

Monday, July 21, 2008

5:00 p.m. POSTER SESSION

- Abbas M. M. Tankosic D. Spann J. F. LeClair A. Dube M. J. Gaskin J. A.  
[Experimental Studies of Electrostatic Charging of Individual Lunar Dust Grains by Photoelectric Emissions and by Electron Impact](#) [#2033]
- Abbud-Madrid A. Dreyer C. B. Nakagawa M. Olhoef G. R. King R. Eustes A. W. III Moore J. J.  
[Lunar Science Capabilities at the Colorado School of Mines](#) [#2124]
- Abubakar B.  
[Opportunities and the Position of Space Sciences in the Developing Countries](#) [#2001]
- Allen C. C. Lofgren G. E.  
[Curation and Analysis of Samples on the Moon](#) [#2097]
- Archinal B. Acton C. Bussey B. Campbell B. Chin G. Colaprete A. Cook A. Despan D. French R. Gaddis L. Kirk R. Mendell W. Lemoine F. Nall M. Oberst J. Plescia J. Robinson M. Smith D. Snook K. Sweetser T. Vondrak R. Wargo M. Williams J.  
[Lunar Science Support Activities by the NASA LPRP Lunar Geodesy and Cartography Working Group: Recommendations for Lunar Cartographic Standards](#) [#2080]
- Austin D. E. Miller I. Daly T. Crotts A. Syrstad E. Brinckerhoff W. Radebaugh J.  
[Characterizing Meteorite Impact Vaporization and Outgassing Processes on the Lunar Surface: A New Methodology and Opportunity](#) [#2074]
- Bale S. D. Goetz K. Halekas J. Delory G. T. Lin R. P. Cattell C. A. Kaiser M. L.  
[The Dust Electric Waveform Detector \(DEWD\) for the LADEE Mission](#) [#2095]
- Bandfield J. L. Glotch T. D.  
[Using LRO DIVINER Multispectral Measurements to Characterize Lunar Mineralogical and Thermophysical Properties](#) [#2068]
- Bart G. D. Colaprete A.  
[LCROSS Impact Site Characterization](#) [#2037]
- Blake D. Taylor G. J. Gillis-Davis J. Chipera S. J. Bish D. Hammer J. Lucey P. Vaniman D. T. Sarrizin P.  
[CheMin as a Tool for Lunar Exploration: Preliminary Measurements of Lunar Samples](#) [#2041]
- Borg L. Gaffney A. Shearer C. Jolliff B. Neal C.  
[Meteoritic Evidence for Extensive Compositional Variability on the Moon](#) [#2023]
- Bottke W. F. Jr. Levison H. F.  
[Exploring the Lunar Late Heavy Bombardment of the Moon](#) [#2034]
- Brown C. Janes H. Mitchell C. Brennan C.  
[The Habitation Institute](#) [#2052]
- Brown I. I. Jones J. A. Sarkisova S. A. Garrison D. H. Allen C. C. Sanders G. McKay D. S.  
[Biogeochemical Activity of Cyanobacteria: Implications for Outpost Lunar Missions](#) [#2020]
- Bugos G. E. Boyd J. W.  
[Robotic Lunar Precursors to Apollo](#) [#2017]
- Burns J. O. ROLSS and DALI Teams  
[Low Frequency Radio Astronomical Antennas for the Lunar Environment](#) [#2091]
- Byrne C. J.  
[The Moon's Near Side Megabasin](#) [#2018]
- Chartres J. T. A.  
[Face and Compression Seal Designs for Use in the Lunar Environment](#) [#2005]

