

ALPHABETICAL LISTING OF TUESDAY EVENING POSTER LOCATIONS

** Poster location numbers correspond to numbers shown on boards. **

POSTER LOCATION NUMBER	AUTHORS	TITLE/ABSTRACT NUMBER
1	Yamada K. Inaba S.	<i>On Low-Mass Planetary Migration in an Optically Thick Disk</i> [#1126]
2	Pascussi I. Apai D.	<i>Stellar-Mass-Dependent Evolution of Planet Forming Disks</i> [#1244]
3	Fujita T. Ohtsuki K. Tanigawa T.	<i>Capture of Planetesimals by Circumplanetary Disks</i> [#1378]
4	Suetsugu R. Ohtsuki K.	<i>Global Orbital Integration for Temporary Capture of Planetesimals by a Giant Planet: Implication for Their Source Region</i> [#1157]
5	Perry J. Kimery J. Matthews L. S. Hyde T. W.	<i>Effects of Monomer Shape on the Formation of Fractal Aggregates Under a Power Law Distribution</i> [#2615]
6	Kropf A. Libourel G.	<i>Condensation Processes in the Early Solar Nebula — Experimental Approaches</i> [#1920]
7	Archer G. J. Walker R. J.	<i>Highly Siderophile Element and Rhenium-Osmium Isotope Systematics of Calcium-Aluminum Rich Inclusions: Evidence for Early Solar System Properties and Processes</i> [#2379]
8	Williams C. D. Wadhwa M. Janney P. E. Hines R. R. Bullock E. S. MacPherson G. J.	<i>The Measurement of Titanium Isotopic Compositions of Allende Refractory Inclusions by LA-MC-ICPMS</i> [#2523]
9	Haring M. M. Flemming R. L. Tersikh V. Grossman L. Simon S. B.	<i>Crystal Structure and Cation Ordering in Fassaita from Type B CAI TS62B in Allende CV3</i> [#2601]
10	Hamilton V. E. Connolly H. C. Jr.	<i>In Situ Microspectroscopy of a Type B CAI in Allende: Mineral Identification in Petrographic Context</i> [#2495]
11	Chizmadia L. J. Bravo-Ruiz H.	<i>QUE97416 and A-88882094, Two CO₃ Breccias: Evidence from Petrologic Subtypes Determined from Amoeboid Olivine Inclusions</i> [#2918]
12	Ivanova M. A. Ivanov A. V. Lorenz C. A. MacPherson G. J.	<i>An Unusual Type B2 CAI and a P-Ca-Rich Clast from Kaidun</i> [#2262]
13	Han J. Brearley A. J.	<i>Microstructural Observations of Spinel-Pyroxene Refractory Inclusions from the ALHA 77307 CO_{3.0} Carbonaceous Chondrite: Comparison with CAI-Like Objects in an Amoeboid Olivine Aggregate</i> [#1324]
14	Han J. Brearley A. J.	<i>The Microstructure and Microchemistry of Amoeboid Olivine Aggregates from the ALHA 77307 CO_{3.0} Carbonaceous Chondrite: Constraints on Formation and Thermal Histories</i> [#1323]
15	Luu T.-H. Chaussidon M. Birck J.-L.	<i>Mg Isotopic Constraints on the Origin of Mg-Rich Olivines in Allende Matrix and Porphyritic Type I Chondrules</i> [#2201]
16	Ingalls S. C. Young E. D. Gounelle M.	<i>Do Magnesium Isotope Systematics of Al-Rich Chondrules Offer Insights into the History of Chondrule Formation in General?</i> [#2665]
17	Miura H. Tsukamoto K.	<i>Numerical Simulation of Solidification of Chondrules: Formation of Olivine Bars in Mg₂SiO₄-Fe₂SiO₄ System</i> [#1715]
18	Dwyer C. A. Nimmo F. Asphaug E.	<i>A Physical Model for Simultaneous Production of CH and CB Chondrules During an Impact Event</i> [#2291]
19	Rocha S. E. Jones R. H.	<i>An Experimental Study of the Conditions of Type II Chondrule Formation in Ordinary Chondrites</i> [#2595]
20	Marrocchi Y. Libourel G.	<i>Evidence of High-Temperature Formation of Sulfide Phases of Chondrules</i> [#1386]
21	Bigolski J. N. Weisberg M. K. Connolly H. C. Jr. Ebel D. S.	<i>Microchondrule-Bearing, Iron-Rich Chondrule Rims in Northwest Africa 5717</i> [#2426]

POSTER LOCATION NUMBER	AUTHORS	TITLE/ABSTRACT NUMBER
22	Dobrica E. Brearley A. J.	<i>Glassy Vesiculated Microchondrule-Like Spherules in the Matrix of Unequilibrated Ordinary Chondrites</i> [#2197]
23	Lehner S. W. Petaev M. I. Buseck P. R.	<i>Sulfidation of Enstatite in the Fine-Grained Matrix of EH3 Sahara 97072</i> [#2309]
24	Feng L. ElGoresy A. Zhang J. Hao J. Boyet M. Yang L.	<i>Excess ³⁶S in Lawrencite and Nitrogen Isotopic Compositions of Sinoite from Almahata Sitta MS-17 EL3 Chondrite Fragment</i> [#1766]
25	Das J. P. Meshik A. P. Pravdivtseva O. Hohengberg C. M.	<i>Trapped Noble Gases in Magnetic and Non-Magnetic Separates from Allende Chondrules: Clues for Noble Gas Fractionation during Chondrule Formation</i> [#2346]
26	Beyersdorf-Kuis U. Trieloff M. Cartwright J. A. Bennett J. Ott U.	<i>Cosmogenic Noble Gases in Single Chondrules from CV and CR Chondrites</i> [#1763]
27	Huber L. Metzler K. Maden C. Vogel N. Wieler R.	<i>Cosmic Ray Irradiation History of Individual Murchison Chondrules Analyzed by UV-Laser Ablation</i> [#1420]
28	Marhas K. K. Randhawa J. S.	<i>Production of Short Lived Radionuclides: Late-Stage Irradiation in the Early Solar System</i> [#2410]
29	Meyer B. S. Yu T.	<i>Dynamical Weak Statistical Equilibrium and the Neutron-Rich Iron-Group Isotopes</i> [#2727]
30	Yu T. Meyer B. S.	<i>On Production of Neutron-Rich Iron-Group Isotopes in Simple Models of Dense Thermonuclear Supernovae</i> [#2293]
31	Bowers M. Collon P. Kashiv Y. Lu W.	<i>³⁵S(α,p)³⁶Cl Cross Section Measurement for Production in the Early Solar System</i> [#1700]
32	Bricker G. E. Jr. Caffee M. W.	<i>Incorporation of ⁷Be, ¹⁰Be, ¹⁴C, ²⁶Al, ³⁶Cl, ⁴¹Ca, and ⁵³Mn into Early Solar System Materials in the Solar Wind Implantation Model</i> [#1599]
33	Blinova A. Alexander C. M. O'D. Wang J. Herd C. D. K.	<i>Mineralogy and Mn-Cr Extinct Radionuclide Dating of a Dolomite from the Pristine Tagish Lake Meteorite</i> [#1188]
34	Englert P.	<i>⁵³Mn and Cosmic Ray Track Production Rates: Contributions of Exposure Histories of Djermaia and Lost City</i> [#1729]
35	Jörg G. Amelin Y. Kossert K. v. Gostomski C. L.	<i>Direct Determination of the Half-Life of ⁴¹Ca</i> [#1757]
36	Marks N. E. Borg L. E. Hutcheon I. D. Jacobsen B. Clayton R. N. Mayeda T. K.	<i>Temporal and Spatial Heterogeneities in the Solar Nebula Reflected in Rb-Sr and Sm-Nd Systematics of Al3S4, an Allende Type B CAI</i> [#2259]
37	Ito M.	<i>THE JAMSTEC NanoSIMS 50L Ion Microprobe: Applications to Earth, Planetary and Life Sciences</i> [#1752]
38	Liu M.-C. Chaussidon M.	<i>Calcium-41 Revisited: Development of Potassium Isotope Mass Spectrometry on CAMECA 1280HR2</i> [#1890]
39	Kööp L. Davis D. W.	<i>Classification and U-Pb Isotopic Study of Northwest Africa 6514</i> [#2066]
40	Tissot F. L. H. Dauphas N.	<i>²³⁸U/²³⁵U Ratios of Anagrams: Angrites and Granites</i> [#1981]
41	Burnett D. S. Paque J. M. Beckett J. R. Guan Y.	<i>On the Origin of Li Isotopic Variations in Ca-Al-Rich Inclusions (CAIs)</i> [#2159]
42	Van Orman J. A. Cherniak D. J. Kita N. T.	<i>Magnesium Diffusion in Plagioclase</i> [#1467]
43	Ireland T. J. Dauphas N. Tissot F. L. H.	<i>Development of an Automated All-Teflon HPLC System for the Analysis of Precious Geological and Extraterrestrial Materials</i> [#2141]

POSTER LOCATION NUMBER	AUTHORS	TITLE/ABSTRACT NUMBER
44	Yamada A. Nanbu S. Ozima M.	<i>Quantum Chemical Calculations on Photo-Dissociation of CO: $E^1 \square \square \chi \square$ with Non-Adiabatic Transition</i> [#2714]
45	Wirström E. S. Charnley S. B. Geppert W. D. Persson C. M.	<i>Observations of Carbon Isotopic Fractionation in Interstellar Formaldehyde</i> [#1611]
46	Contreras C. S. Salama F.	<i>Laboratory Simulation of the Formation and Destruction Processes of Extraterrestrial Carbonaceous Materials</i> [#2853]
47	Lyons J. R.	<i>Isotope Signatures in Organics due to CO and N₂ Self-Shielding</i> [#2858]
48	Rodriguez M. C. Allton J. H. Burkett P. J.	<i>Using Image Pro Plus Software to Develop Particle Mapping on Genesis Solar Wind Collector Surfaces</i> [#2750]
49	Schmeling M. Burnett D. S. Choi Y. Eng P. J. Stubbs D. E. Tripa C. E. Veryovkin I. V.	<i>Study of Genesis Solar Wind Samples by Laboratory Based Total Reflection X-Ray Fluorescence Spectrometry and Synchrotron Based Grazing Incidence X-Ray Fluorescence</i> [#2209]
50	Baryshev S. V. Zinovev A. V. Tripa C. E. Pellin M. J. Burnett D. S. Veryovkin I. V.	<i>Fine Structure of Near-Surface Solar Wind Depth Profile by SNMS/SEM Imaging</i> [#2909]
51	Wiens R. C. Olinger C. T. Reisenfeld D. B. Heber V. Burnett D. S.	<i>Ion Trajectory Simulations of the Genesis Solar Wind Concentrator: Li, C, Mg, S</i> [#1369]
52	Heber V. S. Jurewicz A. J. G. Janney P. Wadhwa M. McKeegan K. D. Burnett D. S.	<i>Magnesium Isotopic Composition of Solar Wind as Test for Sun-Solar Wind Isotopic Fractionation: A Progress Report</i> [#2921]
53	Wimpenny J. Yin Q. Z. Burnett D. S. Jurewicz A. J. G. Woolum D. S.	<i>Measuring the Mg Fluence of the Solar Wind Using LA-ICP-MS Depth Profiling</i> [#1857]
54	Veryovkin I. V. Baryshev S. V. Burnett D. S. Pellin M. J. Tripa C. E. Zinovev A. V.	<i>Dual Beam Sputter Depth Profiling of Genesis Solar Wind Collectors by RIMS</i> [#2296]
55	Veryovkin I. V. Baryshev S. V. Becker N. G. Burnett D. S. Choi Y. Eng P. J. Stubbs J. E. Schmeling M. Toyoda N. Tripa C. E. Yamada I. Zinovev A. V.	<i>Cleaning Genesis Samples with Gas Cluster Ion Beams: Method Evaluation by Comparative Studies with RIMS, GI-XRF and Other Surface Characterization Techniques</i> [#2732]
56	Kebukawa Y. Cody G. D.	<i>Deuterium-Hydrogen Exchange Kinetics: Implications for Early Chemical Evolution of Chondritic Insoluble Organic Matter</i> [#1034]
57	Gasda P. J. Taylor G. J.	<i>The Distribution of Organic Carbon in CR2 Chondrite EET 92161</i> [#1677]
58	Peeters Z. Changela H. Stroud R. M. Alexander C. M. O'D. Nittler L. R.	<i>Coordinated Analysis of In Situ Organic Material in the CR Chondrite QUE 99177</i> [#2612]
59	Okabayashi S. Yokoyama T. Hirata T.	<i>Iron Isotopic Signature for Fe-Ni Metal of Ordinary Chondrite Using Newly Developed Technique; LAL-MC-ICPMS</i> [#1871]
60	Petaev M. I. Lehner S. W. Buseck P. R.	<i>Chemical Fractionation During Processing of Silicates in S-Rich Systems: Implications for the Origin of Enstatite Chondrites</i> [#2229]
61	Lehner S. W. Petaev M. I. Buseck P. R.	<i>Relation Between Silicate Chondrules and Metal-Sulfide Nodules in EH3 Chondrites</i> [#2252]
62	Varela M. E. Zinner E.	<i>Silica-Rich Objects in Acfer 128: A SIMS Study</i> [#1405]
63	Parai R. Huang S. Jacobsen S. B.	<i>Precise Determination of Calcium Isotope Variations in Meteoritic and Planetary Materials</i> [#1625]
64	Kaltenbach A. Stirling C. H. Amelin Y.	<i>Uranium Isotopic Composition of Carbonaceous Chondrites</i> [#1691]
65	Fukami Y. Yokoyama T.	<i>Tellurium Isotope Anomalies in Carbonaceous Chondrites: Results for Sequential Acid Leaching Experiments</i> [#1861]

POSTER LOCATION NUMBER	AUTHORS	TITLE/ABSTRACT NUMBER
66	Crowther S. A. Filtness M. J. Gilmour J. D.	<i>Pathways of Iodine and Xenon into Terrestrial Planets</i> [#1919]
67	Isa J. Rubin A. E. Wasson J. T.	<i>Bulk Compositions of CV and CK Chondrites: Support for a Close Relationship</i> [#2809]
68	Teplyakova S. N. Humayun M. Lorenz C. A. Ivanova M. A.	<i>A Common Parent for IIE Iron Meteorite and H Chondrites</i> [#1130]
69	Humayun M. Weisberg M. K.	<i>A Possible Ordinary Chondrite Affinity for Metal from the Unique Chondrite NWA 5492</i> [#1458]
70	Ebihara M. Sekimoto S. Shirai N. Nakamura T. Tsuchiyama A. Abe M. Fujimura A. Mukai T. Yada T.	<i>Neutron Activation Analysis of Rocky Grains Recovered by the Hayabusa Spacecraft — Revisited</i> [#1986]
71	Nagano T. Tsuchiyama A. Shimobayashi N. Seto Y. Noguchi R. Imai Y. Matsumoto T. Matsuno J.	<i>Homogeneity of LL5 and LL6 Chondrites in Relation to Hayabusa Sample Analysis</i> [#2500]
72	Monnereau M. Toplis M. J. Baratoux D. Guignard J.	<i>Thermal Constraints on the Time and Duration of Accretion of the H-Chondrite Parent Body</i> [#2046]
73	Melanson D. Samson C. Herd R. K. Fry C. McCausland P. J. A. Umoh J. Holdsworth D. W.	<i>X-Ray Micro-Computed Tomography Imaging of the Buzzard Coulee Chondrite</i> [#1506]
74	Christoffersen P. A. Simon J. I. Ross D. K. Friedrich J. M. Cuzzi J. N.	<i>Particle Size Distributions Obtained Through Unfolding 2D Sections: Towards Accurate Distributions of Nebular Solids in the Allende Meteorite</i> [#2058]
75	Lunning N. G. Corrigan C. M. Welzenbach L. C. McCoy T. J.	<i>Using Immersion Oils to Classify Equilibrated Ordinary Chondrites from Antarctica</i> [#1566]
76	McDermott K. H. Greenwood R. C. Franchi I. A. Anand M. Scott E. R. D.	<i>The IIE Iron Meteorite Family Tree: A Study of the Petrography and Oxygen Isotopes of the Non-Magmatic Group</i> [#1799]
77	Van Roosbroek N. Goderis S. Debaille V. Valley J. W. Claeys Ph.	<i>Formation of the Mont Dieu IIE Non Magmatic Iron Meteorite, and Origin of its Silicate Inclusions</i> [#1773]
78	Winfield T. B. Goldstein J. I. Scott E. R. D.	<i>Cooling Rate Estimates for IAB and III CD Iron Meteorites</i> [#1307]
79	Dietderich J. E. Walker R. J.	<i>Modeling Fractional Crystallization of Group IIAB Iron Meteorites</i> [#1195]
80	Worsham E. A. Walker R. J. Corrigan C. M. McCoy T. J.	<i>The Tishomingo Iron Meteorite and a Possible Genetic Link to Group IVB Iron Meteorites — Evidence from Molybdenum Isotopes</i> [#2678]
81	Campbell T. J. Humayun M.	<i>Siderophile Element Abundances in the Ni-Rich Ataxites Gebel Kamil, Dumont and Tinnie</i> [#2833]
82	Fry C. Samson C. McCausland P. J. A. Herd R. K.	<i>3D Laser Imaging of Iron Meteorites</i> [#2703]
83	Arai T. Kasuga T. Otsuka K.	<i>Mm-Cm Scale Chemical Heterogeneity of Partially-Molten Planetismals: Evidences from Meteorites and Meteors</i> [#2932]
84	Ness P. K. Miyamoto H.	<i>Possible Under-Sampling of Meteorites Inferred from a New Database of Meteorite and Terrestrial Rock</i> [#1388]
85	Hutchins K. I. Agee C. B.	<i>Microprobe Analyses of Two Almahata Sitta Ureilites</i> [#2435]
86	Wang K. Moynier F. Dauphas N. Barrat J. A. Craddock P. R. Sio K.	<i>Iron Isotopic Compositions of Angrites and Stannern-Trend Eucrites</i> [#1146]
87	Warren P. H. Rubin A. E.	<i>The Miller Range 090340 Dunitite: Not a Uniquely Ferroan Ureilite, not even a Ureilite</i> [#2528]
88	Charon E. Aléon J. Rouzaud J. N.	<i>Early History of Acapulco and Lodran Constrained by the Nanostructure and C, N Isotopic Composition of Their Carbons</i> [#2734]

POSTER LOCATION NUMBER	AUTHORS	TITLE/ABSTRACT NUMBER
89	Sipiera P. P. Irving A. J. Kuehner S. M. Tanaka R.	<i>Acapulcoite PCA 01026 and Other Meteorites Collected in a 2002 Expedition to Pecora Escarpment, Antarctica</i> [#1516]
90	Jambon A. Humayun M. Barrat J. A.	<i>Northwest Africa 6693: A Unique Achondritic Cumulate</i> [#2099]
91	Ma C. Beckett J. R. Rossman G. R.	<i>Discovery of Buseckite, (Fe,Zn,Mn)S, a New Mineral in Zakłodzie, an Ungrouped Enstatite-Rich Achondrite</i> [#1520]
92	Jawin E. R. Kiefer W. S. Bussey D. B. J. Cahill J. T. S. Dyar M. D. Fassett C. I. Spudis P. D.	<i>Analyzing the Evolution of Surface Roughness of Lunar Mare</i> [#1343]
93	Jawin E. R. Kiefer W. S. Bussey D. B. J. Cahill J. T. S. Dyar M. D. Fassett C. I. Lawrence S. Spudis P. D.	<i>The Relationship Between Radar Scattering and Surface Roughness of Lunar Volcanic Domes</i> [#1333]
94	Kumamoto A. Ono T. Kobayashi T.	<i>A Study of the Lunar Subsurface Echo Intensity for Evaluation of the Maximum Detection Depth of the Kaguya Lunar Radar Sounder</i> [#1465]
95	Bando Y. Kumamoto A. Nakamura N. Nagahama H.	<i>Subsurface Magnetized Source Layers Underneath the Mare Crisium Observed by Lunar Radar Sounder</i> [#1380]
96	Meyer J. A. Hurtado J. M.	<i>Detecting Subsurface Lunar Lava Tubes Using Thermal Inertia</i> [#1636]
97	Roberts C. E. Gregg T. K. P.	<i>Quantitative Comparisons of Lunar Sinuous Rilles in the Marius Hills and Aristarchus Plateau Regions: Insights into Formation and Evolution</i> [#1685]
98	Feng D. C. Ye C. Huang Y. Xiang S. M. Yuan Y. F. Zhang J. B. Huang D. H. Yang R. Y. Zhu P. M.	<i>The Characteristic of Lunar Rilles Around Mare Imbrium</i> [#1419]
99	Whitten J. L. Head J. W. III Neumann G. A. Zuber M. T. Smith D. E.	<i>Volcanic Flooding Experiments in Impact Basins and Heavily Cratered Terrain Using LOLA Data: Patterns of Resurfacing and Crater Loss</i> [#1470]
100	Gaddis L. Hawke B. R. Giguere T. Klem S. Gustafson J. O. Lawrence S. J. Stopar J. D.	<i>Volcanism Within Floor-Fractured Atlas Crater</i> [#2787]
101	Arimoto T. Ohtake M. Haruyama J. Iwata T.	<i>Composition of Dark Mantle Deposit on the Aristarchus Plateau</i> [#1572]
102	Hawke B. R. Giguere T. A. Gaddis L. R. Gustafson O. Lawrence S. J. Stopar J. D. Peterson C. A. Bell J. F. III Robinson M. S. LROC Science Team	<i>Localized Pyroclastic Deposits in the Grimaldi Region of the Moon</i> [#1749]
103	Hawke B. R. Giguere T. A. Lawrence S. J. Glotch T. D. Greenhagen B. T. Hagerty J. J. Braden S. E. Gaddis L. R. Jolliff B. L. Lucey P. G. Stopar J. D. Peterson C. A. Paige D. A. Robinson M. S. LROC Science Team	<i>The Geology and Composition of Hansteen Alpha</i> [#1754]
104	Accardo N. J. Jolliff B. L. Lawrence S. J.	<i>Boulder Densities at the Compton-Belkovich Volcanic Complex</i> [#1656]
105	Stooke P. J.	<i>Lunar Meniscus Hollows</i> [#1011]
106	Garcia J. H. Hurtado J. M. Jr.	<i>Phreatomagmatic Activity on the Moon: Possibility of Pseudocraters on Mare Frigoris</i> [#1390]
107	Lawrence S. J. Stopar J. D. Hawke B. R. Jolliff B. L. Robinson M. S. Spudis P. D. Giguere T. A.	<i>Characterizing Volcanic Cones in the Marius Hills Region</i> [#2432]
108	Allen C. C. Greenhagen B. T. Donaldson Hanna K. L. Oehler D. Z. Paige D. A.	<i>Derivation of FeO Abundances in Lunar Pyroclastic Deposits Using LRO Diviner</i> [#1504]

POSTER LOCATION NUMBER	AUTHORS	TITLE/ABSTRACT NUMBER
109	Otake H. Ohtake M. Hirata N.	<i>Lunar Iron and Titanium Abundance Algorithms Based on SELENE (Kaguya) Multiband Imager Data</i> [#1905]
110	Bhatt M. Mall U. Bugiolacchi R.	<i>Iron Abundance Estimation of the Lunar Surface Using VIS-NIR Spectrometers On-Board Chandrayaan-1</i> [#1409]
111	Moriarty D. P. III Pieters C. M. Petro N. Isaacson P. J.	<i>Compositional Heterogeneity Within Lunar Central Peaks</i> [#2399]
112	Cheek L. C. Donaldson Hanna K. L. Pieters C. M. Head J. W. Whitten J. L.	<i>Anorthosite Exposures in the Inner Rook Mountains of the Lunar Orientale Basin</i> [#2731]
113	Bugiolacchi R. Mall U. Bhatt M.	<i>NIR Spectral Characterisation of the Northern Imbrium Region from SIR-2 Data</i> [#1462]
114	Yamamoto A. Ohtake M. Haruyama J. Matsunaga T.	<i>Kaguya LISM/MI Data Analysis for the Menelaus Crater Region of the Moon</i> [#1449]
115	Kaur P. Chauhan P. Bhattacharya S. Ajai Kumar A.S. K.	<i>Compositional Diversity at Tycho Crater: Mg-Spinel Exposures Detected from Moon Mineralogical Mapper (M³) Data</i> [#1434]
116	Arivazhagan S. Anbazhagan S.	<i>Lithological Discrimination of Apollo 17 Landing Site Using Chandrayaan1 Moon Mineralogical Mapper Data</i> [#1751]
117	Lemelin M. Germain M. Morisset C.-E. Hipkin V. Goïta K.	<i>Ilmenite Detection on the Moon by Remote Sensing: An Integration of Multisensor Datasets over Mare Australe and Mare Ingenii Regions</i> [#1972]
118	Standart D. L. Hurtado J. M. Jr.	<i>Lunar Mineralogy Exploration Using Moon Mineralogy Mapper (M³) Hyperspectral Imagery</i> [#2142]
119	Boyd A. K. Robinson M. S. Mahanti P.	<i>Automatic Lunar Smooth Plains Classification Using LRO and Clementine Mission Data</i> [#2917]
120	Isaacson P. J. Petro N. E. Pieters C. M. Besse S. Boardman J. W. Clark R. N. Green R. O. Lundeen S. Malaret E. McLaughlin S. Sunshine J. M. Taylor L. A. M3 Team	<i>Absolute Ferrous Absorption Band Strength in the Lunar Feldspathic Highlands Terrane from the Moon Mineralogy Mapper</i> [#1740]
121	Powell K. E. McGovern P. J. Kramer G. Y.	<i>Olivine Detections at the Rim of Crisium Basin with Moon Mineralogy Mapper</i> [#1689]
122	Wiseman S. M. Donaldson Hanna K. L. Mustard J. F. Isaacson P. J. Pieters C. M. Jolliff B.	<i>Origin of Aristarchus Olivine Based on M³ and Diviner Analyses</i> [#2515]
123	Mustard J. F. Donaldson Hanna K. L. Wiseman S. Pieters C. M.	<i>Visible-Near Infrared and Morphologic Character of High Silica Areas Identified by Diviner in the Aristarchus Crater: Association with Impact Melt</i> [#2246]
124	Foote E. J. Paige D. A. Shepard M. K. Johnson J. R. Grundy W. M. Biggar S. F. Greenhagen B. T. Allen C. C.	<i>Laboratory and Diviner Bidirectional Reflectance Measurements of Apollo Soils</i> [#2357]
125	Goguen J. D.	<i>Apollo Soils Physical Properties Linked to M³ Spectra Combined with ROLO Photometry</i> [#2568]
126	Boyd A. K. Robinson M. S. Sato H.	<i>Lunar Reconnaissance Orbiter Wide Angle Camera Photometry: An Empirical Solution</i> [#2795]
127	Yokota Y. Matsunaga T. Yamamoto S. Ohtake M. Haruyama J. Nakamura R. Ogawa Y. Morota T. Honda C. Saiki K. Nagasawa K. Kitazato K. Sasaki S. Iwasaki A. Demura H. Hirata N. Hiroi T. Honda R. Iijima Y. Mizutani H.	<i>Lunar Photometric Properties at Wavelength over 1.7 Microns Acquired by SELENE Spectral Profiler NIR-2 Sensor</i> [#2810]
128	Cheng A. F. Domingue D. L.	<i>Photometric Modeling of Particulate Surfaces: A New Radiative Transfer Approach</i> [#1568]
129	Arnold J. A. Glotch T. D. Wolff M. J.	<i>Exact Calculation of the Scattering Properties of Wavelength-Sized Particles</i> [#2529]

POSTER LOCATION NUMBER	AUTHORS	TITLE/ABSTRACT NUMBER
130	Banks M. E. Watters T. R. Robinson M. S. Tornabene L. L. Tran T. Ojha L. Williams N. R. LROC Team	<i>Morphometric Analysis of Small-Scale Lobate Scarps on the Moon Using Data from the Lunar Reconnaissance Orbiter</i> [#2817]
131	Mahanti P. Burns K. Tran T. Robinson M. S.	<i>Measurement of Highland Pond Melt Volumes from LRO NAC DEMs</i> [#2807]
132	Antonenko I.	<i>Leathery Texture in the Bose, Bhabha, and Stoney Crater Region of South Pole-Aitken Basin on the Moon</i> [#2581]
133	Jin Y. Q.	<i>Diurnal Temperature Changes of Cratered Lunar Surface Inverted from Chinese Chang'E-1 Multi-Channel Radiometer Observations</i> [#1004]
134	Holsclaw G. M. Snow M. McClintock W. E.	<i>Disk-integrated Polarization of the Moon in the Ultraviolet</i> [#2832]
135	Hendrix A. R. Vilas F. Holsclaw G. M. Feldman P. D.	<i>Ultraviolet Spectroscopy of the Moon: A New Look at Some Not-so-New Data Sets</i> [#2839]
136	Cahill J. T. S. Bussey D. B. J. Patterson G. W. Turner F. S. Lopez N. R. Raney R. K. Neish C. D. Mini-RF Science Team	<i>Global Mini-RF S-Band CPR and M-Chi Decomposition Observations of the Moon</i> [#2590]
137	Aldridge T. M. Thomson B. J. Stoddard P. R. Cahill J. T. S. Bussey D. B. J. Mini-RF Science Team	<i>A Mini-RF Radar Analysis of the Moon's South Pole-Aitken Basin</i> [#2493]
138	Baloga S. M. Glaze L. S. Spudis P. D.	<i>Inferred Lunar Boulder Distributions at Decimeter Scales</i> [#1647]
139	Hayne P. O. Aharonson O. Bandfield J. L. Greenhagen B. T. Paige D. A.	<i>The Surface Roughness of the Moon from Diviner Infrared Observations</i> [#2829]
140	Wilson J. K. Spence H. E. Case A. W. Blake J. B. Golightly M. J. Kasper J. Looper M. D. Mazur J. E. Schwadron N. Townsend L. W. Zeitlin C.	<i>First Cosmic Ray Albedo Proton Map of the Moon</i> [#2373]
141	Case A. W. Kasper J. C. Spence H. E. Golightly M. J. Schwadron N. E. Blake J. B. Looper M. Mazur J. E. Townsend L. W. Zeitlin C. J.	<i>An Unidentified Lunar Cosmic Ray Signal that Depends on Altitude and Solar Zenith Angle</i> [#2479]
142	Yamashita N. Reedy R. C. Hareyama M. Kobayashi M. Hasebe N. Nagaoka H. Karouji Y. Kobayashi S. d'Uston C. Gasnault O. Forni O. Kim K. J. Hamara D. K. Kaguya Gamma Ray Spectrometer Team	<i>Peaks in Kaguya Gamma-Ray Spectra and Gamma Rays Used to Get Elemental Abundances</i> [#1283]
143	McClanahan T. P. Mitrofanov I. G. Boynton W. V. Chin G. Livengood T. Starr R. D. Evans L. G. Neumann G. Mazarico E. Smith D. E. LEND Team LOLA Team	<i>Estimation of Orbital Neutron Detector Spatial Resolution by Systematic Shifting of Differential Topographic Masks</i> [#2302]
144	Hagerty J. J. Lawrence D. J. Cahill J. T. S. Klima R. L. Gillis-Davis J. J.	<i>Analysis of Global Lunar Iron Abundances: A Systematic Comparison of Lunar Prospector and Clementine Data</i> [#1933]
145	Schorghofer N.	<i>On the Theory of Migration of Water on the Moon</i> [#1110]
146	Livengood T. A. Mitrofanov I. G. Boynton W. V. Chin G. McClanahan T. P. Starr R. D. Evans L. G. LEND Team	<i>A Search for Hydrogen near the Lunar Terminator at Low Latitude</i> [#2643]
147	Lemelin M. Roberts C. E. Blair D. M. Runyon K. D. Nowka D. Paige D. A. Spudis P. D. Kring D. A.	<i>Finding Volatiles in the Lunar Surface: An Innovative Multi-Source ArcGIS-Based Approach</i> [#1067]
148	Thompson T. W. Ustinov E. A. Spudis P. D. Fessler B. W.	<i>Modeling of Radar Backscatter from Icy and Rough Lunar Craters</i> [#1069]

POSTER LOCATION NUMBER	AUTHORS	TITLE/ABSTRACT NUMBER
149	Boynton W. V. Droege G. F. Harshman K. Schaffner M. A. Mitrofanov I. G. McClanahan T. P. LEND Team	<i>Constraints on Lunar Hydrogen Mobility Provided by High Spatial Resolution Studies of Epithermal Neutron Emission</i> [#2244]
150	Mitchell E. H. Schaible M. J. Raut U. Fulvio D. Dukes C. A. Baragiola R. A.	<i>Photodesorption of Adsorbed Water on the Moon</i> [#2362]
151	Runyon K. D. Blair D. M. Lemelin M. Nowka D. Roberts C. E. Paige D. A. Spudis P. Kring D. A.	<i>Volatiles at the Lunar South Pole: A Case Study for a Mission to Amundsen Crater</i> [#1619]
152	Smith D. E. Zuber M. T. Head J. W. Neumann G. A. Mazarico E. Torrence M. H. Aharonson O. Tye A. R. Fassett C. I. Rosenburg M. A. Melosh H. J.	<i>Brightening and Volatile Distribution within Shackleton Crater Observed by the LRO Laser Altimeter</i> [#1663]
153	McGovern J. A. Bussey D. B. J. Greenhagen B. T. Paige D. A. Cahill J. T. S. Siegler M. Spudis P. D.	<i>Mapping and Characterization of Non-Polar Permanent Shadows on the Lunar Surface</i> [#2550]
154	Speyerer E. J. Robinson M. S. Lawrence S. J. Burns K. Stopar J. D.	<i>In Search of Shade in Persistently Illuminated Regions near the Lunar Poles</i> [#2633]
155	Siegler M. A. Bills B. G. Paige D. A.	<i>Spatio-Temporal Evolution of Lunar Polar Cold Traps</i> [#2376]
156	Hurley D. M. Lawrence D. J. Bussey D. B. J. Vondrak R. R. Elphic R. C. Gladstone G. R.	<i>Two-Dimensional Distribution of Ice in the Lunar Regolith — Modeling and Interpretation</i> [#1145]
157	Alford J. A. Hodges A. R. Heggy E. Crotts A. P. S.	<i>Exploring Volatile Deposition in Lunar Regolith</i> [#2938]
158	Jacob S. R. Mercer C. N.	<i>Tracking the Process of Volatile Release from the Lunar Highland Breccia Meteorite Northwest Africa 2996 Using Vesicle Size Distributions</i> [#1291]
159	Robinson K. L. Taylor G. J. Hellebrand E. Nagashima K.	<i>Water in Evolved Lunar Rocks: Implications for Water Distribution in the Lunar Mantle</i> [#1727]
160	Barnes J. J. Anand M. Franchi I. A. Starkey N. A. Ota Y. Sano Y. Russell S. S. Tartese R.	<i>The Hydroxyl Content and Hydrogen Isotope Composition of Lunar Apatites</i> [#1797]
161	Liu Y. Mosenfelder J. L. Guan Y. Rossman G. R. Eiler J. M. Taylor L. A.	<i>Sims Analysis of Water Abundance in Nominally Anhydrous Minerals in Lunar Basalts</i> [#1866]
162	Nunn M. H. Thiemens M. H.	<i>High Precision Oxygen Isotopic Measurements of Water Extracted from Selected Lunar Samples</i> [#2752]
163	Treiman A. H. Gross J.	<i>Abundant Apatite in Granulite 79215: Spoor of Another Volatile-Rich Lunar Fluid</i> [#1223]
164	Ustunisik G. Nekvasil H. Lindsley D. H. McCubbin F. M.	<i>Vapor Phase Evolution During Sequential Degassing of Cl-, F-, H₂O- and S-Bearing Lunar Magmas: Insights from Time Studies</i> [#1879]
165	Shearer C. K. Jr. Sharp Z. D. McCubbin F. M. Steele A. Burger P. V. Provencio P. P. Papike J. J.	<i>Chlorine Distribution and Its Isotope Composition, Alteration Mineralogy, and Micro-Textural Analysis of “Rusty Rock” 66095. Implications for the Petrogenesis of “Rusty Rock”, Origin of “Rusty” Alteration, and Volatile Element Behavior on the Moon</i> [#1416]
166	Boyce J. W. Ma C. Eiler J. M. Baker M. B. Liu Y. Stolper E. M. Taylor L. A.	<i>Sulfur Speciation in Lunar and Terrestrial Apatite</i> [#2675]
167	Wetzel D. T. Jacobsen S. D. Rutherford M. J. Hauri E. H. Saal A. E.	<i>The Solubility and Speciation of Carbon in Lunar Picritic Magmas</i> [#1535]
168	Newcombe M. Brett A. Beckett J. R. Baker M. B. Newman S. Stolper E. M.	<i>Solubility and Diffusivity of H-Bearing Species in Lunar Basaltic Melts</i> [#2777]
169	Fimiani L. Cook D. L. Faestermann T. Gomez Guzman J. M. Hain K. Herzog G. F. Korschinek G. Ligon B. Ludwig P. Park J. Reedy R. C. Rugel G.	<i>Sources of Live ⁶⁰Fe, ¹⁰Be, and ²⁶Al in Lunar Core 12025, Core 15008, Skim Sample 69921, Scoop Sample 69941, and Under-Boulder Sample 69961</i> [#1279]

POSTER LOCATION NUMBER	AUTHORS	TITLE/ABSTRACT NUMBER
170	Joy K. H. Nagashima K. Huss G. R. Zolensky M. E. Kring D. A.	<i>Mineral Chemistry and Oxygen Isotope Analysis of a Chondritic Projectile in Lunar Meteorite Pecora Escarpment 02007</i> [#1021]
171	Korotev R. L. Irving A. J. Bunch T. E.	<i>Keeping Up With the Lunar Meteorites — 2012</i> [#1152]
172	Kuehner S. M. Irving A. J. Korotev R. L.	<i>Petrology and Composition of Lunar Meteorite Northwest Africa 7022: An Unusually Sodic Anorthositic Gabbroic Impact Melt Breccia with Compositional Similarities to Miller Range 090036</i> [#1524]
173	Demidova S. I. Nazarov M. A. Ivanova M. A. Lorenz K. A. Kononkova N. N.	<i>New Lunar Meteorite from the Sahara Desert: North West Africa 6888</i> [#1726]
174	Kent J. J. Brandon A. D. Lapen T. J. Peslier A. H. Irving A. J. Coleff D. M.	<i>In Situ Chemical Characterization of Mineral Phases in Lunar Granulite Meteorite Northwest Africa 5744</i> [#2559]
175	Shirai N. Ebihara M. Sekimoto S. Yamaguchi A. Nyquist L. Shih C.-Y. Park J. Nagao K.	<i>Geochemistry of Lunar Highland Meteorites MIL 090034, 090036 and 090070</i> [#2003]
176	Kuehner S. M. Irving A. J. Korotev R. L.	<i>Petrology and Composition of Lunar Mare Ferroan Gabbro Breccia Northwest Africa 7007: New Insights into the Complex Petrogenesis of Northwest Africa 773 and Siblings</i> [#1519]
177	Gorman J. Gross J.	<i>Spinel-Rich Lithologies on the Moon: An Experimental Study of Possible Precursor Melt Compositions</i> [#1125]
178	Elardo S. M. Shearer C. K. Jr. Fagan A. L. Neal C. R. Burger P. V. Borg L. E.	<i>Diversity in Low-Ti Mare Magmatism and Mantle Sources: A Perspective from Lunar Meteorites NWA 4734, NWA 032, and LAP 02205</i> [#2648]
179	Fagan A. L. Neal C. R.	<i>Apollo 11-Type Basalts from Apollo 16: A New Type of High-Ti Basalt?</i> [#1429]
180	Donohue P. H. Neal C. R.	<i>Crystal Stratigraphy of Olivine Cumulate 71597: Tracing the Crystallization History of a High-Ti Basalt Lava Flow</i> [#2077]
181	Morisset C.-E. Jackson S. Williamson M.-C. Hipkin H. J.	<i>Trace Element Concentrations of Ilmenite in Samples Selected from the Six Apollo Landed Missions</i> [#2018]
182	Macke R. J. Kiefer W. S. Britt D. T. Irving A. J. Consolmagno G. J.	<i>Density and Porosity of Apollo Lunar Basalts and Breccias</i> [#1299]
183	Barker D. C. Snow J. E.	<i>Phenocryst Growth and Compositional Inhomogeneity of Apollo 17 Glass Spherules</i> [#2926]
184	Cronberger K. Neal C. R.	<i>The Textural Pristinity of KREEP Basalts: The Role of Impact Melting and Volcanic Eruptions</i> [#2203]
185	Simmons S T. Lapen T J.	<i>Trace Element Geochemistry of Apollo Sample 78236: Possible Connections with Other Mg-Suite Norites</i> [#2622]
186	Seddio S. M. Korotev R. L. Jolliff B. L.	<i>Two Appollo 12 Granit Rock Fragments: Evidence for the Pniximal Coexistence of High-Th Impact Melt Breccia and Granite</i> [#1006]
187	Wong U. H. Wu Y. Z.	<i>A Monte Carlo Ray Tracing Model for Lunar Soil and Its Applications to Chang'e-1 Topography Data and LSCC Data Set</i> [#1222]
188	Serventi G. Carli C. Sgavetti M. Pompilio L.	<i>Effects of Plagioclase Chemistry and Modal Abundance on Spectral Properties of Multiminerall Fe,Mg Mixtures</i> [#1404]
189	Hiroi T. Kaiden H. Misawa K. Kojima H. Uemoto K. Ohtake M. Arai T. Sasaki S. Takeda H. Nyquist L. E. Shih C.-Y.	<i>Diversity in the Visible-NIR Absorption Band Characteristics of Lunar and Asteroidal Plagioclase</i> [#1168]

POSTER LOCATION NUMBER	AUTHORS	TITLE/ABSTRACT NUMBER
190	Mall U. Korokhin V. Bugiolacchi R. Shkuratov Y.	<i>Towards a Quantitative Determination of the Modal Mineralogy of Planetary Surfaces Using Near-Infrared Spectroscopic Data from the Moon</i> [#1893]
191	Cavanagh P. D. Li. L.	<i>Band Selection Method Applied to Moon Mineralogy Mapper (M³)</i> [#2742]
192	Thomas I. R. Bowles N. E. Warren T. Greenhagen B. T. Donaldson Hanna K. L. Paige D. A.	<i>Thermal Infrared Emission and Goniometric Laboratory Measurements</i> [#2637]
193	Donaldson Hanna K. L. Pieters C. M. Patterson W. R. III Hiroi T. Moriarty D. Wyatt M. B. Thompson C.	<i>Asteroid and Lunar Environment Chamber (ALEC): Simulated Asteroid and Lunar Environments for Measuring Analog Materials</i> [#2241]
194	Crites S. Lucey P. G.	<i>Characterization of Lunar Soils Using Infrared Microscopic Hyperspectral Imaging</i> [#1653]
195	Taylor G. J. Martel L. M. V. Lucey P. G. Crites S. Blake D. F.	<i>Modal Analyses of Apollo 16 Soils by X-Ray Diffraction</i> [#2316]
196	Retherford K. D. Davis M. W. Winters G. S. Patrick E. L. Escobedo S. M. Nagengast M. E. Gladstone G. R. Miles P. F. Parker J. Wm. Stern S. A. Hendrix A. R.	<i>Lunar Ultraviolet Reflectance Experiment (LURE): Far-UV Signatures of Water Ice</i> [#2190]
197	Yokota Y. Gwinner K. Oberst J. Haruyama J. Matsunaga T. Morota T. Noda H. Araki H. Ohtake M. Yamamoto S.	<i>Lunar Surface Roughness at Baseline 0.15–100 km and the Impact History of the Highlands</i> [#2843]
198	Jozwiak L. M. Head J. W. III Neumann G. A. Zuber M. T. Smith D. E.	<i>Lunar Floor-Fractured Craters: Classification, Distribution, and Implications for Magmatism and Shallow Crustal Structure</i> [#1512]
199	Frey H. V. Meyer H. M. Romine G. C.	<i>Improving the Inventory of Large Lunar Basins: Using LOLA Data to Test Previous Candidates and Search for New Ones</i> [#1848]
200	Ishihara Y. Morota T. Saruwatari Y. Sawada A. Hiramatsu Y.	<i>A Determination of Characteristics of Impact Basins from “Kaguya” Geodetic Data</i> [#1723]
201	Kinoshita T. Honda C. Hirata N. Morota T. Demura H. Asada N.	<i>Evaluation of Spatial Distribution of Craters on Lunar Surface for Detection of Secondary Craters</i> [#1829]
202	Thomson B. J. Bussey D. B. J. Cahill J. T. S. Neish C. D. Kirk R. Patterson G. W. Raney R. K. Spudis P. D.	<i>Excess Numbers of Enhanced CPR Craters in the Lunar Polar Regions</i> [#2104]
203	Martin-Wells K. S. Campbell D. B. Campbell B. A. Carter L. M.	<i>The Relationship Between Debris Flow and Enhanced Radar Circular Polarization Ratio Values in Lunar Secondary Crater Clusters</i> [#2272]
204	Kramer G. Y. Ohman T. Nahm A. L. McGovern P. J.	<i>Pre- and Post-Impact Influences on Schrödinger Basin’s Structural Geology</i> [#1734]
205	Xiao Z. Strom R. G. Chapman C. R. Head J. W.	<i>New Comparisons Between Fresh Impact Craters on Mercury and the Moon</i> [#2130]
206	Miura Yas.	<i>Formation of Moon-Type Rocks by Multiple Impacts with Porous, Crystals and Glassy Soils</i> [#1203]
207	Basilevsky A. T. Abdrakhimov A. M. Ivanov M. A. Zabalueva E. V. Karachevtseva I. P. Shingareva K. B. Gusakova E. N. Oberst J. Waehlich M. Robinson M.	<i>Identification and Measurements of Small Impact Craters in the Lunokhod 1 Study Area, Mare Imbrium</i> [#1481]
208	Herrick R. R.	<i>Antoniadi is an Unusual Lunar Protobasin</i> [#2409]
209	Petro N. E.	<i>Formation of South Pole-Aitken Basin as the Result of an Oblique Impact: Implications for Melt Volume and Source of Exposed Materials</i> [#2656]
210	Dhingra D. Pieters C. M. Head J. W. Isaacson P. J.	<i>Large Flow Feature at Copernicus Crater — Implications for Impact Melt Evolution and Emplacement Chronology</i> [#2339]

POSTER LOCATION NUMBER	AUTHORS	TITLE/ABSTRACT NUMBER
211	Robbins S. J. Antonenko I. Gay P. L. Lehan C. Moore J.	<i>Cataloging the Moon with the CosmoQuest Moon Mappers Citizen Science Project</i> [#2856]
212	Runyon C. J. Hall C. Joyner E. Daou D. Hurd D. Boyce K. Garver K.	<i>Generating STEAM with Engaging Lunar Exploration Education/Public Outreach Activities</i> [#1944]
213	Hsu B. C. Bleacher L. V. Daou D. Day B. Jones A. Mitchell B. Shaner A. Shipp S.	<i>Reaching an International Audience with Lunar Science Through International Observe the Moon Night</i> [#2021]
214	LaConte K. Shupla C. Barr A. Shipp S. Bottke W. F.	<i>Public Engagement in the Science of NLSI's Center for Lunar Origin and Evolution (CLOE)</i> [#2874]
215	Shaner A. J. Shupla C. Shipp S. Halligan E. Allen J. Kring D. A. LaConte K.	<i>Bringing You the Moon: Lunar Education Efforts of the Center for Lunar Science and Education</i> [#2603]
216	Landis M. E. Barlow N. G.	<i>Analysis of Impact Craters in the 0–20N, 0–30E Region of Arabia Terra, Mars and Implications for Volatiles</i> [#1255]
217	Malinski P. T. Brusnahan H. Milam K. A.	<i>A Morphometric Analysis of Martian Impact Craters 21–30 km in Diameter</i> [#2848]
218	Garner K. M. L. Barlow N. G.	<i>Distribution of Rimmed, Partially Rimmed, and Non-Rimmed Central Floor Pits on Mars</i> [#1256]
219	Bamberg M. Jaumann R. Asche H.	<i>Floor Fractured Craters Around Syrtis Major, Mars</i> [#1833]
220	Tewelde Y. Zuber M. T.	<i>Determining the Fill of the Ghost Craters of Mars' Lowlands</i> [#2475]
221	Brusnahan H. M. Milam K. A.	<i>How do the Relationships Between Crater Landforms Change over Time on a Geologically Dynamic Planet?</i> [#2811]
222	Williams J.-P. Pathare A. V.	<i>Scaling Effective Diameters of Small Impact Crater Clusters on Mars</i> [#2881]
223	Daubar I. J. McEwen A. S. Byrne S. Kennedy M. R.	<i>Seasonal Variation in Current Martian Impact Rate</i> [#2740]
224	Audouard J. Poulet F. Vincendon M. Bibring J.-P. Gondet B. Langevin Y.	<i>Remote Sensing of the Thermophysical Properties of the Martian Surface with Visible and Near-Infrared Orbital Measurements</i> [#2125]
225	Bandfield J. L. Edwards C. S. Brand B. D. Montgomery D. R.	<i>The Physical Nature of the Upper Martian Crust</i> [#1483]
226	Jasiewicz J. Stepinski T. F.	<i>Global Geomorphometric Map of Mars</i> [#1347]
227	Coles K. S. Tanaka K. L. Christensen P. R. Dohm J. M. Fortezzo C. M. Skinner J. A. Jr. Hare T. M. Blue J. S.	<i>A New Atlas of Mars</i> [#2530]
228	Crown D. A. Berman D. C.	<i>Geologic Mapping of MTM -35137 Quadrangle: Daedalia Planum Region of Mars</i> [#2055]
229	Crown D. A. Ramsey M. S. Berman D. C.	<i>Morphologic and Chronologic Studies of Lava Flow Fields in the Southern Tharsis Region of Mars</i> [#2138]
230	Mouginis-Mark P. J.	<i>A New 1:200,000-Scale Geologic Map of Tooting Crater, Mars</i> [#1562]
231	Tanaka K. L. Dohm J. M. Fortezzo C. M. Irwin R. P. Kolb E. J. Skinner J. A. Jr. Hare T. M. Platz T. Michael G. Robbins S.	<i>The Geology of Mars: What the New Global Map Shows</i> [#2702]
232	Tanaka K. L. Rodriguez J. A. P. Fortezzo C. M. Platz T. Michael G. Robbins S.	<i>Geologic History of Valles Marineris, Mars, Revisited</i> [#2821]
233	Ismailos C. Fueten F. Stesky R. Flahaut J. Rossi A. Hauber E.	<i>Layer Thickness Determination of the Interior Layered Deposit within Ganges Chasma, Mars</i> [#1533]
234	Guallini L. Gilmore M. S. Marinangeli L.	<i>Geologic and Geomorphologic Map of Iani Chaos (Mars)</i> [#1410]
235	Stoddard Crile M. B. Howard D. A.	<i>Geographic Survey of Martian Chaotic Terrain</i> [#2340]

POSTER LOCATION NUMBER	AUTHORS	TITLE/ABSTRACT NUMBER
236	Platz T. Michael G. G. Skinner J. A. Tanaka K. L. Kneissl T. Fortezzo C. M.	<i>Absolute Age Determinations for Regional Geologic Units: A Case Study of the Middle Noachian Unit in the Arabia-Sabaea-Noachis Terrae Region, Mars</i> [#2686]
237	Dohm J. M. Robbins S. J. Hynek B. M.	<i>Recent Geological and Hydrological Activity in Amazonis and Elysium Basins and Their Link, Marte Valles (AME): Prime Target for Future Reconnaissance</i> [#1948]
238	Golder K. B. Gilmore M. S.	<i>Geomorphological Mapping of Eastern Eridania Basin and Associated Subbasins, Mars</i> [#2661]
239	Signorella J. D. de Wet A. P. Bleacher J. E. Collins A. Schierl Z. P. Schwans B.	<i>Volcanic or Fluvial Channels on Ascræus Mons: Focus on the Source Area of Sinuous Channels on the Southeast Rift Apron</i> [#2773]
240	Kostama V. -P. Ivanov M. A. Rauhala A. I. Törmänen T. Kortenienmi J. Raitala J.	<i>Martian Volcanic and Sedimentary Layer Study: Morphologic and Morphometric Criteria for Different Origins</i> [#1843]
241	Voelker M. Platz T. Tanaka K. L. Fortezzo C. M. Ferguson R. L. Hare T. M.	<i>Geological Mapping of Havel Vallis, Xanthe Terra, Mars: Stratigraphy and Reconstruction of Valley Formation</i> [#2738]
242	Bleamaster L. F. III Chuang F. C. Crown D. A.	<i>Geologic Mapping of Locations Formerly Known as MSL Landing Sites: Nili Fossae and Mawrth Vallis, Mars</i> [#1478]
243	Kortenienmi J. Kukkonen S. Kostama V.-P.	<i>Morphology and Ages of Units on the Floor of Dao Vallis Head, Mars: Preliminary Results</i> [#2034]
244	Zimbelman J. R. Scheidt S. P.	<i>Crater Retention Ages Indicate a Hesperian Age for Western and Central Portions of the Medusae Fossae Formation, Mars</i> [#2052]
245	Capitan R. D. Osinski G. R. Van De Wiel M. J. Kerrigan M. Barry N. Blain S.	<i>Mapping Utopia Planitia: Morphometric and Geomorphologic Mapping at a Regional Scale</i> [#2237]
246	Dohm J. M. Kargel J. S.	<i>Geologic Mapping Investigation of the Argyre and Surrounding Regions of Mars</i> [#2468]
247	El Maarry M. R. Thomas N. Pommerol A.	<i>Banded Terrain and Associated Geology at the NW of Hellas Basin, Mars</i> [#2653]
248	Fortezzo C. M. Skinner J. A. Jr.	<i>Geologic Evolution of the Runanga-Jorn Basin, Northeast Hellas, Mars</i> [#2681]
249	Raack J. Reiss D. Hiesinger H.	<i>Gullies and Their Relationships to the Dust-Ice Mantle in the Northwestern Argyre Basin, Mars</i> [#1798]
250	Capitan R. D. Osinski G. R. Van De Wiel M. J. Kerrigan M. Barry N. Blain S.	<i>Distribution of Gullies in Utopia Planitia, Mars</i> [#2240]
251	Conway S. J. Mangold N. Balme M. R. Ansan V.	<i>Comparison of the Morphology of Crater-Slopes with Gullies to those Without Gullies</i> [#2281]
252	Schaefer E. I. McEwen A. S. Ojha L. Mattson S. S.	<i>Comprehensive Survey of Recurring Slope Lineae in Tivat Crater, Mars</i> [#2558]
253	Jodlowski P. Platz T. Michael G. G.	<i>Preliminary Eruption History of the Syrtis Major Volcanic Province, Mars</i> [#2494]
254	Harrison T. N.	<i>Evidence for Volcanism in and Near the Chaotic Terrains East of Valles Marineris, Mars</i> [#1057]
255	Richardson J. A. Bleacher J. E. Connor C. B. Connor L. J.	<i>Using Spatial Density to Characterize Volcanic Fields on Mars</i> [#2314]
256	Schierl Z. P. Spencer P. Signorella J. Collins A. Schwans B. de Wet A. P. Bleacher J. E.	<i>Origin of Sinuous Channels on the SW Apron of Ascræus Mons and the Surrounding Plains, Mars</i> [#1602]
257	Collins A. de Wet A. P. Bleacher J. E. Schierl Z. Schwans B. Signorella J. Judge S.	<i>A Comparison and Analog-Based Analysis of Sinuous Channels on the Rift Aprons of Ascræus Mons and Pavonis Mons Volcanoes, Mars</i> [#1686]

POSTER LOCATION NUMBER	AUTHORS	TITLE/ABSTRACT NUMBER
258	Bleacher J. E. Williams D. A. Shean D. Greeley R.	<i>Geologic Mapping of the Olympus Mons Volcano, Mars</i> [#2186]
259	Michalski J. R. Wright S. P. Bleacher J. E.	<i>Discovery of a Possible Large Caldera in Northwestern Arabia Terra: Implications for Recognizing Ancient Volcanic Source Regions on Mars</i> [#1392]
260	Williams D. A. Garry W. B. Bleacher J. E. Shean D. Greeley R.	<i>Geologic Mapping of Arsia and Pavonis Montes</i> [#1528]
261	Simon M. N. Carter L. M. Campbell B. A. Phillips R. J. Mattei S.	<i>Studies of Lava Flows in Mars' Tharsis Region Using SHARAD Radar</i> [#1595]
262	Lehmann T. R. Platz T. Michael G. G.	<i>Ages of Lava Flows in the Hesperia Volcanic Province, Mars</i> [#2526]
263	Dundas C. M. Keszthelyi L. P.	<i>Modeling of Steam Pressure Under Martian Lava Flows</i> [#2554]
264	Ramsey M. S. Crown D. A. Price M. A.	<i>Decoupling Lava Flow Composition and Emplacement Processes from Eolian Mantling Deposits Using Thermal Infrared Data</i> [#2013]
265	Keszthelyi L. P.	<i>Revisiting Simple Models Relating Lava Flow Dimensions, Emplacement, and Rheology</i> [#2567]
266	Graff M. A. Zimbelman J. R.	<i>A Search for Inflated Lava Flows on Mars</i> [#1144]
267	Diniega S. Sigelmann L. Sangha S. Smrekar S. E.	<i>Identification and Survey of Martian Lava Inflationary Features</i> [#2537]
268	Zimbelman J. R. Garry W. B. Bleacher J. E. Crumpler L. S.	<i>Terraced Margins on the Inflated McCarty's Basalt Lava Flow, New Mexico: Constraints on Emplacement Mechanisms</i> [#1831]
269	Diniega S. Smrekar S. E. Anderson S. Stofan E.	<i>Lava Flow Dynamics Driven by Temperature-Dependent Viscosity Variations</i> [#2556]
270	Ryan A. J. Christensen P. R.	<i>Lava Coils and Drifting Patterned Ground in Cerberus Palus, Mars</i> [#2552]
271	Milazzo M. P. Weiss D. K. Jackson B. Barnes J.	<i>Columnar Jointing on Mars: Earth Analog Studies</i> [#2726]
272	Weiss D. K. Jackson B. Milazzo M. P. Barnes J. W.	<i>A New Look at Cooling Models for Martian Flood Basalt Columns</i> [#1150]
273	Mège D. Purcell P. G. Jourdan F.	<i>Dikes and Linear Troughs: New Observations on the Somali Plate</i> [#1317]
274	Manfredi L. Greeley R.	<i>Origin of Ridges Seen in Tempe Terra, Mars</i> [#2599]
275	Wyrick D. Y. Watson-Morris M. J. Morris A. P.	<i>Physical Analog Modeling of Martian Dike-Induced Deformation</i> [#2396]
276	Pendleton M. W. Hansen L. N. Zimmerman M. E. Kohlstedt D. L.	<i>Anisotropic Viscosity of Olivine-Chromite-MORB Aggregates</i> [#2036]
277	Tielke J. A. Zimmerman M. E. Kohlstedt D. L.	<i>The Influence of Hydrogen Content on the Viscosity of Olivine Single Crystals Under Lithospheric Conditions</i> [#2616]
278	Schulson E. M. Fortt A. L.	<i>Friction of Ice</i> [#1502]
279	Walker C. C. Bassis J. N.	<i>Mechanical Failure of the Icy Moons: Modeling Planetary Ice with Discrete Ice Sheet Fracture Models</i> [#2928]
280	Soderlund K. M. Schmidt B. E. Blankenship D. D.	<i>Convective Heat Transfer in Europa's Ocean and the Formation of Chaos Terrain</i> [#2903]
281	Tyler R.	<i>Estimates of the Dissipative Heat Generated by Oceans on Icy Satellites in the Outer Solar System</i> [#2701]
282	Sekhar P. King S. D.	<i>Non-Newtonian Convection Modeling and the Possibility of Present Day Internal Activity on Ceres?</i> [#2017]
283	Sterenberg M. G. Crowley J. W.	<i>Thermal Evolution of Early Solar System and the Possibility of Sustained Dynamos</i> [#2361]
284	Shebalin J. V.	<i>Magnetic Helicity and Planetary Dynamos</i> [#1147]
285	Williams J.-P.	<i>Stagnant Lid Heterogeneity on Mars</i> [#2847]

POSTER LOCATION NUMBER	AUTHORS	TITLE/ABSTRACT NUMBER
286	Jiang W. Roberts J. H. Kuang W.	<i>Effects of Basin-Forming Impacts on the Historical Martian Dynamo</i> [#1561]
287	Boutin D. Arkani-Hamed J.	<i>Low-Magnetic Early Noachian Crust of Mars</i> [#1667]
288	Langlais B. Thébaud E. Ostanciaux E. Mangold N.	<i>A Late Martian Dynamo Cessation Time 3.77 Gy Ago</i> [#1231]
289	Yin A.	<i>High Mantle Viscosity Controls the Enormous Size of Martian Volcanoes: A Hypothesis Based on Inferences from Rayleigh-Taylor Instability Theory</i> [#1309]
290	Anderson R. C. Dohm J. M. Robbins S. Hynek B. Andrews-Hanna J.	<i>Terra Sirenum: Window into Pre-Tharsis and Tharsis Phases of Mars Evolution</i> [#2803]
291	Karasozen E. Andrews-Hanna J. C. Dohm J. M. Anderson R. C.	<i>The Formation Mechanism of the South Tharsis Ridge Belt, Mars</i> [#2592]
292	Kromuszczyńska O. Mège D. Lucas A. Gurgurewicz J.	<i>Giant Sackung in Valles Marineris</i> [#1161]
293	Zhang Y. X.	<i>Is Valles Marineris a Spreading Basin Due to a Divergent Plate Boundary?</i> [#1346]
294	Watkins J. Yin A.	<i>Spatial and Temporal Relationships of Landslides in Valles Marineris, Mars: Constraints on Their Triggering Mechanisms</i> [#1719]
295	Akers C. Schedl A. D. Mundy L.	<i>What Caused the Landslides in Valles Marineris, Mars?</i> [#1932]
296	Hooper D. M. Smart K. J.	<i>Morphometric Analysis of a Subset of Landslides in Valles Marineris, Mars</i> [#2323]
297	Weller M. B. McGovern P. J. Fournier T. Morgan J. K. Katz O.	<i>Eastern Olympus Mons Basal Scarp: A Landslide Story?</i> [#1565]
298	Okubo C. H.	<i>Discovery of Deformation Band Damage Zones on Mars</i> [#1077]
299	Clark J. D. Hurtado J. M. Jr.	<i>Characterization of Thrust Fault on the Moon Using Thermoelastic Stress Calculations and 3D Visualizations</i> [#2895]
300	Williams N. R. Bell J. F. III Watters T. R. Banks M. E. Robinson M. S.	<i>Tectonic Mapping of Mare Frigoris Using Lunar Reconnaissance Orbiter Camera Images</i> [#2708]
301	Teanby N. A. Wookey J.	<i>Meteor Impacts as a Seismic Source on Mars</i> [#1492]
302	Stark A. Oberst J. Preusker F. Gwinner K. Peale S. J. Margot J.-L. Zuber M. T. Solomon S. C.	<i>In-Situ Measurement of Mercury's Physical Librations Using Image and Laser Altimeter Data from MESSENGER: General Approach and Sensitivity Analysis</i> [#1389]
303	Van Hoolst T. Rivoldini A. Baland R.-M. Yseboodt M.	<i>The Effect of Tides and an Inner Core on the Forced 88 day Libration of Mercury</i> [#2082]
304	Rivoldini A. Van Hoolst T.	<i>Constraint on Mercury's Core Size and Composition</i> [#2234]
305	Gross C. Wendt L. Combe J.-Ph. Jodlowski P. Marzo G. A. Roush T. L. McCord T. Halbach P. Neukum G.	<i>Investigating the Phyllosilicate Bearing Micoud Crater in the Northern Plains of Mars</i> [#1795]
306	Gross C. Sowe M. Wendt L. Bishop J. L. Fairén A. G.	<i>Phyllosilicates in Bamberg Crater, Mars</i> [#2356]
307	Wendt L. Bishop J. L. Neukum G.	<i>Knob Fields in the Terra Cimmeria/Terra Sirenum Region of Mars: Stratigraphy, Mineralogy, Morphology</i> [#2024]
308	Bishop J. L. Tirsch D. Tornabene L. L. McGuire P. C. Ody A. Poulet F. Hash C. Mustard J. F. Jaumann R. Murchie S. L.	<i>Fe/Mg-Smectite, Carbonate and Al-Smectite in Ancient Aqueous Outcrops at Libya Montes and Their Association with Fluvial Features and Mafic Rocks</i> [#2330]
309	Crumpler L. S.	<i>Mars Landing Sites in Phyllosilicate, Carbonate, and Ancient Wet Noachian Terrains of Bibya Montes</i> [#1261]

POSTER LOCATION NUMBER	AUTHORS	TITLE/ABSTRACT NUMBER
310	Greenberger R. N. Mustard J. F. Kumar P. S. Dyar M. D. Speicher E. A. Skulte E. C.	<i>Mineral Assemblages of Deccan Basalts and Al-Phyllosilicate Deposits on Mars: Implications for Leaching Processes on Mars</i> [#1907]
311	Farrand W. H. Rice J. W. Jr.	<i>South of Mawrth Vallis: A Potential Future Landing Site with Extensive Exposures of the Mawrth Vallis Stratigraphy</i> [#1965]
312	Stein A. J. Bushick K. M. Oliver A. R.	<i>Utilization of Sulfates and Hydroxide Minerals as a Determinant of the Acidity of Water on Mars</i> [#1345]
313	Murchie S. L. Johnson J. R. Seelos F. P.	<i>MRO/CRISM Observations of Interior Layered Deposits of Tithonium Chasma, Mars</i> [#1553]
314	Weitz C. M. Williams R. M. E. Noe Dobrea E. Baldrige A.	<i>Hydrated Minerals and Fluvial Features In and Around the Melas Chasma Basin</i> [#2304]
315	Liu Y. Arvidson R. E. Li R. Wang W.	<i>Hydrated Minerals Associated with Interior Layered Deposits Near the Southern Wall of Melas Chasma, Valles Marineris, Mars</i> [#2572]
316	Ackiss S. E. Wray J. J.	<i>Hydrated Sulfates in the Southern High Latitudes of Mars</i> [#2434]
317	Amador E. S. Bandfield J. L.	<i>Elevated Bulk Silica Compositions Associated with Olivine Rich Basalts in Nili Fossae, Mars</i> [#2508]
318	Horgan B. Bell J. F. III	<i>Widespread Weathered Glass on the Surface of Mars</i> [#1622]
319	Ody A. Poulet F. Langevin Y. Bibring J.-P. Gondet B. Loizeau D.	<i>Evidence for Analogue Mineralogical Site at Mars to the Los Angeles Basaltic Shergottite</i> [#2350]
320	Stephen N. R. Benedix G. K. Genge M.	<i>The Effect of Composition and Zoning on Infra-Red Spectra of the Martian Silicate Minerals</i> [#2199]
321	Irving A. J. Kuehner S. M. Chen G. Herd C. D. K. Tanaka R. Lapen T. J.	<i>Petrologic, Elemental and Isotopic Characterization of Two Unusual Martian Meteorites: Depleted Permafic Microgabbroic Shergottite Northwest Africa 7032 and Intermediate Permafic Intersertal Shergottite Northwest Africa 7042</i> [#2496]
322	Wilson N. V. Agee C. B. Sharp Z. D.	<i>New Martian Shergottite NWA 6963</i> [#1696]
323	Alpert S. P. Harvey R. P. Karner J. M. Hull D. R.	<i>Pairing in Martian Meteorites RBT 04261 and RBT 04262: Olivine's Story</i> [#2673]
324	Righter K. Keller L. P. Rahman Z. Christoffersen R.	<i>Exsolution of Iron-Titanium Oxides in Magnetite in Miller Range (MIL) 03346 Nakhilite: Evidence for Post Crystallization Reduction in the Nakhilite Cumulate Pile</i> [#2417]
325	Danielson L. Righter K. Pando K. Morris R. V. Graff T. Agresti D. Martin A. Sutton S. Newville M. Lanzirotti A.	<i>Unusual Iron Redox Systematics of Martian Magmas</i> [#2419]
326	O'Sullivan K. M. Neal C. R. Simonetti A.	<i>A New Petrogenetic Model for the Shergotty Meteorite</i> [#2307]
327	Aaron P. M. Shearer C. K. Jr. Burger P. V.	<i>Ghost in the Crystal: Reconstructing the Petrogenic History of Olivine Megacrysts in Martian Basalts Using Phosphorous Zoning</i> [#1059]
328	Burger P. V. Shearer C. K. Jr. Papike J. J. McCubbin F. M.	<i>Crystal Chemistry of Merrillite in Martian Basalts and Its Significance to Interpreting Basalt Petrogenesis</i> [#1178]
329	Vander Kaaden K. E. McCubbin F. M. Whitson E. S. Hauri E. H. Wang J.	<i>Partitioning of F, Cl, and H₂O Between Apatite and a Synthetic Shergottite Liquid (QUE 94201) at 1.0 GPa and 990°–1000°C</i> [#1247]
330	Schaub D. R. Stanley B. D. Hirschmann M. M.	<i>Experimental Investigation of CO₂ Solubility in Primitive Martian Basalts Similar to Yamato 980459 and Implications for Martian Atmospheric Evolution</i> [#2265]
331	Nekvasil H. Ustunusik G. Lindsley D. H.	<i>Degassing of Volatile-Bearing Martian Magma into a CO₂-Rich Atmosphere</i> [#2640]

POSTER LOCATION NUMBER	AUTHORS	TITLE/ABSTRACT NUMBER
332	Rapp J. F. Draper D. S. Mercer C.	<i>Crystallization of Yamato 980459 at 0.5 GPa: Are Residual Liquids like QUE 94201</i> [#2108]
333	Collinet M. Médard E. Devouard B. Peslier A.	<i>Constraints on the Parental Melts of Enriched Shergottites from Image Analysis and High Pressure Experiments</i> [#2269]
334	Barnett R. G. Jones J. H. Draper D. S. Le L.	<i>An Experimental Investigation of the Shergottite NWA 6162</i> [#1523]
335	Balta J. B. McSween H. Y. Jr.	<i>High Silica Contents in Martian Basalts and Its Relationship to Magmatic Water</i> [#1190]
336	Walton-Hauck E. L.	<i>The Occurrence of Ringwoodite in Shock Veins of the Elephant Moraine 79001 Martian Meteorite</i> [#1697]
337	Huber L. Irving A. J. Maden C. Wieler R.	<i>Noble Gas Cosmic Ray Exposure Ages of Four Unusual Martian Meteorites: Shergottites NWA 4797, NWA 5990, NWA 6342 and Nakhilite NWA 5790</i> [#1408]
338	Lindsay F. Turrin B. Herzog G. F. Swisher C. III Emge T.	<i>³⁹Ar/⁴⁰Ar Ages of Single Grains from Shergottite NWA 2626: Pushing the Limits of Laser Step-Heating</i> [#2836]
339	Rogers A. D. Bandfield J. L. Smith M. D. Christensen P. R.	<i>Maximizing Information Extraction from the Mars Global Surveyor Thermal Emission Spectrometer Data</i> [#1650]
340	Bell J. F. III Wolfe E. M. Horgan B. N. H. Joseph J. Araki S.	<i>Kilometer-Scale VIS-NIR Spectral Variations on Mars from Global Mapping and Analysis of Mars Express OMEGA Data</i> [#1739]
341	Schmidt F. Bourguignon S. Le Mouëlic S. Dobigeon N. Tréguier E.	<i>Constraining Martian Mineralogical Compositions Using Hyperspectral Images</i> [#1872]
342	Wiseman S. M. Arvidson R. E. Wolff M. J. Seelos F. P. Smith M. D. Humm D. Murchie S. L. Mustard J. F.	<i>Retrieval of Atmospherically Corrected CRISM Spectra Using Radiative Transfer Modeling</i> [#2146]
343	Glotch T. D. Arnold J. A. Wolff M. J. Lucey P. G.	<i>Exact Calculation of the Scattering Properties of Olivine in a Salt Matrix: Application to Mars and Trojan Asteroids</i> [#2652]
344	Sklute E. C. Glotch T. D. Dyar M. D.	<i>VNIR Optical Constant Determination of Synthetic Jarosites for Quantitative Abundance Analysis of Remote Sensing Datasets</i> [#1508]
345	Baldrige A. M. Bandfield J. L. Smith M. D.	<i>Effects of Dehydration on TIR Spectra of Chlorides and Implications for Mars</i> [#2250]
346	Maturilli A. Helbert J. Roush T. L. D'Amore M.	<i>Influence of Moisture Content on Albedo Changes of JSC-Mars1 Martian Simulant: A Lesson for HiRISE?</i> [#1406]
347	Jo I. Elam J. Pokuri K. Garcia V.	<i>Thermal Model Comparison of Fine Grain Sized Sediments with Respect to Moisture Content</i> [#1336]
348	Pokuri J. Kelley K. Brownstein N. Jowell A. Storch J.	<i>Thermal Modeling of Fine Gravel at Different Saturation Levels</i> [#1800]
349	Sharp T. G. Michalski J. R. Dyar M. D. Bish D. L. Friedlander L. R. Glotch T.	<i>Effects of Shock Metamorphism on Phyllosilicate Structures and Spectroscopy</i> [#2806]
350	Friedlander L. R. Glotch T. Michalski J. R. Sharp T. G. Dyar M. D. Bish D. L.	<i>Spectroscopic Studies of Nontronite After Impacts at Three Pressures</i> [#2520]
351	Rampe E. B. Lanza N. L.	<i>Application of Principal Component Analysis to NIR Spectra of Phyllosilicates: A Tool for Identifying Phyllosilicates on Mars</i> [#2570]
352	Mann J. P. Cloutis E. A. Rice M. S. Craig M. A. Berard G. M.	<i>Variations in Reflectance Spectra Associated with Exposure of Hydrated Minerals to Simulated Mars Surface Conditions</i> [#2351]
353	Hardgrove C. Rogers A. D.	<i>Thermal Infrared Spectra of Microcrystalline Sedimentary Phases: Effects of Natural Surface Roughness on Spectral Feature Shape</i> [#1675]

POSTER LOCATION NUMBER	AUTHORS	TITLE/ABSTRACT NUMBER
354	Mattson S. Russell P. Byrne S. Kirk R. L. Herkenhoff K. McEwen A. S.	<i>Production and Error Analysis of Polar Digital Terrain Models from HiRISE</i> [#2659]
355	Walter S. Kirk R. L. Stenzel O. J. McGuire P. C. Neukum G.	<i>HRSC Topographic Correction by Empirical Photometric Modeling</i> [#2322]
356	Poole W. Muller J-P. Gupta S.	<i>On the Calibration of MOLA Pulse-Width Surface Roughness Estimates Using High-Resolution DTMs</i> [#1854]
357	Pedrosa M. M. Silva E. A. Nogueira J. R.	<i>Impact Crater Detection on Mars from Digital Image</i> [#2004]
358	Jung J. H. Kim C. J. Heo J. Luo W.	<i>Estimating Volume of Martian Valleys Using Axelsson Algorithm</i> [#2205]
359	Katz J. Peterson C. M. Viswanathan A. Tedder R. E. Jowell A.	<i>Water Presence Detection Through Thermal Inertia Analysis in Coarse Sediment</i> [#2019]
360	Jowell A. Jowell A. Pokuri K.	<i>Thermal Modeling of Fine Gravel, Coarse Sand and Fine Sand Sediments with Varying Amounts of Saturated Layers</i> [#2672]
361	De Hon R. A.	<i>Significance of Maars on Mars: Terrestrial Analogs to Martian Monogenic Volcanism</i> [#1075]
362	Hooper D. M. Dinwiddie C. L. McGinnis R. N. Smart K. J. Roberts M. M.	<i>Observations of Debris Flows at the Great Kobuk Sand Dunes, Alaska: Implications for Analogous Features on Mars</i> [#2040]
363	Souness C. J. Abramov A.	<i>The Volcanic Terrains of Kamchatka, Eastern Russia: A Glacial and Periglacial Environment with Potential for Mars Analog-Based Research</i> [#1071]
364	Reiss D. Raack J. Maturilli A. Rossi A. P. Erkeling G.	<i>Dust Devil Tracks in the Turpan Depression Desert (China): Implications for their Formation on Mars</i> [#2227]
365	Saper L. M. Mustard J. F.	<i>Orientations and Morphology of Linear Ridges in Nili Fossae: Mineralized Fracture Zones and Implications for Crustal Fluid Transport</i> [#1119]

POSTER LOCATION NUMBER	AUTHORS	TITLE/ABSTRACT NUMBER
377	Luhmann J. G. Villarreal M. Ma Y. J. Russell C. T. Wei H. Y. Zhang T. L.	<i>The Venus Solar Wind Interaction — Is It Purely Ionospheric?</i> [#1521]
377	Luhmann J. G. Villarreal M. Ma Y. J. Russell C. T. Wei H. Y. Zhang T. L.	<i>The Venus Solar Wind Interaction - Is It Purely Ionospheric?</i> [#1521]
378	Russell C. T. Strangeway R. J. Leinweber H. Wei H. Y. Daniels J. T. M. Zhang T. L.	<i>Dispersion Measurements of Whistler Mode Signals Observed in the Venus Ionosphere with the Venus Express Magnetometer</i> [#1635]
378	Russell C. T. Strangeway R. J. Leinweber H. Wei H. Y. Daniels J. T. M. Zhang T. L.	<i>Dispersion Measurements of Whistler Mode Signals Observed in the Venus Ionosphere with the Venus Express Magnetometer</i> [#1635]
379	Markiewicz W. J. Petrova E. Shalygina O. Almeida M. Titov D. V. Limaye S. S. Ignatiev N.	<i>Venus Glory and the Unknown UV Absorber</i> [#2043]
379	Markiewicz W. J. Petrova E. Shalygina O. Almeida M. Titov D. V. Limaye S. S. Ignatiev N.	<i>Venus Glory and the Unknown UV Absorber</i> [#2043]
380	Gao P. Zhang X. Crisp D. Bardeen C. G. Yung Y. L.	<i>Bimodal Distribution of H₂SO₄ Aerosols in the Upper Atmosphere of Venus</i> [#2906]
380	Gao P. Zhang X. Crisp D. Bardeen C. G. Yung Y. L.	<i>Bimodal Distribution of H₂SO₄ Aerosols in the Upper Atmosphere of Venus</i> [#2906]
381	Limaye S. S. Krauss R. J. Rozoff C. Markiewicz W. J.	<i>New Insights into the Hemispheric Vortex Structure and the Cloud Level Circulation of Venus Observed by the Venus Monitoring Camera on Venus Express Orbiter</i> [#2720]
381	Limaye S. S. Krauss R. J. Rozoff C. Markiewicz W. J.	<i>New Insights into the Hemispheric Vortex Structure and the Cloud Level Circulation of Venus Observed by the Venus Monitoring Camera on Venus Express Orbiter</i> [#2720]
382	Mitchell K. L. Hensley S. Nunes D. C. Shaffer S. J. Deen R. Ansar A.	<i>Automated Stereogrammetry of Venus</i> [#2744]
382	Mitchell K. L. Hensley S. Nunes D. C. Shaffer S. J. Deen R. Ansar A.	<i>Automated Stereogrammetry of Venus</i> [#2744]
383	Shang K. Shum C. K. Fok H. S. Guo J. Y. Matsumoto K. Yi Y.	<i>Venus Topography and Potential k₂ Modeling Using Planet-Wide Differenced Altimeter Measurement</i> [#1973]
383	Shang K. Shum C. K. Fok H. S. Guo J. Y. Matsumoto K. Yi Y.	<i>Venus Topography and Potential k₂ Modeling Using Planet-Wide Differenced Altimeter Measurement</i> [#1973]
384	Murphy B. S. Metcalfe K. S. Ruiz G. Curtin L. G. Chestler S. R. Penido J. C. Muller J. K. Grosfils E. B.	<i>Magma Reservoir Rupture Beneath a Venusian Edifice: When Does Lithospheric Flexure Become Significant?</i> [#1060]
384	Murphy B. S. Metcalfe K. S. Ruiz G. Curtin L. G. Chestler S. R. Penido J. C. Muller J. K. Grosfils E. B.	<i>Magma Reservoir Rupture Beneath a Venusian Edifice: When Does Lithospheric Flexure Become Significant?</i> [#1060]
385	Galgana G. A. McGovern P. J. Grosfils E. B.	<i>The Formation of Giant Radiating Dike Systems on Venus: Insights from Elastoplastic Flexural Models</i> [#1662]
385	Galgana G. A. McGovern P. J. Grosfils E. B.	<i>The Formation of Giant Radiating Dike Systems on Venus: Insights from Elastoplastic Flexural Models</i> [#1662]
386	Matiella Novak M. A. Buczkowski D. L.	<i>Structural Mapping Around Irnini Mons, Venus</i> [#2070]
386	Matiella Novak M. A. Buczkowski D. L.	<i>Structural Mapping Around Irnini Mons, Venus</i> [#2070]
387	Shaw B. G. R. Bleamaster L. F. III	<i>Structural Mapping of Devana Chasma, Venus: Implications for Coronae/Chasmata Relations</i> [#2088]
387	Shaw B. G. R. Bleamaster L. F. III	<i>Structural Mapping of Devana Chasma, Venus: Implications for Coronae/Chasmata Relations</i> [#2088]

POSTER LOCATION NUMBER	AUTHORS	TITLE/ABSTRACT NUMBER
388	Lang N. P. Lopez I.	<i>Constraints of the Evolution of Three Venusian Coronae</i> [#1552]
388	Lang N. P. Lopez I.	<i>Constraints of the Evolution of Three Venusian Coronae</i> [#1552]
389	McGowan E. M. McGill G. E.	<i>Geologic Map of the Lachesis Tessera Quadrangle (V-18), Venus</i> [#1517]
389	McGowan E. M. McGill G. E.	<i>Geologic Map of the Lachesis Tessera Quadrangle (V-18), Venus</i> [#1517]
390	Pierce N. P. Lang N. P.	<i>Preliminary Geological Overview of the Mahuea Tholus Quadrangle (V49), Venus</i> [#1682]
390	Pierce N. P. Lang N. P.	<i>Preliminary Geological Overview of the Mahuea Tholus Quadrangle (V49), Venus</i> [#1682]
391	Guseva E. N. Basilevsky A. T. Head J. W.	<i>Photogeologic Mapping of the Thetis Regio Quadrangle (V-36), Venus</i> [#1384]
391	Guseva E. N. Basilevsky A. T. Head J. W.	<i>Photogeologic Mapping of the Thetis Regio Quadrangle (V-36), Venus</i> [#1384]
393	Jia Y.-D. Russell C. T. Khurana K. K. Gombosi T. I.	<i>Constraining Seasonal Changes of the Enceladus Plume</i> [#2620]
393	Jia Y.-D. Russell C. T. Khurana K. K. Gombosi T. I.	<i>Constraining Seasonal Changes of the Enceladus Plume</i> [#2620]
394	Martin E. S. Kattenhorn S. A.	<i>Crater Induced Fracture Reorientation on Enceladus</i> [#2883]
394	Martin E. S. Kattenhorn S. A.	<i>Crater Induced Fracture Reorientation on Enceladus</i> [#2883]
395	Patthoff D. A. Kattenhorn S. A. Cooper C. M.	<i>Effects of Nonsynchronous Rotation Stresses on the South Polar Terrain of Enceladus</i> [#2527]
395	Patthoff D. A. Kattenhorn S. A. Cooper C. M.	<i>Effects of Nonsynchronous Rotation Stresses on the South Polar Terrain of Enceladus</i> [#2527]
396	Miller M. S. Martin E. S. Patthoff D. A. Kattenhorn S. A.	<i>Pit Chains on Enceladus: An Experimental Test of the Impact of Fault Geometry on Pit Chain Growth</i> [#2925]
396	Miller M. S. Martin E. S. Patthoff D. A. Kattenhorn S. A.	<i>Pit Chains on Enceladus: An Experimental Test of the Impact of Fault Geometry on Pit Chain Growth</i> [#2925]
397	Travis B. J. Schubert G.	<i>Hydrothermal Flow Within Enceladus</i> [#2695]
397	Travis B. J. Schubert G.	<i>Hydrothermal Flow Within Enceladus</i> [#2695]
398	Wood C. A. Radebaugh J.	<i>Trouble on Titan — Speculative Interpretation of How It Works as a World</i> [#1628]
398	Wood C. A. Radebaugh J.	<i>Trouble on Titan - Speculative Interpretation of How It Works as a World</i> [#1628]
399	Liu Z. Y. C. Radebaugh J. Harris R. Christiansen E. H. Kirk R. L. Neish C. D. Lorenz R. D. Stofan E. R. Cassini Radar Team	<i>Evidence for an Endogenic Origin of Mountains on Titan</i> [#2378]
399	Liu Z. Y. C. Radebaugh J. Harris R. Christiansen E. H. Kirk R. L. Neish C. D. Lorenz R. D. Stofan E. R. Cassini Radar Team	<i>Evidence for an Endogenic Origin of Mountains on Titan</i> [#2378]
400	Cook C. Barnes J. W. Radebaugh J. Hurford T. Kattenhorn S. A.	<i>Global Patterns of Tectonism from Mountain Ranges to Virgae</i> [#2484]
400	Cook C. Barnes J. W. Radebaugh J. Hurford T. Kattenhorn S. A.	<i>Global Patterns of Tectonism from Mountain Ranges to Virgae</i> [#2484]
401	Mills N. T. Radebaugh J. Savage C. J. Le Gall A.	<i>Ongoing Measurements of Dune Width and Spacing on Titan Reveal Dune Field Properties</i> [#2812]
401	Mills N. T. Radebaugh J. Savage C. J. Le Gall A.	<i>Ongoing Measurements of Dune Width and Spacing on Titan Reveal Dune Field Properties</i> [#2812]

POSTER LOCATION NUMBER	AUTHORS	TITLE/ABSTRACT NUMBER
402	Arnold K. Radebaugh J. Le Gall A. Turtle E. P. Lorenz R. D. Cassini Radar Team	<i>Sand Volume Estimates on Titan from Cassini Radar and ISS: Fensal and Aztlan Sand Seas</i> [#2893]
403	Dalba P. A. Buratti B. J. Baines K. H. Barnes J. Brown R. H. Clark R. N. Nicholson P. D. Sotin C.	<i>The Rain in the Plain on Titan</i> [#1717]
404	Wasiak F. C. Androes D. Blackburn D. G. Chevrier V. F. Dixon J.	<i>Characterization of Ligeia Mare in the North Polar Region of Titan</i> [#1720]
405	Larson E. J. L. Sekine Y. Sugita S. Sasamori T. McKay C. P.	<i>Tholin Sensitivity to Atmospheric Methane Abundance and the Implications for Multiple Stable States of Titan's Climate System</i> [#1427]
406	Rodriguez S. Le Mouélic S. Barnes J. W. Hirtzig M. Rannou P. Sotin C. Brown R. H. Bow J. Vixie G. Cornet T. Bourgeois O. Narteau C. Courrech du Pont S. Griffith C. A. Jauman R. Stephan K. Buratti B. J. Clark R. N. Baines K. H. Nicholson P. D. Coustenis A.	<i>Singular Regional Brightening Events on Titan as Seen by Cassini/VIMS</i> [#1158]
407	Le Mouélic S. Cornet T. Rodriguez S. Sotin C. Barnes J. W. Brown R. H. Baines K. H. Buratti B. J. Clark R. N. Lefèvre A. Nicholson P. D.	<i>Investigating the Surface of Titan in the 1–2.8 μm Range with Cassini/VIMS Hyperspectral Images</i> [#1745]
408	Wasiak F. C. Luspay-Kuti A. Welivitiya W. D. D. P. Roe L. Chevrier V. F. Blackburn D. G. Cornet T.	<i>A Facility for Simulating Titan's Surface Environment</i> [#1374]
409	Blackburn D. G. Buratti B. J. Rivera-Valentin E. G.	<i>Exploring the Impact of Thermal Segregation on Dione Through a Bolometric Bond Albedo Map</i> [#1536]
410	Stephan K. Jaumann R. Wagner R. Clark R. N. Cruikshank D. P. Dalle Ore C. Brown R. H. Giese B. Roatsch T. Matson D. Baines K. Filacchione G. Capaccione F. Buratti B. J. Nicholson P. D.	<i>Spectral Properties of the Saturnian Satellites Tethys as Derived from Cassini-VIMS Data</i> [#2119]
411	West R. Mitchell K. Stiles B. Anderson Y. Le Gall A. Hayes A. Janssen M. Kirk R. Lopes R. Lorenz R. Wall S. Wye L. Zebker H.	<i>Observation Design and Early Results from Cassini Radar SAR Imaging of Enceladus</i> [#2602]
412	Hansen G. B. Romain J.	<i>Modeling of Layers of Micron Sized Water Ice Over Enceladus Surface to Fit the 1 to 5 Micron Spectra From the Cassini VIMS Instrument</i> [#2625]
413	Galuba G. G. Denk T. Neukum G.	<i>Dark Terrains on Iapetus: From the Local to the Global Perspective and Back</i> [#2153]
414	Rivera-Valentin E. G. Blackburn D. G. Ulrich R. K.	<i>On the Mass Balance at Iapetus' Poles: Exploring the Limiting Effects of the Dark Overburden</i> [#1033]
415	Rivera-Valentin E. G. Schenk P. White O. L.	<i>Small Diameter Crater Shapes and Geometry on Iapetus and Rhea</i> [#2042]
416	Reffet E. Ferrari C.	<i>Comparison of Cassini-CIRS Thermal Observations of Saturn's B Ring to a New Multi-Scale Heat Transfer Model</i> [#1979]
417	Tseng W.-L. Elrod M. K. Johnson R. E.	<i>Seasonal Variability of Saturn's Ring Atmosphere and Its Effects</i> [#1975]
418	Poppe A. R. Horanyi M.	<i>On the Edgeworth-Kuiper Belt Dust Flux to Saturn</i> [#1365]
419	Hibbitts C. A. Hagaman S. Greenspon A.	<i>The Adsorption of Gases onto Refractory Materials: CO₂ onto Clays and Their Relevance to the Icy Galilean Satellites</i> [#2400]
420	Hibbitts C. A. McAdam M. M. Greenspon A.	<i>The Effects of Vacuum Desiccation and Temperature on the Near-Infrared Spectra of Clays</i> [#1704]

POSTER LOCATION NUMBER	AUTHORS	TITLE/ABSTRACT NUMBER
421	Fortes A. D. Wood I. G. Tucker M. G. Marshall W. G.	<i>An Empirical Equation of State for Ice-VI with Application to Planetary Modelling and Impact Simulations</i> [#1061]
422	Maynard-Casely H. E. Brand H. E. A. Wallwork K. S.	<i>Sulfuric Acid Octahydrate Formation from a Water Rich Environment: A Powder Diffraction Study</i> [#1363]
423	Dougherty A. J. Avidon J. A. Hogenboom D. L. Kargel J. S.	<i>Eutectic Temperatures for Low and High Pressure Phases of Sodium Sulfate Hydrates with Applications to Europa</i> [#2321]
424	Bollengier O. Choukroun M. Grasset O. Le Menn E. Tobie G. Bellino G. Bezacier L. Morizet Y. Oancea A. Taffin C.	<i>The H₂O-CO₂ System up to 1.7 GPa: Implications for Large Icy Moons</i> [#2162]
425	Patterson G. W. Paranicas C. Prockter L. M.	<i>Characterizing Electron Bombardment of Europa's Surface by Location and Depth</i> [#2447]
426	Rathbun J. A. Spencer J. R. Howett C. J. A.	<i>Galileo PPR Observations of Europa: Correlations of Thermophysical Properties with Surface Features</i> [#2610]
427	Walker M. E. Mitchell J. L.	<i>A Model for the Elastic Libration of Europa's Ice Shell</i> [#1099]
428	Cameron M. E. Nahm A. L. Smith-Konter B. R. Pappalardo R. T.	<i>Tidally Driven Coulomb Failure Along Europa's Aenor Linea</i> [#1718]
429	Quick L. C. Marsh B. D.	<i>Dynamics of European Volcanism: Constraints from Heat Transfer and Phase Equilibria</i> [#2549]
430	Johnston S. A. Montési L. G.	<i>The Role of Dike Intrusions in Ridge Formation on Europa</i> [#2538]
431	Beddingfield C. B. Burr D. M. Emery J. P.	<i>Evidence for a Listric Extensional Fault System Bounding Arden Corona on Uranus' Moon Miranda</i> [#1366]
432	Gao P. Stevenson D. J.	<i>How Does Nonhydrostaticity Affect the Determination of Icy Satellites' Moment of Inertia?</i> [#1701]
433	Spencer J. R. Jessup K. L. Tsang C. C. C. Cunningham N. Retherford K.	<i>Evidence for Volcanic Support of Io's Jupiter-Facing Atmosphere from Constraints on Post-Eclipse Atmospheric Changes</i> [#2420]
434	Tsang C. C. C. Spencer J. R. Jessup K. L.	<i>Io's Atmosphere in 2010: Synergistic Observations of Longitudinal Distribution in the Near-Ultraviolet and the Mid-Infrared</i> [#2789]
435	Hamilton C. W. Beggan C. D. Still S. Beuthe M. Lopes R. M. C. Williams D. A. Radebaugh J. Wright W.	<i>Cluster Analysis of Volcanoes on Io: Implications for Tidal Heating and Magma Ascent</i> [#1041]
436	Nadezhdina I. Oberst J. Patraty V. Shishkina L. Zubarev A.	<i>New Control Point Network and Global Shape Estimates for Io</i> [#1039]
437	White O. L. Schenk P. M. Hoogenboom T.	<i>New Topographic Maps of Io Using Voyager and Galileo Stereo Imaging and Photoclinometry</i> [#2429]
438	Davies A. G. White O. L. Schenk P. Radebaugh J.	<i>Ionian Paterae Volumes and Slopes Derived from New Photoclinometry and Stereo Products</i> [#2112]
439	Veeder G. J. Davies A. G. Matson D. L. Johnson T. V. Williams D. A. Radebaugh J.	<i>Distribution of Io's Volcanic Thermal Emission from Galileo and Ground-Based Data</i> [#2085]
440	Bunte M. K. Lin Y. Saripalli S. Greeley R.	<i>Autonomous Detection of Transient Phenomena on Planetary Bodies</i> [#2180]
441	Cornet T. Bourgeois O. Le Mouélic S. Rodriguez S. Sotin C. Lefèvre A. Barnes J. W. Brown R. H. Baines K. H. