, R.C. Wiens, F.J. Calef III, and [J.F. Bell III](#), [Iron meteorite finds across lower Mt. Sharp, Gale Crater, Mars: Clustering and implications](#), *50th Lunar & Planetary Science Conf.*, Abstract #3058, 2019.
651. Rice, M.S., M.S. Starr, C.M. Hughes, C.H. Seeger, A.A. Fraeman, J.R. Johnson, [J.F. Bell III](#), and D.F. Wellington, [Science results from a comprehensive Mastcam spectral database for Curiosity's traverse](#), *50th Lunar & Planetary Science Conf.*, Abstract #3030, 2019.
650. Mura, A., A. Adriani, F. Tosi, R. Lopes, G. Sindoni, J.F. Bell III, G. Filacchione, S. Bolton, S. Brooks, and the JIRAM Team, [Observations of Jupiter's moon Io by Juno/JIRAM](#), *50th Lunar & Planetary Science Conf.*, Abstract #2801, 2019.
649. Farrand, W.H., J.R. Johnson, [J.F. Bell III](#), D.W. Mittlefehldt, C. Schröder, A. Tait, R.E. Arvidson, and L.C. Crumpler, [Spectral variability among rocks and soils in Perseverance Valley, Mars as observed by the Opportunity Pancam](#), *50th Lunar & Planetary Science Conf.*, Abstract #2403, 2019.
648. Lasue, J., E. Dehouck, J.R. Johnson, P. Beck, C. Freissinet, H.V. Graham, C.A. Knudson, L. Krämer Ruggiu, D.F. Wellington, [J.F. Bell III](#), K.M. Cannon, G. David, O. Forni, O. Gasnault, S. Le Mouélic, N. Mangold, P.-Y. Meslin, S. Maurice, and R.C. Wiens, [Cumberland and Rocknest analog near-infrared reflectance measurements](#), *50th Lunar & Planetary Science Conf.*, Abstract #2265, 2019.
647. Fraeman, A.A., R.E. Arvidson, B.H. Horgan, S.R. Jacob, J.R. Johnson, R.V. Morris, M.S. Rice, M.R. Salvatore, V.Z. Sun, D.F. Wellington, [J.F. Bell III](#), P. Pinet, and R.C. Wiens, [Synergistic orbital and in situ observations at Vera Rubin Ridge: Comparing CRISM and Curiosity observations](#), *50th Lunar & Planetary Science Conf.*, Abstract #2118, 2019.
646. Jacob, S.R., D.F. Wellington, [J.F. Bell III](#), G.H. Peters, A.A. Fraeman, J.R. Johnson, E.B. Rampe, T.F. Bristow, and B. Horgan, [Rock hard science: Multispectral and mineralogical investigations to understand bedrock spectral properties and strength at Vera Rubin Ridge, Gale Crater, Mars](#), *50th Lunar & Planetary Science Conf.*, Abstract #1671, 2019.
645. Dibb, S.D., [J.F. Bell III](#), D.A. Williams, L.T. Elkins-Tanton, and the Psyche mission team, [Reflectance spectra of metal-rich meteorites and implications for the Psyche discovery-class mission's Multispectral Imager](#), *50th Lunar & Planetary Science Conf.*, Abstract #1602, 2019.
644. Horgan, B., A. Fraeman, J.R. Johnson, L. Thompson, S. Jacob, D. Wellington, [J.F. Bell III](#), and J. Grotzinger, [Redox conditions during diagenesis in the Vera Rubin Ridge, Gale crater, Mars, from Mastcam multispectral images](#), *50th Lunar & Planetary Science Conf.*, Abstract #1424, 2019.
643. Johnson, J.R., E. Cloutis, A.A. Fraeman, [J.F. Bell III](#), D. Wellington, B. Horgan, E. Rampe, D. Vaniman, and P. Pinet, [Variations in visible/near-infrared hematite spectra related to grain size and Crystallinity](#), *50th Lunar & Planetary Science Conf.*, Abstract #1314, 2019.
642. Johnson, J.R., [J.F. Bell III](#), M. Lemmon, and P. Pinet, [Mastcam visible/near-infrared spectrophotometric observations of the Red Hills region of Vera Rubin Ridge](#), *50th Lunar & Planetary Science Conf.*, Abstract #1313, 2019.
641. Tognetti, L., T. Harrison, [J.F. Bell III](#), and C.M. Stuurman, [Investigating a link between scalloped depressions and topography in Utopia Planitia on Mars](#), AGU Fall Meeting, 10-14 December, Abstract P53F-3033, 2018.
640. Jacob, S., D.F. Wellington, [J.F. Bell III](#), A. Fraeman, V.Z. Sun, J.R. Johnson, B.H.N. Horgan, [Correlating Mastcam Multispectral Data and Rock Morphology to Understand Potential Links Between Ferric Spectral Features Along Vera Rubin Ridge in Gale Crater, Mars](#), AGU Fall Meeting, 10-14 December, Abstract P41A-05, 2018.
639. Adler, J., [J.F. Bell III](#), N.H. Warner, and E.Z. Noe Dobrea, [Geomorphic Map of the Catchment of Hypanis and Nandedi Valles, Mars](#), AGU Fall Meeting, 10-14 December, Abstract P31I-3822, 2018.
638. Kerner, H.R., D.F. Wellington, K. Wagstaff, S. Jacob, [J.F. Bell III](#), and H. Ben Amor, [Novelty Detection for Multispectral Planetary Images](#), AGU Fall Meeting, 10-14 December, Abstract IN14A-01, 2018.

637. Dobb, S. and [J.F. Bell III](#), [Optimized Narrowband Visible to Near-Infrared Filters for the Psyche Multispectral Imager](#), International Conference on Instrumentation for Planetary Missions 2018, Abstract #IPM-024, Berlin, Germany, Sept. 11-13, 2018.
636. Bell III, J.F. A. Winhold, M. Wolff, T. Vrakas, A. Godber, B. Nayak, N. Kalige, A. Keske, P.K. Satish, A. Roth, E. Cisneros, K. Paris, G. Paar, and P.C. Perucha, [MAZE: A Testbed Unit for the Mars 2020 Mastcam-Z Stereoscopic Multispectral Investigation](#), International Conference on Instrumentation for Planetary Missions 2018, Abstract #IPM-009, Berlin, Germany, 2018.
635. Bell III, J.F. and the Mars 2020 Payload Investigator Teams, [NASA's Mars 2020 Rover Instrument Investigations: Enabling Exploration and Sample Return from Ancient Mars](#), International Conference on Instrumentation for Planetary Missions 2018, Abstract #IPM-010, Berlin, Germany, 2018.
634. Bell III, J.F., C. Dreier, and J. Cunningham, [Science Can Be a Powerful Guidestar for Human Spaceflight](#), 42nd COSPAR General Assembly, Pasadena, CA, Abstract ID B4.2-23-18, 2018.
633. Bell III, J.F., D.F. Wellington, E. Cisneros, E. Guinness, S. Slavney, K. Kinch, R. Deen, and K. Shannon, [MSL/MASTCAM In-Flight Calibrated Images: An Improved Dataset of Radiance and Reflectance Image Products for the Planetary Data System](#), *49th Lunar & Planetary Science Conf.*, Abstract #1068, 2018.
632. Bell III, J.F. and D.F. Wellington, [Global Albedo Variations on Mars from Recent MRO/MARCI and Other Space-Based Observations](#), AGU Fall Meeting, 11-15 December, Abstract P33I-06, 2017.
631. Polansky, C.A., L.T. Elkins-Tanton, [J.F. Bell III](#), D.J. Lawrence, S. Marchi, R.S. Park, C.T. Russell, and B.P. Weiss, [Psyche Mission: Scientific Models and Instrument Selection](#), AGU Fall Meeting, 11-15 December, Abstract P33G-02, 2017.
630. Banham, S., S. Gupta, D.M. Rubin, J.A. Watkins, K.S. Edgett, D.Y. Sumner, J.P. Grotzinger, K.W. Lewis, L.A. Edgar, K. Stack, M. Day, M.G.A. Lapôtre, [J.F. Bell III](#), R.C. Ewing, N. Stein, F. Rivera-Hernandez, and A.R. Vasavada, [From lakes to sand seas: a record of early Mars climate change explored in northern Gale crater, Mars](#), AGU Fall Meeting, 11-15 December, Abstract P33F-02:, 2017.
629. Adler, J., T.N. Harrison, [J.F. Bell III](#), and D.P. Mayer, [Regional Stratigraphy from Stereo Imaging near the Hypanis Fan Deposit: Marking the Extent of the Largest Delta on Mars?](#) AGU Fall Meeting, 11-15 December, Abstract P33C-2888, 2017.
628. Liang, W., J.R. Johnson, A. Hayes, M.T. Lemmon, [J.F. Bell III](#), W.M. Grundy, and R.G. Deen, [Spectrophotometric Modeling of MAHLI Goniometer Observations](#), AGU Fall Meeting, 11-15 December, Abstract P13A-2795, 2017.
627. Johnson, J.R., [J.F. Bell III](#), A. Hayes, W. Liang, M.T. Lemmon, W.M. Grundy, and R.G. Deen, [Modeling of Mastcam Visible/Near-Infrared Spectrophotometric Observations at Yellowknife Bay](#), AGU Fall Meeting, 11-15 December, Abstract P31A-2794, 2017.
626. Horgan, B.N.H., M.S. Rice, A.A. Fraeman, D.F. Wellington, J.R. Johnson, V.K. Fox, R.E. Arvidson, and [J.F. Bell III](#), [Constraints on Aqueous Environments for Hematite Formation in Gale Crater from Mastcam and CRISM Spectra](#), AGU Fall Meeting, 11-15 December, Abstract P31A-2791, 2017.
625. McConnochie, T.H., M.D. Smith, M.J. Wolff, S.C. Bender, M.T. Lemmon, R.C. Wiens, S. Maurice, O. Gasnault, J. Lasue, P.-Y. Meslin, A.-M. Harri, M. Genzer, O. Kemppinen, G. Martinez, L.P. DeFlores, D.L. Blaney, J.R. Johnson, [J.F. Bell III](#), M.G. Trainer, F. Lefèvre, S.K. Atreya, P.R. Mahaffy, M.H. Wong, H.B. Franz, S. Guzewich, G.L. Villanueva, and A.S. Khayat, [ChemCam Passive Sky Spectroscopy at Gale Crater, Mars: Interannual Variability in Dust Aerosol Particle Size, Missing Water Vapor, and the Molecular Oxygen Problem](#), AGU Fall Meeting, 11-15 December, Abstract P23D-2746, 2017.
624. Kerner, H.R., [J.F. Bell III](#), and H. Ben Amor, [Image Quality Assessment of JPEG Compressed Mars Science Laboratory Mastcam Images using Convolutional Neural Networks](#), AGU Fall Meeting, 11-15 December, Abstract P13G-04, 2017.
623. Kwan, C., B. Budavari, M. Dao, B. Ayhan [J.F. Bell III](#), [Pansharpening of Mastcam Images](#), IEEE International Geoscience and Remote Sensing Symposium, July 23–28, Fort Worth, Texas, 2017.
622. Dao, M., Kwan, C., Ayhan, B., & [J.F. Bell III](#), [Enhancing mastcam images for Mars rover mission](#). In Advances in Neural Networks - ISNN 2017 - 14th International Symposium, ISNN 2017, Proceedings (Vol. 10262 LNCS, pp. 197-206). (Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics); Vol. 10262 LNCS). Springer Verlag. DOI: 10.1007/978-3-319-59081-3_24, 2017.
621. Hardgrove, C., [J.F. Bell III](#), R. Starr, A. Colaprete, M. Robinson, D. Drake, I. Lazbin, G. West, E.B. Johnson, J. Christian, A. Genova, D. Dunham, B. Williams, D. Nelson, A. Babuscia, P. Scowen, K.M. Cheung, A. Klesh, M. Tsay, S. Stem, E. Cisneros, H. Kerner, S.T. West, R.J. Amzler, Z. Burnham, S. Puckett, N. Barba, and M. Beasley, [LunaH-Map \(Lunar Polar Hydrogen Mapper\): Orbital Neutron Spectroscopy from a 6U CubeSat](#), Paper Number P0221, 3rd COSPAR Symposium on "Small Satellites for Space Research," Jeju Island, South Korea, 18 - 22 September 2017.

620. Bell III, J.F. and D.F. Wellington, [Local, Regional, and Global Albedo Variations on Mars from Recent Spacebased Observations: Implications For Future Human Explorers](#), Dust in the Atmosphere of Mars and its Impact on Human Exploration, Houston, Texas, Abstract #6023, Jun 13-15, 2017.
619. Horgan, B., A.A. Fraeman, M.S. Rice, [J.F. Bell III](#), D. Wellington, and J.J. Johnson, [New Constraints from CRISM and Mastcam Spectra on the Mineralogy and Origin of Mt. Sharp Geologic Units, Gale Crater, Mars](#), *48th Lunar & Planetary Science Conf.*, Abstract #3021, 2017.
618. Wellington, D.F., [J.F. Bell III](#), J.R. Johnson, M.S. Rice, A.A. Fraeman, and B. Horgan, [VIS/NIR Spectral Differences of Materials Within Gale Crater, Mars: Parameterization of MSL/Mastcam Multispectral Observations](#), *48th Lunar & Planetary Science Conf.*, Abstract #2885, 2017.
617. Farrand, W.H., J.R. Johnson, [J.F. Bell III](#), D.W. Mittlefehldt, R. Gellert, S. VanBommel, R.E. Arvidson, and C. Schröder, [Pancam Multispectral And Apxs Chemical Examination Of Rocks And Soils In Marathon Valley And Points South Along The Rim Of Endeavour Crater](#), *48th Lunar & Planetary Science Conf.*, Abstract #2453, 2017.
616. Fraeman, A.A., R.E. Arvidson, V.K. Fox, B.H. Horgan, J.R. Johnson, D. Wellington, B.L. Ehlmann, J.P. Grotzinger, J.A. Hurowitz, and [J.F. Bell III](#), [The Distribution of Iron Oxides in Lower Mt. Sharp and Implications for Past Aqueous Conditions](#), *48th Lunar & Planetary Science Conf.*, Abstract #2185, 2017.
615. Bennett, K.A., J.R. Hill, K.C. Murray, C.S. Edwards, [J.F. Bell III](#) and P.R. Christensen, [THEMIS-VIS Color and Morphologic Investigations at Gale Crater](#), *48th Lunar & Planetary Sci. Conf.*, Abstract #2153, 2017.
614. Banham, S.G., S. Gupta, D.M. Rubin, J.A. Watkins, D.Y. Sumner, J.P. Grotzinger, K.W. Lewis, K.S. Edgett, L.A. Edgar, K.M. Stack, [J.F. Bell III](#), M.D. Day, R.C. Ewing, and M.P.A. Lapotre, [The Stimson Formation: Determining the Morphology of a Dry Aeolian Dune System and its Climatic Significance in Gale Crater, Mars](#), *48th Lunar & Planetary Science Conf.*, Abstract #2014, 2017.
613. Elkins-Tanton, L.T., E. Asphaug, [J.F. Bell III](#), D. Bercovici, B.G. Bills, R.P. Binzel, W.F. Bottke, M. Brown, J. Goldsten, R. Jaumann, I. Jun, D.J. Lawrence, P. Lord, S. Marchi, T. McCoy, D. Oh, R. Park, P.N. Peplowski, C.A. Polanskey, D. Potter, T.H. Prettyman, C.A. Raymond, C.T. Russell, S. Scott, H. Stone, K.G. Sukhatme, N. Warner, B.P. Weiss, D.D. Wenkert, M. Wiczeorek, D. Williams, M.T. Zuber, [Asteroid \(16\) Psyche: Visiting A Metal World](#), *48th Lunar & Planetary Science Conf.*, Abstract #1718, 2017.
612. Adler, J.B., [J.F. Bell III](#), and T. N. Harrison, [Fluvial Stratigraphy And Regional Volcanism At Hypanis Delta, Mars](#), *48th Lunar & Planetary Science Conf.*, Abstract #1648, 2017.
611. Kerner, H.R., [J.F. Bell III](#), and H. Ben Amor, [Detecting and Characterizing Compression-Related Artifacts in Mars Science Laboratory Mastcam Images](#), *48th Lunar & Planetary Science Conf.*, Abstract #1613, 2017.
610. Johnson, J.R., E. Cloutis, A.A. Fraeman, R.C. Wiens, S. Maurice, S. Bender, [J.F. Bell III](#), and E. Rampe, [Chemcam Passive Reflectance Spectroscopy of Recent Murray Formation Drill Tailings: Oudam, Marimba, Quela, Sebina](#), *48th Lunar & Planetary Science Conf.*, Abstract #1310, 2017.
609. Wellington, D.F., [J.F. Bell III](#), J.R. Johnson, A.A. Fraeman, K.M. Kinch, A. Godber, and M.S. Rice, MSL/Mastcam Multispectral Observations of Lower Mt. Sharp Units: Spectral Evidence of Distinct Alteration Environments; AGU Fall Meeting, 12-16 December, Abstract P23B-2175, 2016.
608. Fraeman, A.A., J.R. Johnson, D.F. Wellington, R.E. Arvidson, B.L. Ehlmann, W.W. Fischer, J.P. Grotzinger, J. Hurowitz, K. Stack, [J.F. Bell III](#), E. Cloutis, S. Maurice, and R.C. Wiens, Distribution of iron oxides in lower Mt. Sharp from Curiosity and orbital datasets, and implications for their formation; AGU Fall Meeting, 12-16 December, Abstract P23B-2173, 2016.
607. Adler, J., [J.F. Bell III](#), N.H. Warner, P. Fawdon, S. Gupta, E. Sefton-Nash, P.M. Grindrod, and J. Davis, Geologic Stratigraphy, Delta Morphology, and Regional History of Hypanis Delta, Mars; AGU Fall Meeting, 12-16 December, Abstract P11E-03, 2016.
606. Bell III, J.F., J.N. Maki, G.L. Mehall, M.A. Ravine, M.A. Caplinger, and the Mastcam-Z Science and Engineering Team, [Mastcam-Z: Designing a geologic, stereoscopic, and multispectral pair of zoom cameras for the NASA Mars 2020 rover](#), 3rd International Conference on Instrumentation for Planetary Missions, Abstract #4126, 2016.
605. Farrand, W.H., [J.F. Bell III](#), J.R. Johnson, R.E. Arvidson, D.W. Mittlefehldt, S.W. Ruff, and M.S. Rice, [Multispectral VNIR observations by the Opportunity rover Pancam of multiple episodes of aqueous alteration in Marathon Valley, Endeavour crater, Mars](#), GSA annual meeting, Denver, CO, paper no. 197-13, 2016.
604. Bell III, J.F., D. Wellington, C. Hardgrove, A. Godber, M.S. Rice, J.R. Johnson, and A. Fraeman, [Multispectral Imaging of Mars from the Mars Science Laboratory Mastcam Instruments: Spectral Properties and Mineralogic Implications Along the Gale Crater Traverse](#), AAS/DPS 2016 Annual Meeting, Abstract #500.05, 2016.
603. Kerner, H., C. Hardgrove, [J.F. Bell III](#), R. Amzler, A. Babuscia, M. Beasley, Z. Burnham, and K.-M. Cheung, The Lunar Polar Hydrogen Mapper (LunaH-Map) CubeSat Mission, SmallSat 2016, Aug. 6-11, 2016.
602. Elkins-Tanton, L.T., E. Asphaug, J. Bell, D. Bercovici, B. H. Bills, R. P. Binzel, W. F. Bottke, J. Goldstein, R. Jaumann, I. Jun, D. J. Lawrence, S. Marchi, D. Oh, R. Park, P. N. Peplowski, C. A. Polanskey, T. H.

- Prettyman, C. A. Raymond, C. T. Russel, B. P. Weiss, D. D. Wenkert, M. Wiczorek, M. T. Zuber, [Asteroid \(16\) Psyche: The Science of Visiting a Metal World](#), *47th Lunar & Planetary Science Conf.*, Abstract #1631, 2016.
601. Hardgrove, C., J. Bell, R. Starr, T. Colaprete, M. Robinson, D. Drake, I. Lazbin, G. West, E. Johnson, J. Christian, A. Genova, D. Dunham, D. Williams, D. Nelson, A. Banuscia, P. Scowen, K. M. Cheung, A. Klesh, H. Kerner, A. Deran, R.J. Amzler, Z. Burnham, J. Lightholder, P. Wren, A. Godber, M. Beasley, [The Lunar Polar Hydrogen Mapper \(Lunah-Map\) Cubesat Mission](#), *47th Lunar & Planetary Science Conf.*, Abstract #2654, 2016,
600. Jakobsen, S.J., K. Kinch, M. Madsen, J.F. Bell III, D. Wellington, A. Godber, N. Bohr, [An Excess Signal in the Tail of the PSF Observed in the Pancam R7 Filter on Board the Mars Exploration Rovers: Characterisation and Correction](#), *47th Lunar & Planetary Science Conf.*, Abstract #2631, 2016,
599. Maurice, S., R.C. Wiens, W. Rapin, D. Mimoun, X. Jacob, B. Betts, J.F. Bell III, S.M. Clegg, A. Cousin, O. Forni, O. Gasnault, J. Lasue, P.-Y Meslin, [A Microphone Supporting Libs Investigation on Mars](#), *47th Lunar & Planetary Science Conf.*, Abstract #3044, 2016
598. Reynolds, M.J. II, M.S. Rice, J.R. Johnson, J.F. Bell III, and G. Studer-Ellis, [MER Spirit Albedo Observations: Insights to Surface Processes and Atmospheric Phenomena at Gusev Crater](#), Mars. *47th Lunar & Planetary Science Conf.*, Abstract #1804, 2016
597. Farrand, W.H., J.R. Johnson, J.F. Bell III, and D.W. Mittlefehldt, [VNIR Multispectral Observations of Rocks at Spirit of St. Louis Crater and Marathon Valley on the Rim of Endeavour Crater Made by the Opportunity Rover Pancam](#), *47th Lunar & Planetary Science Conf.*, Abstract #1983, 2016.
596. Bennet, K. A., L. Fenton, and J.F. Bell III, [The Albedo of Martain Dunes-Insights into Dune Migration and Wind Regimes](#), *47th Lunar & Planetary Science Conf.*, Abstract #2389, 2016.
595. Williams, N.R., J.F. Bell III, M Shirzaei, T. R. Waters, M. E. Banks, K. Daud, and R. A. French, [Evidence for Active Tectonism at the Lunar Surface](#), *47th Lunar & Planetary Science Conf.*, Abstract #2808, 2016.
594. Mann, P., E.A. Cloutis, J.F. Bell III, R.C Wiens, J.R. Johnson, and C. Durell, [The Stability of Spectralon. A Potential Calibration Reference For Mars 2020](#), *47th Lunar & Planetary Science Conf.*, Abstract #2362, 2016.
593. Bell III, J.F., L.T. Elkins-Tanton, C. Polanskey, M.A. Ravine, M.A. Caplinger, E. Asphaug, D. Bercovici, B. Bills, R.P. Binzel, W. Bottke, R. Jaumann, S. Marchi, R.S. Park, C.A. Raymond, D. Wenkert, M. Wiczorek, B. Weiss, and M. Zuber, [The Psyche Multispectral Imager Investigation: Characterizing the Geology, Topography, and Compositional Properties of a Metallic World](#), *47th Lunar & Planetary Science Conf.*, Abstract #1366, 2016.
592. Gupta, S., E. Sefton-Nash, J. Adler, M. Rice, P. Fawdon, N.H. Warner, P. Grindrod, J. Davis, M. Balme, J.F. Bell III, C. Stetson, and J. Richard, [The Hypanis fluvial-deltaic-lacustrine system in Xanthe Terra: A candidate exploration zone for the first human landing on Mars](#), NASA First Landing Site/Exploration Zone Workshop for Human Missions to the Surface of Mars, Abstract #1051, October 27–30, 2015.
591. Horgan, B., K. Bennett, L. Gaddis, B. Greenhagen, C. Allen, P. Hayne, J.F. Bell III, and D. Paige, [Complex Explosive Volcanic Activity on the Moon in Oppenheimer Crater](#), AGU Fall Meeting, 14-18 December, Abstract #85585, P31H-03, 2015.
590. Wellington, D. J.F. Bell III, J.R. Johnson, K. Kinch, M.S. Rice, C. Hardgrove, and A. Godber, [Insights Into the Mineralogic Diversity of Lower Mount Sharp Units from Mars Science Laboratory Mastcam Multispectral Observations](#), AGU Fall Meeting, 14-18 December, Abstract #85585, P43B-2126, 2015.
589. Johnson, J.R., J.F. Bell III, A. Hayes, R. Deen, A. Godber, R. Arvidson, and M. Lemmon, Recent Mastcam and MAHLI Visible/Near-Infrared Spectrophotometric Observations: Pahrump Hills to Marias Pass, AGU Fall Meeting, 14-18 December, Abstract #85585, P43B-2125, 2015.
588. Studer-Ellis, G., M. Rice, J. Johnson, and J.F. Bell III, Surface Albedo Variations Across Opportunity's Traverse in Meridiani Planum, AGU Fall Meeting, 14-18 December, Abstract #85585, P53D-2153, 2015.
587. Bell III, J.F., C. Olkin, J. Castillo-Rogez, and the International TTR Science Team, Trojan Tour and Rendezvous (TTR): A New Frontiers Mission to Conduct the First Detailed Reconnaissance of the Jupiter Trojan Asteroids, AGU Fall Meeting, 14-18 December, Abstract #62002, P11B-2070, 2015.
586. Williams, N., M. Shirzaei, J.F. Bell III, and T. Watters, Inverse Modeling of Wrinkle Ridge Structures on the Moon and Mars, AGU Fall Meeting, 14-18 December, Abstract #85585, P33C-2141, 2015.
585. Bell III, J.F., C. Olkin, J. Castillo-Rogez, and the International TTR Science Team, Trojan Tour and Rendezvous (TTR): A New Frontiers Mission to Conduct the First Detailed Reconnaissance of the Jupiter Trojan Asteroids, AAS/DPS 2015 Annual Meeting, Abstract #312.08, 2015.
584. Johnson J.R., Bell J.F. III, Guinness E., & Deen R., The Mars Exploration Rovers Planetary Data System Archive of Pancam Photometry QUBS. Geologic Society of America Annual Meeting, Abstract #260213, Baltimore, Maryland, 1-4 November 2015.

583. Gupta, S., E. Sefton-Nash, J. Adler, M. Rice, P. Fawdon, N. Warner, P. Grindrod, J. Davis, M. Balme, [J. Bell](#), C. Stetson, J. Richard, The Hypanis Fluvial-Deltaic-Lacustrine System in Xanthe Terra: A Candidate Exploration Zone for the First Human Landing on Mars, *Mars Human Exploration Zone Landing Site Workshop*, LPI, Houston TX, Oct. 27-30, 2015.
582. Lanza, N.L., R.C. Wiens, R.E. Arvidson, B.C. Clark, W.W. Fischer, R. Gellert, J.P. Grotzinger, J.A. Hurowitz, S.M. McLennan, R.V. Morris, M.S. Rice, [J.F. Bell III](#), J.A. Berger, D.L. Blaney, J.G. Blank, N.T. Bridges, F. Calef III, J.L. Campbell, S.M. Clegg, A. Cousin, K.S. Edgett, C. Fabre, M.R. Fisk, O. Forni, J. Frydenvang, K.R. Hardy, C. Hardgrove, J.R. Johnson, L.C. Kah, J. Lasue, S. Le Mouélic, M.C. Malin, N. Mangold, J. Martin-Torres, S. Maurice, M.J. McBride, D.W. Ming, H.E. Newsom, S. Schröder, L.M. Thompson, A.H. Treiman, S. VanBommel, D.T. Vaniman, and M.-P. Zorzano, [Oxidation of Manganese at Kimberley, Gale Crater: More Free Oxygen in Mars' Past?](#), *46th Lunar & Planetary Science Conf.*, Abstract #2893 2015.
581. Bennett, K.A., B.H.N. Horgan, [J.F. Bell III](#), H.M. Meyer, and M.S. Robinson, [Moon Mineralogy Mapper Investigation of the Ina Irregular Mare Patch](#), *46th Lunar & Planetary Science Conf.*, Abstract #2646, 2015.
580. Johnson, J.R., [J.F. Bell III](#), A. Hayes, R. Deen, A. Godber, R.E. Arvidson, M. Lemmon, S. Kuhn, J. Carsten, and M.R. Kennedy, [Recent Mastcam and Mahli Visible/Near-Infrared Spectrophotometric Observations: Kimberley to Hidden Valley](#), *46th Lunar & Planetary Science Conf.*, Abstract #1424, 2015.
579. Hardgrove, C., J. Johnson, N. Lanza, M. Rice, [J. Bell](#), K. Kinch, D. Wellington, R. Arvidson, and A. Godber, [Detecting High Manganese Phases in Curiosity Mastcam Multispectral Images and Chemcam Passive Visible to Near Infrared Spectra](#), *46th Lunar & Planetary Science Conf.*, Abstract #2748, 2015.
578. Elkins-Tanton, L.T., E. Asphaug, [J. Bell](#), D. Bercovici, B.G. Bills, R.P. Binzel, W.F. Bottke, J. Goldsten, R. Jaumann, I. Jun, D.J. Lawrence, S. Marchi, D. Oh, R. Park, P.N. Peplowski, C.A. Polansky, T.H. Prettyman, C.A. Raymond, C.T. Russell, A. Scheinberg, B.P. Weiss, D.D. Wenkert, M. Wicczorek, and M.T. Zuber, [The Discovery Science of Asteroid \(16\) Psyche](#), *46th Lunar & Planetary Science Conf.*, Abstract #1632, 2015.
577. Bell III, J.F., N. M. Schneider, M. E. Brown, J. T. Clarke, B. T. Greenhagen, R. M.C. Lopes, A. R. Hendrix, M. H. Wong, [Kuiper: A Discovery-Class Observatory for Outer Solar System Giant Planets, Satellites, and Small Bodies. Conference on Spacecraft Reconnaissance of Asteroid and Comet Interiors 2015](#), Abstract #6043, 2014.
576. Adler, J. and [J.F. Bell III](#), [Stratigraphic Analysis of Phyllosilicate and Hydrated Sulfate Deposits Across the Margaritifer-Meridiani Boundary](#), AGU Fall Meeting, 15-19 December, Abstract #8963, 2014.
575. Bennett, K.A. and [J.F. Bell III](#), [Martian Sedimentary Basins and Central Mound Formation](#), AGU Fall Meeting, 15-19 December, Abstract #28824, 2014.
574. Edgar, L.A., D.M. Rubin, J. Schieber, S. Gupta, R.M.E. Williams, K. Stack, M.S. Rice, J.P. Grotzinger, K.W. Lewis, M.C. Malin, D.Y. Sumner, [J.F. Bell III](#), K.S. Edgett, and the MSL Team, [Reconstruction of Ancient Fluvial Environments at the Balmville and Dingo Gap Outcrops](#), Gale Crater, Mars, AGU Fall Meeting, 15-19 December, Abstract #17803, 2014.
573. Hardgrove, C.J. N. Lanza, [J.F. Bell III](#), R.C. Wiens, J.R. Johnson, and R.V. Morris, [Visible and near-infrared spectra of manganese oxides: Detecting high manganese phases in Curiosity Mastcam multispectral images and Chemcam Passive Visible to near Infrared Spectra](#), AGU Fall Meeting, 15-19 December, Abstract #14102, 2014.
572. Johnson, J.R., [J.F. Bell III](#), O. Gasnault, S. Le Mouélic, W. Rapin, J. Bridges, and D.F. Wellington, [First Iron Meteorites Observed By the Mars Science Laboratory \(MSL\) Rover Curiosity](#), AGU Fall Meeting, 15-19 December, Abstract #6500, 2014.
571. Lemmon, M.T., [J.F. Bell III](#), M.C. Malin, M.J. Wolff, J. Maki, J. Lasue, and S. Le Mouélic, [Imaging of comet C/2013 A1 \(Siding Spring\) from the Martian surface](#), AGU Fall Meeting, 15-19 December, Abstract #20089, 2014.
570. Wellington, D.F., [J.F. Bell III](#), A. Godber, K.M. Kinch, A.A. Fraeman, B.L. Ehlmann, R.E. Arvidson, M.S. Rice, J.R. Johnson, and the MSL Science Team, [Visible to Near-IR Spectral Units Along the MSL Gale Crater Traverse: Comparison of In Situ Mastcam and Orbital CRISM Observations](#), AGU Fall Meeting, 15-19 December, Abstract #27674, 2014.
569. Williams, N.R., [J.F. Bell III](#), M.S. Robinson, M. Shirzaei, T.R. Watters, M.E. Banks, M. Henriksen, K. Burns, S. Mattson, and J. Mueting, [Fault Dislocation Modeling of Tectonic Landforms in Mare Frigoris](#), AGU Fall Meeting, 15-19 December, Abstract #29949, 2014.
568. Bell III, J.F., J.N. Maki, G.L. Mehall, M.A. Ravine M.A. Caplinger, and the Mastcam-Z Science Team, [Mastcam-Z: A Geologic, Stereoscopic, and Multispectral Investigation on the NASA Mars-2020 Rover](#), Abstract #1151, Presented at "International Workshop on Instrumentation for Planetary Missions (IPM-2014)," Greenbelt, Maryland, November 4-7, 2014.

567. Bell III, J.F., N.M. Schneider, M.E. Brown, J.T. Clarke, B.T. Greenhagen, A.R. Hendrix, M.H. Wong and the Kuiper Team, [Kuiper: A Discovery-class Observatory for Giant Planets, Satellites, and Small Bodies](#), [American Astronomical Society](#), DPS meeting #46, Abstract #214.18, 9-14 November 2014.
566. Bennett, K.A., B. Horgan, B. Greenhagen, C. Allen, and J.F. Bell III, [Inferred Variable FeO Content in Medium-Sized Lunar Pyroclastic Deposits from LRO Diviner Data](#), [SSERVI NASA Exploration Science Forum](#), NASA/Ames Research Center, 21-23 July, 2014.
565. Williams, N.R., J.F. Bell III, M.S. Robinson, M. Shirzaei, T.R. Watters, M.E. Banks, M. Henriksen, K. Burns, J. Muetting, and S. Mattson, [Fault Dislocation Modeling of Tectonic Landforms in Mars Frigoris](#), [SSERVI NASA Exploration Science Forum](#), NASA/Ames Research Center, 21-23 July, 2014.
564. Adler, J.B. and J.F. Bell III, [Mineralogic Stratigraphy and Depositional Environment in Miyamoto Crater, Mars](#), [Eighth International Conference on Mars](#), 14-18 July, Abstract #1035, 2014.
563. Bennett, K.A., J. Hill, C. Edwards, J.F. Bell III, and P. Christensen, [THEMIS-VIS Color Mosaic and Multispectral Investigation of Gale Crater](#), [Eighth International Conference on Mars](#), 14-18 July, Abstract #1029, 2014.
562. Edgar, L.A., S. Gupta, D.M. Rubin, J. Schieber, K.W. Lewis, J.F. Bell III, C. Hardgrove, L.C. Kah, M. Rice, K.M. Stack, D.Y. Sumner, and R.M.E. Williams, [Cross-Bedded Facies and Inferred Paleocurrents Observed by the Curiosity Rover Along the Traverse to Mt. Sharp, Gale Crater, Mars](#), [Eighth International Conference on Mars](#), 14-18 July, Abstract #1389, 2014.
561. Farrand, W.H., J.F. Bell III, J.R. Johnson, and D.W. Mittlefehldt, [Multispectral VNIR Evidence of Alteration Processes on Solander Point, Endeavour Crater, Mars](#), [Eighth International Conference on Mars](#), 14-18 July, Abstract #1354, 2014.
560. Johnson, J.R. J.F. Bell III, A. Hayes, R. Deen, A. Godber, R. Arvidson, M. Lemmon, J. Carsten, M.R. Kennedy, and the MSL Science Team, [New MASTCAM and MAHLI Visible/Near-Infrared Spectrophotometric Observations at the Curiosity Landing Site, Mars](#), [Eighth International Conference on Mars](#), 14-18 July, Abstract #1073, 2014.
559. Johnson, J.R., J.F. Bell III, A. Fraeman, M. Rice, O. Gasnault, E. Cloutis, S. Le Mouélic, D.F. Wellington, R.C. Wiens, and the MSL Science Team, [Long-Distance Visible/Near-Infrared Reflectance Spectroscopy with CHEMCAM and MASTCAM Along the Curiosity Rover Traverse](#), [Eighth International Conference on Mars](#), 14-18 July, Abstract #1074, 2014.
558. Le Mouélic, S., O. Gasnault, K.E. Herkenhoff, N.T. Bridges, Y. Langevin, W. Rapin, N. Mangold, L. Le Deit, S. Maurice, R.C. Wiens, P. Pinet, H.E. Newsom, J.R. Johnson, R. Anderson, J.F. Bell III, [CHEMCAM Remot Micro-Imager Onboard MSL: Observations from 1.2 M to Infinity](#), [Eighth International Conference on Mars](#), 14-18 July, Abstract #1104, 2014.
557. Nachon, M. S.M. Clegg, N. Mangold, S. Schröder, L.C. Kah, G. Dromart, A. Ollila, J.R. Johnson, D.Z. Oehler, J.C. Bridges, S. Le Mouélic, O. Forni, R.C. Wiens, W. Rapin, R.B. Anderson, D.L. Blaney, J.F. Bell III, B. Clark, A. Cousin, M.D. Dyar, B. Ehlmann, C. Fabre, O. Gasnault, J. Grotzinger, J. Lasue, E. Lewin, R. Léveillé, S. McLennan, S. Maurice, P.-Y. Meslin, M. Rice, S.W. Squyres, K. Stack, D.Y. Sumner, D. Vaniman, and D. Wellington, [Calcium Sulfate Characterized by CHEMCAM/Curiosity at Gale Crater, Mars](#), [Eighth International Conference on Mars](#), 14-18 July, Abstract #1334, 2014.
556. Williams, N.R., J.F. Bell III, P.R. Christensen, and J.D. Farmer, [Evidence for an Explosive Origin of Central Pit Craters on Mars](#), [Eighth International Conference on Mars](#), 14-18 July, Abstract #1041, 2014.
555. Wellington, D.F., J.F. Bell III, A. Godber, J.R. Johnson, M.S. Rice, K.M. Kinch, and the MSL Science Team, [Compositional and Mineralogic Interpretation of MSL Curiosity Rover MASTCAM Multispectral Measurements in Gale Crater](#), [Eighth International Conference on Mars](#), 14-18 July, Abstract #1454, 2014.
554. Rice, M.S. and J.F. Bell III, [Characterizing the Effects of Viewing Geometry on the Reflectance Spectra of Rock Coatings](#), [45th Lunar & Planetary Science Conf.](#), Abstract #2866, 2014.
553. Farrand, W.H., J.R. Johnson, J.F. Bell III, M.S. Rice, and S.P. Wright, [Comparison of Rock Spectral Classes Observed at Cape York and Solander Point on The Rim of Endeavour Crater by the Opportunity Pancam](#), [45th Lunar & Planetary Science Conf.](#), Abstract #1596, 2014.
552. Johnson, J.R., R.C. Wiens, S. Maurice, S. Bender, L. DeFlores, D. Blaney, O. Gasnault, E. Cloutis, J. Bell, B. Gondet, K. Kinch, M. Lemmon, S. Le Mouélic, B. Ehlmann, M. Rice, and the MSL Science Team, [First Year of ChemCam Passive Reflectance Spectroscopy at Bradbury Landing](#), Mars, [45th Lunar & Planetary Science Conf.](#), Abstract #1367, 2014.
551. Mann, P., E.A. Cloutis, R.N. Greenberger, R.E. Millikin, T. Hiroi, J.F. Mustard, R.L. Klima, C.A. Hibbitts, J.B. Plescia, J.F. Bell III, T.L. Roush, J.L. Bishop, and B.L. Ehlmann, [An Interlaboratory Uv/Vis/Nir Wavelength Calibration Study](#), [45th Lunar & Planetary Science Conf.](#), Abstract #2392, 2014.
550. Nachon, M., S. M. Clegg, N. Mangold, S. Schröder, L. C. Kah, G. Dromart, A. Ollila, J.R. Johnson, D.Z. Oehler, J.C. Bridges, S. Le Mouélic, O. Forni, R.C. Wiens, R.B. Anderson, D.L. Blaney, J.F. Bell III, B. Clark, A. Cousin, M.D. Dyar, B. Ehlmann, C. Fabre, O. Gasnault, J. Grotzinger, J. Lasue, E. Lewin, R. Léveillé, S.

- McLennan, S. Maurice, P.-Y. Meslin, M. Rice, S.W. Squyres, K. Stack, D.Y. Sumner, D. Vaniman, and D. Wellington, [Calcium Sulfate Characterized by Chemcam/Curiosity at Gale Crater, Mars](#), *45th Lunar & Planetary Science Conf.*, Abstract #2006, 2014.
549. Johnson, J.R., W.M. Grundy, M.E. Lemmon, J.F. Bell III, and R.G. Deen, [Surface Photometric Properties Along the Mars Exploration Rovers' Traverses: Sols 500-1525](#), *45th Lunar & Planetary Science Conf.*, Abstract #1371, 2014.
548. Le Mouélic, S. O. Gasnault, K.E. Herkenhoff, N.T. Bridges, Y. Langevin, N. Mangold, S. Maurice, R.C. Wiens, P. Pinet, H.E. Newsom, J.R. Johnson, R. Anderson, and J.F. Bell III, [Using ChemCam Remote Micro-Imager Onboard MSL for Long Distance Reconnaissance Campaigns](#), *45th Lunar & Planetary Science Conf.*, Abstract #1361, 2014.
547. Edgar, L.A., S. Gupta, D.M. Rubin, K.W. Lewis, G.A. Kocurek, R.B. Anderson, J.F. Bell III, G. Dromart, K.S. Edgett, J.P. Grotzinger, C. Hardgrove, L.C. Kah, R. Leveille, M.C. Malin, N. Mangold, R.E. Milliken, M. Minitti, M. Palucis, M. Rice, S.K. Rowland, J. Schieber, K.M. Stack, D.Y. Sumner, A.J. Williams, J. Williams, and R.M.E. Williams, [A Fluvial Sandbody on Mars: Reconstruction of the Shaler Outcrop, Gale Crater, Mars](#), *45th Lunar & Planetary Science Conf.*, Abstract #1648, 2014.
546. Mittlefehldt, D.W., R. Gellert, R.E. Arvidson, J.F. Bell III, W.H. Farrand, K.E. Herkenhoff, B.L. Jolliff, D.W. Ming, C. Schröder, R.J. Sullivan, and the Athena Science Team, [Noachian Impact Breccias on the Rim of Endeavour Crater, Mars: Opportunity APXS Results](#), *45th Lunar & Planetary Science Conf.*, Abstract #1640, 2014.
545. Palumbo, P., R. Jaumann, G. Cremonese, H. Hoffmann, S. Debei, V. Della Corte, A. Holland, L.M. Lara, J.M. Castro, M. Herranz, A. Koncz, M. Leese, A. Lichopoj, D. Magrin, I. Martinez-Navajas, E. Mazzotta Epifani, H. Michaelis, R. Ragazzoni, T. Roatsch, E. Rodriguez, P. Schipani, N. Schmitz, M. Zaccariotto, M. Zusi, A. Adriani, O. Aharonson, J. Bell, O. Bourgeois, M.T. Capria, A. Coates, A. Coustenis, G. Di Achille, G. Forlani, S. van Gasselt, O. Groussin, K. Gwinner, J. Haruyama, E. Hauber, H. Hiesinger, Y. Langevin, R. Lopes, L. Marinangeli, W. Markiewicz, F. Marzari, M. Massironi, G. Mehall, G. Mitri, S. Mottola, J. Oberst, M. Patel, M.G. Pelizzo, C. Popa, F. Poulet, F. Preusker, R. Rodrigo, N. Schneider, A. Simon-Miller, K. Stephan, Y. Takahashi, F. Tosi, M. Vincendon, and R. Wagner, JANUS: [The Visible Camera Onboard the ESA JUICE Mission to the Jovian System](#), *45th Lunar & Planetary Science Conf.*, Abstract #2094, 2014.
544. Lanza, N.L., A.M. Ollila, A. Cousin, C. Hardgrove, R.C. Wiens, N. Mangold, M. Nachon, C. Fabre, N. Bridges, J. Johnson, S. Le Mouélic, D. Cooper, M. Schmidt, J. Berger, J. Bell, R. Arvidson, A. Mezzacappa, R. Jackson, S. Clegg, B. Clark, O. Forni, N. Melikechi, H. Newsom, R. Tokar, S. Maurice, R.B. Anderson, J. Blank, M. Deans, D. Delapp, W. Fischer, J. Grotzinger, J. Lasue, R. Lévillé, R. McInroy, R. Martinez, P.-Y. Meslin, V. Sautter, and D. Vaniman, [Manganese Trends with Depth on Rock Surfaces in Gale Crater, Mars](#), *45th Lunar & Planetary Science Conf.*, Abstract #2599, 2014.
543. Elkins-Tanton, L.T., E. Asphaug, J. Bell, D. Bercovici, B.G. Bills, R.P. Binzel, W.F. Bottke, I. Jun, S. Marchi, D. Oh, C.A. Polansky, B.P. Weiss, D. Wenkert, and M.T. Zuber, [Journey to a Metal World: Concept for a Discovery Mission to Psyche](#), *45th Lunar & Planetary Science Conf.*, Abstract #1253, 2014.
542. Williams, N.R., J.F. Bell III, T.R. Watters, M.E. Banks, and M.S. Robinson, [Timing and Controls of Tectonic Deformation in Mare Frigoris](#), *45th Lunar & Planetary Science Conf.*, Abstract #2684, 2014.
541. Lai, J.C., B.N. Horgan, and J.F. Bell III, [Mineralogical Assessment of Volcanic Edifices on Mars Using Near- and Thermal Infrared Remote Sensing](#), *45th Lunar & Planetary Science Conf.*, Abstract #2544, 2014.
540. Bennett, K.A. and J.F. Bell III, [A Global Survey of Central Mounds in Large Martian Craters: Implications for Paleolakes](#), *45th Lunar & Planetary Science Conf.*, Abstract #1539, 2014.
539. Bell III, J.F., M. Malin; J. Maki; W.E. Dietrich; K.S. Edgett; L. Edwards; J.B. Garvin; B. Hallet; K.E. Herkenhoff; E. Heydari; J.R. Johnson; L.C. Kah; M.T. Lemmon; M. Minitti; T.S. Olson; T.J. Parker; M.S. Rice; S.K. Rowland; J. Schieber; R.S. Sletten; R.J. Sullivan; D.Y. Sumner; P.C. Thomas; R.A. Yingst; and the MSL Science Team, [Mars Science Laboratory Curiosity rover initial Mastcam geomorphologic and multispectral characterization of the Gale crater field site](#), AGU Fall Meeting, 9-13 December, Abstract #P14B-02, 2013.
538. Gupta, S.; Lauren A. Edgar; David M. Rubin; Kevin W. Lewis; Gary Kocurek; Ryan B. Anderson; James F. Bell; Gilles Dromart; Kenneth S. Edgett; John P. Grotzinger; Craig J. Hardgrove; Linda C. Kah; Richard J. Leveille; Michael Malin; Nicolas Mangold; Ralph Milliken; Michelle E. Minitti; Jan Peter Muller; Melissa S. Rice; Scott K. Rowland; Juergen Schieber; Katie Stack; Dawn Y. Sumner; MSL Science Team, [Sedimentary architecture of the Shaler outcrop, Gale Crater, Mars: paleoenvironmental and sediment transport implications](#), AGU Fall Meeting, 9-13 December, Abstract #P14B-01, 2013.
537. Hardgrove, C.J., Melissa S. Rice; Jeffrey Moersch; Igor G. Mitrofanov; Maxim Litvak; Danika F. Wellington; Alberto Behar; James F. Bell; William V. Boynton; Lauren DeFlores; Darrell Drake; Fedor Fedosov; Dmitry Golovin; Insoo Jun; Karl Harshman; Alexander Kozyrev; Alexey Malakhov; Ralph Milliken; Ruslan Kuzmin; Michael A. Mischna; Maxim Mokrousov; Sergey Nikiforov; Anton Sanin; Christopher Tate; MSL

- Science Team, [DAN Active Parameters and Mastcam Hydration Survey Imaging: Comparisons Across Yellowknife Bay, Gale Crater, Mars](#), AGU Fall Meeting, 9-13 December, Abstract #P21D-07, 2013.
536. Edgar, L.A., Sanjeev Gupta; David M. Rubin; Kevin W. Lewis; Gary Kocurek; Ryan B. Anderson; James F. Bell; Gilles Dromart; Kenneth S. Edgett; John P. Grotzinger; Craig J. Hardgrove; Linda C. Kah; Richard J. Leveille; Michael Malin; Nicolas Mangold; Ralph Milliken; Michelle E. Minitti; Melissa S. Rice; Scott K. Rowland; Juergen Schieber; Katie Stack; Dawn Y. Sumner; MSL Science Team, [Sedimentary Petrography and Facies Analysis at the Shaler Outcrop, Gale Crater, Mars](#), AGU Fall Meeting, 9-13 December, Abstract #P23C-1789, 2013.
535. Le Mouelic, S., Olivier Gasnault; Nathan T. Bridges; Kenneth E. Herkenhoff; Yves Langevin; Patrick C. Pinet; Sylvestre Maurice; Roger C. Wiens; Nicolas Mangold; Jeffrey R. Johnson; James F. Bell; Diana L. Blaney; Bruce L. Barraclough, [The ChemCam Remote Micro-Imager on MSL: Observations From the First Year on Mars](#), AGU Fall Meeting, 9-13 December, Abstract #P23C-1790, 2013.
534. Rice, M.S., James F. Bell; Danika F. Wellington; Austin Godber; Craig J. Hardgrove; Bethany L. Ehlmann; John P. Grotzinger; Kjartan M. Kinch; Samuel M. Clegg; Abigail A. Fraeman; Jeffrey R. Johnson; Michael Malin; Katie Stack; Kirsten L. Siebach; Linda C. Kah; MSL Science Team, [Hydrated Minerals at Yellowknife Bay, Gale Crater, Mars: Observations from Mastcam's Science Filters](#), AGU Fall Meeting, 9-13 December, Abstract #P23C-1795, 2013.
533. Johnson, J.R., James F. Bell; Edward Cloutis; Steve Bender ; Diana L. Blaney; Bethany L. Ehlmann; Olivier Gasnault; Kjartan M. Kinch; Stephane Le Mouelic; Melissa S. Rice; Roger C. Wiens; Lauren DeFlores; MSL Science Team, [ChemCam Passive Reflectance Spectroscopy at Gale Crater, Mars](#), AGU Fall Meeting, 9-13 December, Abstract #P23C-1796, 2013.
532. Clegg, S.M., Nicolas Mangold; Marion Nachon; Stephane Le Mouelic; Ann Ollila; David T. Vaniman; Linda C. Kah; Gilles Dromart; John Bridges; Melissa S. Rice; Danika F. Wellington; James F. Bell; Ryan B. Anderson; Benton C. Clark; Agnes Cousin; Olivier Forni; Jeremie Lasue; Susanne Schröder; Pierre-Yves Meslin; Melinda D. Dyar; Diana L. Blaney; Sylvestre Maurice; Roger C. Wiens; MSL Science Team, [Calcium Sulfate Vein Observations at Yellowknife Bay using ChemCam on the Curiosity Rover](#), AGU Fall Meeting, 9-13 December, Abstract #P23C-1797, 2013.
531. Lai, J.C., Briony H. Horgan; James F. Bell, [Near and Thermal Infrared Remote Sensing of Bedrock and Sand in Dust-Covered Regions on Mars: Assessing Bedrock Mineralogy Through "Windows" in the Dust](#), AGU Fall Meeting, 9-13 December, Abstract #P23F-1855, 2013.
530. Williams, N.R., James F. Bell; Philip R. Christensen; Jack D. Farmer, [Evidence for an Explosive Origin of Central Pit Craters on Mars](#), AGU Fall Meeting, 9-13 December, Abstract #P34C-06, 2013.
529. Wellington, D.F. and J.F. Bell III, [Three-and-a-Half Mars Years of Surface Albedo Changes Observed by the Mars Reconnaissance Orbiter MARCI Investigation](#), AGU Fall Meeting, 9-13 December, Abstract #P41A-1910, 2013.
528. Wenkert, D. Linda T. Elkins-Tanton; Erik I. Asphaug; Sarah Bairstow; James F. Bell; David A. Bercovici; Bruce G. Bills; Richard P. Binzel; William F. Bottke; Insoo Jun; Damon Landau; Simone Marchi; David Oh; Benjamin P. Weiss; Maria T. Zuber, [Journey to a metal world: Concept for a Discovery mission to Psyche](#), AGU Fall Meeting, 9-13 December, Abstract #P51A-1729, 2013.
527. Bunte, M.K., Kenneth L. Tanaka; Thomas Doggett; Patricio H. Figueredo; Yucong Lin; Ronald Greeley; Srikanth Saripalli; James F. Bell, [Application of Geologic Mapping Techniques and Autonomous Feature Detection to Future Exploration of Europa](#), AGU Fall Meeting, 9-13 December, Abstract #P53A-1834, 2013.
526. Krishnan, A.K., P. McGarey, S. Saripalli, and J.F. Bell III, [NIR-CAM: Development of a Near-IR Camera](#), submitted to 2013 IEEE-ROSE (Robotics and Sensors Environments) conference, 2013.
525. Parker, T. *et al.*, [Coastal geomorphology at Endeavour crater: Observations by the Opportunity rover](#), Abstract No: 233091, Geol. Soc. Amer. Annual Conference, Abstract No: 232969, 2013.
524. Farrand, W. *et al.*, [VNIR spectral rock classes observed by Opportunity's Pancam on northern Cape York and on Matijevic Hill on the rim of Endeavour Crater, Mars](#), Geol. Soc. Amer. Annual Conference, Abstract No: 232969, 2013.
523. Williams, N.R., J. F. Bell III, T. R. Watters, M. E. Banks, M. S. Robinson, [Small Graben Formation in Mare Frigoris](#), submitted to NASA Lunar Science Forum, 2013.
522. Bennett, K.A. and J.F. Bell III, [Large Martian Craters with Central Mounds: Global Distribution, Mound Offsets, and Occurrence of Layers](#), submitted to European Planetary Science Conference, 2013.
521. Rice, M.S., J.F. Bell III, D. Wellington, A.A. Fraeman, J.R. Johnson, K.M. Kinch, M.C. Malin, J.P. Grotzinger, and the MSL Science Team, [Mastcam multispectral imaging results from the Mars Science Laboratory investigation in Yellowknife Bay](#), submitted to European Planetary Science Conference, 2013.
520. Bennett, K. and J.F. Bell III, [Large Martian Craters with Central Mounds: Global Distribution and Occurrence of Layers](#), 44th Lunar & Planetary Science Conf., Abstract #2652, 2013.

519. Bunte, M.K., Y. Lin, S. Saripalli, J.F. Bell III, and R. Greeley, [Intelligent Detection of Large Scale Volcanism During a Spacecraft Flyby: Samples from Flybys of Io](#), 44th Lunar & Planetary Science Conf., Abstract #2519, 2013.
518. Cloutis, E.A., L. Whyte, A. Qadi, L. Anderson-Trocme, J.F. Bell III, G. Berard, A. Boivin, A. Ellery, R. Greenberger, E. Haddad, W. Jamroz, R. Kruzelecky, P. Mann, J. Mustard, K. Olsen, M. Perrot, D. Popa, M. Ralchenko, T. Rhind, C. Samson, R. Sharma, J. Stromberg, K. Strong, A. Tremblay, and B. Wing, [The Mars Methane Analogue Mission \(M3\): Results of the 2012 Field Deployment](#), 44th Lunar & Planetary Science Conf., Abstract #1579, 2013.
517. Cloutis, E.A., P. Hudon, T. Hiroi, M. Gaffey, P. Mann, C. O'D. Alexander, J.F. Bell III, and B. Clark, [Possible Causes of Blue Slopes \(~0.5-2.5 \$\mu\$ m\) in Carbonaceous Chondrite Spectra](#), 44th Lunar & Planetary Science Conf., Abstract #1550, 2013.
516. Edgar, L.A., D.M. Rubin, J.P. Grotzinger, J.F. Bell III, F.J. Calef III, G. Dromart, S. Gupta, L.C. Kah, K.W. Lewis, N. Mangold, J. Schieber, K.M. Stack, D.Y. Sumner, and the MSL Science Team, [Sedimentary Facies and Bedform Analysis Observed from the Rocknest Outcrop \(Sols 59-100\)](#), Gale Crater, Mars, 44th Lunar & Planetary Science Conf., Abstract #1628, 2013.
515. Fraeman, A.A., R.E. Arvidson, J.F. Bell III, B.L. Ehlmann, J.P. Grotzinger, J.R. Johnson, R.V. Morris, S.L. Murchie, M.S. Rice, F.P. Seelos, and K.D. Seelos, [Curiosity's Traverse to Mount Sharp: Enhancing Scientific Investigation With Hyperspectral Orbital Data](#), 44th Lunar & Planetary Science Conf., Abstract #1221, 2013.
514. Gustafson, J.Olaf, J.F. Bell III, B.R. Hawke, L.R. Gaddis, and T.A. Giguere, [Remote Sensing investigations of Dark Mantle Deposits on the Southeastern Limb of the Moon](#), 44th Lunar & Planetary Science Conf., Abstract #2723, 2013.
513. Hawke, B. Ray, T.A. Giguere, L.R. Gaddis, J.O. Gustafson, S.J. Lawrence, J.D. Stopar, C.A. Peterson, J.F. Bell III, M.S. Robinson, and the LROC Science Team, [Cryptomare and Pyroclastic Deposits on the Northern East Side of the Moon](#), 44th Lunar & Planetary Science Conf., Abstract #1883, 2013.
512. Heath, S.N., J.F. Bell III, and P.R. Christensen, [High-Resolution Martian Soil Thickness Derived from THEMIS Thermal Measurements](#), 44th Lunar & Planetary Science Conf., Abstract #2797, 2013.
511. Johnson, J.R., J.F. Bell III, A. Hayes, R. Deen, A. Godber, J. Joseph, R. Arvidson, M. Lemmon, and the MSL Science Team, [Preliminary Mastcam Visible/Near-Infrared Spectrophotometric Observations at the Curiosity Landing Site, Mars](#), 44th Lunar & Planetary Science Conf., Abstract #1374, 2013.
510. Johnson, J.R., R. Wiens, S. Maurice, S. Bender, L. DeFlores, D. Blaney, O. Gasnault, E. Cloutis, J.F. Bell III, M. Rice, A. Fraeman, S. Le Mouélic, T. McConnochie, B. Ehlmann, R. Leveille, P. Pinet, and the MSL Science Team, [Chemcam Passive Reflectance Spectroscopy at Bradbury Landing, Mars](#), 44th Lunar & Planetary Science Conf., Abstract #1372, 2013.
509. Kinch, K. M., M. B. Madsen, J. F. Bell III, J. R. Johnson, W. Goetz and the MSL Science Team, [Dust on the Curiosity Mast Camera Calibration Target](#), 44th Lunar & Planetary Science Conf., Abstract #1061, 2013.
508. Le Mouélic, S., O. Gasnault, K.E. Herkenhoff, Y. Langevin, S. Maurice, N.T. Bridges, P. Pinet, N. Mangold, J.R. Johnson, R.C. Wiens, J.F. Bell III, A. Cousin, G. Dromart, and the MSL Science Team, Mars [Imaging by the ChemCam Remote Microscopic Imager \(RMI\) Onboard Curiosity: The First Three Months](#), 44th Lunar & Planetary Science Conf., Abstract #1213, 2013.
507. Lemmon, M. T., J.F. Bell III, M.C. Malin, K.M. Bean, M.J. Wolff, A. Vasavada, F.J. Martín-Torres, M.-P. Zorza-no-Mier, and the MSL Science Team, [Astrometric Observations of Phobos and Deimos During Solar Transits Imaged by the Curiosity Mastcam](#), 44th Lunar & Planetary Science Conf., Abstract #1787, 2013.
506. Williams, N.R., J.F. Bell III, T.R. Watters, M.E. Banks, and M.S. Robinson, [Recent tectonic deformation in Mare Frigoris](#), 44th Lunar & Planetary Science Conf., Abstract #2949, 2013.
505. Dissly, R., J.F. Bell III, and A. Hendrix, [Large Space Observatory for Planetary Science \(LSOPS\)](#), Workshop on the Study on Applications of Large Space Optics (SALSO), Huntsville, AL, February 5-6, 2013.
504. Wong, M.H., J. Clarke, A. Hendrix, A. Simon-Miller, K. Noll, W. Harris, K. Sayanagi, H. Hammel, D. Choi, J.F. Bell III, I. de Pater, G. Orton, [Planetary Dynamics Explorer \(PDX\): A Space Telescope for Time-Domain Solar System Science](#), Workshop on the Study on Applications of Large Space Optics (SALSO), Huntsville, AL, February 5-6, 2013.
503. Horgan, B., R. Smith, P. Mann, J. Stromberg, E. Cloutis, P. R. Christensen, J. F. Bell III, [New Evidence for a Weathering Origin for the High-Silica Component of TES Surface Type 2 on Mars](#), 44th Lunar & Planetary Science Conf., Abstract #3032, 2013.
502. Bell III, J.F., A. Godber, M. S. Rice, A. A. Fraeman, B. L. Ehlmann, W. Goetz, C. J. Hardgrove, D. E. Harker, J. R. Johnson, K. M. Kinch, M. T. Lemmon, S. McNair, S. Le Mouélic, M. B. Madsen, M. C. Malin, and the MSL Science Team, [Initial Multispectral Imaging Results from the Mars Science Laboratory Mastcam Investigation at the Gale Crater Field Site](#), 44th Lunar & Planetary Science Conf., Abstract #1417, 2013.

501. Bell III, J.F., J. C. Lai, B. Horgan, D. F. Wellington, [Characterizing the Bedrock Mineralogy of Dusty Regions of Mars Using Remote Sensing of Low Albedo "Windows" Through the Dust](#), *44th Lunar & Planetary Science Conf.*, Abstract #2416, 2013.
500. Horgan, B., D. Clarke, and J.F. Bell III, [Evidence for glass-rich pyroclastics in Martian dunes](#). *Third Intl. Planetary Dunes Workshop*, #7050, 2012.
499. Horgan B., M. Chojnacki, J. Lai, D. Clarke, J. Joseph, and J.F. Bell III, [The Global Distribution of Weathered Glass on Mars](#), AGU Fall Meeting, 3-7 December, Abstract #P11E-1856, 2012.
498. Johnson, J.R., J.F. Bell III, R.E. Arvidson, and J.A. Herman, [Surface Changes Observed at Greeley Haven during Opportunity's Fifth Martian Winter](#), AGU Fall Meeting, 3-7 December, Abstract #P21C-1851, 2012.
497. Bunte, M.K., Y. Lin, S. Saripalli, and J.F. Bell III, [Autonomous Detection of Eruptions, Plumes, and Other Transient Events in the Outer Solar System](#), AGU Fall Meeting, 3-7 December, Abstract #P21C-1861, 2012.
496. Kinch, K.M., J.F. Bell III, and M.B. Madsen, [Dust deposition and removal at the MER landing sites from observations of the Panoramic Camera \(Pancam\) calibration targets](#), AGU Fall Meeting, 3-7 December, Abstract #P21D-1877, 2012.
495. Bell III, J.F., D.F. Wellington, R.B. Anderson, M.J. Wolff, K.D. Supulver, B.A. Cantor, and M.C. Malin, [Three Mars Years of Surface Albedo Changes Observed by the Mars Reconnaissance Orbiter MARCI Investigation](#), AGU Fall Meeting, 3-7 December, Abstract #P24B-05, 2012.
494. Williams, N.R., J.F. Bell III, T.R. Watters, M.E. Banks, and M.S. Robinson, [Tectonic Mapping of Mare Frigoris Using Lunar Reconnaissance Orbiter Camera Images](#), AGU Fall Meeting, 3-7 December, Abstract #P53A-2044, 2012.
493. Horgan, B., M. Chojnacki, J. Lai, D. Clarke, J. Joseph, and J.F. Bell III, [Widespread Explosive Volcanism On Mars Inferred From The Global Distribution Of Glass-Rich Sediments](#) (Abstract ID#: 208781), *Geological Society of America*, Annual Meeting, Charlotte VA, 2012.
492. Cloutis, E.A., L. Pompilio, V. Reddy, H. Hiesinger, A. Nathues, P. Mann, L. Le Corre, E. Palomba, and J.F. Bell III, [Spectral reflectance diversity of HED meteorites as a function of grain size, olivine content and shock](#), *European Planetary Science Conference*, 2012.
491. Cloutis, E.A., L. Pompilio, V. Reddy, H. Hiesinger, A. Nathues, P. Mann, L. Le Corre, E. Palomba, and J.F. Bell III, [The effect of CM2 carbonaceous chondrites on reflectance spectra of HED meteorites](#), *European Planetary Science Conference*, 2012.
490. Niles, P.B., P. Abell, J. Andrews-Hanna, P. D. Archer, A.M. Baldridge, J.F. Bell III, J. Bishop, J. E. Bleacher, M.C. Bourke, A.J. Brown, V.F. Chevrier, C.M. Corrigan, D.A. Crown, D.S. Draper, B. L. Ehlmann, C.A. Evans, R.L. Fergason, M. Fries, E.K. Gibson, T. Glotch, T.G. Graff, L. D. Graham, J. Grotzinger, J. Gruener, E.M. Hausrath, B.M. Hynek, J.H. Jones, E.S. Kite, L.P. Knauth, A.T. Knudson, S.P. Kounaves, S.M. Lederer, M.T. Lemmon, J. Michalski, D. Ming, S. Murchie, H.E. Newsom, E. Noe Dobra, D.Z. Oeh-ler, M.M. Osterloo, A.D. Rogers, C.H. Seaman, M.L. Searls, J.C. Stern, R.A. Socki, B. Sutter, D. Vaniman, C.M. Weitz, R.M.E. Williams, J.J. Wray, S.P. Wright, and M. Zolotov, [Multiple smaller missions as a direct pathway to Mars sample return](#), in "Concepts and Approaches for Mars Exploration," Lunar and Planetary Institute, Houston TX, June 12–14, 2012.
489. Chojnacki, M. J. R. Johnson, J. E. Moersch, J. F. Bell III, [Surface and Orbital Monitoring of the "Greeley Dune Field" in Endeavour Crater, Meridiani Planum, Mars](#), Third International Planetary Dunes Workshop: Remote Sensing and Image Analysis of Planetary Dunes, Flagstaff, AZ, June 2012.
488. Lamy, P., P. Vernazza, O. Groussin, J. Poncey, V. Martinot, E. Hinglais, J. Bell, D. Cruikshank, J. Helbert, F. Marzari, A. Morbidelli, and P. Rosenblatt, [The Trojans' Odyssey space mission](#), *Asteroids, Comets, Meteors 2012*, Niigata, Japan, May 16–20, 2012.
487. Horgan, B., R. Sullivan, J. F. Bell III, [Seasonally Active Dune Slipface Avalanches on Mars: Evidence for a Wind-related Origin](#), *43rd Lunar & Planetary Science Conf.*, Abstract #1631, 2012.
486. Anderson, R.B. and J. F. Bell III, [Correlations Between Multispectral Imaging and Compositional Data from The Mars Exploration Rovers and Implications for Mars Science Laboratory \(MSL\) Data Analysis](#), *43rd Lunar & Planetary Science Conf.*, Abstract #2284, 2012.
485. Berard, G., D. Applin, E. Cloutis, J. Stromberg, R. Sharma, P. Mann, S. Grasby, R. Bezys, B. Horgan, K. Londry, M. Rice, B. Last, F. Last, P. Badiou, G. Goldsborough, and J. F. Bell III, [A Hypersaline Spring Analogue in Manitoba, Canada for Potential Ancient Spring Deposits on Mars](#), *43rd Lunar & Planetary Science Conf.*, Abstract #1513, 2012.
484. Cloutis, E., L. Whyte, A. Qadi, J.F. Bell III, G. Berard, A. Boivin, A. Ellery, E. Haddad, W. Jamroz, R. Kruzelecky, P. Mann, K. Olsen, M. Perrot, D. Popa, T. Rhind, C. Samson, R. Sharma, J. Stromberg, K. Strong, A. Tremblay, R. Wilhelm, B. Wing, and B. Wong, [The Mars Methane Analogue Mission \(M3\): Results of The 2011 Field Deployment](#), *43rd Lunar & Planetary Science Conf.*, Abstract #1569, 2012.

483. Farrand, W.H., J. R. Johnson, J.F. Bell III, and M.S. Rice, [Visible and Near Infrared Spectral Classes of Rocks Observed at Cape York, Endeavour Crater, Mars](#), *43rd Lunar & Planetary Science Conf.*, Abstract #2280, 2012.
482. Horgan, B. and J.F. Bell III, [Widespread Weathered Glass on The Surface of Mars](#), *43rd Lunar & Planetary Science Conf.*, Abstract #1622, 2012.
481. Williams, N.R., J. F. Bell III, T. R. Watters, M. E. Banks, and M. S. Robinson, [Tectonic Mapping of Mare Frigoris Using Lunar Reconnaissance Orbiter Camera Images](#), *43rd Lunar & Planetary Science Conf.*, Abstract #2708, 2012.
480. Hawke, B.R., T.A. Giguere, L.R. Gaddis, O.Gustafson, S.J. Lawrence, J.D. Stopar, C.A. Peterson, J.F. Bell III, M.S. Robinson, and The LROC Science Team, [Localized Pyroclastic Deposits In The Grimaldi Region Of The Moon](#), *43rd Lunar & Planetary Science Conf.*, Abstract #1749, 2012.
479. Bennett, K.A., J.F. Bell III, T.H. McConnochie, and M.J. Wolff, [Extending CRISM spectral coverage in Gale crater using THEMIS-VIS and HiRISE](#), *43rd Lunar & Planetary Science Conf.*, Abstract #2761, 2012.
478. Bell III, J.F., E. M. Wolfe, B. N. H. Horgan, J. Joseph, and S. Araki, [Kilometer-Scale VIS-NIR Spectral Variations on Mars from Global Mapping and Analysis of Mars Express OMEGA Data](#), *43rd Lunar & Planetary Science Conf.*, Abstract #1739, 2012.
477. Bell III, J.F., M. C. Malin, M. A. Caplinger, M. A. Ravine, A. S. Godber, M. C. Jungers, M. S. Rice, R. B. Anderson, [Mastcam Multispectral Imaging on the Mars Science Laboratory Rover: Wavelength Coverage and Imaging Strategies at the Gale Crater Field Site](#), *43rd Lunar & Planetary Science Conf.*, Abstract #2541, 2012.
476. Williams, N.R., T.R. Watters; M.E. Pritchard; M.E. Banks; J.F. Bell III; M.S. Robinson; T. Tran, [Lobate Scarp Modeling with Lunar Reconnaissance Orbiter Camera Digital Terrain Models](#), *AGU Fall Meeting*, 5-9 December, Abstract #P43D-1707, 2011.
475. Bell III, J.F.; R.B. Anderson; R. Milliken; V.E. Hamilton; K.S. Edgett, [Mafic Silicate and Ferric Oxide Mineralogy of Gale Crater and the Mars Science Laboratory Rover Field Site](#), *AGU Fall Meeting*, 5-9 December, Abstract #P33C-1776, 2011.
474. Anderson, R.B. and J.F. Bell III, [Science Targets in the Landing Ellipse and Lower Mound at the Gale Crater Field Site](#), *AGU Fall Meeting*, 5-9 December, Abstract #P32A-03, 2011.
473. Gustafson, J.O.; J.F. Bell III; L.R. Gaddis; B.R. Hawke; T. Giguere, [Characterization of Previously Unidentified Lunar Pyroclastic Deposits using Lunar Reconnaissance Orbiter Camera \(LROC\) Data](#), *AGU Fall Meeting*, 5-9 December, Abstract #P31E-1733, 2011.
472. Horgan, B.; P.R. Christensen; J.F. Bell III, [Searching for Pedogenic Phyllosilicates in Ancient Soils on Mars](#), *AGU Fall Meeting*, 5-9 December, Abstract #P31D-1725, 2011.
471. Rice, M.S. and J.F. Bell III, [Mapping Hydrated Materials with MER Pancam and MSL Mastcam: Results from Gusev Crater and Meridiani Planum, and Plans for Gale Crater](#), *AGU Fall Meeting*, 5-9 December, Abstract #P22A-02, 2011.
470. Johnson, J.R.; J.F. Bell III; W.H. Farrand; A. Wang, [Initial Pancam Visible/Near-infrared Observations of Materials near Endeavour Crater's Western Rim](#), *AGU Fall Meeting*, 5-9 December, Abstract #P22A-01, 2011.
469. Betts, B.H., M. Peck, D. Stetson, J. Shoer, T. Svitek, J.F. Bell III, T.D. Jones, and F. Purnell, [Microrovers for Assisting Humans on the Moon and Elsewhere: Microrover Catalog, Requirements, and General Design Conclusions](#), presented at AIAA Space Conference 2011, Long Beach, CA, Sept. 2011.
468. Horgan, B., J.F. Bell III, and E.A. Cloutis, [Compositional relationships between high latitude units and implications for the history of the north polar region](#), submitted to 5th International Conference on Mars Polar Science and Exploration, Fairbanks, AK, Sept. 12-16, 2011.
467. Bell III, J.F., [Gale crater: A field site where MSL can test specific hypotheses about Martian climate and habitability](#), presented at the *5th MSL Landing Site Workshop*, Monrovia, CA, May 16-18, 2011.
466. Newsom, H., J.F. Bell III, and D. Sumner, Impact crater processes in the MSL landing sites, presented at the *5th MSL Landing Site Workshop*, Monrovia, CA, May 16-18, 2011.
465. Banks, M.E. T. R. Watters, M. S. Robinson, J. F. Bell III, M. E. Pritchard, N. R. Williams, K. Daud, LROC Team, [The Search for Lunar Lobate Scarps Using Images from the Lunar Reconnaissance Orbiter Camera](#), *42nd Lunar and Planetary Science Conference*, Abstract #2736, 2011.
464. Watters, W.A., J. Bell III, F. Calef, M. Golombek, J. Grant, A. Hayes, R. Li, T. Parker, R. Sullivan, S. Squyres, S. Wright, [Structure and Morphology of Santa Maria Crater, Meridiani Planum, Mars](#), *42nd Lunar and Planetary Science Conference*, Abstract #2586, 2011.
463. Gustafson, J.O., J. F. Bell III, L. R. Gaddis, B. R. Hawke, T. A. Giguere, LROC Science Team, [A Search for Potential Newly Identified Lunar Pyroclastic Deposits with LROC Data](#), *42nd Lunar and Planetary Science Conference*, Abstract #2434, 2011.

462. Farrand, W.H., [J.F. Bell III](#), B. C. Clark, L. A. Edgar, A. G. Hayes, J. R. Johnson, B. L. Jolliff, [Color Banding Within the Inner Rims of Craters in Meridiani Planum: Observations by the Opportunity Pancam and HiRISE](#), *42nd Lunar and Planetary Science Conference*, Abstract #2359, 2011.
461. Johnson, J.R., K. E. Herkenhoff, [J.F. Bell III](#), W. H. Farrand, R. Gellert, J. Ashley, C. Schröder, S. W. Squyres, [Pancam Visible/Near-Infrared Spectra of Fe-Ni Meteorite Oileán Ruaidh at Meridiani Planum, Mars](#), *42nd Lunar and Planetary Science Conference*, Abstract #1929, 2011.
460. Williams, N.R., M. E. Pritchard, [J.F. Bell III](#), T. R. Watters, M. E. Banks, M. S. Robinson, T. Tran, [Two Tectonic Landforms from Lunar Reconnaissance Orbiter Camera Digital Terrain Models](#), *42nd Lunar and Planetary Science Conference*, Abstract #1624, 2011.
459. Anderson, R.B., R. V. Morris, S. M. Clegg, [J.F. Bell III](#), S. D. Humphries, R. C. Wiens, [A Comparison of Multivariate and Pre-Processing Methods for Quantitative Laser-Induced Breakdown Spectroscopy of Geological Samples](#), *42nd Lunar and Planetary Science Conference*, Abstract #1308, 2011.
458. Cloutis, E.A., H. Vronis, A. Qadi, [J.F. Bell III](#), G. Berard, A. Boivin, A. Ellery, W. Jamroz, R. Kruzelecky, P. Mann, C. Samson, J. Stromberg, K. Strong, A. Tremblay, L. Whyte, B. Wing, [Mars Methane Analogue Mission \(M3\): Analytical Techniques and Operations](#), *42nd Lunar and Planetary Science Conference*, Abstract #1174, 2011.
457. Rice, M.S. and [J.F. Bell III](#), [Assessing the Ancient Habitability of Eberswalde Crater](#), presented at *Conference on Mars Habitability*, Lisbon, Portugal, June 2011.
456. Betts, B., T. Svitek, L. Friedman, M. Peck, and [J.F. Bell III](#), [Microrovers assisting humans on the Moon and Mars](#), 61st International Astronautical Congress, Prague, CZ, IAC-10.B3.6.-A5.3.1, September 2010.
455. Lakdawalla, E.S. and [J.F. Bell III](#), [Snapshots from Space: Citizen Participation in Space Missions Through Image Processing](#), *AGU Fall Meeting*, 13-17 December, Abstract #ED13B-07, 2010.
454. Rice, M., A. Batista, [J.F. Bell III](#), and W. Watters, [Searching for "Home Plates" Near Gusev Crater, Mars: Spirit's Regional Context in an Area of Explosive Volcanism](#), *AGU Fall Meeting*, 13-17 December, Abstract #P11B-1338, 2010.
453. Gustafson, J.O., [J.F. Bell III](#), L.R. Gaddis, B.R. Hawke, M.S. Robinson and the LROC Science Team, [Morphologic characterization and compositional constraints for localized lunar dark mantle deposits](#), *AGU Fall Meeting*, 13-17 December, Abstract #P11B-1344, 2010.
452. Bell III, J.F., A. Fraeman, L.I. Grossman, K.E. Herkenhoff, R. Sullivan, and the MER/Athena Science Team, [Multispectral and Textural Properties and Diversity of Soils in Gusev Crater and Meridiani Planum from Mars Exploration Rover Pancam and MI Data](#), *AGU Fall Meeting*, 13-17 December, Abstract #P53A-1483, 2010.
451. Bell III, J.F., and the Mars Exploration Rover Science and Engineering Teams, [\(Nearly\) Seven Years on Mars: Adventure, Adversity, and Achievements with the NASA Mars Exploration Rovers Spirit and Opportunity](#), *AGU Fall Meeting*, 13-17 December, Abstract #ED21D-10, 2010.
450. Anderson, R., R.V. Morris, S. M. Clegg, and [J.F. Bell III](#), [Multivariate methods for prediction of geologic sample composition with laser-induced breakdown spectroscopy](#), *AGU Fall Meeting*, 13-17 December, Abstract #P33C-1583, 2010.
449. Horgan, B. and [J.F. Bell III](#), [New insights into chemical processes within martian high latitude soils](#), *AGU Fall Meeting*, 13-17 December, Abstract #P52B-06, 2010.

448. Robinson, M.S., J.F. Bell III, and the LRO/LROC Science Team, [Imaging of the Moon from the Lunar Reconnaissance Orbiter Camera \(LROC\) Investigation](#), *AGU Meeting of the Americas*, Foz do Iguassu, Brazil, Abstract #P44A-02, August 8-12, 2010.
447. Williams, N., M.E. Pritchard, J.F. Bell III, T.R. Watters, M.E. Banks, M.S. Robinson, [The Search for Lunar Thrust Fault Scarps: Findings from LROC's First Year in Orbit](#), NASA Lunar Science Institute Forum, Abstract #179, NASA/Ames Research Center, 19-22 July, 2010.
446. Gustafson, J.O., J.F. Bell III, L.R. Gaddis, B.R. Hawke, M.S. Robinson, and the LROC Science Team, [Analysis of Dark Mantle Deposits on The SE Limb of the Moon Using LROC and Clementine Spectral Reflectance Data](#), NASA Lunar Science Institute Forum, Abstract #132, NASA/Ames Research Center, 19-22 July, 2010.
445. Rice, M.S. and J.F. Bell III, Geologic Mapping of the Proposed Mars Science Laboratory (MSL) Landing Ellipse in Eberswalde Crater, *First International Conference on Mars Sedimentology and Stratigraphy*, El Paso, TX, April 19-21, 2010.
444. Anderson, R.B. and J.F. Bell III, [Geomorphology and Inferred Stratigraphy of the Gale Crater Central Mound and Proposed Mars Science Laboratory Landing Site](#), *First International Conference on Mars Sedimentology and Stratigraphy*, El Paso, TX, April 19-21, 2010.
443. Johnson, J.R., J. Ashley, J.F. Bell III, W. Farrand, I. Fleischer, B. Jolliff, K. Herkenhoff, and C. Weitz, [Surface Alteration of Fe-Ni meteorites analyzed by the Opportunity Mars Exploration Rover](#), submitted to Goldschmidt Conference, Knoxville TN, 2010.
442. Malin, M.C., Caplinger, M. A.; Edgett, K. S.; Ghaemi, F. T.; Ravine, M. A.; Schaffner, J. A.; Baker, J. M.; Bardsis, J. D.; Dibiase, D. R.; Maki, J. N.; Willson, R. G.; Bell III, J. F.; Dietrich, W. E.; Edwards, L. J.; Hallet, B.; Herkenhoff, K. E.; Heydari, E.; Kah, L. C.; Lemmon, M. T.; Minitti, M. E.; Olson, T. S.; Parker, T. J.; Rowland, S. K.; Schieber, J.; Sullivan, R. J.; Sumner, D. Y.; Thomas, P. C.; Yingst, R. A., [The Mars Science Laboratory \(MSL\) Mast-mounted Cameras \(Mastcams\) Flight Instruments, Lunar and Planetary Science Conference 41](#), Lunar and Planetary Institute, Houston, TX, p. 1123, March 1-5, 2010.
441. Wells, K.S. and J.F. Bell III, [Characterization of Ejecta facies of a small lunar crater in Balmer Basin Using LROC Data](#), Lunar and Planetary Science Conference 41, Abstract #1932, Lunar and Planetary Institute, Houston, TX, 2010.
440. Rice, M.S. and J.F. Bell III, [Geologic Mapping of the Proposed Mars Science Laboratory \(MSL\) Landing Ellipse in Eberswalde Crater](#), *Lunar and Planetary Science Conference 41*, March 1-5, 2010.
439. Farrand, W.H., J.R. Johnson, J.F. Bell III, R.A. Yingst, and C.M Weitz, [Distinguishing Martian "Erratics" from Meteorites at Meridiani Planum Using Pancam: Comparing Marquette Island to Meridiani Cobbles](#), Abstract #1935, Lunar and Planetary Science Conference 41, March 1-5, 2010.
438. Johnson, J.R., K.E. Herkenhoff, J.F. Bell III, W. Farrand, J. Ashley, C. Weitz, and S.W. Squyres, [Pancam Visible/Near-Infrared Spectra of Fe-Ni Meteorites at Meridiani Planum](#), Mars, Lunar and Planetary Science Conference 41, March 1-5, 2010.
437. Anderson, R.B., R.V. Morris, S. D. Humphries, S.M. Clegg, R. C. Wiens, J.F. Bell III, and S. A. Mertzman, [Partial Least Squares and Neural Networks for Quantitative Calibration of Laser-Induced Breakdown Spectroscopy \(LIBS\) of Geologic Samples](#), Lunar and Planetary Science Conference 41, March 1-5, 2010.
436. Horgan, B., J.F. Bell III, and M.C. Bourke, [Dry Flow, Surface Cementation, and Ice Induration Features on Dunes in The North Polar Region of Mars](#), *Lunar and Planetary Science Conference 41*, Abstract #1325, March 1-5, 2010.
435. Gaddis, L.R., M.S. Robinson, B.R. Hawke, T. Giguere, L. Keszthelyi, J.O. Gustafson, J.F. Bell III, and the LROC Science Team, [Lunar Pyroclastic Volcanism at Atlas Crater as Viewed by LROC](#), Lunar and Planetary Science Conference 41, Abstract #2059, March 1-5, 2010.
434. Gustafson, J.O., J.F. Bell III, L.R. Gaddis, B.R. Hawke, M.S. Robinson, and the LROC Science Team, [Analysis of Pyroclastic Deposits on the Southeastern Limb of the Moon Using LROC and Clementine Spectral Reflectance Data](#), Lunar and Planetary Science Conference 411, Abstract #1862, March 1-5, 2010.
433. Wells, K.S. and J.F. Bell III, [Characterization of Ejecta Facies of a Small Lunar Crater in Balmer Basin Using LROC Data](#), Lunar and Planetary Science Conference 41, March 1-5, 2010.
432. Watters, T.R., M.S. Robinson, R. Beyer, J.F. Bell III, M.E. Pritchard, M.E. Banks, N.R. Williams, and the LROC Team, [Lunar Thrust Faults: Implications for the Thermal History of the Moon](#), Lunar and Planetary Science Conference 41, Abstract #1863, March 1-5, 2010.
431. Wang, A., J.J. Freeman, J.F. Bell III, and B.L. Jolliff, [Potential habitable zone within the subsurface of equatorial region on Mars, submitted to the 2010 Astrobiology Conference](#), League City, Texas, April 26-29, 2010.
430. Jolliff, B.L., S M Wiseman, M S Robinson, S Lawrence, B W Denevi, J F Bell, [LRO Camera Imaging of the Moon: Apollo 17 and other Sites for Ground Truth: AGU Fall Meeting](#), 14-18 December, Abstract #U31A-0012 2009.
429. Watters, T.R., M S Robinson, R A Beyer, J F Bell, M E Pritchard, M E Banks, W B Garry, N R Williams, [A](#)

- [new look at formation and timing of thrust fault scarps on the Moon](#), *AGU Fall Meeting*, 14-18 December, Abstract #U31A-0013 2009.
428. Gaddis, L.R., M S Robinson, B R Hawke, T Giguere, O Gustafson, L P Keszthelyi, S Lawrence, J Stopar, B L Jolliff, [J.F. Bell](#), W B Garry, [Insights into Pyroclastic Volcanism on the Moon with LROC Data](#), *AGU Fall Meeting*, 14-18 December, Abstract #U31A-0009 2009.
427. Williams, N.R., M E Pritchard, [J.F. Bell](#), T R Watters, M S Robinson, S Lawrence, [Surveying the Newly Digitized Apollo Metric Images for Highland Fault Scarps on the Moon](#), *AGU Fall Meeting*, 14-18 December, Abstract #P23C-1287 2009.
426. Bell III, J.F., B Horgan, E Z Noe Dobrea, [Composition and Mineralogy of Low Albedo Northern Circumpolar Deposits on Mars Using MGS/TES Data](#), *AGU Fall Meeting*, 14-18 December, Abstract #P13A-1253, 2009.
425. Rice, M.S., [J.F. Bell](#), A Wang, J R Johnson, R E Arvidson, [Spectral and Textural Changes Observed in Sulfate Soil Deposits at Gusev Crater, Mars](#), *AGU Fall Meeting*, 14-18 December, Abstract #P13A-1251, 2009.
424. Johnson, J.R., W M Calvin, W H Farrand, K E Herkenhoff, R V Morris, J W Ashley, E M Lee, [J.F. Bell](#), C M Weitz, [Pancam Multispectral Observations of the Block Island meteorite, Meridiani Planum, Mars](#), *AGU Fall Meeting*, 14-18 December, Abstract #P13A-1247, 2009.
423. Horgan, B. and [J.F. Bell III](#), [Acid Alteration of Glass-Bearing Materials: Formation of a Major Martian Surface Type](#), *AGU Fall Meeting*, 14-18 December, Abstract #P13C-07, 2009.
422. Rice, M.S., E.A. Cloutis, [J.F. Bell III](#), [Reflectance Spectra of Hydrated Silica-Rich Materials: Sensitivity to the Form of Water and Implications for Mars](#), *Geological Society of America Annual Meeting*, Portland, OR, 18-21 October 2009.
421. Bell III, J.F., B. Horgan, and E.Z. Noe Dobrea, [Mineralogy of the North Polar Sands of Mars from MGS/TES Observations](#), *B.A.A.S.*, 41, #57.06, 2009.
420. Cloutis, E.A., M.S. Rice, [J.F. Bell III](#), S.A. Mertzman, D.L. Bish, R. Renaut, [Spectral Reflectance Diversity of Silica-Rich Materials: Insights into Structure and Petrogenesis and Implications for Mars](#), *Workshop on Modeling Martian Hydrous Environments*, Houston, TX, 1-3 June 2009.
419. Gaddis, L.R., M. S. Robinson, B. R. Hawke, T. Giguere, O. Gustafson, S. J. Lawrence, J. D. Stopar, B. L. Jolliff, and [J. F. Bell III](#), [LRO Targeting of Lunar Pyroclastic Deposits](#), Lunar Reconnaissance Orbiter Science Targeting Meeting, Tempe AZ, Abstract #6025, 2009.
418. Bell III, J.F., M.E. Pritchard, A.C. Schiff, J.O. Gustafson, N.R. Williams, and T.R. Watters, [LRO Targeting of Lunar Tectonic Features](#), Lunar Reconnaissance Orbiter Science Targeting Meeting, Tempe AZ, Abstract #6011, 2009.
417. Golombek M. P. Haldemann A. F. C. Simpson R. A. Fergason R. L. Putzig N. E. Huertas A. Arvidson R. E. Heet T. [Bell J. F. III](#) Mellon M. T. McEwen A. S., [Relationships Between Remote Sensing Data and Surface Properties of Mars Landing Sites](#), Abstract 1409, 40th Lunar and Planetary Science Conference, Lunar and Planetary Institute, Houston, TX, 2009.
416. Geissler P. E. Arvidson R. [Bell J.F. III](#) Bridges N. Desouza P. Golombek M. Greenberger R. Greeley R. Herkenhoff K. Lahtela H. Johnson J. R. Landis G. Li R. Moersch J. Richter L. Sims M. Soderblom J. Sullivan R. Thompson B. Verba C. Waller D. Wang A. HiRISE Team MER Team, [Constraints on Aeolian Degradation Rates on Mars from Erasure of Rover Tracks](#), Abstract 2257, 40th Lunar and Planetary Science Conference, Lunar and Planetary Institute, Houston, TX, 2009.
415. Anderson, R.B., [J.F. Bell III](#), and R.E. Milliken, [Geologic and Thermophysical Unit Mapping of the Proposed Mars Science Laboratory Landing Site and Traverse Path in Gale Crater](#), Abstract 2030, 40th Lunar and Planetary Science Conference, Lunar and Planetary Institute, Houston, TX, 2009.
414. Milliken, R. E., K. S. Edgett, G. Swayze, R. N. Clark, B. J. Thompson, R. Anderson, and [J.F. Bell III](#), [Clay and sulfate-bearing rocks in a stratigraphic sequence in Gale Crater](#), Abstract 1479, 40th Lunar and Planetary Science Conference, Lunar and Planetary Institute, Houston, TX, 2009.
413. Horgan, B.H.N. and [J.F. Bell III](#), [Insights from Ferrous Mineralogy into the Transport of Martian North Polar Materials](#), Abstract 2457, 40th Lunar and Planetary Science Conference, Lunar and Planetary Institute, Houston, TX, 2009.
412. Rice, M.S., [J.F. Bell III](#), E. A. Cloutis, A. Wang, S. W. Ruff, M. A. Craig, D. T. Bailey, J. R. Johnson, P. A. de Souza, W. H. Farrand, [Silica-Rich Deposits and Hydrated Minerals at Gusev Crater](#), Mars, Abstract 2134, 40th Lunar and Planetary Science Conference, Lunar and Planetary Institute, Houston, Texas, 2009.
411. Edgett, K. S., M. A. Ravine, M. A. Caplinger, F. T. Ghaemi, J. A. Schaffner, M. C. Malin, J. M. Baker, D. R. DiBiase, J. Laramée, J. N. Maki, R. G. Willson, [J.F. Bell III](#), J. F. Cameron, W. E. Dietrich, L. J. Edwards, B. Hallet, K. E. Herkenhoff, E. Heydari, L. C. Kah, M. T. Lemmon, M. E. Minitti, T. S. Olson, T. J. Parker, S. K. Rowland, J. Schieber, R. J. Sullivan, D. Y. Sumner, P. C. Thomas, and R. A. Yingst, [The Mars Science Laboratory \(MSL\) Mars Hand Lens Imager \(MAHLI\) Flight Instrument](#), Abstract 1197, 40th Lunar and Planetary Science Conference, Lunar and Planetary Institute, Houston, Texas, 2009.
410. Malin, M.C., M. A. Caplinger, K. S. Edgett, F. T. Ghaemi, M. A. Ravine, J. A. Schaffner, J. N. Maki, R. G. Willson, [J.F. Bell III](#), J. F. Cameron, W. E. Dietrich, L. J. Edwards, B. Hallet, K. E. Herkenhoff, E. Heydari,

- L. C. Kah, M. T. Lemmon, M. E. Minitti, T. S. Olson, T. J. Parker, S. K. Rowland, J. Schieber, R. J. Sullivan, D. Y. Sumner, P. C. Thomas, and R. A. Yingst, [The Mars Science Laboratory \(MSL\) Mars Descent Imager \(MARDI\) Flight Instrument](#), Abstract 1199, 40th Lunar and Planetary Science Conference, Lunar and Planetary Institute, Houston, Texas, 2009.
409. Rice, M S, [J.F. Bell III](#), A.Wang, and E.A. Cloutis, [High-Silica Rocks and Soils at Gusev Crater, Mars: Distribution, Spectra, and Implications for Past Hydrothermal Activity](#), *AGU Fall Meeting*, 15-19 December, Abstract #P53A-1437, 2008.
408. Geissler, P E, Arvidson, R , [Bell, J.F. III](#), Bridges, N , De Souza, P , Golombek, M , Greenberger, R , Greeley, R , Herkenhoff, K , Lahtela, H , Landis, G , Li, R , Moersch, J , Richter, L , Sims, M , Soderblom, J , Sullivan, R , Thompson, B , Verba, C , Waller, D , Wang, A , HIRISE Science Team, and the MER Science Team, [Constraints on Aeolian Degradation Rates on Mars from Erasure of Rover Tracks](#), *AGU Fall Meeting*, 15-19 December, Abstract #P53A-1434, 2008.
407. Anderson, R.B. and [J.F. Bell III](#), [Stratigraphy of Phyllosilicates and Sulfates in Northern Meridiani Planum, Mars](#), *AGU Fall Meeting*, 15-19 December, Abstract #P34B-1393, 2008.
406. Johnson, J R, [Bell III, J.F.](#), Rice, M S, Farrand, W H, Schmidt, M E, Herkenhoff, K E, and Wang, A, [Pancam Spectral Variations Across Home Plate: Bonestell Panorama, Gusev Crater](#), Mars, *AGU Fall Meeting*, 15-19 December, Abstract #P33C-06, 2008.
405. Golombek, M P, Haldemann, A F, Simpson, R A, Furgason, R L, Putzig, N E, Huertas, A, Arvidson, R E, Heet, T, [Bell III, J.F.](#), Mellon, M T, and McEwen, A S, [Surface Properties and Characteristics of Mars Landing Sites from Remote Sensing Data and Ground Truth](#), *AGU Fall Meeting*, 15-19 December, Abstract #P33C-05, 2008.
404. Bell III, J.F., R.B. Anderson, K. Kressler, M.J. Wolff, B. Cantor, and the MARCI Science and Operations Teams, [Color Mosaics and Multispectral Analyses of Mars Reconnaissance Orbit Mars Color Imager \(MARCI\) Observations](#), *AGU Fall Meeting*, 15-19 December, Abstract #P32B-08, 2008.
403. Horgan, B.H., [J.F. Bell III](#), and E.Z. Noe Dobrea, [Aeolian transport of ferrous minerals in the north polar region of Mars](#), *B.A.A.S.*, 40, 389, 2008.
402. Bell III, J.F., [Pancam geologic and mineralogic characterization of the Mars Exploration Rover landing sites](#), 37th COSPAR Scientific Assembly, 13 – 20 July 2008, Montreal, Canada.
401. Sullivan, R., R. Arvidson, [J.F. Bell III](#), M. Golombek, E. Guinness, R. Greeley, K. Herkenhoff, J. Johnson, S. Squyres, S. Thompson, P. Whelley, and J. Wray, [Wind-driven particle mobility on Mars: Insights from MER observations at “El Dorado” and surroundings at Gusev crater](#), *Lunar Planet Sci. Conf. 39*, Abstract #2092, 2008.
400. Soderblom, J.M., M.J. Wolff , and [J.F. Bell III](#), [Temporal variations in the size distribution of martian atmospheric dust from Mars Exploration Rover Navcam observations](#), *Lunar Planet Sci. Conf. 39*, Abstract #1884, 2008.
399. Rice, M.S., [J.F. Bell III](#), A. Wang and E.A. Cloutis, [VIS-NIR spectral characterization of Si-rich deposits at Gusev crater](#), Mars, *Lunar Planet Sci. Conf. 39*, Abstract #2138, 2008.
398. Horgan, B.H.N., [J.F. Bell III](#), E.Z. Noe Dobrea, E.A. Cloutis, D.T. Bailey, M.A. Craig, and L. Stewart, [Hydrated units in the martian north polar region](#), *Lunar Planet Sci. Conf. 39*, Abstract #2122, 2008.
397. Anderson, R.B. and [J.F. Bell III](#), [OMEGA Regional maps of hydrated minerals in Northern Meridiani Planum, Mars](#), *Lunar Planet Sci. Conf. 39*, Abstract #1060, 2008.
396. Farrand, W.H., J.R. Johnson, M. Schmidt, and [J.F. Bell III](#), [VNIR spectral differences on natural and brushed/wind-abraded surfaces on Home Plate, Gusev Crater, Mars: Spirit Pancam and HIRISE color observations](#), *Lunar Planet Sci. Conf. 39*, Abstract #1774, 2008.
395. Thomson, B.J., N.T. Bridges, R. Milliken, [J.F. Bell III](#), and W. Calvin, [New constraints on the origin and evolution of the layered deposits in Gale Crater, Mars](#), *Lunar Planet Sci. Conf. 39*, Abstract #1456, 2008.
394. Wang, A. And [J.F. Bell III](#), [coexistence of Si-rich & S-rich materials at Gusev Crater, Columbia Hills](#), *Lunar Planet Sci. Conf. 39*, Abstract #2186, 2008.
393. Hayes, A.G., J.P. Grotzinger, S.W. Squyres, K. Lewis, J. Metz, [J.F. Bell III](#), and the Athena Science Team, [Reconstruction of eolian bedforms from cross-bedded strata at Victoria Crater, Meridiani Planum, Mars](#), *AGU Fall Meeting*, 10-14 December, Abstract #P31B-0428, 2007.
392. Sullivan, R., R. Arvidson, [J.F. Bell III](#), P. Geissler, M. Golombek, R. Greeley, K. Herkenhoff, J. Johnson, S. Thompson, and P. Whelley, [Wind-driven particle mobility on Mars: Insights from MER observations](#), *AGU Fall Meeting*, 10-14 December, Abstract #P11A-0254, 2007.
391. Domokos, A., [J.F. Bell III](#), P. Brown, M.T. Lemmon, R. Suggs, J. Vaubaillon, and W. Cooke, [Measurement of the Meteoroid Flux at Mars](#), American Astronomical Society, DPS meeting #39, Abstract #40.06, 2007.
390. Golombek, M.P., J.A. Grant, L.S. Crumpler, R. Greeley, R.E. Arvidson, [J.F. Bell III](#), C.M. Weitz, R. Sullivan, P.R. Christensen, L.A. Soderblom, and S.W. Squyres, [Climate change on Mars from erosion rates at the Mars Exploration Rover Landing sites](#), *7th Intl. Conf. on Mars*, held July 9-13, 2007 in Pasadena, California, LPI Contribution No. 1353, Abstract #3034, 2007.
389. Sullivan, R., R. Arvidson, [J.F. Bell III](#), P. Geissler, M. Golombek, R. Greeley, J. Grotzinger, K. Herkenhoff, J. Johnson, B. Jolliff, A. Knoll, S.W. Squyres, S. Thompson, P. Whelley, and C. Weitz, [Insights into martian aeolian processes from Mars Exploration Rovers Spirit and Opportunity](#), *7th Intl. Conf. on Mars*, held July 9-13, 2007 in Pasadena, California, LPI Contribution No. 1353, Abstract #3049, 2007.
388. Rice, M.S., [J.F. Bell III](#), J.R. Johnson and T.M. Hare, [Surface albedo observations at Gusev Crater and Meridiani Planum](#), Mars, *7th Intl. Conf. on Mars*, held July 9-13, 2007 in Pasadena, California, LPI Contribution No. 1353, Abstract #3155, 2007.

387. Kinch, K.M., J. Sohl-Dickstein, and J.F. Bell III, [Dust deposition rates at the MER landing sites](#), *7th Intl. Conf. on Mars*, held July 9-13, 2007 in Pasadena, California, LPI Contribution No. 1353, Abstract #3209, 2007.
386. Horgan, B.H.N., J.F. Bell III, E.Z. Noe Dobrea, and P.C. Thomas, [Remote Sensing Observations and Implications of Martian North Polar Sulfate Deposits](#), *7th Intl. Conf. on Mars*, held July 9-13, 2007 in Pasadena, California, LPI Contribution No. 1353, Abstract #3241, 2007.
385. Farrand, W.H., J.F. Bell III, J.R. Johnson, J.P. Grotzinger, S.W. Squyres, B.L. Jolliff, [Spectral stratigraphy of Victoria Crater, Meridiani Planum, Mars](#), *7th Intl. Conf. on Mars*, held July 9-13, 2007 in Pasadena, California, LPI Contribution No. 1353, Abstract #3250, 2007.
384. Bell III, J.F., [Soil and dust on Mars: Local sources, global processes](#), *7th Intl. Conf. on Mars*, held July 9-13, 2007 in Pasadena, California, LPI Contribution No. 1353, Abstract #3251, 2007.
383. Wang, A., J.F. Bell III, R. Li, J.R. Johnson, W. Farrand, R.E. Arvidson, L. Crumpler, S.W. Squyres, K. Herkenhoff, A. Knudson, W. Chen, and the Athena science team, [Sulfate-rich soils exposed by spirit rover at multiple locations in Gusev Crater on Mars](#), *7th Intl. Conf. on Mars*, held July 9-13, 2007 in Pasadena, California, LPI Contribution No. 1353, Abstract #3348, 2007.
382. Parente, M., J.L. Bishop, and J.F. Bell III, [Automatic identification of dominant phases and anomalies in Pancam images of Gusev soils](#), *7th Intl. Conf. on Mars*, held July 9-13, 2007 in Pasadena, California, LPI Contribution No. 1353, Abstract #3390, 2007.
381. Johnson, J.R., J.F. Bell III, and W.H. Farrand, [Pancam Multispectral Imaging along the Mars Exploration Rover Traverses](#), *Geol. Soc. Am. Annual Meeting*, September, 2007.
380. Wang, A., J.F. Bell III, R. Li, J.R. Johnson, R.E. Arvidson, L. Crumpler, [Salty soils at Gusev crater investigated by Mars Exploration Rover Spirit](#), *AGU Spring Meeting*, Abstract #P32A-07, 2007.
379. Bell III, J.F., [Composition and mineralogy of martian soils](#), *AGU Spring Meeting*, Abstract #P32A-06, 2007.
378. Metz, J.M., J. P. Grotzinger, R. E. Arvidson, J.F. Bell III, M. Golombek, T. Parker, S. W. Squyres, and R. Sullivan, [Structure and sedimentology of the western margin of Erebus crater, Meridiani Planum, Mars](#), *Lunar Planet Sci. Conf. XXXVIII*, Abstract #2235, 2007.
377. Malin, M.C., J.F. Bell III, W. M. Calvin, B. A. Cantor, R. T. Clancy, K. S. Edgett, L. Edwards, R. M. Haberle, P. B. James, S. W. Lee, P. C. Thomas, M. J. Wolff, [Initial observations by the MRO Mars Color Imager and Context Camera](#), *Lunar Planet Sci. Conf. XXXVIII*, Abstract #2068, 2007.
376. Farrand, W.H., J.F. Bell III, J.R. Johnson, D.L. Blaney, [Multispectral reflectance of rocks in the Columbia Hills examined by the Mars Exploration Rover Spirit: Cumberland Ridge to Home Plate](#), *Lunar Planet Sci. Conf. XXXVIII*, Abstract #1957, 2007.
375. Parente, M., J. L. Bishop, and J.F. Bell III, [Spectral unmixing for sulfate identification in Pancam images](#), *Lunar Planet Sci. Conf. XXXVIII*, Abstract #1934, 2007.
374. Morris, R.V., R. E. Arvidson, S. Murchie, J.F. Bell III, D. Humm, K. Lichtenberg, F. Seelos IV, M. Wolff, and the CRISM Science Team, [Initial results from the MRO CRISM hyperspectral imaging spectrometer for the Columbia Hills in Gusev Crater on Mars](#), *Lunar Planet Sci. Conf. XXXVIII*, Abstract #1469, 2007.
373. Wang, A., J.F. Bell III, and R. Li, [Salty soils at Gusev Crater as revealed by Mars Exploration Rover Spirit](#), *Lunar Planet Sci. Conf. XXXVIII*, Abstract #1196, 2007.
372. Bell III, J.F. and the MER/Athena Science Team, High resolution multispectral CCD imaging from the Mars Exploration Rover Pancam instruments, *Geophys. Res. Abs.*, 9, 10620, European Geosciences Union, 2007.
371. Weitz, C., W. Farrand, B. Jolliff, J. Johnson, J.F. Bell III, and A. Yingst, [Spectral Diversity of Rock Fragments at the Meridiani Planum Landing Site](#), *EOS, Trans. AGU*, Fall Meeting Abstract P41B-1268, 2006.
370. Bell III, J.F. and the Athena Science Team, Recent Multispectral Imaging Results from the Pancam Instruments on the Mars Exploration Rovers Spirit and Opportunity, *EOS, Trans. AGU*, Fall Meeting Abstract P43A-07, 2006.
369. McConnochie, T.H., J.F. Bell III, D. Savransky, M.J. Wolff, M.I. Richardson, A.D. Toigo, H. Wang, and P.R. Christensen, [Martian Mesospheric Clouds: Latest Results from THEMIS-VIS](#), *EOS, Trans. AGU*, Fall Meeting Abstract P23A-0044, 2006.
368. Bell III, J.F., A. Fraeman, L.I. Grossman, and the Athena Science Team, [Mars Exploration Rover Pancam observations of spectral diversity in fine-grained materials at the Gusev and Meridiani landing sites](#), *B.A.A.S.*, 38, p. 624, abstract #70.02, 2006.
367. Horgan, B., J.F. Bell III, and E.Z. Noe Dobrea, [A remote sensing survey of martian north polar deposits between 75°N and 85°N](#), *B.A.A.S.*, 38, p. 603, abstract #61.07, 2006.
366. Dehant, V., J. Berthier, J.F. Bell III, V. Lainey, and C. Million, [Astrometric reduction of the Mars Exploration Rover night-time observations of Phobos and Deimos](#), *B.A.A.S.*, 38, p. 602, abstract #61.02, 2006.
365. Schaeffer, D., J.F. Bell III, M. Malin, M. Caplinger, W.M. Calvin, B. Cantor, R.T. Clancy, R.M. Haberle, P.B. James, S. Lee, P. Thomas, and M.J. Wolff, [Calibration and validation of images from the Mars Reconnaissance Orbiter Mars Color Imager \(MARCI\) and Context Camera \(CTX\) instruments](#), *B.A.A.S.*, 38, p. 604-605, abstract #61.11, 2006.
364. Plaut, J. J., P. Christensen, K. Bender, J.F. Bell III, L. Cherednik, A. Ivanov, H. Kieffer, T. McConnochie, M. Richardson, and T. Titus, [THEMIS Visible Imaging of the South Polar Layered Deposits, Martian Southern Spring](#), 2003, Third International Conference on Mars Polar Science and Exploration, October 13-17 2003, Alberta, Canada, abstract no.8130, 2003.
363. Malin, M.C., J.F. Bell III, W. Calvin, B.A. Cantor, R.T. Clancy, A.S. Hale, R.M. Haberle, P.B. James, S.W. Lee, P.C. Thomas, and M.J. Wolff (2006) [Polar observations of MARCI/CTX cameras on MRO](#), Mars Polar Conference IV, October 2006.
362. Berthier, J., V. Lainey, J.F. Bell III, and V. Dehant (2006) [Astrometric reduction of the Mars Exploration Rover night-time observations](#), Societe Francaise d'Astronomie et d'Astrophysique annual meeting, 26-30 June,

- 2006, Paris, France (<http://aramis.obsppm.fr/~sf2a/2006/>).
361. Bell III, J.F., K.S. Edgett, S. Rowland, M.C. Malin (2006) [The Gale Crater Mound: A Strong Candidate Landing Site for the 2009 Mars Science Laboratory](#). First Workshop on Mars Science Laboratory landing site selection, Pasadena CA, May 30-June 2, 2006. Abstracts at http://marsoweb.nas.nasa.gov/landingsites/msl/workshops/1st_workshop/program.html.
 360. Grotzinger, J.P., R.E. Arvidson, [J.F. Bell III](#), B.C. Clark, W.H. Farrand, K. Herkenhoff, J.R. Johnson, A.H. Knoll, E. McCartney, S.M. McLennan, J. Metz., T. Parker; J. Soderblom, S.W. Squyres, R. Sullivan, N. Tosca, and the Athena Science Team (2006) [Sedimentary Facies, Subaqueous Sediment Transport, and Depositional Environment of the Burns Formation, Meridiani Planum](#), *LPSC 37*, Abstract #2254.
 359. McCormack, K., E. Cloutis, [J.F. Bell III](#), L. Stewart, L. Kaletzke, and M. Craig, [Determining mineral composition in the Ultraviolet spectral region from 200 to 400 nm](#), *LPSC 37*, Abstract #2158, 2006.
 358. Li, R., R.E. Arvidson, S. Agarwal, [J.F. Bell III](#), E. Brodyagina, L. Crumpler, D.J. DesMarais, K. Di, M. Golombek, J. Grant, R.L. Kirk, M. Maimone, L.H. Matthies, M. Malin, T. Parker, L.A. Soderblom, S.W. Squyres, J. Wang, L. Yan and the Athena Science Team (2006) [New topographic products and rover localization results for the 2003 Mars Exploration Rover mission](#), *LPSC 37*, Abstract #2118.
 357. Learner, Z.A., [J.F. Bell III](#), J. Farmer, W.H. Farrand, J.P. Grotzinger, J.R. Johnson, B.L. Jolliff, A.H. Knoll, S.M. McLennan, S.W. Squyres, and W.A. Watters (2006) [Surface coatings at Meridiani Planum, Mars](#), *LPSC 37*, Abstract #2040.
 356. Thompson, S.D., W.M. Calvin, W.H. Farrand, J.R. Johnson, [J.F. Bell III](#), and the Athena Science Team (2006) [Fine scale multispectral features of sedimentary bedrock structures of Meridiani Planum, Mars](#), *LPSC 37*, Abstract #1938.
 355. Soderblom, J.M., [J.F. Bell III](#), J.R. Johnson, J.N. Maki, M.J. Wolff, and the Athena Science Team, [Photometry of the Martian Surface using data from the Navigation Cameras on the Mars Exploration Rovers Spirit and Opportunity](#), *LPSC 37*, Abstract #1935, 2006.
 354. Sullivan, R., [J.F. Bell III](#), W. Farrand, J. Grotzinger, K. Herkenhoff, J. Johnson, L. Richter, C. Weitz, and P. Whelley, (2006) [Mars Exploration Rover Spirit investigation of the "El Dorado" sand deposit](#), *LPSC 37*, Abstract #1829.
 353. Herkenhoff, K., S. Squyres, R. Arvidson, [J.F. Bell III](#), N. Cabrol, M. Chapman, B. Ehlmann, B. Franklin, L. Gaddis, P. Geissler, R. Greeley, J. Grotzinger, J. Johnson, B. Jolliff, L. Keszthelyi, A. Knoll, P. Lanagan, E. Lee, J. Maki, S. McLennan, D. Ming, K. Mullins, J. Rice, L. Richter, M. Sims, L. Soderblom, N. Spanovich, R. Springer, R. Sucharski, R. Sullivan, C. Weitz, and the Athena Science Team (2006) [Overview of Athena Microscopic Imager results](#), *LPSC 37*, Abstract #1816.
 352. Bell III, J.F., H.M. Arneson, E.C. Dean, W.H. Farrand, K. Herkenhoff, M.J. Johnson, J.R. Johnson, J. Joseph, K.M. Kinch, M.T. Lemmon, E. McCartney, J. Proton, D. Savransky, J. Soderblom, J.N. Sohl-Dickstein, R.J. Sullivan, M.J. Wolff, and the Athena Science Team (2006) [A Martian Year of High Resolution Multispectral Imaging from the Pancam Instruments on the Mars Exploration Rovers Spirit and Opportunity](#), *LPSC 37*, Abstract #1747.
 351. Farrand, W.H., B.L. Jolliff, [J.F. Bell III](#), and J.R. Johnson (2006) [Visible/near infrared spectral trends between Meridiani Planum surface materials: comparisons between spherules, basaltic sands, outcrop, rinds, and cobbles](#), *LPSC 37*, Abstract #1707.
 350. Knoll, A.H., R.E. Arvidson, [J.F. Bell III](#), B.C. Clark, J.P. Grotzinger, B. Jolliff, S.M. McLennan, S.W. Squyres, N. Tosca, and the Athena Science Team (2006) [Toward an integrated understanding of outcrop rocks observed by Opportunity in Meridiani Planum](#), *LPSC 37*, Abstract #1655.
 349. Bell III, J.F., K.C. Bender, M. Caplinger, L.L. Cherednik, P.R. Christensen, A. Dombovári, T. Glotch, V.E. Hamilton, A.B. Ivanov, T. McConnochie, A. McEwen, G. Mehall, M. Malin, C. Million, K. Murray, D. Savransky, J.R. Skok, M.J. Wolff, and the THEMIS Science Team (2006) [High Spatial Resolution Visible Wavelength Orbital Multispectral Imaging of Mars from the Mars Odyssey THEMIS-VIS Instrument](#), *LPSC 37*, Abstract #1653.
 348. Johnson, J.R., R.E. Arvidson, [J.F. Bell III](#), R. Deen, W. Farrand, W. Grundy, E. Guinness, M. Johnson, K.E. Herkenhoff, M. Lemmon, F. Seelos IV, J. Soderblom, S. Squyres, and the Athena Science Team (2006) [Spectrophotometric Modeling of Soils and Rocks at the Opportunity Landing Site](#), *LPSC 37*, Abstract #1480.
 347. Golombek, M.P., L.S. Crumpler, J.A. Grant, R. Greeley, N.A. Cabrol, T.J. Parker, J.W. Rice Jr., J.G. Ward, R.E. Arvidson, J.E. Moersch, R.L. Fergason, P.R. Christensen, A. Castaño, R. Castaño, A.F.C. Haldemann, R. Li, [J.F. Bell III](#) and S.W. Squyres (2006) [Geology of the Gusev Cratered Plains from the Spirit Rover Traverse](#), *LPSC 37*, Abstract #1424.
 346. Pinet, P.C., A. Jehl, A. Cord, Y.D. Daydou, D. Baratoux, S.C. Chevrel, N. Manaud, R. Greeley, H., Hoffmann, K. Gwinner, F. Scholten, T. Roatsch, R. Jaumann, G. Neukum, [J.F. Bell III](#), R.E. Arvidson, J.R. Johnson, S.W. Squyres, the Mars Express HRSC Co-Investigator Team, and the MER Science Team (2006) [Mars Express / HRSC Imaging Photometry and MER Spirit / Pancam in situ Spectrophotometry Within Gusev](#), *LPSC 37*, Abstract #1220.
 345. McSween, H.Y., S.W. Ruff, R.V. Morris, [J.F. Bell III](#), K.E. Herkenhoff, R. Gellert, and the ATHENA Science Team (2006) [Backstay and Irvine: Alkaline Volcanic Rocks From Gusev Crater, Mars](#), *LPSC 37*, Abstract #1120.
 344. Robinson, M.S., J.B. Garvin, B. Hapke, [J.F. Bell III](#), M. Ulmer, D. Skillman, C.M. Pieters (2006) [HST UV-Visible Observations of the Apollo 17 Landing Area](#), *LPSC 37*, Abstract #2282.
 343. Garvin, J. B., M.S. Robinson, B. Hapke, [J.F. Bell III](#), D. Skillman, M. Ulmer, C. Pieters (2006) [UV Imaging of the Moon from the Hubble Space Telescope](#), *LPSC 37*, Abstract #2100.
 342. McConnochie, T.H., [J.F. Bell III](#), D. Savransky, M.J. Wolff, P.R. Christensen, M.I. Richardson, and T.N. Titus,

- [THEMIS-VIS Measurements of the Altitude and Velocity of Clouds in the Martian Mesosphere](#), *EOS, Trans. AGU*, Fall Meeting Abstract P21E-03, 2005.
341. Farrand, W.H., J.F. Bell III, and J.R. Johnson, [VNIR spectral classes of rocks in the Columbia Hills, Gusev Crater, Mars as observed by the Mars Exploration Rover Spirit's Pancam](#), *EOS, Trans. AGU*, Fall Meeting Abstract P21A-0129, 2005.
340. Wiseman, S.M., R.E. Arvidson, F. Poulet, R.V. Morris, J. Bibring, J.F. Bell III, S.W. Squyres, P.R. Christensen, G. Bellucci, B. Gondet, K.S. Seelos, B.L. Ehlmann, W.H. Farrand, R. Fergason, J.L. Griffes, J. Grotzinger, E.A. Guinness, K. Herkenhoff, D.J. Jerolmack, J.R. Johnson, G. Klingelhöfer, F.P. Seelos, F.P., R.J. Sullivan, M.J. Wolff, [Coordinated Analysis of Mars Express OMEGA Hyperspectral Imaging and Mars Exploration Rover Traverse Data for Meridiani Planum](#), *EOS, Trans. AGU*, Fall Meeting Abstract P14A-03, 2005.
339. Bell III, J.F., [Multispectral Properties of Fine-grained Materials at Gusev and Meridiani from MER/Pancam Observations](#), *EOS, Trans. AGU*, Fall Meeting Abstract P11E-01, 2005.
338. Learner, Z.A., J.F. Bell III, J. Farmer, W.H. Farrand, J.P. Grotzinger, J.R. Johnson, B.L. Joliff, A.H. Knoll, M.B. Madsen, S.M. McLennan, S.W. Squyres, and W.A. Watters, [Fracture fills and surface coatings at Meridiani Planum, Mars](#), *B.A.A.S.*, 37, p. 660, abstract #21.07, 2005.
337. Kaydash, V., M. Kreslavsky, Yu. Shkuratov, G. Videen, M. Wolff, J. Bell, [Synoptic Wind Measurements in the Martian Atmosphere Close to Perihelion](#), Brown/Vernadsky Symposium, 2005.
336. Madsen, M.B., H.M. Arneson, P. Bertelsen, J.F. Bell III, C.S. Binau, R. Gellert, W. Goetz, H.P. Gunnlaugsson, K.E. Herkenhoff, S.F. Hviid, J.R. Johnson, M.J. Johnson, K.M. Kinch, G. Klingelhöfer, J.M. Knudsen, K. Leer, D.E. Madsen, E. McCartney, J. Merrison, D.W. Ming, R.V. Morris, M. Olsen, J.B. Proton, D. Rodionov, M. Sims, S.W. Squyres, T. Wdowiak, A.S. Yen, and the Athena Science Team, [An Update on Results from the Magnetic Properties Experiments on the Mars Exploration Rovers, Spirit and Opportunity](#), In *Lunar and Planet. Sci. XXXVI*, Abstract #2379, LPI, Houston (CDROM), 2005.
335. Schröder, C., G. Klingelhöfer, R.V. Morris, D.S. Rodionov, P.A. De Souza, D.W. Ming, A.S. Yen, R. Gellert, J.F. Bell, III, and the Athena Science Team, [Weathering of Basaltic Rocks from the Gusev Plains Up Into the Columbia Hills from the Perspective of the Mer Mössbauer Spectrometer](#), In *Lunar and Planet. Sci. XXXVI*, Abstract #2309, LPI, Houston (CDROM), 2005.
334. Bertelsen, P., J.F. Bell III, W. Goetz, H.P. Gunnlaugsson, K.E. Herkenhoff, S.F. Hviid, J.R. Johnson, K.M. Kinch, J.M. Knudsen, M.B. Madsen, E. McCartney, J. Merrison, D.W. Ming, R.V. Morris, M. Olsen, J.B. Proton, M. Sims, S.W. Squyres, A.S. Yen, and the Athena Science Team, [Dynamic Dust Accumulation and Dust Removal Observed on the Mars Exploration Rover Magnets](#), In *Lunar and Planet. Sci. XXXVI*, Abstract #2250, LPI, Houston (CDROM), 2005.
333. Sohl-Dickstein, J., J.R. Johnson, W.M. Grundy, E. Guinness, T. Graff, M.K. Shepard, R.E. Arvidson, J.F. Bell III, P. Christensen, R. Morris, [Modeling Visible/Near-Infrared Photometric Properties of Dustfall on A Known Substrate](#), In *Lunar and Planet. Sci. XXXVI*, Abstract #2235, LPI, Houston (CDROM), 2005.
332. Ming, D.W., R.V. Morris, R. Gellert, A. Yen, J. F. Bell, III, D. Blaney, P.R. Christensen, L. Crumpler, P. Chu, W.H. Farrand, S. Gorevan, K.E. Herkenhoff, G. Klingelhöfer, R. Rieder, D.S. Rodionov, S.W. Ruff, C. Schröder, S.W. Squyres, and the Athena Science Team, [Geochemical and Mineralogical Indicators For Aqueous Processes on the West Spur of the Columbia Hills In Gusev Crater](#), In *Lunar and Planet. Sci. XXXVI*, Abstract #2125, LPI, Houston (CDROM), 2005.
331. Farrand, W.H., J.F. Bell, J.R. Johnson, B.C. Clark, B.L. Joliff, [Visible/Near Infrared Spectral Characterization of In Situ Rock Outcrops at Meridiani Planum As Observed By the Mars Exploration Rover Opportunity](#), In *Lunar and Planet. Sci. XXXVI*, Abstract #2082, LPI, Houston (CDROM), 2005.
330. Blaney, D.L., J.F. Bell III, N. Cabrol, P. Christensen, W.H. Farrand, D. Ming, J. Moersch, S. Ruff, and the Athena Science Team, [Spectral Diversity At Gusev Crater from Coordinated Mini-TES and Pancam Observations](#), In *Lunar and Planet. Sci. XXXVI*, Abstract #2064, LPI, Houston (CDROM), 2005.
329. Sullivan, R., J.F. Bell III, W. Calvin, D. Fike, M. Golombek, R. Greeley, J. Grotzinger, K. Herkenhoff, D. Jerolmack, M. Malin, D. Ming, L. A. Soderblom, S. W. Squyres, S. Thompson, W. A. Watters, C. Weitz, A. Yen, [Aeolian Processes At the Mars Exploration Rover Opportunity Landing Site](#), In *Lunar and Planet. Sci. XXXVI*, Abstract #1942, LPI, Houston (CDROM), 2005.
328. McLennan, S.M., J. F. Bell III, W. M. Calvin, P. R. Christensen, B. C. Clark, P. A. De Souza, W. H. Farrand, D. Fike, R. Gellert, A. Ghosh, T. D. Glotch, J. P. Grotzinger, B. Hahn, K. E. Herkenhoff, J. A. Hurowitz, J. R. Johnson, S. S. Johnson, B. Jolliff, G. Klingelhöfer, A. H. Knoll, Z. Learner, M. C. Malin, H. Y. Mcswen Jr., J. Pockock, S. W. Ruff, S. W. Squyres, N. J. Tosca, W. Watters, M. B. Wyatt, A. Yen and the Athena Science Team, [Provenance and Diagenesis of Impure Evaporitic Sedimentary Rocks on Meridiani Planum, Mars](#), In *Lunar and Planet. Sci. XXXVI*, Abstract #1884, LPI, Houston (CDROM), 2005.
327. Johnson, J.R., R.A. Arvidson, J.F. Bell III, W. Farrand, E. Guinness, M. Johnson, K.E. Herkenhoff, M. Lemmon, R.V. Morris, F. Seelos IV, J. Soderblom, L. Soderblom, S. Squyres, M. Wolff, and the Athena Science Team, [Photometric Observations of Soils and Rocks At the Mars Exploration Rover Landing Sites](#), In *Lunar and Planet. Sci. XXXVI*, Abstract #1815, LPI, Houston (CDROM), 2005.
326. Herkenhoff, K., S. Squyres, R. Arvidson, D. Bass, J. Bell III, P. Bertelsen, N. Cabrol, B. Ehlmann, W. Farrand, L. Gaddis, R. Greeley, J. Grotzinger, A. Hayes, S. Hviid, J. Johnson, B. Joliff, K. Kinch, A. Knoll, M. Lemmon, M. Madsen, J. Maki, S. McLennan, D. Ming, R. Morris, J. Rice, L. Richter, M. Sims, P. Smith, L. Soderblom, N. Spanovich, R. Sullivan, C. Weitz, and the Athena Science Team, [Overview of Athena Microscopic Imager Results](#), In *Lunar and Planet. Sci. XXXVI*, Abstract #1778, LPI, Houston (CDROM), 2005.
325. Ravine, M.A., J. F. Bell III, M. C. Malin, and D. P. Miller, [Semi-Autonomous Rover Operations: a Mars Technology Program Demonstration](#), In *Lunar and Planet. Sci. XXXVI*, Abstract #1592, LPI, Houston

- (CDROM), 2005.
324. Golombek, M.P., R. E. Arvidson, J. F. Bell III, P. R. Christensen, J. A. Crisp, B. L. Ehlmann, R. L. Fergason, J. A. Grant, A. F. C. Haldemann, T. J. Parker, S. W. Squyres, and the Athena Science Team, [Assessment of Mars Exploration Rover Landing Site Predictions](#), In *Lunar and Planet. Sci. XXXVI*, Abstract #1542, LPI, Houston (CDROM), 2005.
 323. Weitz, C.M., R. C. Anderson, J. F. Bell III, N. A. Cabrol, W. M. Calvin, B. L. Ehlmann, W. H. Farrand, R. Greeley, K. E. Herkenhoff, J. R. Johnson, B. L. Jolliff, R. V. Morris, L. A. Soderblom, S. W. Squyres, R. J. Sullivan, [Seeing the Soils of Meridiani Planum Through the Eyes of Pancam and Microscopic Imager](#), In *Lunar and Planet. Sci. XXXVI*, Abstract #1362, LPI, Houston (CDROM), 2005.
 322. Li, R., S. W. Squyres, R. E. Arvidson, J. Bell, L. Crumpler, D. J. Des Marais, K. Di, M. Golombek, J. Grant, J. Guinn, R. Greeley, R. L. Kirk, M. Maimone, L. H. Matthies, M. Malin, T. Parker, M. Sims, L. A. Soderblom, J. Wang, W. A. Watters, P. Whelley, F. Xu, and the Athena Science Team, [Results of Rover Localization and Topographic Mapping For the 2003 Mars Exploration Rover Mission](#), In *Lunar and Planet. Sci. XXXVI*, Abstract #1349, LPI, Houston (CDROM), 2005.
 321. Bell III, J.F., H.M. Arneson, W.H. Farrand, W. Goetz, A.G. Hayes, K. Herkenhoff, M.J. Johnson, J.R. Johnson, J. Joseph, K. Kinch, M.T. Lemmon, M.B. Madsen, E. McCartney, R.V. Morris, J. Proton, D. Savransky, F. Seelos, J. Soderblom, J.N. Sohl-Dickstein, R.J. Sullivan, M.J. Wolff, and the Athena Science Team, [Large Multispectral and Albedo Panoramas Acquired By the Pancam Instruments on the Mars Exploration Rovers Spirit and Opportunity](#), In *Lunar and Planet. Sci. XXXVI*, Abstract #1337, LPI, Houston (CDROM), 2005.
 320. Malin, M.C., J. F. Bell, J. Cameron, W. E. Dietrich, K. S. Edgett, B. Hallet, K. E. Herkenhoff, M. T. Lemmon, T. J. Parker, R. J. Sullivan, D. Y. Sumner, P. C. Thomas, E. E. Wohl, M. A. Ravine, M. A. Caplinger, and J. N. Maki, [The Mast Cameras and Mars Descent Imager \(MARDI\) For the 2009 Mars Science Laboratory](#), In *Lunar and Planet. Sci. XXXVI*, Abstract #1214, LPI, Houston (CDROM), 2005.
 319. Edgett, K.S., J. F. Bell III, K. E. Herkenhoff, E. Heydari, L. C. Kah, M. E. Minitti, T. S. Olson, S. K. Rowland, J. Schieber, R. J. Sullivan, R. A. Yingst, M. A. Ravine, M. A. Caplinger, and J. N. Maki, [The Mars Hand Lens Imager \(MAHLI\) For the 2009 Mars Science Laboratory](#), In *Lunar and Planet. Sci. XXXVI*, Abstract #1170, LPI, Houston (CDROM), 2005.
 318. Bell III, J.F. and the Athena Science Team, [Albedo and Multispectral Properties of Rocks and Soils at Gusev and Meridiani from the Mars Exploration Rover Pancam Imaging Systems](#), *EOS, Trans. AGU*, Spring Meeting Abstract P31A-03, 2005.
 317. Pinet, P.C.; Cord, A.; Jehl, A.; Daydou, Y.; Chevrel, S.; Baratoux, D.; Greeley, R.; Neukum, G.; Bell, J.F.; MEX/HRSC Co-I team and MER/Athena Science Team, [Orbital Imaging Photometry and Surface Geologic Processes within Gusev](#), EGU Spring 2005 conference, abstract EGU05-A-09363.
 316. Soderblom, J.M., Bell III, J.F., Arvidson, R.E. Johnson, J.R., Johnson, M.J., Seelos, F.P. (2004) [Mars Exploration Rover Pancam Photometric Data QUBs: Definition and Example Uses](#), *EOS, Trans. AGU*, Abstract P21A-0198.
 315. Bell III, J.F. and the Athena Science Team, [Visible to Near-IR Spectral Properties of Rocks and Soils at Gusev and Meridiani from the Mars Exploration Rover Pancams](#), *EOS, Trans. AGU*, Abstract P13B-05, 2004.
 314. McConnochie, T.H., Bell, J F, Savransky, D, Wolff, M J, Christensen, P R, [Mesospheric Clouds on Mars in Nadir-Pointed THEMIS-VIS Images](#), *EOS, Trans. AGU*, Abstract P11A-0963, 2004.
 313. Savransky, D. and Bell, J F, [True Color and Chromaticity of the Martian Surface and Sky from Mars Exploration Rover Pancam Observations](#), *EOS, Trans. AGU*, Abstract P21A-0197, 2004.
 312. Farrand, W.H., Bell, J F, Morris, R V, Joliff, B L, Squyres, S W, Souza, P A, [VNIR spectral features observed by the Mars Exploration Rover Opportunity in hematite-bearing materials at Meridiani Planum](#), *EOS, Trans. AGU*, Abstract P24A-03, 2004.
 311. Bell III, J.F., E.Z. Noe Dobrea, M.Y.H. Hubbard, M.J. Wolff, K. Noll, A. Lubenow, R.V. Morris, G. Videen, and Y. Shkuratov (2004) [HST WFPC2, ACS, and STIS observations of Mars during the 2003 perihelic opposition](#), *Bull. Amer. Astron. Soc.*, 36, 1182.
 310. Noe Dobrea, E.Z., J.F. Bell III, M.J. Wolff, K. Noll, and A. Lubenow (2004) [Global-scale maps of near-infrared spectral variability on Mars: Analysis of 2003 Mars opposition observations from HST/NICMOS](#), *Bull. Amer. Astron. Soc.*, 36, 1179.
 309. Soderblom, J.M., J.F. Bell III, M.Y.H. Hubbard, and M.J. Wolff (2004) [Martian phase function: Modeling the visible to near-IR surface photometric function using HST-WFPC2 data](#), *Bull. Amer. Astron. Soc.*, 36, 1160.
 308. Bell III, J.F., and the Athena Science Team (2004) [Multispectral imaging results from the Mars Exploration Rover Gusev and Meridiani landing sites](#), *Bull. Amer. Astron. Soc.*, 36, 1129.
 307. Kreslavsky, M., Yu. Shkuratov, V. Kaydash, G. Videen, J.F. Bell III, M. Wolff, M. Hubbard, K. Noll, and A. Lubenow (2004) [Imaging polarimetry of Mars with Hubble Space Telescope](#), *Bull. Amer. Astron. Soc.*, 36, 1128.
 306. Bell III, J.F. and the Athena Science Team (2004) [Mars surface composition: New views from rovers, orbiters, and telescopes](#), *Bull. Amer. Astron. Soc.*, 36, 782.
 305. Squyres, S. and the Athena Science Team (2004) [Initial Results from the MER Athena Science Investigation at Gusev Crater and Meridiani Planum](#) *Eos Trans. AGU*, 85(17), Joint Assembly Suppl., Abstract U43A-01.
 304. Johnson, J.R. and the Athena Science Team (2004) [Mineralogy and Geochemistry at the Meridiani Landing Site, Mars](#), *Eos Trans. AGU*, 85(17), Joint Assembly Suppl., Abstract U44A-03.
 303. Christensen, P.R. and the Athena Science Team (2004) [Initial Results on the Mineralogy and Geochemistry of the Mars Exploration Rover Gusev Landing Site](#), *Eos Trans. AGU*, 85(17), Joint Assembly Suppl., Abstract P22A-02.
 302. Greeley, R., S. Gorevan, S.D. Thompson, P. Whelley, S. Squyres, R. Arvidson, and the Athena Science Team

- (2004) [Gusev crater: direction of active winds derived from the Mars Exploration Rover Rock Abrasion Tool](#), *Eos Trans. AGU*, 85(17), Joint Assembly Suppl., Abstract P33B-06.
301. Li, R., K. Di, L. Matthies, M. Maimone, R.E. Arvidson, L. Crumpler, F. Xu, Wang, X. Niu, C. Serafy, D. Ming, L. Richter, D.D. Marais, M. Golombek, S. Squyres, J. Johnson, [J.F. Bell III](#), J.N. Maki, M. Malin, T. Parker, L. Edwards, M. Sims, A. Wang, J. Garvin, L. Soderblom, and the Athena Science Team (2004) [Topographic Mapping and Rover Localization in MER 2003 Mission Landing Sites](#), *Eos Trans. AGU*, 85(17), Joint Assembly Suppl., Abstract P33D-17.
300. Bell III, J.F., and the Athena Science Team (2004) [Geology of the Mars Exploration Rover Opportunity Meridiani Planum landing site](#), *Eos Trans. AGU*, 85(17), Joint Assembly Suppl., Abstract U44A-01.
299. Bell III, J.F., S. W. Squyres, R. E. Arvidson, H. M. Arneson, D. Bass, N. Cabrol, W. Calvin, J. Farmer, W. H. Farrand, W. Goetz, M. Golombek, J. Grant, J. Grotzinger, E. Guinness, L. Haskin, A. G. Hayes, K. E. Herkenhoff, M. J. Johnson, J. R. Johnson, J. Joseph, K. Kinch, M. T. Lemmon, M. B. Madsen, J. N. Maki, E. McCartney, S. McLennan, H. Y. McSween, M. Malin, D. W. Ming, R. V. Morris, E. Z. Noe Dobrea, T. J. Parker, J. Proton, J. Rice, F. Seelos, J. Soderblom, L. A. Soderblom, J. N. Sohl-Dickstein, R. J. Sullivan, M. J. Wolff, A. Wang, and the Athena Science Team (2004) [Pancam Imaging of the Mars Exploration Rover Landing Sites in Gusev Crater and Meridiani Planum](#). In *Lunar and Planet. Sci. XXXV*, Abstract #2169, LPI, Houston (CDROM).
298. Shkuratov Yu., Kreslavsky M.A., Kaydash V., Opanasenko N., Videen G., Bell J., Wolff M., Hubbard M., Noll K., Lubenow A. (2004) [Imaging Polarimetry of Mars with Hubble Space Telescope in 2003 Opposition](#), In *Lunar and Planet. Sci. XXXV*, Abstract #1435, LPI, Houston (CDROM).
297. Hawke B.R., Blewett D.T., Gillis J.J., Lucey P.G., Peterson C.A., Smith G.A., Bell J.F. III, Campbell B.A., Gaddis L.R., Robinson M.S. (2004) [the Origin of Lunar Crater Rays](#), In *Lunar and Planet. Sci. XXXV*, Abstract #1477, LPI, Houston (CDROM).
296. Golombek M. Grant J. Parker T. Crisp J. Squyres S. Carr M. Haldemann A. Arvidson R. Ehlmann B. Bell J. Christensen P. Fergason R. Ruff S. Cabrol N. Kirk R. Johnson J. Soderblom L. Weitz C. Malin M. Rice J. Anderson R. Athena Science Team (2004) [Preliminary Assessment of Mars Exploration Rover Landing Site Predictions](#), In *Lunar and Planet. Sci. XXXV*, Abstract #2185, LPI, Houston (CDROM).
295. Ming D. W. Anderson R. C. Arvidson R. E. Bell J. F. III Biesiadecki J. Christensen P. H. Gorevan S. P. Ehlmann B. L. Guinness E. A. Graff T. G. Fergason R. L. Haldeman A. F. C. Herkenhoff K. E. Johnson J. R. Jolliff B. L. Landis G. A. Lemmon M. T. Li R. Lindemann R. Matijevic J. R. Morris R. V. Richter L. Seelos F. P. Smith P. H. Soderblom J. Spanovich N. Squyres S. W. Sullivan R. J. Yen A. MER Athena Science Team (2004) [Soil and Rock Physical Properties at the Mars Exploration Rover Landing Sites: Early Returns](#), In *Lunar and Planet. Sci. XXXV*, Abstract #2181, LPI, Houston (CDROM).
294. Herkenhoff K. Squyres S. Archinal B. Arvidson R. Bass D. Barrett J. Becker K. Becker T. Bell J. III Burr D. Cook D. Crumpler L. Gaddis L. Ghosh A. Hayes A. Howington-Kraus A. Johnson J. Jolliff B. Kirk R. Lee E. M. Lemmon M. Maki J. McLennan S. Ming D. Morris R. Niebur C. Rice J. Rosiek M. Sims M. Smith P. Spanovich N. Sucharski B. Sucharski T. Sullivan R. Torson J. Weitz C. Magnetic Properties Team, Athena Science Team (2004) [First Results of the Athena Microscopic Imager Investigation](#), In *Lunar and Planet. Sci. XXXV*, Abstract #2182 LPI, Houston (CDROM).
293. Seelos F. P. IV Soderblom J. M. Farrand W. H. Johnson J. R. Sohl-Dickstein J. N., Bell J. F. III Squyres S. W. Arvidson R. E. Morris R. V. McSween H. Y. Calvin W. M. Blaney D. L. Athena Science Team (2004) [Mars Exploration Rover Panoramic Camera Multidimensional Analyses and Surface Spectral Variability](#), In *Lunar and Planet. Sci. XXXV*, Abstract #2166 LPI, Houston (CDROM).
292. Glotch T. D. Christensen P. R. Wyatt M. B. Bandfield J. L. Graff T. G. Rogers D. Ruff S. W. Hayes A. G. Morris R. V. Farrand W. Calvin W. Moersch J. E. Ghosh A. Johnson J. R. Fallacaro A. Blaney D. Squyres S. W. Bell J. F. III Klingelhöfer G. Souza P. Athena Science Team (2004) [Hematite at Meridiani Planum: Detailed Spectroscopic Observations and Testable Hypotheses](#), In *Lunar and Planet. Sci. XXXV*, Abstract #2168, LPI, Houston (CDROM).
291. McSween H., Arvidson R. Bandfield J. Bell J. Blaney D. Calvin W. Christensen P. Clark B. Crisp J. Economou T. Farrand W. Ghosh A. Herkenhoff K. Johnson J. Klingelhöfer G. McLennan S. Moersch J. Morris R. Rieder R. Ruff S. Schroeder C. Souza P. Squyres S. Wänke H. Wyatt M. Zipfel J. (2004) [Preliminary Mineralogy and Geochemistry Results at the MER-A Landing Site in Gusev](#), In *Lunar and Planet. Sci. XXXV*, Abstract #2167, LPI, Houston (CDROM).
290. Morris R. V., Squyres S. Arvidson R. E. Bell J. F. III Christensen P. C. Gorevan S. Herkenhoff K. Klingelhöfer G. Rieder R. Farrand W. Ghosh A. Glotch T. Johnson J. R. Lemmon M. McSween H. Y. Ming D. W. Schroeder C. de Souza P. Wyatt M. Athena Science Team (2004) [A First Look at the Mineralogy and Geochemistry of the MER-B Landing Site in Meridiani Planum](#), In *Lunar and Planet. Sci. XXXV*, Abstract #2179, LPI, Houston (CDROM).
289. Hviid S. F., Bertelsen P. Goetz W. Kinch K. M. Knudsen J. M. Madsen M. B. Squyres S. W. Bell J. F. III Yen A. Johnson M. J. Proton J. B. McCartney E. Arneson H. Gunnlaugsson H. P. Merrison J. Wdowiak T. Athena Science Team (2004) [Preliminary Results of the Magnetic Properties Experiments on the Mars Exploration Rovers, Spirit and Opportunity](#), In *Lunar and Planet. Sci. XXXV*, Abstract #2177, LPI, Houston (CDROM).
288. McConnochie T. H. Bell J. F. III Christensen P. R. Malin M. Caplinger M. Ravine M. Mehall G. L. Silverman S. H. Hayes A. G. Noe Dobrea E. Z. Savransky D. (2004) [Mars Odyssey THEMIS-VIS Calibration](#), In *Lunar and Planet. Sci. XXXV*, Abstract #2064, LPI, Houston (CDROM).
287. Morris R. V. Graff T. G. Ming D. W. Bell J. F. III Le L. Mertzman S. A. Christensen P. R. (2004) [Palagonitic Mars: A Basalt Centric View of Surface Composition and Aqueous Alteration](#), In *Lunar and Planet. Sci. XXXV*, Abstract #1606, LPI, Houston (CDROM).

286. Bell III, J.F., M. Lemmon, and M. Wolff, [Transits of Mars I and II](#), IAU Circular 8298, March 8, 2004.
285. Noe Dobrea, E.Z., [J.F. Bell III](#), M.J. Wolff, and M.D. Smith, [TES mineralogy in the wings of the CO₂ band](#), *EOS, Trans. AGU*, Abstract P21B-0049, 2003.
284. Strausberg, M J, Richardson, M I, Bandfield, J, Bender, K C, Cherednik, L, McConnochie, T, Smith, M D, Wang, H, Bell, J, and Christensen, P R, [THEMIS High-Resolution Atmospheric thermal and Visible Imaging Campaign](#), *EOS, Trans. AGU*, Abstract P21C-04, 2003.
283. Bell III, J.F., M.J. Wolff, K. Noll, A. Lubenow, E.Z. Noe-Dobrea, M.Y.H. Hubbard, R.V. Morris, G. Videen, and Y. Shkuratov (2003) [Hubble Space Telescope Imaging and Spectroscopy of Mars During the Extremely Close Approach of 2003](#), *EOS, Trans. AGU*, Abstract P12C-01, 2003.
282. Warren, J.W., K. J. Heffernan, S. J. Conard, [J. F. Bell III](#), A. L. Cochran, J. D. Boldt, A. F. Bowman, E. H. Darlington, T. Deluzio, D. Fiore, D. E. Fort, D. Garcia, M. P. Grey, B. L. Gotwols, A. Harch, J. R. Hayes, G. A. Heyler, L. M. Howser, D. C. Humm, N. R. Izenberg, K. E. Kosakowski, W. J. Lees, D. A. Lohr, H. M. Luther, D. S. Mehoke, S. L. Murchie, R. A. Reiter, B. Rider, G. D. Rogers, D. Sampath, E. D. Schaefer, T. S. Spisz, K. Strohbehm, S. Svenson, H. W. Taylor, P. L. Thompson, J. Veverka, R. L. Williams, P. Wilson (2003) [the CONTOUR Remote Imager and Spectrometer](#) (CRISP), in "Instruments, Methods, and Missions for Astrobiology VII," SPIE, vol. 5163, San Diego, August 2003.
281. Conard, S.J., J.W. Warren, O.S. Barnuoin-Jha, [J.F. Bell III](#), J.D. Boldt, A.F. Bowman, A.L. Cochran, E.H. Darlington, T. Deluzio, D. Fiore, D. Garcia, B.L. Gotwols, M.P. Grey, A. Harch, J.R. Hayes, K.J. Heffernan, D.C. Humm, N.R. Izenberg, K.E. Kosakowski, H.M. Luther, D.S. Mehoke, S.L. Murchie, L.M. Prockter, B. Rider, D. Sampath, E.D. Schaefer, S. Svenson, H.W. Taylor, P.L. Thompson, J. Veverka, R.L. Williams, P. Wilson, [CONTOUR Forward Imager on the Comet Nucleus Tour Mission](#), in "Instruments, Methods, and Missions for Astrobiology VII," Proc. SPIE, vol. 5163, 72 (February 10, 2004); doi:10.1117/12.506344; <http://dx.doi.org/10.1117/12.506344>, 2004.
280. Bell III, J.F., T.H. McConnochie, M.J. Wolff, D. Savransky, B. Stiglitz, M. Malin, P.R. Christensen, G.L. Mehall, L.L. Cherednik, K.C. Bender, and the THEMIS Science Team (2003) [Visible Color Properties of Mars at Sub-100 m Resolutions from Mars Odyssey THEMIS/VIS](#), *Bull. Amer. Astron. Soc.*, 35, 926.
279. Klassen, D.R. and [J.F. Bell III](#), (2003) [Seasonal comparison of Mars NIR principal components](#), *Bull. Amer. Astron. Soc.*, 35, 936.
278. Ivanov, A.B., S. Byrne, M. I. Richardson, A. R. Vasavada, T. N. Titus, J. F. Bell III, T. H. McConnochie, P. R. Christensen, and the THEMIS Science Team (2003) [Analysis of Properties of the North Polar Layered Deposits: THEMIS Data in Context of MGS Data](#), In *6th International Conference on Mars*, Abstract #3182, LPI, Houston (CDROM).
277. Herkenhoff, K.E., S. W. Squyres, J. F. Bell III, J. N. Maki, H. M. Arneson, D. I. Brown, S. A. Collins, A. Dingizian, S. T. Elliot, W. Goetz, E. C. Hagerott, A. G. Hayes, M. J. Johnson, R. L. Kirk, M. B. Madsen, R. V. Morris, L. M. Scherr, M. A. Schwochert, L. R. Shiraiishi, G. H. Smith, L. A. Soderblom, J. N. Sohl-Dickstein, M. V. Wadsworth, and the Athena Science Team (2003) [the Athena Microscopic Imager investigation](#), In *6th Annual Conference on Mars*, Abstract #3276, LPI, Houston (CDROM).
276. McConnochie, T.H., [J.F. Bell III](#), M. J. Wolff, M. D. Smith, J. L. Bandfield, M. I. Richardson, and P. R. Christensen, (2003) [Mars Odyssey THEMIS-VIS: Surface-Atmosphere Separation and Derivation of Aerosol Properties](#), In *6th Annual Conference on Mars*, Abstract #3077, LPI, Houston (CDROM).
275. Noe Dobrea, E.Z., [J.F. Bell III](#), M.J. Wolff, and K.J. Snook, (2003) [MGS/TES-Odyssey/THEMIS-IR Analysis of Localized Low Albedo Regions in Valles Marineris](#), In *6th Annual Conference on Mars*, Abstract #3179, LPI, Houston (CDROM).
274. Bell III, J.F., S.W. Squyres, K.E. Herkenhoff, J. Maki, M. Schwochert, A. Dingizian, D. Brown, R.V. Morris, H.M. Arneson, M.J. Johnson, J. Joseph, J.N. Sohl-Dickstein, and the Athena Science Team (2003) [Pancam: A Multispectral Imaging Investigation on the NASA 2003 Mars Exploration Rover Mission](#), In *6th Annual Conference on Mars*, Abstract #3029, LPI, Houston (CDROM).
273. Bell III, J.F. T. McConnochie, D. Savransky, B. Stiglitz, M.J. Wolff, P.R. Christensen, G. Mehall, P.B. James, M. Malin, M. Caplinger, M. Ravine, L.L. Cherednik, K.C. Bender, K. Murray, and the THEMIS Science Team (2003) [High Spatial Resolution Visible Color Units on Mars from the Mars Odyssey THEMIS/VIS Instrument](#), In *6th Annual Conference on Mars*, Abstract #3238, LPI, Houston (CDROM).
272. Wagstaff, K. and [J.F. Bell III](#) (2003) [Automated analysis of Mars multispectral observations](#), In *6th Annual Conference on Mars*, Abstract #3120, LPI, Houston (CDROM).
271. Wagstaff, K., C. Cardie, and [J.F. Bell III](#) (2003) Using Soft Constraints to Encode Domain Knowledge for Clustering, International Conference on Machine Learning, IEEE, Machine Learning Conference, 2003.
270. Bell III, J.F., T. McConnochie, M.J. Wolff, P.R. Christensen, G. Mehall, M. Malin, M. Caplinger, M. Ravine, L.L. Cherednik, K.C. Bender, K. Murray, and the THEMIS Science Team (2003) [Color Imaging of Mars with the Visible Imaging Subsystem \(VIS\) on the Mars Odyssey THEMIS Instrument](#), In *Lunar and Planet. Sci. XXXIV*, Abstract #1993, LPI, Houston (CDROM).
269. Christensen, P.R., J.L. Bandfield, [J.F. Bell III](#), V.E. Hamilton, A. Ivanov, B.M. Jakosky, H.H. Kieffer, M.D. Lane, M.C. Malin, T. McConnochie, A.S. McEwen, H.Y. McSween, Jr., J.E. Moersch, K.H. Nealson, J.W. Rice, Jr., M.I. Richardson, S.W. Ruff, M.D. Smith, and T.N. Titus (2003) [Early Results from the Odyssey THEMIS Investigation](#), In *Lunar and Planet. Sci. XXXIV*, Abstract #1519, LPI, Houston (CDROM).
268. Izenberg, N.I., S. L. Murchie, [J.F. Bell III](#), L.A. McFadden, D.D. Wellnitz, B.E. Clark, and M.J. Gaffey (2003) [Eros Spectral Properties and Geologic Processes from Combined NEAR NIS and MSI Data Sets](#), In *Lunar and Planet. Sci. XXXIV*, Abstract #1870, LPI, Houston (CDROM).
267. Bell III, J.F., S.W. Squyres, K.E. Herkenhoff, J. Maki, M. Schwochert, A. Dingizian, D. Brown, R.V. Morris, H.M. Arneson, M.J. Johnson, J. Joseph, J.N. Sohl-Dickstein, and the Athena Science Team (2003) the

- [Panoramic Camera \(Pancam\) Investigation on the NASA 2003 Mars Exploration Rover Mission](#), In *Lunar and Planet. Sci. XXXIV*, Abstract #1980, LPI, Houston (CDROM).
266. Morris, R.V., T.G. Graff, D.W. Ming, S.A. Mertzman, and J.F. Bell III (2003) [Hydrothermal Alteration on Basaltic Mauna Kea Volcano as a Template for Identification of Hydrothermal Alteration on Basaltic Mars](#), In *Lunar and Planet. Sci. XXXIV*, Abstract #1900, LPI, Houston (CDROM).
265. Wolff, M.J., J.F. Bell III, and J. Sohl-Dickstein (2002) [the single scattering albedo of Martian atmospheric dust in the 290-500 nm region](#), *Eos. Trans. AGU*, 83(47), Fall Meeting Supplement, Abstract P72A-0494, F838-839.
264. Ming, D.W., R.V. Morris, T.G. Graff, R.E. Arvidson, B.J. Joliff, E.A. Guinness, F.P. Seelos, J.F. Bell III, and S.F. Mertzman (2002) [Mineralogic ground truth for AVIRIS hyperspectral observations of cinder cones on the summit of Mauna Kea volcano](#), *Eos. Trans. AGU*, 83(47), Fall Meeting Supplement, Abstract P72A-0482, F836.
263. Bell III, J.F., S.W. Squyres, K.E. Herkenhoff, J. Maki, M. Schwochert, R.V. Morris, and the Athena Science Team (2002) [the NASA 2003 Mars Exploration Rover Panoramic Camera \(Pancam\) Investigation](#), *Eos. Trans. AGU*, 83(47), Fall Meeting Supplement, Abstract P22A-0395, F863.
262. Bell III, J.F., T.H. McConnochie, M.J. Wolff, P.R. Christensen, G. Mehall, M. Malin, M. Caplinger, M. Ravine, L.L. Cherednik, K.C. Bender, K. Murray, and the THEMIS Science Team (2002) [Calibration and initial analysis of multispectral images of Mars from the VIS subsystem on the Mars Odyssey THEMIS investigation](#), *Eos. Trans. AGU*, 83(47), Fall Meeting Supplement, Abstract P11B-13, F848.
261. Christensen, P.R., B.M. Jakosky, H.H. Kieffer, M. Malin, H. McSween, K. Nealon, J.F. Bell III, A. Ivanov, M. Lane, A. McEwen, J. Moersch, M. Richardson, and M. Smith (2002) [the Martian surface as seen by the 2001 Mars Odyssey thermal Emission Imaging System Experiment](#), *Eos. Trans. AGU*, 83(47), Fall Meeting Supplement, Abstract P11B-07, F847.
260. Christensen, P.R., B.M. Jakosky, H.H. Kieffer, M. Malin, H. McSween, K. Nealon, J.F. Bell III, A. Ivanov, M. Lane, and J. Moersch (2002) [New observations of Mars from the Odyssey thermal Emission Imaging System](#), *Bull. Amer. Astron. Soc.*, 34, 853.
259. Lim, L., J.F. Bell III, T. McConnochie, T. Hayward, and B. Clark (2002) [the Cornell Mid-Infrared Asteroid Spectroscopy \(MIDAS\) Survey: Results from 2001](#), *Bull. Amer. Astron. Soc.*, 34, 841.
258. Noe Dobrea, E., J.F. Bell III, M.J. Wolff, and M. Smith (2002) [Spectral variability in the layered terrain of Melas Chasma: Tantalizing evidence for hydroxides using MGS/TES](#), *Bull. Amer. Astron. Soc.*, 34, 838.
257. Bell III, J.F., M.Y.H. Hubbard, and M.J. Wolff (2002) [Visible to Near-IR \(255 to 1042 nm\) Spectra of Airborne Martian Dust from 1999 and 2001 HST/WFPC2 Observations](#), *Bull. Amer. Astron. Soc.*, 34, 842.
256. Klassen, D.R. and J.F. Bell III (2002) [Modeling Martian ice clouds in the near-infrared](#), *Bull. Amer. Astron. Soc.*, 34, 865.
255. Shestopalov, D.I., L.F. Golubeva, and J.F. Bell III (2002) [Constraints on Eros Surface Composition and Meteorite Analogs Based on Low Phase Angle Near-IR Spectra](#), in International Workshop On "Photometry and Polarimetry of Asteroids: Impact on Collaboration," (Kharkiv, Ukraine), September 17–19, 2002.
254. Bell III, J.F., W.H. Farrand, J.R. Johnson, and R.V. Morris (2002). [Low abundance materials at the Mars Pathfinder landing site: An investigation using spectral mixture analysis and related techniques](#). In *Lunar and Planet. Sci. XXXIII*, Abstract #1775, LPI, Houston (CDROM).
253. Morris, R.V., J.F. Bell III, W.H. Farrand, and M.J. Wolff (2002) [Constraints on Martian Global Surface Mineralogical Composition, Albedo, and Thermal Inertia from Hubble Space Telescope Extended-Visible Multispectral Data](#). In *Lunar and Planet. Sci. XXXIII*, Abstract #1913, LPI, Houston (CDROM).
252. Morris, R.V., J.F. Bell III, and D.W. Ming (2001) [Hydrothermal alteration products of basaltic material on Mauna Kea as a template for detection of hydrothermal alteration on Mars](#), *Eos. Trans. AGU*, 82, Fall Meet. Suppl., F728.
251. Bell III, J.F., J. Sohl-Dickstein, J. Neubert, M.J. Wolff, R.T. Clancy, R.V. Morris, P.B. James, S.W. Lee, K. Noll, and A. Lubenow (2001) [Hubble Space Telescope imaging and spectroscopy of Mars during 2001](#), *Eos. Trans. AGU*, 82, Fall Meet. Suppl., F722-723.
250. Wolff, M.J., R.T. Clancy, K.M. Pitman, J.F. Bell III, and P.B. James (2001) [Constraints on martian aerosol particles using MGS/TES and HST data: Shapes](#), *Eos. Trans. AGU*, 82, Fall Meet. Suppl., F716.
249. Klassen, D.R. and J.F. Bell III (2001) [Principal Components Analysis Studies of Martian Clouds](#), *Bull. Amer. Astron. Soc.*, 33, 1069-1070.
248. Lim, L.F., J.F. Bell III, B.E. Clark, T.H. McConnochie, T.L. Hayward, A. Barucci, E. Dotto (2001) [Initial Results of the Cornell Mid-IR Asteroid Spectroscopy Survey](#), *Bull. Amer. Astron. Soc.*, 33, 1119.
247. Noe Dobrea, E.Z., J.F. Bell III, M.J. Wolff, and P.B. James (2001) [H₂O- and OH-bearing minerals in the martian regolith: Analysis of 1997 observations from HST/NICMOS](#), *Bull. Amer. Astron. Soc.*, 33, 1126-1127.
246. Bell III, J.F., M.J. Wolff, J. Sohl-Dickstein, R.V. Morris (2001) [High Resolution Imaging Spectroscopy of Mars using HST/STIS during 1999 and 2001](#), *Bull. Amer. Astron. Soc.*, 33, 1127.
245. Cloutis, E.A., N. Rowlands, P. Budkewitsch, F. Fueten, and J.F. Bell III (2001) Enhanced reflectance spectroscopy for planetary exploration, presented at *Third Canadian Space Exploration Workshop*, May 25-26, Montreal, Quebec.
244. Morris, R.V. and J.F. Bell III (2001) [Hubble Space Telescope Visible to Near-IR Imaging and Spectroscopy of Mars in Support of Future Landing Site Selection](#), In "First Landing Site Workshop for the 2003 Mars Exploration Rovers", 24-25 January 2001, NASA Ames Research Center, Mountain View, CA, abstract #9039, LPI, Houston TX.
243. Noe Dobrea, E.Z. and J.F. Bell III (2001) [Composition and mineralogy of the Martian north polar dune deposits: Constraints from TES and HST observations](#). In *Lunar and Planet. Sci. XXXII*, Abstract #2099, LPI, Houston

- (CDROM).
242. Izenberg, N.R., [J.F. Bell III](#), B.E. Clark, S.L. Murchie, M. Gaffey, D. Wellnitz, L. McFadden, M.S. Robinson, and the MSI-NIS Team (2001) [Comparison of Color and Spectral properties of Eros using NIS plus MSI](#). In *Lunar and Planet. Sci. XXXII*, Abstract #2083, LPI, Houston (CDROM).
 241. Berthoud, M.G., [J.F. Bell III](#), and B. E. Clark (2001) [Testing spectral methods for asteroid surface compositional determination using spectroscopic and compositional data of ordinary chondrite meteorites](#). In *Lunar and Planet. Sci. XXXII*, Abstract #2080, LPI, Houston (CDROM).
 240. Morris, R.V., T. G. Graff, T. D. Shelfer, and [J.F. Bell III](#) (2001) [Effects of palagonitic dust coatings on visible, near-IR, and Mössbauer spectra of rocks and minerals: Implications for mineralogical remote sensing of Mars](#). In *Lunar and Planet. Sci. XXXII*, Abstract #1912, LPI, Houston (CDROM).
 239. Burbine, T.H., T. J. McCoy, L. R. Nittler, and [J.F. Bell III](#) (2001) [Could 433 Eros have a primitive achondritic composition?](#) In *Lunar and Planet. Sci. XXXII*, Abstract #1860, LPI, Houston (CDROM).
 238. Murchie, S., Barnouin-Jha, O., J. Johnson, [J.F. Bell III](#), and R.V. Morris (2001) [Spectral differences between shape classes of rocks at the Mars Pathfinder landing site](#). In *Lunar and Planet. Sci. XXXII*, Abstract #1825, LPI, Houston (CDROM).
 237. Farrand, W.H., J.R. Johnson, and [J.F. Bell III](#) (2001) [N-dimensional visualization and spectral mixture analysis applied to Imager for Mars Pathfinder data: Detection and mapping of rocks and soils](#). In *Lunar and Planet. Sci. XXXII*, Abstract #1656, LPI, Houston (CDROM).
 236. McCoy, T.J., M.J. Gaffey, [J.F. Bell III](#), W.V. Boynton, T.H. Burbine, C.R. Chapman, A.F. Cheng, B.E. Clark, P.E. Clark, L.G. Evans, P. Gorenstein, P. Lucey, L. McFadden, S. Murchie, L.R. Nittler, M.S. Robinson, S.W. Squyres, R.D. Starr, J.I. Trombka and J. Veverka (2001) [the composition of 433 Eros: A mineralogical-chemical synthesis](#). In *Lunar and Planet. Sci. XXXII*, Abstract #1556, LPI, Houston (CDROM).
 235. Lucey, P.G., J.L. Hinrichs, M. Urquhart-Kelly, D. Wellnitz, [J.F. Bell III](#), and B.E. Clark (2001) [thermo-reflectance spectra of Eros: Unambiguous detection of olivine](#). In *Lunar and Planet. Sci. XXXII*, Abstract #1490, LPI, Houston (CDROM).
 234. Cloutis, E.A. and [J.F. Bell III](#) (2001) Reflectance spectra of heated palagonites. In *Lunar and Planet. Sci. XXXII*, Abstract #1208, LPI, Houston (CDROM).
 233. Bell III, J.F., R. V. Morris, W. H. Farrand, and M. J. Wolff (2001). [A Re-Assessment of Global Color Units on Mars from Hubble Space Telescope Visible to Near-IR Imaging and Spectroscopy](#). In *Lunar and Planet. Sci. XXXII*, Abstract #1484, LPI, Houston (CDROM).
 232. Murchie, S., J. Veverka, M. Robinson, P. Thomas, [J.F. Bell III](#), N. Izenberg, C. Chapman, A. Harch, M. Bell, B. Carcich, A. Cheng, B. Clark, D. Domingue, D. Dunham, R. Farquhar, M. Gaffey, E. Hawkins, J. Joseph, R. Kirk, H. Li, P. Lucey, M. Malin, L. McFadden, W. Merline, J. Miller, W. Owen, C. Peterson, L. Prockter, J. Warren, D. Wellnitz, B. Williams, D. Yeomans, and B. Bussey (2000) [Imaging and infrared spectroscopy results from NEAR MSI and NIS at Eros](#), *Eos Trans. AGU*, 81, F803-804.
 231. Izenberg, N.I., [J.F. Bell III](#), B.E. Clark, S.L. Murchie, M.S. Robinson, D. Domingue, L.M. Prockter, L. McFadden, D. Wellnitz, M.J. Gaffey, P. Lucey, C. Chapman, J. Veverka, and the MSI/NIS team (2000) Comparison of visible color and near-IR spectral properties of Eros' surface using NEAR NIS and MSI data, *Eos Trans. AGU*, 81, F804.
 230. Chapman, C.R., W.J. Merline, [J.F. Bell III](#), M. Robinson, A. Cheng, S. Murchie, B. Clark, and the MSI/NIS team (2000) [Small-scale surface features on Eros](#), *Eos Trans. AGU*, 81, F804.
 229. Martin, P.D., [J.F. Bell III](#), S.L. Murchie, O.S. Barnouin-Jha, W.H. Farrand, and J.R. Johnson (2000) Mars Pathfinder landing site: Spectral diversity and soil classification revisited, *Eos Trans. AGU*, 81, F783.
 228. Bell III, J.F., E.A. Cloutis, R.V. Morris, M.J. Wolff, and K.D. Gordon (2000) [Nature and mineralogy of unweathered dark materials on Mars](#), *Eos Trans. AGU*, 81, F781.
 227. Smith, G.H., E.C. Hagerott, L.M. Scherr, K.E. Herkenhoff, and J.F. Bell III, [Optical designs for the Mars '03 rover cameras](#), SPIE Conference on "Current Developments in Lens Design and Optical Engineering (AM414)", San Diego, July 31 - Aug 2, 2001.
 226. Farrand, W.H., J.F. Bell III, R.V. Morris, and M.J. Wolff, [Global color units on Mars from 1999 HST/WFPC2 imaging data](#), *Bull. Amer. Astron. Soc.*, 32, 1119, 2000.
 225. Klassen, D.R. and J.F. Bell III, An investigation of Martian volatiles using absolutely-calibrated groundbased near-IR images, *Bull. Amer. Astron. Soc.*, 32, 1105, 2000.
 224. Hawke, B.R., D.T. Blewett, P.G. Lucey, C.A. Peterson, J.F. Bell III, B.A. Campbell, and M.S. Robinson, [the origin of lunar crater rays](#), *Bull. Amer. Astron. Soc.*, 32, 1034, 2000.
 223. Chapman, C.R., W. Merline, B. Bierhaus, P. Thomas, J. Joseph, J. Veverka, J.F. Bell III, N. Izenberg, S. Murchie, L. Prockter, A. Cheng, L. McFadden, and M. Robinson, Craters, boulders, and impact history of Eros, *Bull. Amer. Astron. Soc.*, 32, 996, 2000.
 222. Clark, B.E., P. Helfenstein, J.F. Bell III, J. Veverka, N.I. Izenberg, D. Domingue, D. Wellnitz, and L. McFadden, [NEAR infrared spectrometer photometry of asteroid 433 Eros](#), *Bull. Amer. Astron. Soc.*, 32, 995, 2000.
 221. Izenberg, N.I., J.F. Bell III, B.E. Clark, S.L. Murchie, L. Prockter, D. Domingue, M.S. Robinson, L. McFadden, D. Wellnitz, M.J. Gaffey, P. Lucey, C. Chapman, J. Veverka, and the NEAR MSI/NIS Team, [Investigation of visible color and near-IR spectra properties of Eros' surface using co-located NEAR NIS and MSI data](#), *Bull. Amer. Astron. Soc.*, 32, 995, 2000.
 220. McFadden, L.A., D.D. Wellnitz, C.O. Gross, M.L. Schnaubelt, M.J. Gaffey, J.F. Bell III, B.E. Clark, N. Izenberg, S. Murchie, P. Martin, C.R. Chapman, and the MSINIS Science Team, Mineralogy of 433 Eros from NEAR's near-infrared spectrometer (NIS), *Bull. Amer. Astron. Soc.*, 32, 995, 2000.
 219. Bell III, J.F., B.E. Clark, N. Izenberg, C. Dodd, R. Clinite, C. Peterson, P. Martin, S. Murchie, L. McFadden, D. Wellnitz, M.J. Gaffey, P. Lucey, M. Winter, C. Chapman, J. Veverka, and the NEAR MSI/NIS Team, [Spatial](#)

- [variations in the near-IR spectral properties of 433 Eros: Analysis of NEAR/NIS low orbit observations](#), *Bull. Amer. Astron. Soc.*, 32, 995, 2000.
218. Thomas, P.C., J. Joseph, J.F. Bell III, J.F. Veverka, B. Clark, M. Robinson, N. Izenberg, S. Murchie, L. Prockter, A. Cheng, L. McFadden, and C. Chapman, [Eros: Shape, slopes, and slope processes](#), *Bull. Amer. Astron. Soc.*, 32, 994, 2000.
217. Murchie, S. L., J.F. Bell III, and R.V. Morris, [Visible Wavelength Spectroscopy of Ferric Minerals: A Key Tool for Identification of Ancient Martian Aqueous Environments](#), Workshop on Concepts and Approaches for Mars Exploration, July 18-20, 2000, Houston, Texas, abstract no.6088.
216. Veverka, J., M. Robinson, P. Thomas, S. Murchie, J.F. Bell III, N. Izenberg, C. Chapman, D.K. Yeomans, and the NEAR MSI-NIS Team, NEAR-Shoemaker at Eros: Imaging and spectral results, *Meteoritics and Planetary Science*, 35, A164, 2000.
215. Clark, B.E., J.F. Bell III, J. Veverka, P. Helfenstein, C. Chapman, and L. McFadden, [Asteroid spectral continua: Using results from NEAR-Shoemaker to deconvolve the causes of an important problem confounding spectral links between meteorites and asteroids](#), *Meteoritics and Planetary Science*, 35, A41, 2000.
214. Bell III, J.F., N. Izenberg, B.E. Clark, D. Wellnitz, L.A. McFadden, S. Murchie, J. Warren, P. Lucey, M. Winter, P.D. Martin, M. Gaffey, M.S. Robinson, J. Veverka, C. Chapman, P. Thomas, M. Malin, A. Harch, M.E. Bell, and C. Peterson, [A search for small-scale spectral heterogeneity on 433 Eros from NEAR infrared spectrograph observations](#), *Meteoritics and Planetary Science*, 35, A23, 2000.
213. Bell III, J.F., J. Veverka, M. Belton, J. Benkhoff, A. Cheng, B. Clark, A. Cochran, R. Farquhar, P. Feldman, J. Kissel, P. Mahaffy, M. Malin, S. Murchie, H. Niemann, T. Owen, G. Schwehm, S. Squyres, P. Thomas, and D. Yeomans, [CONTOUR: A Discovery mission to explore the diversity of cometary nuclei](#), *Meteoritics and Planetary Science*, 35, A23, 2000.
212. J. Warren, K. Strohbehn, S. Murchie, D. Fort, E. Reynolds, G. Heyler, K. Peacock, J. Boldt, E. Darlington, J. Hayes, R. Henshaw, N. Izenberg, C. Kardian, J. Lees, D. Lohr, D. Mehoke, E. Schaefer, T. Sholar, T. Spisz, C. Willey, J. Veverka, J.F. Bell III, A. Cochran, [selected configuration tradeoffs of CONTOUR optical instruments](#), Fourth IAA International Conference on Low-Cost Planetary Missions, May 2-5, 2000, Applied Physics Laboratory, Laurel, MD.
211. Morris, R.V., T. Graff, M.D. Lane, D.C. Golden, C.S. Schwandt, T.D. Shelfer, D.W. Ming, S.A. Mertzman, J.F. Bell III, J. Crisp, and P. Christensen, [Acid sulfate alteration products of a tholeiitic basalt: Implications for interpretation of Martian thermal emission spectra](#), *Lunar and Planet. Sci.* XXXI, Abstract #2014, LPI, Houston TX, 2000.
210. Hawke, B.R., D.T. Blewett, P.G. Lucey, C.A. Peterson, J.F. Bell III, B.A. Campbell, and M.S. Robinson, [Lunar crater rays: Compositions and modes of origin](#), *Lunar and Planet. Sci.* XXXI, Abstract #1333, LPI, Houston TX, 2000.
209. Bridges, N.T., J.A. Crisp, and J.F. Bell III, [the Mars Pathfinder APXS sites: New insights from improved IMP calibration and image analysis](#), *Lunar and Planet. Sci.* XXXI, Abstract #1740, LPI, Houston TX, 2000.
208. Rivkin, A.S., R.H. Brown, D.E. Trilling, J.F. Bell III, and J.H. Plassmann, [Infrared spectrophotometry of Phobos](#), *Lunar and Planet. Sci.* XXXI, Abstract #1488, LPI, Houston TX, 2000.
207. Bell III, J.F. and M.J. Wolff, [Visible to near-IR imaging spectroscopy of Mars using HST](#), *Lunar and Planet. Sci.* XXXI, Abstract #1223, LPI, Houston TX, 2000.
206. Bell III, J.F., E.A. Cloutis, D.R. Klassen, and R.N. Clark, [Spectroscopic Evidence For Diaspore \(\$\alpha\$ -AlOOH\) On Mars](#), *Lunar and Planet. Sci.* XXXI, Abstract #1227, LPI, Houston TX, 2000.
205. Martin, P.D., J.F. Bell III, B.E. Clark, M.E. Bell, B. Carcich, A. Harch, J. Joseph, C. Peterson, P. Thomas, J. Veverka, N. Izenberg, S.L. Murchie, J. Warren, D. Domingue, L.A. McFadden, D. Wellnitz, C.R. Chapman, W. Merline, M.S. Robinson, M.J. Gaffey, R. Kirk, P.G. Lucey, and M. Malin, [A science-driven processing pipeline for the NIS spectrometer onboard the NEAR spacecraft](#), *Lunar and Planet. Sci.* XXXI, Abstract #1379, LPI, Houston TX, 2000.
204. Martin, P.D., J.F. Bell III, S.L. Murchie, and O.S. Barnouin-Jha, [A preliminary reclassification of soils at the Mars Pathfinder landing site using recalibrated IMP SuperPan data](#), *Lunar and Planet. Sci.* XXXI, Abstract #2073, LPI, Houston TX, 2000.
203. Cloutis, E.A., J.F. Bell III, and T. Mueller, [Pyroxene+palagonite mixture spectra: Effects of palagonite on deriving pyroxene compositional information](#), *Lunar and Planet. Sci.* XXXI, Abstract #1114, LPI, Houston TX, 2000.
202. Cloutis, E.A. and J.F. Bell III, [Spectral reflectance properties of low-abundance minerals in a "neutral" matrix: Implications for remote sensing of Mars](#), *Lunar and Planet. Sci.* XXXI, Abstract #1112, LPI, Houston TX, 2000.
201. Bell III, J.F., N.I. Izenberg, B.E. Clark, S.M. Murchie, P.D. Martin, L.A. McFadden, D. Wellnitz, P.G. Lucey, M.J. Gaffey, J. Warren, J. Veverka, C. Chapman, W. Merline, M.S. Robinson, P. Thomas, J. Joseph, B. Carcich, A. Harch, M.E. Bell, C. Peterson, and M. Malin, Initial results from the NEAR/NIS spectroscopy investigation at Eros, *Lunar and Planet. Sci.* XXXI, Invited presentation, *LPSC 31*, Houston TX, 2000.
200. Arvidson, R.E., J.D. Bowman, C.D. Dunham, R.C. Anderson, P. Backes, E. Baumgartner, J.F. Bell III, S.C. Dwoletzky, S. Klug, N. Peck, D. Sherman, S. Squyres, D. Tuttle, and A.M. Waldron, [Student participation in Mars sample return rover field tests](#), Silver Lake, California, *Lunar and Planet. Sci.* XXXI, Abstract #1049, LPI, Houston TX, 2000.
199. Barnouin-Jha, O., S. Murchie, J. Johnson, and J.F. Bell III, [Rock coatings at the Mars Pathfinder landing site](#), *Lunar and Planet. Sci.* XXXI, Abstract #1262, LPI, Houston TX, 2000.
198. Murchie, S., Barnouin-Jha, O., J. Johnson, and J.F. Bell III, [Diverse rock lithologies at the Mars Pathfinder landing site](#), *Lunar and Planet. Sci.* XXXI, Abstract #1267, LPI, Houston TX, 2000.

197. Bell III, J.F., M.J. Wolff, T. Glotch, S.W. Lee, P.D. Martin, P.B. James, M. Ravine, and R.T. Clancy, [HST WFPC2 and STIS observations of Mars during the 1999 opposition](#), Eos, Trans. AGU, 80, F627, 1999.
196. Arvidson, R.E., C.D. Dunham, R.C. Anderson, P.G. Backes, E.T. Baumgartner, J.F. Bell III, S.C. Dworetzky, S.L. Klug, N. Peck, D. Sherman, S.W. Squyres, D. Tuttle, and A.M. Waldron, Student participation in prototype mars rover trials, Mojave desert, California, submitted to Eos, Trans. AGU, 1999.
195. Bell III, J.F., D. Dror, B. Altieri, G. Lichtenberg, D.P. Cruikshank, T.L. Roush, and Y.J. Pendleton, [ISO CAM and SWS observations of Mars and Deimos](#), *B.A.A.S.*, 31, p. 1168, 1999.
194. Herkenhoff, K., J.R. Johnson, M. Lemmon, P.H. Smith, R.J. Reid, and J.F. Bell III, [Comparison of IMP spectra with orbital data](#), *B.A.A.S.*, 31, p. 1166, 1999.
193. Klassen, D.R., W. Peppard, T. Scabarozzi, Jr., and J.F. Bell III, [Seasonal variations of Martian clouds and volatiles](#), *B.A.A.S.*, 31, p. 1148, 1999.
192. Malin, M.C., M.A. Caplinger, J.F. Bell III, P.C. Thomas, W. Calvin, R.T. Clancy, R.M. Haberle, P.B. James, and S.W. Lee, The Mars Color Imager (MARCI) on the Mars Climate Orbiter, *B.A.A.S.*, 31, p. 1084, 1999.
191. Rivkin, A.S., D.E. Trilling, J.H. Plassmann, R.H. Brown, and J.F. Bell III, [Infrared spectrophotometry of Phobos](#), *B.A.A.S.*, 31, p. 1075, 1999.
190. McFadden, L.A., D.D. Wellnitz, J.F. Bell III, P. Martin, B.E. Clark, A. Harch, M. Bell, P. Thomas, J. Veverka, N. Izenberg, J. Warren, S. Murchie, C.R. Chapman, and P.G. Lucey, [NEAR's Near Infrared Spectrometer: Expectations for Eros mapping](#), *B.A.A.S.*, 31, p. 1071, 1999.
189. Hawke, B.R., D.T. Blewett, P.G. Lucey, C.A. Peterson, J.F. Bell III, B.A. Campbell, and M.S. Robinson, [the composition and origin of selected lunar crater rays](#), in "Workshop on New Views of the Moon II," Flagstaff, AZ, 22-24 September, 1999.
188. Bell III, J.F., [Nature and origin of Martian surface materials](#), in "5th International Conference on Mars," Abstract #6017 (CDROM), Caltech, 19-23 July, 1999.
187. Veverka, J., J.F. Bell III, P. Thomas, S. Squyres, A. Cheng, M. Chiu, D. Dunham, R. Farquhar, S. Murchie, E. Reynolds, J. Warren, M.J.S. Belton, J. Benkhoff, R. Brown, B. Clark, A. Cochran, P. Feldman, A. Friedlander, J. Kissel, M. Malin, P. Mahaffy, H. Niemann, T. Owen, G. Schwehm, and D. Yeomans, CONTOUR: A Discovery mission to study the nature and diversity of comet nuclei, presented at "Asteroids, Comets, Meteors", Ithaca, NY, abstract 14-06I, July, 1999.
186. Thomas, P.C., J. Joseph, J. Veverka, J.F. Bell III, M.E. Bell, B. Clark, A. Harch, P. Martin, M. Robinson, S. Murchie, N. Izenberg, C. Chapman, W. Merline, L. McFadden, D. Wellnitz, and M. Malin, [the shape of Eros from NEAR imaging data](#), presented at "Asteroids, Comets, Meteors", Ithaca, NY, abstract 04-04I, July, 1999.
185. Murchie, S., J. Veverka, P. Thomas, J.F. Bell III, M.E. Bell, B.E. Clark, A. Harch, P. Martin, D. Yeomans, M. Robinson, N. Izenberg, C. Chapman, W. Merline, L. McFadden, D. Wellnitz, and M. Malin, Imaging results from NEAR's flyby of 433 Eros, presented at "Asteroids, Comets, Meteors", Ithaca, NY, abstract 04-03I, July, 1999.
184. Bell III, J.F., N. Izenberg, S. Murchie, J. Warren, J. Veverka, C. Chapman, L.A. McFadden, M.S. Robinson, P. Thomas, M. Malin, B.E. Clark, D. Wellnitz, P. Martin, A. Harch, M.E. Bell, and C. Peterson, the Near Infrared Spectrograph (NIS) investigation on the Near Earth Asteroid Rendezvous (NEAR) mission, presented at "Asteroids, Comets, Meteors", Ithaca, NY, abstract 04-05I, July, 1999.
183. Merline, W.J., C.R. Chapman, W.B. Colwell, J. Veverka, A. Harch, M. Bell, J.F. Bell III, P. Thomas, B.E. Clark, P. Martin, S. Murchie, A. Cheng, D. Domingue, N. Izenberg, M. Robinson, L. McFadden, D. Wellnitz, M. Malin, W. Owen, and J. Miller, [Search for satellites around asteroid 433 Eros from NEAR flyby imaging](#), Lunar and Planet. Sci. XXX, Abstract #2055, LPI, Houston TX, 1999.
182. Cloutis, E.A. and J.F. Bell III, [Spectral reflectance properties of aluminum hydroxides and implications for Mars](#), Lunar and Planet. Sci. XXX, Abstract #1945, LPI, Houston TX, 1999.
181. Bell III, J.F. and R.V. Morris, [Identification of Hematite on Mars from HST](#), Lunar and Planet. Sci. XXX, Abstract #1751, LPI, Houston TX, 1999.
180. Squyres, S.W., R. Arvidson, J.F. Bell III, M. Carr, P. Christensen, D. DesMarais, T. Economou, S. Gorevan, G. Klingelhöfer, L. Haskin, K. Herkenhoff, A. Knoll, J.M. Knudsen, M. Malin, H. McSween, R. Morris, R. Rieder, M. Sims, L. Soderblom, H. Wänke, and T. Wdowiak, the Mars 2001 Athena Precursor Experiment (APEX), Lunar and Planet. Sci. XXX, Abstract #1672, LPI, Houston TX, 1999.
179. Malin, M.C., J.F. Bell III, W.M. Calvin, M.A. Caplinger, R.T. Clancy, R.M. Haberle, P.B. James, S.W. Lee, M.A. Ravine, P. Thomas, and M.J. Wolff, [The Mars Color Imager \(MARCI\) investigation on the Mars Climate Orbiter mission](#), Lunar and Planet. Sci. XXX, Abstract #1437, LPI, Houston TX, 1999.
178. Arvidson, R., J.F. Bell III, D. Kaplan, J. Marshall, A. Mishkin, S. Saunders, P. Smith, and S. Squyres, [Mars 2001 lander mission: Measurement synergy through coordinated operations planning and implementation](#), Lunar and Planet. Sci. XXX, Abstract #1428, LPI, Houston TX, 1999.
177. Bell III, J.F. and D. Bustani, [Correlation between multispectral and compositional properties of soils and rocks at the Mars Pathfinder landing site](#), Lunar and Planet. Sci. XXX, Abstract #1388, LPI, Houston TX, 1999.
176. Izenberg, N.I., K. Peacock, J.W. Warren, S.L. Murchie, and J.F. Bell III, In-Flight calibration of the Near Earth Asteroid Rendezvous Mission's Near-Infrared Spectrometer, Proc. of the 1998 SDL/USU Symposium on Infrared Radiometric Calibration.
175. Bell III, J.F., N. Thomas, and the Mars Pathfinder Science Team, Preliminary results from the Mars Pathfinder mission, Pub. of the Purple Mountain Observatory, Vol. 17, No. 2, pp. 20-30.
174. Bell III, J.F., Recent results from Earthbased observations of Mars, Pub. of the Purple Mountain Observatory, Vol. 17, No. 2, pp. 31-41.
173. Bell III, J.F. and the NEAR Science Team, NEAR's close flyby of the C-type asteroid 253 Mathilde, Pub. of the

- Purple Mountain Observatory, Vol. 17, No. 2, pp. 42-48.
172. Bell III, J.F., the frustrating world of Martian spectroscopy, *Eos, Trans. AGU*, 79, F543, 1998.
 171. Bell III, J.F. and M.E. Ockert-Bell, [Physical, compositional, and radiative properties of Martian dust](#), *Eos, Trans. AGU*, 79, F527, 1998.
 170. Calvin, W.M. and J.F. Bell III, Mars rock varnish: FeS? *Eos, Trans. AGU*, 79, F536, 1998.
 169. Klassen, D.R. and J.F. Bell III, An investigation of Martian NIR spectral features using absolutely-calibrated images, *Bull. Amer. Astron. Soc.*, 30, 1055, 1998.
 168. Bell III, J.F., M.J. Wolff, R. Comstock, and P.B. James, HST STIS and NICMOS observations of Mars during 1997, *Bull. Amer. Astron. Soc.*, 30, 1054, 1998.
 167. Cruikshank, D.P., T.L. Roush, M.J. Bartholomew, Y.J. Pendleton, S.M. White, M.P. Bernstein, C.M. Dalle Ore, T.R. Geballe, J.K. Davies, T.C. Owen, C. deBergh, J.F. Bell III, R.H. Brown, and K.A. Tryka, [Centaur 5145 Pholus as a comet nucleus](#), *Bull. Amer. Astron. Soc.*, 30, 1094, 1998.
 166. Merline, W.J., C.R. Chapman, M. Robinson, S. Murchie, J. Veverka, A. Harch, J.F. Bell III, P. Thomas, L. McFadden, M. Malin, B.E. Clark, N. Izenberg, J. Joseph, B. Carcich, P. Murphy, G. Heyler, and A. Cheng, [Search for satellites of 253 Mathilde from Near Earth Asteroid Rendezvous flyby data](#), *Meteoritics and Planetary Science*, 33, Supplement, pp. A105-A106, 1998.
 165. Bell III, J.F., S. Murchie, N. Izenberg, J. Warren, J. Veverka, C. Chapman, L. McFadden, M. Robinson, P. Thomas, M. Malin, B.E. Clark, A. Harch, R. Farquhar, A. Cheng, Mineralogy and composition of 433 Eros from NEAR: Towards a better understanding of the asteroid-meteorite connection, *Meteoritics and Planetary Science*, 33, Supplement, pp. A12-A13, 1998.
 164. Robinson, M., A. Harch, S. Murchie, J. Veverka, J. F. Bell III, C. Chapman, L. McFadden, M. Malin, P. Thomas, E. Hawkins, R. Farquhar, A. Cheng, Near Earth Asteroid Rendezvous (NEAR) approaches Eros, *Meteoritics and Planetary Science*, 33, Supplement, p. A130, 1998.
 163. Bell III, J.F., Composition and mineralogy of the Martian surface: Results from the Mars Pathfinder mission, *the Observatory*, 118, No. 1144, pp. 131-134, 1998.
 162. Murchie, S., J. Johnson, H. McSween, N. Bridges, R. Anderson, D. Britt, J.F. Bell III, and J. Crisp, [Spectral properties of rocks at the Mars Pathfinder landing site](#), *Lunar Planet. Sci.* 29th, Abstract #1444, 1998.
 161. Johnson, J.R., L. Soderblom, R. Kirk, L. Gaddis, R. Reid, P.H. Smith, M. Lemmon, D. Britt, N. Thomas, J.F. Bell III, N.T. Bridges, R. Anderson, K. Herkenhoff, S.M. Murchie, A. Dummel, G. Arnold, P. Lampen, and F. Trauthan, [Photometric imaging sequences and analysis at the Mars Pathfinder landing site](#), *Lunar Planet. Sci.* 29th, Abstract #1228, 1998.
 160. Merline, W.J., C.R. Chapman, M. Robinson, J. Veverka, A. Harch, J.F. Bell III, P. Thomas, J. Joseph, b. Carcich, S. Murchie, A. Cheng, N. Izenberg, L. McFadden, M. Malin, and B.E. Clark, [NEAR's encounter with 253 Mathilde: Search for Satellites](#), *Lunar Planet. Sci.* 29th, Abstract #1954, 1998.
 159. Clark, B.E., J. Veverka, P. Helfenstein, P. Thomas, J.F. Bell III, J. Joseph, A. Harch, B. Carcich, M.S. Robinson, S. Murchie, A. Cheng, N. Izenberg, L. McFadden, C. Chapman, W. Merline, and M. Malin, [NEAR photometry of C-type asteroid 253 Mathilde](#), *Lunar Planet. Sci.* 29th, Abstract #1768, 1998.
 158. Squyres, S.W., R. Arvidson, J.F. Bell III, M. Carr, P. Christensen, D. DesMarais, T. Economou, S. Gorevan, G. Klingelhöfer, L. Haskin, K. Herkenhoff, A. Knoll, J.M. Knudsen, M. Malin, H. McSween, R. Morris, R. Rieder, M. Sims, L. Soderblom, H. Wänke, and T. Wdowiak, [the Athena Mars Rover science payload](#), *Lunar Planet. Sci.* 29th, Abstract #1101, 1998.
 157. Morris, R.V., S.W. Squyres, J.F. Bell III, P.R. Christensen, T. Economou, G. Klingelhöfer, P. Held, L.A. Haskin, A. Wang, B.L. Joliff, and R. Rieder, [Analyses of Martian surface materials during the Mars Surveyor 2001 Mission by the Athena instrument payload](#), *Lunar Planet. Sci.* 29th, Abstract #1326, 1998.
 156. Klassen, D.R., J.F. Bell III, R.N. Clark, W. Golisch, C.D. Kaminski, and D. Griep, [3 to 4 μm imaging spectroscopy of Mars](#), *Lunar Planet. Sci.* 29th, Abstract #1658, 1998.
 155. Moersch, J., L. Carter, J.F. Bell III, T. Hayward, P. Nicholson, S. Squyres, and J. VanCleve, [A Martian global thermal infrared spectral map](#), *Lunar Planet. Sci.* 29th, Abstract #1545, 1998.
 154. Murchie, S., N. Thomas, D. Britt, K. Herkenhoff, and J.F. Bell III, [Mars Pathfinder imaging results at Phobos and Deimos: Consistency with previous data](#), *Lunar Planet. Sci.* 29th, Abstract #1447, 1998.
 153. Bridges, N.T., J.F. Bell III, J.A. Crisp, T. Economou, J.R. Johnson, S.L. Murchie, and R.J. Reid, [Comparison between APXS and IMP multispectral data at the Pathfinder landing site: Evidence for dust coatings on rock surfaces](#), *Lunar Planet. Sci.* 29th, Abstract #1534, 1998.
 152. Bishop, J.L., A. Scheinost, J.F. Bell III, D. Britt, J.R. Johnson, and S. Murchie, [Ferrihydrite-Schwertmannite-Silicate mixtures as a model of Martian soils measured by Pathfinder](#), *Lunar Planet. Sci.* 29th, Abstract #1803, 1998.
 151. Bell III, J.F., R.C. Anderson, J.L. Bishop, N.T. Bridges, D.T. Britt, J.A. Crisp, T. Economou, A. Ghosh, J.P. Greenwood, H.P. Gunnlaugsson, R.B. Hargraves, K. Herkenhoff, S.F. Hviid, J.R. Johnson, J.M. Knudsen, M.B. Madsen, H.Y. McSween Jr., R.V. Morris, S.L. Murchie, and R.J. Reid, [Mineralogy, composition, and origin of soil and dust at the Mars Pathfinder landing site](#), *Lunar Planet. Sci.* 29th, Abstract #1723, 1998.
 150. Britt, D.T., R. Anderson, J.F. Bell III, J. Crisp, T. Economou, K.E. Herkenhoff, M.B. Madsen, H.Y. McSween, S. Murchie, R. Reid, R. Rieder, R.B. Singer, and L. Soderblom, [the mineralogy of the Mars Pathfinder landing site](#), *Lunar Planet. Sci.* 29th, Abstract #1577, 1998.
 149. Johnson, J.R., L. Soderblom, R. Kirk, L. Gaddis, R. Reid, P.H. Smith, M. Lemmon, D. Britt, N. Thomas, J.F. Bell III, N.T. Bridges, R. Anderson, K. Herkenhoff, S.M. Murchie, A. Dummel, G. Arnold, P. Lampen, F. Trauthan, Photometry of selected materials at the Mars Pathfinder landing site, European Geophysical Society meeting, Nice, France, April 1998.
 148. Wolff, M.J., R.T. Clancy, P.B. James, S.W. Lee, and J.F. Bell III, [Of Martian water ice clouds: New insights](#)

- [using the Hubble Space Telescope](#), Mars Telescopic Observations Workshop II, LPI Technical Report 97-03, 37-38, 1997.
147. Moersch, J., J.F. Bell III, L. Carter, T. Hayward, P. Nicholson, S. Squyres, and J. Van Cleve, [What happened to Cerberus? Telescopically-observed thermophysical properties of the Martian surface](#), Mars Telescopic Observations Workshop II, LPI Technical Report 97-03, 25-26, 1997.
 146. Lee, S.W., P.B. James, M.J. Wolff, R.T. Clancy, and J.F. Bell III, [Martian dust and condensate clouds: 1996-1997 Hubble Space Telescope observations](#), Mars Telescopic Observations Workshop II, LPI Technical Report 97-03, 21-22, 1997.
 145. Klassen, D.R., J.F. Bell III, R.R. Howell, and P.E. Johnson, [Volatile searches in Martian NIR spectral images from the 1995 opposition](#), Mars Telescopic Observations Workshop II, LPI Tech. Report 97-03, 19-21, 1997.
 144. James, P.B., B.A. Cantor, M.J. Wolff, S.W. Lee, R.T. Clancy, J.F. Bell III, and L.J. Martin, [Hubble Space Telescope observations of Martian north polar cap: 1990-1997](#), Mars Telescopic Observations Workshop II, LPI Technical Report 97-03, 17-19, 1997.
 143. Bell III, J.F., M.J. Wolff, P.C. Thomas, P.B. James, and E.A. Cloutis, [Mineralogy of unweathered Mars surface materials from HST multispectral imaging](#), Mars Telescopic Observations Workshop II, LPI Technical Report 97-03, 7-9, 1997.
 142. Britt, D.T., P. Smith, R. Anderson, J. F. Bell III, J. Crisp, T. Economou, K. E. Herkenhoff, M. B. Madsen, H. Y. McSween, S. Murchie, R. Reid, R. Rieder, R. B. Singer, J. Johnson, [the Mineralogy of the Mars Pathfinder Landing Site](#), EOS, Trans. A.G.U., 78, F395, 1997.
 141. Bell III, J.F., J. Johnson, L. Soderblom, D. Britt, R. Reid, R. Singer, P. Smith, S. Murchie, S. Hviid, R. Anderson, N. Bridges, J. Crisp, H. Herkenhoff, [Mineralogy and Diversity of Soils at the Mars Pathfinder Landing Site](#), EOS, Trans. A.G.U., 78, F396, 1997.
 140. Murchie, S., R. Anderson, J. Crisp, K. Herkenhoff, J.F. Bell III, D. Britt, R. Reid, R. Singer, P. Smith, T. Economou, J. Johnson, L. Soderblom, S. Hviid, M. Madsen, H. McSween, R. Rieder, N. Thomas, [Spectral Properties and Classes of Rocks at the Mars Pathfinder Landing Site](#), EOS, Trans. A.G.U., 78, F396, 1997.
 139. Reid, R.J., A. Dummel, R. B. Singer, J. R. Johnson, J. F. Bell III, T. Daley, Imager for Mars Pathfinder Image Calibration, EOS, Trans. A.G.U., 78, F402, 1997.
 138. Johnson, J.R., L. Soderblom, R. Kirk, R. Reid, P. H. Smith, M. Lemmon, D. Britt, N. Thomas, J. Bell, N. T. Bridges, R. Anderson, S. M. Murchie, Photometric Analysis of Selected Materials at the Sagan Memorial Station, Mars, EOS, Trans. A.G.U., 78, F402, 1997.
 137. Veverka, J., S. Murchie, J.F. Bell III, A. Harch, P. Thomas, C. Chapman, L. McFadden, M. Malin, M. Robinson, B. Clark, J. Joseph, W. Merline, S. E. Hawkins, G. Heyler, A. Cheng, R. Farquhar, N. Izenberg, C. Kowal, A. Santo, P. Carr, R. Dickey, M. Holdridge, T. J. Mulich, R. Nelson, K. Whittenburg, D. Yeomans, W. Owen, J. Miller, B. Williams, NEAR's Encounter With 253 Mathilde: the First Look at a C-Type Asteroid, EOS, Trans. A.G.U., 78, F400, 1997.
 136. Robinson, M.S., J. Veverka, J. F. Bell III, B. E. Clark, A. Harch, P. Thomas, C. Chapman, W. J. Merline, L. McFadden, S. Murchie, E. Hawkins, N. Izenberg, R. Farquhar, A. Cheng, M. Malin, Color and Photometry of 253 Mathilde as Measured by the NEAR Spacecraft, EOS, Trans. A.G.U., 78, F400, 1997.
 135. Thomas, P.C., J. Veverka, J.F. Bell III, C. Chapman, M. Malin, L. McFadden, S. Murchie, M. Robinson, Asteroid Mathilde: Geodesy and Geology From NEAR Multispectral Imager Data, EOS, Trans. A.G.U., 78, F400, 1997.
 134. Wolff, M.J., R.T. Clancy, P.B. James, S.W. Lee, and J.F. Bell III, [A new look at water ice clouds on Mars](#), B.A.A.S., 29, 961, 1997.
 133. James, P.B., M.J. Wolff, S.W. Lee, R.T. Clancy, J.F. Bell III, and L.J. Martin, [HST observations of early spring dust storms in the north polar region of Mars](#), B.A.A.S., 29, 961, 1997.
 132. Veverka, J., J.F. Bell III, C. Chapman, M. Malin, L.A. McFadden, S. Murchie, M. Robinson, P.C. Thomas, D.K. Yeomans, A. Harch, B.G. Williams, B. Clark, R.W. Farquhar, A. Cheng, and D.W. Dunham, NEAR's flyby of asteroid 253 Mathilde, B.A.A.S., 29, 958, 1997.
 131. Bustani, D., J.F. Bell III, J. Veverka, R.H. Brown, and D.P. Cruikshank, [Near-IR spectroscopy of Amalthea \(JV\) and thebe \(JXIV\)](#), B.A.A.S., 29, 1012, 1997.
 130. Bell III, J.F., D.R. Klassen, J.E. Moersch, W.F. Golisch, D.M. Griep, C.D. Kaminski, P. Martin, C. Dumas, R.N. Clark, and E.A. Cloutis, [High spatial resolution near-IR imaging spectroscopy of Mars from the IRTF during 1996-97](#), B.A.A.S., 29, 963, 1997.
 129. Bell III, J.F., R.T. Clancy, P.B. James, S.W. Lee, L.J. Martin, and M.J. Wolff, [Hubble Space Telescope observations of Mars during 1996-1997](#), LPSC XXVIII, 85-86, 1997.
 128. Bell III, J.F., P.C. Thomas, M.J. Wolff, S.W. Lee, and P.B. James, [Mineralogy of the Martian north polar sand sea from 1995 Hubble Space Telescope near-IR observations](#), LPSC XXVIII, 87-88, 1997.
 127. Bell III, J.F., P.C. Thomas, M.J. Wolff, S.W. Lee, and P.B. James, Mineralogy of the Martian north polar erg from HST, EOS, Trans. A.G.U., 77, F431, 1996.
 126. Harch, A., J. Veverka, J.F. Bell III, C. Chapman, M. Malin, L.A. McFadden, S. Murchie, M. Robinson, P.C. Thomas, D.K. Yeomans, B.G. Williams, S. Squyres, R.W. Farquhar, A. Cheng, and D.W. Dunham (1996) the NEAR flyby of mainbelt asteroid 253 Mathilde: Science objectives and encounter strategy, EOS, Trans. A.G.U., 77, F449, 1996.
 125. Hawke, B.R., D.T. Blewett, P.G. Lucey, J.F. Bell III, B.A. Campbell, and M.S. Robinson, [Remote sensing studies of selected lunar rays](#), B.A.A.S., 28, 1122-1123, 1996.
 124. Bell III, J.F., R.N. Clark, C. Sagan, D.R. Klassen, T.L. Roush, D. Crisp, W.F. Golisch, D.M. Griep, and C.D. Kaminski, Imaging spectroscopy of Mars from 3 to 4 μm , B.A.A.S., 28, 1063-1064, 1996.
 123. Klassen, D.R., R.R. Howell, P. Johnson, and J.F. Bell III, Principal components analysis of Martian spectral

- images, B.A.A.S., 28, 1069, 1996.
122. Herkenhoff, K.E., M.P. Golombek, R. Anderson, J.F. Bell III, and J. Moersch, Mars Pathfinder mission telescopic observational support, B.A.A.S., 28, 1067, 1996.
 121. James, P.B., M.J. Wolff, R.T. Clancy, S.W. Lee, J.F. Bell III, and L.J. Martin, [Synoptic monitoring of Mars by HST: 1996-1997 observations](#), B.A.A.S., 28, 1069, 1996.
 120. Wolff, M.J., R.T. Clancy, S.W. Lee, L.J. Martin, J.F. Bell III, and P.B. James, [1995 observations of Martian dust storms using the Hubble Space Telescope](#), B.A.A.S., 28, 1065, 1996.
 119. Lee, S.W., M.J. Wolff, P.B. James, R.T. Clancy, J.F. Bell III, and L.J. Martin, [HST observations of Mars: Time-variable albedo in the Cerberus region](#), B.A.A.S., 28, 1061, 1996.
 118. Robinson, M.S., J.F. Bell III, C. Chapman, A. Cheng, R. Gold, M. Malin, L. McFadden, S. Murchie, P. Thomas, J. Veverka, and J. Warren, NEAR MSI and NIS: Alive and well, Meteoritics & Planetary Science, 31, A116-A117, 1996.
 117. Veverka, J., A. Harch, J.F. Bell III, C. Chapman, M. Malin, L.A. McFadden, S. Murchie, M. Robinson, P. Thomas, D.K. Yeomans, S. Squyres, R.W. Farquhar, and A. Cheng (1996) NEAR's flyby of mainbelt asteroid 253 Mathilde: Encounter strategy and expected science return, Asteroids, Comets, and Meteorites Conference, Versailles, July 1996.
 116. Hawke, B.R., D.T. Blewett, J.F. Bell III, P.G. Lucey, B.A. Campbell, and M.S. Robinson, [Remote sensing studies of lunar crater rays](#), LPSC XXVII, 507-508, 1996.
 115. Murchie, S.L., K. Peacock, J.F. Bell III, M. Robinson, J. Veverka, A. Harch, A. Cheng, S.E. Hawkins III, J. Warren, R. Gold, H. Darlington, M. Elko, D. Prendergast, C. Chapman, L. McFadden, M. Malin, P. Thomas, and P. Helfenstein, [the imaging and NIR spectroscopy experiments on the NEAR spacecraft](#), LPSC XXVII, 921-922, 1996.
 114. Golden, D.C., R.V. Morris, D.W. Ming, J.F. Bell III, S.V. Yang, and D.R. Thompson, [Occurrence of a titanium-bearing jarosite from Hawaii](#), LPSC XXVII, 427-428, 1996.
 113. Ming, D.W., D.C. Golden, J.L. Gooding, R.V. Morris, D.R. Thompson, and J.F. Bell III, [Mineralogical and thermal properties of jarositic tephra on Mauna Kea, Hawaii: Implications for the sulphur mineralogy on Mars](#), LPSC XXVII, 883-884, 1996.
 112. Bell, J.F. III, A.E. Switala, D. Crisp, and the WFPC2 Team, HST WFPC2 observations of Mars surface mineralogy and atmospheric condensates, LPSC XXVII, 87-88, 1996.
 111. Bell, J.F. III, M.J. Wolff, P.B. James, R.T. Clancy, S.W. Lee, and L.J. Martin, [Calibration and mineralogic analysis of HST images of Mars obtained during 1994-1995](#), LPSC XXVII, 89-90, 1996.
 110. Lee, S.W., M.J. Wolff, P.B. James, L.J. Martin, R.T. Clancy, and J.F. Bell III, HST observations of time-variable regional albedo features on Mars, in Workshop on the Evolution of Martian Volatiles, LPI Tech. Rpt., 1996.
 109. Morris, R.V., D.C. Golden, D.W. Ming, and J.F. Bell III, Iron, sulfur, and chlorine on Mars, in Workshop on the Evolution of Martian Volatiles, LPI Tech. Rpt., 1996.
 108. James, P.B., J.F. Bell III, R.T. Clancy, S.W. Lee, L.J. Martin, and M. Wolff, Martian dust storms: HST observations, in Workshop on the Evolution of Martian Volatiles, LPI Tech. Rpt., 1996.
 107. Cruikshank, D.P., T. Roush, M.J. Bartholomew, T.R. Geballe, J.K. Davies, R.H. Brown, S.M. White, K.A. Tryka, T.C. Owen, C. DeBergh, L.V. Moroz, Y.J. Pendleton, and J.F. Bell III, [Composition of 5145 Pholus](#), B.A.A.S., 27, 1056, 1995.
 106. Ockert-Bell, M.E., C.P. McKay, and J.F. Bell III, the light scattering and absorbing properties of Martian atmospheric dust, B.A.A.S., 27, 1066, 1995.
 105. Klassen, D.R., J.F. Bell III, and R.R. Howell, Infrared imaging spectroscopy of Martian clouds and volatiles, B.A.A.S., 27, 1061, 1995.
 104. Roush, T.L., G.C. Sloan, J.F. Bell III, and C.W. Rowland, Dust opacities derived from thermal infrared spectra of Mars from 1988, 1990, and 1993, B.A.A.S., 27, 1066, 1995.
 103. Silverglate, P.R., J.F. Bell III, L.J. Allamandola, W.M. Calvin, R.N. Clark, D.P. Cruikshank, A. Fitzsimmons, S.F. Green, G. Moreels, S.A. Sandford, and I.P. Williams, the Cometary Hyperspectral Imager (CHI): A proposed instrument for the ESA Rosetta Comet Rendezvous Mission, B.A.A.S., 27, 1096, 1995.
 102. Martin, L.J., D.T. Thompson, J.F. Bell III, P.B. James, S.W. Lee, and D.C. Parker, 1994-95 HST and ground-based observations of Mars: Short-term cloud histories, B.A.A.S., 27, 1061, 1995.
 101. Bell, J.F. III, W.F. Golisch, D.M. Griep, C.D. Kaminski, T.L. Roush, and D.R. Klassen, Imaging and spectroscopy of Mars from 1.56 to 4.16 μm : 1994-95 observations from the IRTF, B.A.A.S., 27, 1091, 1995.
 100. Crisp, D., J.F. Bell III, and the WFPC2 Science Team, WFPC2 observations of Mars, Mars Telescopic Observations Workshop, LPI Tech. Rpt. 95-04, p. 11, 1995.
 99. James, P.B., J.F. Bell III, R.T. Clancy, S.W. Lee, L.J. Martin, and M.J. Wolff, [Hubble Space Telescope observations of Mars: 1994-1995](#), Mars Telescopic Observations Workshop, LPI Tech. Rpt. 95-04, pp. 16-17, 1995.
 98. Lee, S.W., M.J. Wolff, P.B. James, L.J. Martin, R.T. Clancy, and J.F. Bell III, HST Observations of Time-Variable Albedo Features on Mars, Mars Telescopic Observations Workshop, LPI Tech. Rpt. 95-04, p. 19, 1995.
 97. Martin, L.J., J.F. Bell III, P.B. James, S.W. Lee, and D. Thompson, "Mars Watch" observations from the Lowell Observatory, and observed cloudiness in 1994-95: Possible implications for dust activity Mars Telescopic Observations Workshop, LPI Tech. Rpt. 95-04, pp. 19-20, 1995.
 96. Klassen, D.R., J.F. Bell III, and R.R. Howell, Near infrared imaging of clouds and volatiles Mars Telescopic Observations Workshop, LPI Tech. Rpt. 95-04, pp. 17-18, 1995.
 95. Bell, J.F. III, W.F. Golisch, D.M. Griep, C.D. Kaminski, and T.L. Roush (1995) [Near-infrared imaging spectroscopy of Mars from the IRTF in 1994 and 1995](#) Mars Telescopic Observations Workshop, LPI Tech.

- Rpt. 95-04, pp. 10-11, 1995.
94. Roush, T.L., G.C. Sloan, J.F. Bell III, and C.W. Rowland, thermal infrared spectra of Mars obtained in 1988, 1990, and 1993, Mars Telescopic Observations Workshop, LPI Tech. Rpt. 95-04, p. 23, 1995.
 93. Robinson, M.S., J.F. Bell III, C. Chapman, A. Cheng, R. Gold, M. Malin, L. McFadden, S. Murchie, P. Thomas, J. Veverka, and J. Warren, [NEAR MSI and NIS: High resolution orbital imaging and spectroscopy of the asteroid 433 Eros](#), Meteoritics, 30, 566-567, 1995.
 92. Bell, J.F. III, Mars mosaic, EOS, Trans. A.G.U., 76, 129, 1995.
 91. Haberle, R.M. and J.F. Bell III, [Introduction to the MSATT special section](#), J. Geophys. Res., 100, 5233-5234, 1995.
 90. Bell, J.F. III, J.D. Bregman, P. Temi, T.L. Roush, B. Ray Hawke, P.G. Lucey, J.B. Pollack, and D.M. Rank, [Mid-infrared \(5.0 to 7.0 \$\mu\text{m}\$ \) imaging spectroscopy of the Moon from the KAO. Airborne Astronomy Symposium on the Galactic Ecosystem: From Gas to Stars to Dust](#), Astronomical Society of the Pacific Conference Series, 73, 341-344, 1995.
 89. Bell, J.F., III and W.J. Borucki, [Characteristics of transits by Earth-sized planets in binary star systems. Progress in the Search for Extraterrestrial Life](#), Astronomical Society of the Pacific Conference Series, 74 (G. Seth Shostak, ed.), pp. 165-172, 1995.
 88. Rowland, C.M., T.L. Roush, G.C. Sloan, and J.F. Bell III, [thermal infrared \(7-14 \$\mu\text{m}\$ \) spectral imaging of Mars](#), Lunar Planet. Sci. Conf. XXVI, 1195-1196, 1995.
 87. Veverka, J., M. Malin, J.F. Bell III, C. Chapman, L. McFadden, M. Robinson, and P. Thomas, [Asteroid 433 Eros: High resolution imaging and spectral mapping from NEAR](#), Lunar Planet. Sci. Conf. XXVI, 1447-1448, 1995.
 86. Bell, J.F. III, P.G. Lucey, D.T. Blewett, B.R. Hawke, M.S. Robinson, T.L. Roush, J.D. Bregman, D.M. Rank, D. Harker, and P. Temi, [Imaging spectroscopy of the Moon in the mid-infrared: 8.3 to 13.3 \$\mu\text{m}\$ image cubes of Tycho](#), Lunar Planet. Sci. Conf. XXVI, 97-98, 1995.
 85. Bell, J.F. III, P.B. James, L.J. Martin, R.T. Clancy, S.W. Lee, and D. Crisp, [Mars surface mineralogy from Hubble Space Telescope multispectral imaging: 1994 pre-opposition data](#), Lunar Planet. Sci. Conf. XXVI, 95-96, 1995.
 84. Bell, J.F. III, L.J. Martin, K.E. Herkenhoff, J. Moersch, D. Parker, and J. Beish, ["MARSNET: An international Mars monitoring project"](#), I.A.P.P.P. Communications, 57, 60-62, 1994.
 83. Morris, R.V. and J.F. Bell III, Formation of iron oxide pigments on Mars by meteoritic impact, EOS, Trans. A.G.U., 75, 406, 1994.
 82. Bell, J.F. III, R.V. Morris, and J.B. Adams, Why Mars is red: A process-oriented viewpoint, EOS, Trans. A.G.U., 75, 406, 1994.
 81. Ockert-Bell, M.E. and J.F. Bell III, the influence of the Martian atmosphere on the measurement of surface color, EOS, Trans. A.G.U., 75, 407, 1994.
 80. Borucki, W., D. Koch, and J.F. Bell III, Types of information expected from a photometric search for extrasolar planets, Presented at the Lowell Observatory Centennial Symposium: "Completing the Inventory of the Solar System", Flagstaff AZ, June, 1994.
 79. Ockert-Bell, M.E., J.B. Pollack, and J.F. Bell III, Wavelength dependence of the radiative properties of Martian atmospheric dust, B.A.A.S., 26, 1130, 1994.
 78. Borucki, W., D. Koch, E. Dunham, D. Cullers, L. Webster, A. Granados, C. Ford, H. Reitsma, W. Cochran, and J.F. Bell III, FRESIP: A Discovery mission concept to find Earth-sized planets around solar-like stars, B.A.A.S., 26, 1091, 1994.
 77. Bell, J.F. III, K. Bornhoeft, P.G. Lucey, and J.B. Pollack, High resolution 0.50 to 0.95 μm spectroscopy of Mars during 1990, B.A.A.S., 26, 1115, 1994.
 76. Bell, J.F. III, J.D. Bregman, D.M. Rank, P. Temi, T.L. Roush, B. Ray Hawke, P.G. Lucey, and J.B. Pollack, Mid-infrared imaging spectroscopy of the Moon: 5.0 to 7.0 μm observations from the Kuiper Airborne Observatory, B.A.A.S., 26, 1098, 1994.
 75. Roush, T.L., J. Pollack, F. Witteborn, J. Bregman, and J.F. Bell III, [thermal infrared spectroscopic observations of Mars from the Kuiper Airborne Observatory \(KAO\): Constraints on past climates and weathering products](#), presented at Airborne Astronomy Symposium, NASA Ames Research Center, July 5-8, 1994, paper 404.
 74. Bell, J.F. III, Mars spectroscopy: Science objectives and measurement requirements, in Mars Surveyor Science Objectives and Measurements Requirements Workshop, JPL Tech. Rept. D-12017, 24-25, 1994.
 73. Roush, T.L., Y. Pendleton, and J.F. Bell III, Earth-based telescopic observations related to organic materials: Applications to Mars, Paper presented at Fifth Exobiology Symposium and Mars Workshop, NASA Ames Research Center, April 25-29, 1994.
 72. Roush, T.L., J.F. Bell III, and R.V. Morris, [Transmission measurements \(4000-400 \$\text{cm}^{-1}\$, 2.5-25 \$\mu\text{m}\$ \) of crystalline ferric oxides and oxyhydroxides: Implications for Mars](#), Lunar Planet. Sci. Conf. XXV, 1165-1166, 1994.
 71. Roush, T.L. and J.F. Bell III, [thermal emission measurements \(5-25 \$\mu\text{m}\$ \) of Hawaiian palagonitic soils with implications for Mars](#), Lunar Planet. Sci. Conf. XXV, 1161-1162, 1994.
 70. Morris, R.V., J.F. Bell III and H.V. Lauer, Jr., [Hematite from pyroxene on Mars by meteoritic impact](#), Lunar Planet. Sci. Conf. XXV, 939-940, 1994.
 69. Bell, J.F. III and B.R. Hawke, [High spectral resolution telescopic multispectral imaging and spectroscopy of the Moon: I. the Serenitatis/Tranquillitatis border region](#), Lunar Planet. Sci. Conf. XXV, 81-82, 1994.
 68. Bell, J.F. III, T.L. Roush, T.Z. Martin, J.B. Pollack, and R. Freedman, [Wavelength calibration techniques and subtle surface and atmospheric absorption features in the Mariner 6, 7 IRS reflectance data](#), Lunar Planet. Sci. Conf. XXV, 87-88, 1994.

67. Bell, J.F. III, J.B. Pollack, T.R. Geballe, D.P. Cruikshank, and R. Freedman, [Absolute calibration and atmospheric vs. mineralogic origin of absorption features in 2.0 to 2.5 \$\mu\text{m}\$ Mars spectra obtained during 1993](#), Lunar Planet. Sci. Conf. XXV, 85-86, 1994.
66. Bell, J.F. III, K. Bornhoeft, and P.G. Lucey, [High resolution visible to short-wave near-infrared CCD spectra of Mars during 1990](#), Lunar Planet. Sci. Conf. XXV, 83-84, 1994.
65. Cruikshank, D.P., L.V. Moroz, T.R. Geballe, C.M. Pieters, J.F. Bell III, and J.K. Davies, [Asphaltite-like organics on planetesimal 5145 Pholus](#), EOS, Trans. Amer. Geophys. U., 74, 385, 1993.
64. Bell, J.F. III, J.B. Pollack, D.P. Cruikshank, and T.R. Geballe, [Absolute calibration of Mars telescopic spectra: 2.04-2.44 \$\mu\text{m}\$](#) , EOS, Trans. Amer. Geophys. U., 74, 383-384, 1993.
63. Morris, R.V., J.F. Bell III, D.C. Golden, and H.V. Lauer Jr., [Mineralogical diversity \(spectral reflectance and Mössbauer data\) in compositionally similar impact melt rocks from Manicouagan crater, Canada](#), Mars: Past, Present, and Future—Results from the MSATT Program, LPI Tech. Rept. 93-06, 30-32, 1993.
62. Bell, J.F. III and T.L. Roush, [thermal emission measurements \(5-25 \$\mu\text{m}\$ \) of Hawaiian palagonitic soils with implications for Mars](#), Mars: Past, Present, and Future—Results from the MSATT Program, LPI Tech. Rept. 93-06, 2-3, 1993.
61. Cruikshank, D.P., L.V. Moroz, T.R. Geballe, C.M. Pieters, and J.F. Bell III, [Asphaltite-like organics on planetesimal 5145 Pholus](#), B.A.A.S., 25, 1125-1126, 1993.
60. Klassen, D.R., R.R. Howell, and J.F. Bell III, [Spectral imaging of Mars in the 2-micron region](#), B.A.A.S., 25, 1034-1035, 1993.
59. Bell, J.F. III, J.B. Pollack, D. Crisp, T.R. Geballe, and D.P. Cruikshank, [High resolution K-band spectroscopy of Mars during 1990 and 1993](#), B.A.A.S., 25, 1032, 1993.
58. Douglas, C., I.P. Wright, J.F. Bell III, R.V. Morris, D.C. Golden, and C.T. Pillinger, [An attempt to comprehend Martian weathering conditions through the analysis of terrestrial palagonite samples](#), MSATT Workshop on Early Mars: How Warm and How Wet?, LPI Tech. Rept. 93-03, 10-11, 1993.
57. Hawke, B.R., D.T. Blewett, P.G. Lucey, G.J. Taylor, C.A. Peterson, J.F. Bell, M.S. Robinson, J.F. Bell III, C.R. Coombs, R. Jaumann, H. Hiesinger, G. Neukum, and P.D. Spudis, [Remote sensing studies of the northeastern portion of the lunar nearside](#), Lunar and Planetary Science XXIV, 617-618, 1993.
56. Blewett, D.T., B.R. Hawke, P.G. Lucey, J.F. Bell III, R. Jaumann, H. Hiesinger, G. Neukum, and P.D. Spudis, [Spectral and multispectral imaging studies of lunar mantled mare deposits](#), Lunar and Planetary Science XXIV, 133-134, 1993.
55. Bell, J.F. III, W.M. Calvin, J.B. Pollack, and D. Crisp, [An observational search for CO₂ ice clouds on Mars](#), Lunar and Planetary Science XXIV, 83-84, 1993.
54. Crisp, D. and J.F. Bell III, [Near-Infrared spectra of the Martian surface: Reading between the lines](#), Lunar and Planetary Science XXIV, 343-344, 1993.
53. Bell, J.F. III, R.V. Morris, and J.B. Adams, [Changes in Hawaiian palagonite Fe mineralogy associated with thermal alteration: Implications for Mars](#), Lunar and Planetary Science XXIV, 85-86, 1993.
52. Sabol, D.E. Jr., J.F. Bell III, and J.B. Adams, [Detectability of crystalline ferric and ferrous minerals on Mars](#), Lunar and Planetary Science XXIV, 1229-1230, 1993.
51. Bell, J.F., III, and J.F. Mustard, [A comparison of telescopic and Phobos-2 ISM spectra of Mars in the short-wave near-infrared \(0.76-1.02 \$\mu\text{m}\$ \)](#), Lunar and Planetary Science XXIV, 81-82, 1993.
50. Hawke, B.R., C.A. Peterson, P.G. Lucey, D.T. Blewett, J.F. Bell III, and P.D. Spudis, [A spectral survey of the Serenitatis Basin region of the Moon](#), Geology of the Apollo 17 Landing Site, LPI Tech. Rept. 92-09, 14-15, 1993.
49. Bell, J.F., III, [the Ferric Mineralogy of Mars \(Dissertation Abstract\)](#), Pub. Astron. Soc. Pac., 104, 1266, 1992.
48. Bell, J.F., III, [Mars Surface and Airborne Dust Mineralogy from Groundbased Near-IR Imaging and Spectroscopy](#), Infrared Spectroscopy of Surfaces, San Juan Capistrano Research Institute, pp. 14-15, 1992.
47. Hawke B.R., P.G. Lucey, J.F. Bell, C.A. Peterson, G.J. Taylor, D.T. Blewett, C.R. Coombs, M.S. Robinson, J.F. Bell III, and P.D. Spudis, [Spectral Studies of the Northeastern Portion of the Lunar Nearside: A Pre-Galileo View](#), B.A.A.S. 24, 1027, 1992.
46. Bell, J.F., III, P.G. Lucey, C.J. Budney, W.K. Hartmann, and T.B. McCord, [Planetary Astronomy Using the UH.PGD Visible to Near-IR Spatially Modulated Imaging Fourier Transform Spectrometer](#), B.A.A.S. 24, 958, 1992.
45. Morris R.V., D.C. Golden, J.F. Bell III, H.V. Lauer Jr., and J.B. Adams, [Effect of DCB Extraction on Mossbauer and Spectral Data for a Hawaiian Palagonitic Soil \(PN-9\): Identification of Pigmentary Phases](#), in Burns R. and Banin A. (eds), Workshop on Chemical Weathering on Mars, pp. 21-23, LPI Tech. Rpt. 92-04, Part 1, Lunar and Planetary Institute, Houston, 1992.
44. Bell, J.F., III, J.B. Adams, and R.V. Morris, [Martian Weathering/Alteration Scenarios from Spectral Studies of Ferric and Ferrous Minerals](#), in Burns R. and Banin A. (eds), Workshop on Chemical Weathering on Mars, pp. 2-4, LPI Tech. Rpt. 92-04, Part 1, Lunar and Planetary Institute, Houston, 1992.
43. Bell, J.F., III, and D. Crisp, [Surface vs. Atmospheric Origin of 2.1-2.5 \$\mu\text{m}\$ Absorption Features in the Martian Spectrum](#), MSATT Workshop on the Evolution of the Martian Atmosphere, LPI Contribution 787, 1-3, 1992.
42. Blewett D.T., B.R. Hawke, P.G. Lucey, J.F. Bell III, G.J. Taylor, and C.A. Peterson, [A Near-IR Spectral Investigation of the Schiller-Schickard Region of the Moon](#), Lunar and Planetary Science XXIII, 123-124, 1992.
41. Bell, J.F., III, and D. Crisp, [Spatial Variability of CO and CO₂ on Mars from Near-Infrared Imaging Spectroscopy](#), Lunar and Planetary Science XXIII, 75-76, 1992.
40. Bell, J.F., III, R.V. Morris, and J.B. Adams, [Relative Abundances of Poorly- and Well-Crystalline Ferric Oxides in the Martian Soil and Dust from telescopic Data and Terrestrial Spectral Analog Studies](#), Lunar and

- Planetary Science XXIII, 81-82, 1992.
39. Bell, J.F., III, P.G. Lucey, and T.B. McCord, [Ferric Mineralogy of the Martian South Polar Region](#), Lunar and Planetary Science XXIII, 79-80, 1992.
 38. Bell, J.F., III, and B.R. Hawke, [Composition and Stratigraphy of the Plinius-Dawes Region of the Moon](#), Lunar and Planetary Science XXIII, 77-78, 1992.
 37. Bell, J.F., III, and D. Crisp, [Imaging Spectroscopy of Mars During 1990](#), EOS, Trans. Amer. Geophys. U., 72, 521, 1991.
 36. Bell, J.F., III, D. Crisp, P.G. Lucey, and T.B. McCord, [Mars Surface Compositional Variability from Groundbased Imaging Spectroscopy During 1988 and 1990](#), Bull. Amer. Astron. Soc., 23, 1175, 1991.
 35. Bell, J.F., III, J.B. Adams, B.R. Hawke, and K.A. Horton, [Compositional Variability of the Southern Mare Serenitatis and Northern Mare Tranquillitatis Regions of the Moon from CCD Imaging](#), Bull. Amer. Astron. Soc., 23, 1199, 1991.
 34. Bell, J.F., III, [Mars: Compositional Variability of Ferric/Ferrous Minerals and Polar Volatiles from Groundbased Imaging Spectroscopy](#), Workshop on the Martian Surface and Atmosphere Through Time (MSATT), Lunar and Planetary Institute, Houston TX, pp. 9-10, 1991.
 33. Bell, J.F., III, [the Evidence for \(and Against\) Clay Minerals on Mars from 20 Years of Telescopic Observations](#), 28th Annual Meeting of the Clay Minerals Society, p. 12, (LPI, Houston TX) 1991.
 32. Bell, J.F., III, and D.A. Crisp, [Near-Infrared \(1.3-4.0 \$\mu\text{m}\$ \) Imaging Spectroscopy of Mars](#), Lunar and Planetary Science XXII, 73-74, 1991.
 31. Bell, J.F., III, [CCD Narrowband Filter Imaging of Mars During the 1990 Opposition](#), Lunar and Planetary Science XXII, 71-72, 1991.
 30. Bell, J.F., III, R.V. Morris, and J.B. Adams, [thermally Altered Palagonitic Tephra as a Martian Soil Analog?](#), Lunar and Planetary Science XXII, 79-80, 1991.
 29. Bell, J.F., III, T.B. McCord, P.G. Lucey, and T.A. Ozoroski, [High Spectral Resolution 0.4-0.8 \$\mu\text{m}\$ Observations of Mars During 1988 and 1990](#), Lunar and Planetary Science XXII, 77-78, 1991.
 28. Bell, J.F., III, and B.R. Hawke, [CCD Narrowband Filter Imaging of Lunar Crater Rays](#), Lunar and Planetary Science XXII, 75-76, 1991.
 27. Crisp, D., B. Bezard, C. deBergh, J.P. Maillard, J.F. Bell III, W. Sinton, B. Ragent, L. Doyle, R. Probst, J. Elias, D. Allen, S. Stephens, and S. McMuldloch, [Overview of Ground-based Near-Infrared Observations of the Venus Night Side during the Galileo Venus Flyby](#), Bull. Amer. Astron. Soc., 22, 1051, 1990.
 26. Grinspoon, D.H., J.B. Pollack, B. Dalton, J.F. Bell III, D. Crisp, and R. Wattson, [Analysis of High Resolution IR Spectra of the Venus Nightside](#), Bull. Amer. Astron. Soc., 22, 1052, 1990.
 25. Bell III, J.F., D. Crisp, P.G. Lucey, T.A. Ozoroski, W.M. Sinton, S.C. Willis, and B.A. Campbell, [New High Resolution 2.20-2.49 \$\mu\text{m}\$ Spectra of the Venus Nightside](#), Bull. Amer. Astron. Soc., 22, 1052-1053, 1990.
 24. Bell III, J.F., P.G. Lucey, and T.B. McCord, [High Resolution Groundbased Imaging Spectroscopy of Mars](#), Bull. Amer. Astron. Soc., 22, 1061, 1990.
 23. Bell III, J.F., P.G. Lucey, T.B. McCord, and T. Ozoroski, [Groundbased Imaging Spectroscopy of Mars During 1988 and 1990: Instrumentation and Data Reduction/Interpretation Strategies for the Future of Planetary Spectroscopy](#), in Scientific Results of the NASA-Sponsored Study Project on Mars: Evolution of Volcanism, Tectonics, and Volatiles, LPI Technical Report Number 90-06, 69-70, 1990.
 22. Bell III, J.F., M.S. Robinson, T.B. McCord, and F.P. Fanale, [Comparison of New Groundbased and Phobos-2 VSK Color Ratio Data for Mars](#), in Scientific Results of the NASA-Sponsored Study Project on Mars: Evolution of Volcanism, Tectonics, and Volatiles, LPI Technical Report Number 90-06, 71-72, 1990.
 21. Bell III, J.F. and T.B. McCord, [Can Iron Oxide/Oxyhydroxide Minerals be Identified on the Martian Surface From Groundbased VIS-NIR Spectra?](#) in Scientific Results of the NASA-Sponsored Study Project on Mars: Evolution of Volcanism, Tectonics, and Volatiles, LPI Technical Report Number 90-06, 67-68, 1990.
 20. Bell III, J.F., M.S. Robinson, T.B. McCord, and F.P. Fanale, [Comparison of New Groundbased and Phobos-2 VSK Color Ratio Data for Mars](#), Lunar and Planetary Science XXI, 63-64, 1990.
 19. Bell III, J.F., [Color Units on the Uranian Satellites: An Outer Solar System Analog to Lunar Vitrification Darkening?](#), Lunar and Planetary Science XXI, 58-59, 1990.
 18. Campbell, B.A., S.H. Zisk, J.F. Bell III, and B.R. Hawke, [High Resolution Remote Sensing Studies of Crater Ray Materials in Mare Serenitatis](#), Lunar and Planetary Science XXI, 159-160, 1990.
 17. Bell III, J.F. and T.B. McCord, [Can Iron Oxide/Oxyhydroxide Minerals be Identified on the Martian Surface From Groundbased VIS-NIR Spectra?](#), Lunar and Planetary Science XXI, 60-61, 1990.
 16. Bell III, J.F., P.G. Lucey, T.B. McCord, and T. Ozoroski, [Groundbased Imaging Spectroscopy of Mars During 1988 and 1990: Instrumentation and Methodologies for the Future of Planetary Spectroscopy](#), Lunar and Planetary Science XXI, 62, 1990.
 15. Bell III, J.F., T.B. McCord, and R.V. Morris, [Crystalline Iron Oxides on Mars: Implications for Surface Mineralogy and Past and Present Physical and Chemical Weathering Environments](#), EOS, Trans. Amer. Geophys. U., 70, 1171, 1989.
 14. Bell III, J.F., P.G. Lucey, P.D. Owensby, and T.B. McCord, [Iron Oxide Minerals on Mars: New Constraints Based on New 1988 High Resolution Groundbased Imaging Spectroscopy](#), Bull. Amer. Astron. Soc., 21, 954, 1989.
 13. Bell III, J.F. and T.B. McCord, [Spectral Unit Analysis of the Uranian Satellites From Voyager 2 Images](#), Bull. Amer. Astron. Soc., 21, 987, 1989.
 12. McCord, T.B., J.F. Bell III, and D.L. Blaney, [Groundbased Telescopic Spectrophotometric Observations of the Mars Surface: An Historical Perspective, Recent Observations, and the Potential Relationship to ISM and OMEGA-VIMS Measurements](#), International Symposium on the First Results of the PHOBOS-Mars

- Mission and Future Space Exploration of Mars, Paris, October 23-27, 1989.
11. Bell III, J.F., T.B. McCord, and P.G. Lucey, [Iron oxide mineralogy on Mars: New results based on high resolution imaging spectroscopy during 1988](#), *Lunar and Planetary Science XX*, 56-57, 1989.
 10. Campbell, B.A., B.R. Hawke, J.F. Bell III and S.H. Zisk, [the Bessel Ray region: Preliminary analysis of remote sensing data](#), *Lunar and Planetary Science XX*, 139-140, 1989.
 9. Bell III, J.F., T.B. McCord, and P.G. Lucey, [Mars During the 1988 Opposition: High Resolution Imaging and Spectroscopy](#), *EOS, Trans. Amer. Geophys. U.*, 70, 50, 1989.
 8. Bell III, J.F., T.B. McCord, and P.G. Lucey, [High Spectral Resolution 0.3-1.0 \$\mu\text{m}\$ Spectroscopy and Imaging of Mars During the 1988 Opposition: Characterization of Fe Mineralogies](#), *Fourth International Conference on Mars*, pp. 67-68, Tucson, AZ, January 10-13, 1989.
 7. Bell III, J.F., T.B. McCord, P.G. Lucey, and D.L. Blaney, [Preliminary Results and Overview of Spectral Remote Sensing Observations of Mars During the 1988 Opposition](#), in "MECA Workshop on Dust on Mars III," *LPI Technical Report 89-01*, 1988.
 6. Bell III, J.F., T.B. McCord, and P.G. Lucey, [0.3-2.6 \$\mu\text{m}\$ Observations of Mars During the 1988 Opposition: Regional Variations in Fe-Oxides and H₂O and CO₂ Frosts](#), *EOS, Trans. Amer. Geophys. U.*, 69, 1286, 1988.
 5. Bell III, J.F., T.B. McCord, and P.G. Lucey, [Near-Infrared Imaging of Mars During the 1988 Opposition: Distribution and Composition of Frosts, Fe-Oxides, and Global Dust](#), *Bull. Amer. Astron. Soc.*, 20, 848, 1988.
 4. Bell III, J.F. and T.B. McCord, [Mars: Near-Infrared Comparative Spectroscopy During the 1986 Opposition, Final Results](#), *Lunar and Planetary Science XIX*, 53-54, 1988.
 3. Bell III, J.F. and T.B. McCord, [Mars: Near-Infrared Comparative Spectroscopy During the 1986 Opposition](#), in "MEVTV Workshop on Nature and Composition of Surface Units on Mars," *LPI Technical Report No. 88-05*, 22-24, 1987.
 2. Bell III, J.F. and T.B. McCord, [Mars: Near-Infrared Comparative Spectroscopy During the 1986 Opposition, Preliminary Findings](#), *Eos Trans. Amer. Geophys. U.*, 68, 1341, 1987.
 1. Lucey, P.G., J.P. Bosel, G. Miyashiro, and J.F. Bell III, [Infrared Imaging of the Moon with the Planetary Geosciences InSb Linescan Camera](#), *Bull. Amer. Astron. Soc.*, 19, 843, 1987.