- Christoffersen R. Chamberlin S.  
[Space Plasma Processing of Lunar Dust: Modeling of Radiation-damaged Rim Widths on Lunar Soil Minerals](#) [#2092]
- Clark P. E. Bleacher J. Mest S. Petro N. Leshin L.  
[Field Exploration of the Lunar Surface Pursued at Regional Scales](#) [#2030]
- Clark P. E. Curtis S. A. Minetto F. A. Moore M. Nuth J.  
[Characterizing Physical and Electrostatic Properties of Lunar Dust as a Basis for Developing Dust Removal Tools](#) [#2077]
- Clark P. E. Lewis R. Millar P. S. Yeh P. S. Lorenz J. Feng S. Powell W. Beaman R. Brown K. Leshin L.  
[Optimizing Science Payloads for Stand-Alone Operation on the Lunar Surface in the Next Decades](#) [#2031]
- Clark P. E. Shelton K. Weisbin C.  
[Characterizing Science Activities in the Modeling and Evaluation of Lunar Architectures](#) [#2119]
- Cohen B. A. Swindle T. D. Kring D. A.  
[Lunar Impact History from Meteorite Impact Melt Clasts and Lessons Learned for Lunar Surface Sampling](#) [#2139]
- Collier M. R. Carter J. Cravens T. Hills H. K. Kuntz K. Porter F. S. Read A. Robertson I. Sembay S. Snowden S. L. Stubbs T. Travnicsek P.  
[The Lunar X-Ray Observatory \(LXO\)/Magnetosheath Explorer in X-Ray \(MagEX\)](#) [#2082]
- Collier M. R. Hills H. K. Stubbs T. J.  
[Lunar Surface Potential Changes Possibly Associated with Traversals of the Bow Shock](#) [#2104]
- Cooper B. L. Antonenko I. Ono T. Kumamoto A. Yamaguchi Y. Yamaji A. Kobayashi T.  
[Mare Imbrium Subsurface Structure as Revealed by Radar Sounder Data](#) [#2060]
- Cooper B. L. Christoffersen R. Gustafson R.  
[Duplicating the Effects of Space Weathering](#) [#2088]
- Crider D. H. Vondrak R. R.  
[Monte Carlo Modeling Towards Understanding Length and Time Scales in Interpreting Data from Lunar Polar Cold Traps](#) [#2055]
- Currie D. G. Cantone C. Carrier W. D. III Dell'Agnello S. Delle Monache G. Murphy T. Rubincam D. Vittori R.  
[A Lunar Laser Ranging Retro-Reflector Array for the 21st Century](#) [#2145]
- Davis S. S. Marshall J. Richard D. T. Laub J.  
[Levitation of Charged Particles in a Lunar Debye Sheath Analog](#) [#2144]
- De Angelis G. Badavi F. F. Blattnig S. R. Clem J. M. Cloudsley M. S. Tripathi R. K. Wilson J. W.  
[Modeling of the Lunar Radiation Environment](#) [#2056]
- Dell'Agnello S. Currie D. Delle Monache G. Vittori R. Bellettini G. March R. Tauraso R. Boni A. Cantone C. Garattini M. Lops C. Martini M. Prospero C.  
[Fundamental Physics with the ASI Lunar Mission MAGIA \(Phase A Study\)](#) [#2146]
- Elphic R. C. Weinberg J. D. Dissly R. Evanyo J. Crider D. H. Delory G. T. Lawrence D. J. Lucey P. G. Fong T. Heldmann J. L. Vondrak R. Zacny K. Yachbes I.  
[Exomoon — A Discovery and Scout Mission Capabilities Expansion Concept](#) [#2142]
- Ennico K. Colaprete A. Wooden D. Heldmann J. Lynch D. Kojima G. Shirley M.  
[LCROSS Science Payload Ground Development, Test, and Calibration Results](#) [#2013]

Foing B. H. Grieger B. Josset J.-L. Beauvivre S. Grande M. Huovelin J. Keller H. U. Mall U. Nathues A. Malkki A. Noci G. Sodnik Z. Kellett B. Pinet P. Chevrel S. Cerroni P. de Sanctis M. C. Barucci M. A. Erard S. Despan D. Muinonen K. Shevchenko V. Shkuratov Y. Ellouzi M. Peters S. Bexkens F. Borst A. Odum C. Boche-Sauvan L. Almeida M. Frew D. Volp J. Heather D. McMannamon P. Camino O. Racca G.

[SMART-1 Lunar Highlights: Impact Craters, Basins, Tectonics and Volcanism](#) [#2079]

Foing B. H. ICEUM8 Participants

[ICEUM8 Highlights and Beijing Lunar Declaration 2006](#) [#2106]

Foing B. H. ICEUM9 Participants

[ICEUM9 Highlights and Sorrento Lunar Declaration 2007](#) [#2099]

Fong T. Deans M. Smith T. Lee P. Heldmann J. Pacis E. Schreckenghost D. Landis R. Osborn J. Kring D. Heggy E. Mishkin A. Snook K. Stoker C.

[A Preliminary Examination of Science Backroom Roles and Activities for Robotic Lunar Surface Science](#) [#2141]

Fox R. A. Schowengerdt F. D. Duke M. Ignatiev A. Abbud-Madrid A.

[Pacific International Space Center for Exploration Systems \(PISCES\). A Multi-Disciplinary Approach to the Most Multi-Disciplinary Problems: A Sustained Extraterrestrial Human Presence](#) [#2032]

Freund F. T. Kulahci I. Bose M. Cyr G.

[Memory of Water in Lunar Rocks and Highly Oxidizing \(Topic\) Radicals in Lunar Dust](#) [#2157]

Gaddis L. R. Hawke B. R. Astrogeology Team

[Volcanism in Alphonsus Crater: Detailed Compositional Analyses](#) [#2114]

Gaffney A. M. Borg L. E. DePaolo D. J.

[A New Perspective of the Moon from Northwest Africa 4898 and the Mare Basalt Meteorites](#) [#2064]

Garrick-Bethell I. Weiss B. P. Fernandes V. A. Shuster D. L. Becker T. A.

[New Argon-Argon Ages from the Cayley Plains: An Absolute Age for the South Pole-Aitken Basin?](#) [#2131]

Ge S. Hott K. B. Hsieh H. T. Stranghoener D. P. Townsend J. L.

[Moonbounce: A Lunar South Pole-Aitken Basin Sample Return Mission](#) [#2102]

Ghent R. R. Campbell B. A. Campbell D. B. Carter L. M. Nolan M. Hawke B. R.

[Earth-based Radar Observations for Lunar Geologic Investigations](#) [#2065]

Gronstal A. L. Cockell C. S. Perino M. A. Bittner T. Clacey E. Clark O. Ingold O.

De Oliveira C. A. Wathiong S,

[Primary Goals for Lunar Astrobiology in Relation to Human Lunar Missions as Defined by a Survey of International Researchers](#) [#2156]

Harris I. E.

[Proving a Fracture System of the Moon](#) [#2006]

Heldmann J. L. Colaprete T. Wooden D. Asphaug E. Schultz P. Plesko C. S. Ong L. Korycansky D. Galal K. Briggs G.

[Lunar Crater Observation and Sensing Satellite \(LCROSS\) Mission: Opportunities for Observations of the Impact Plumes from Ground-based and Space-based Telescopes](#) [#2011]

Hemant K. Purucker M. E. Sabaka T. J.

[Interpreting Magnetic Anomaly Signatures Observed over the Nearside Lunar Mare Basins](#) [#2105]

Hendrix A. R.

[Ultraviolet Effects of Space Weathering on the Moon](#) [#2151]

Herman J. R. Davilla J. Korendyke C. Hamill P.

[Janus: Observing the Sun-Earth Connection. A Lunar Mission Design Study](#) [#2004]

Hood L. L. Richmond N. C.

[Limits on the Lunar Metallic Core Size from Orbital Magnetometer Data: Further Analysis of Lunar Prospector Data](#) [#2070]

- James J. T. Kerschmann R. L.  
[\*Health Effects of Lunar Dust: A Gathering Place for Scientific Diversity\*](#) [#2122]
- Johnson J. B. Mungas G. S. Zacny K. Albert D. G. Banerdt B. Buehler M. Elphic R. C. Lambert J. Sturm M. Johnson K.  
[\*Lunar Suitcase Science: A Lunar Regolith Characterization Kit \(LROCK\)\*](#) [#2098]
- Jolliff B. L. Korotev R. L. Zeigler R. A.  
[\*Iron, Thorium, and Lithologic Diversity on the Moon\*](#) [#2130]
- Jones D. L. MacDowall R. J. Lazio T. J. W.  
[\*Design of a Lunar Array Precursor Station\*](#) [#2009]
- Jones L. Jacques S. Rask J. C. Tranfield E. Taylor L. Kerschmann R. Loftus D. J.  
[\*Lunar Dust Biological Effects\*](#) [#2100]
- Khan-Mayberry N. N.  
[\*Living on the Lunar Surface: Determining the Health Effects of Exposure to Respirable Lunar Dusts\*](#) [#2081]
- Kring D. A.  
[\*Flux of Impacting Material During the Basin-forming Epochs on the Moon\*](#) [#2140]
- Lam C.-W. James J. T. Khan-Mayberry N. Hammond D. Hunter R. McCluskey R. Taylor L. Chen B. T. Erdely P. C. Castranova V.  
[\*Pulmonary Toxicity Studies of Lunar Dust in Rodents\*](#) [#2136]
- Lawrence S. J. Robinson M. S. Broxton M. Stopar J. D. Close W. Grunsfeld J. Ingram R. Jefferson L. Locke S. Mitchell R. Scarsella T. White M. Hager M. A. Watters T. R. Bowman-Cisneros E. Danton J. Garvin J.  
[\*The Apollo Digital Image Archive: New Research and Data Products\*](#) [#2066]
- Lee K. T. Wilson T. L.  
[\*Lunar Luminescence\*](#) [#2008]
- Leverington D. W.  
[\*Channels and Basin Terraces of the Moon\*](#) [#2110]
- Lewis L. R.  
[\*Apollo Lunar Surface Science Stations \(ALSEPs\) Then \(1970s\) and Now \(2008\)\*](#) [#2035]
- Lewis L. R. Hsi H. K. Wallace R. B. Tosh W. M.  
[\*Lunar Science Stations of 35 Years Ago — The Apollo Lunar Surface Experiment Packages-ALSEPs/EASEP\*](#) [#2022]
- Li R. Di K. Wu B. Yilmaz A. Banks M. S. Oman C. Bhasin K. Tang M.  
[\*Enhancement of Spatial Orientation Capability of Astronauts on the Lunar Surface Supported by Integrated Sensor Network and Information Technology\*](#) [#2069]
- Lin R. P. Halekas J. S. Delory G. T. Bale S. D. Krauss-Varban D. Oieroset M. Phan T.  
[\*The Moon: A Unique Laboratory for Study of the Fundamental Physics of Magnetized Collisionless Plasmas\*](#) [#2128]
- Liu Y. Taylor L. A.  
[\*Lunar Dust: Chemistry and Physical Properties and Implications for Toxicity\*](#) [#2072]
- Livi S. A. Ho G. C. Kasper J. C.  
[\*Stroflo: A Neutral Mass Spectrometer for Lunar Applications\*](#) [#2029]
- Lowman P. D. Rao U. R. Richards R. D. Huang M. Veillet C. Takahashi Y. D. Bohannon C. T. Yuen D. L. Durst S. M.  
[\*International Lunar Observatory Association \(ILOA\): July 2008 Update — Mission, International, Finance and Organization Status\*](#) [#2071]
- Mardon A. A. Mardon C. A.  
[\*The Use of Lunar Lava Tubes as Emergency Storage and Habitation During Future Human Activity on the Lunar Surface\*](#) [#2107]

- Massa G. D. Bourget C. M. Morrow R. C. Brown C. S. Janes H. W. Mitchell C. A.  
[\*Manipulating the Plant-Lighting Environment to Enable Sustainable Human Habitation on the Moon\*](#) [#2152]
- McCubbin F. M. Nekvasil H. Jolliff B. L. Carpenter P. K. Zeigler R. A. Lindsley D. H.  
[\*Apatite from Apollo Samples 14161 and 12033: Analytical Hurdles and Implications for Relative Fluorine and Chlorine Contents in Late-Stage Lunar Magmas and Melts\*](#) [#2127]
- Messmer P. Horanyi M. Sternovsky Z. Robertson S.  
[\*Kinetic Simulations of the Lunar Plasma Environment with the VORPAL Framework\*](#) [#2063]
- Mest S. C. Van Arsdall L. E.  
[\*Geologic Mapping of the Schrödinger Basin Area, Lunar South Pole\*](#) [#2089]
- Milbury C. Schubert G. Raymond C. Smrekar S.  
[\*Joint Analysis of Gravity and Magnetic Anomalies on the Moon\*](#) [#2164]
- Miller J. Taylor L. A. DiGiuseppe M. Heilbronn L. H. Sanders G. Zeitlin C. J.  
[\*Radiation Shielding Properties of Lunar Regolith and Regolith Simulant\*](#) [#2028]
- Miller R. S. Bonamente M. Burgess J. M. Harmon B. A. Jenke P. Lawrence D. J. O'Brien S.  
Orr M. R. Paciesas W. S. Young C. A.  
[\*The Lunar Occultation Observer \(LOCO\) — A Nuclear Astrophysics All-Sky Survey Mission Concept\*](#) [#2050]
- Munsat T. Grün E. Horányi M. Robertson S. Srama R. Sternovsky Z. Wang X.  
[\*Micrometeorite Accelerator for Lunar Impact Studies: Needs and Capabilities\*](#) [#2062]
- Nagihara S. Taylor P. T. Milam M. B. Lowman P. D. Nakamura Y.  
[\*Challenges for Heat Flow Measurements on Future Lunar Landing Missions\*](#) [#2049]
- Neal C. R. Weinberg J. D.  
[\*The Importance of Global Lunar Geophysical Science\*](#) [#2111]
- Paik H. J. Chui T. Neal C. R.  
[\*A Sensitive Broadband Seismometer for Lunar/Planetary Exploration\*](#) [#2048]
- Papanastassiou D. A. Chen J. H.  
[\*Exotic Siderophiles on the Lunar Surface\*](#) [#2059]
- Park J. E. Doule O.  
[\*Robotic and Astronaut Tasks Related to Crew Safety\*](#) [#2149]
- Peters S. T. Foing B. H. Borst A. Bexkens F. Koschny D. Rossi A. Josset J. L.  
Beauvivre S. SMART-1 AMIE Team  
[\*SMART-1/Clementine Study of Humorum, Procellarum and South-Pole Aitken Basins: Coupling Between Impacts, Volcanism and Tectonics\*](#) [#2115]
- Petro N. E. Mest S. C.  
[\*Investigating the Interior of the South Pole-Aitken Basin\*](#) [#2094]
- Plescia J. B.  
[\*Lunar Surface Properties: What Do We Know, What Don't We Know, and What Do We Need to Know?\*](#) [#2087]
- Prisk G. K. Darquenne C.  
[\*Deposition and Clearance of Dust Particles in the Human Lung in Lunar Gravity\*](#) [#2076]
- Richard D. T. Davis S. S.  
[\*Polarimetric Signature of the Lunar Dust Exploration Environment\*](#) [#2003]

- Richards R. D. Khadem R.  
[\*Odyssey Moon — An Entrepreneurial Model for Sustainable Commercial Lunar Enterprise\*](#) [#2002]
- Robertson S. Horanyi M. Wang X.  
[\*Plasma Probes for Photoelectrons at the Lunar Surface\*](#) [#2040]
- Runyon C. J. Shipp S. Shupla C. Tuthill G. Halau K.  
[\*Sharing Moon Mineralogy Mapper \(M3\)/Chandrayaan-1 with Students and the Public\*](#) [#2067]
- Schrivver D. Travnicek P. M. Hellinger P. Bale S. D.  
[\*Global Kinetic Simulations of the Interaction Between the Solar Wind and the Moon\*](#) [#2150]
- Schultz A. B. Lyon R. Jordan I. Bruhweiler F. Kohte M. Rodrigue M. Bennum D.  
Chen P. Cheng K.-P.  
[\*Exploring Alien Solar Systems from the Moon\*](#) [#2047]
- Schultz P. H. Crawford D. A.  
[\*Origin of the Nearside/Farside Dichotomy\*](#) [#2118]
- Sears D. W. G.  
[\*Glimmerings of the Future: A Potential Role for Thermoluminescence and Related Studies in Addressing Key Current Questions in Lunar Science\*](#) [#2078]
- Shipp S. Nelson B. Stockman S. Weir H. Carter B. Bleacher L.  
[\*Stimulating Public Interest in Lunar Exploration and Enhancing Science Literacy Through Library Programs\*](#) [#2135]
- Shipp S. Shupla C. Stockman S. Runyon C. Lindstrom M. Allen J.  
[\*Connecting Audiences with Lunar Exploration\*](#) [#2147]
- Sobue S. Hoshino H. Okumura H. Kato M. Takizawa Y.  
[\*Preliminary Study of the Application of SELENE \(Kaguya\) Scientific Data to the Lunar Exploration\*](#) [#2014]
- Spann J. F. Taylor G. J. Neal C. R.  
[\*Exploring the Moon in the 21st Century: Themes, Goals Objectives, Investigations, and Priorities, 2008: Theme 1, Goal 1c: Use the Moon as a Platform for Astrophysical, Heliophysical, and Earth-observing Studies.\*](#) [#2120]
- Sternovsky Z. Wang X. Gruen E. Horanyi M. Munsat T. Robertson S.  
[\*The Lunar Surface Potential and Dust Mobilization near Sunlit-Shadowed Boundaries and Variation with Solar Activity\*](#) [#2042]
- Stooke P. J.  
[\*Preserving Exploration Heritage in the Moon 2.0 Era\*](#) [#2021]
- Tanaka S. Hashimoto T. Hoshino T. Okada T. Kato M.  
[\*The Next Japanese Lunar Mission, SELENE-2: Present Status and Science Objectives\*](#) [#2044]
- Taylor P. T. Lowman P. D. Nagihara S. Milam M. B. Nakamura Y.  
[\*Jurassic Diabase from Leesburg, VA: A Proposed Lunar Simulant\*](#) [#2054]
- Templeton T. C. Kinney A. L.  
[\*Twentieth Century Moon: The Evolution of Lunar Science, 1955–2002\*](#) [#2085]
- Teng F.-Z.  
[\*Lithium, Magnesium and Iron Isotopic Composition of the Moon\*](#) [#2116]
- Thompson T. W. Ustinov E. A. Heggy E.  
[\*Modeling Radar Scattering from Icy Lunar Regoliths\*](#) [#2027]
- Tranfield E. Rask J. C. Wallace W. T. Taylor L. Kerschmann R. James J. T. Khan-Mayberry N.  
LADTAG Research Working Group Loftus D. J.  
[\*Lunar Airborne Dust Toxicity Advisory Group \(LADTAG\) Research Working Group \(RWG\)\*](#) [#2125]

- Treiman A. H. Maloy A. K. Shearer C. K. Jr.  
[\*Magnesian Anorthositic Granulite: An Abundant, Significant, and Poorly Understood Lunar Rock Type of the Lunar Highlands\*](#) [#2112]
- Turyshev S. G. Williams J. G. Hemmati H. Folkner W. M.  
[\*New Laser-Ranging Instruments for Science Investigations Of, On, and From the Moon\*](#) [#2134]
- Walker J. D. Chocron S. Gray W.  
[\*Thermal Effects on Ice of Impacts on the Lunar Surface\*](#) [#2073]
- Walker R. Cross M.  
[\*The European Student Moon Orbiter \(ESMO\): A Small Mission for Education, Outreach and Lunar Science\*](#) [#2160]
- Walker R. J. Puchtel I. S. Day J. M. D. James O. B. Kring D. A.  
[\*Highly Siderophile Elements In and On the Moon: Implications for Lunar Formation and Late Bombardment\*](#) [#2045]
- Wallace W. T. Jeevarajan A. S.  
[\*Lunar Dust and Lunar Simulant Activation and Monitoring\*](#) [#2015]
- Wang X. Horanyi M. Robertson S.  
[\*Dust Transport on a Surface in Plasma\*](#) [#2024]
- Warren P. H. Young E. D. Newman W. I.  
[\*The Lunar Impact Vapor Paradox\*](#) [#2123]
- Weinberg J. D. Neal C. R. Lognonné P. Hood L. Huang S.  
[\*A Lunar Geophysical Instrument Package \(LGIP\) as a Candidate for the International Lunar Network \(ILN\) — Part I: Science and Instrumentation\*](#) [#2058]
- Weinberg J. D. Neal C. R. Roark S. E. Heshmatpour B.  
[\*A Lunar Geophysical Instrument Package \(LGIP\) as a Candidate for the International Lunar Network \(ILN\) — Part II: Architecture\*](#) [#2061]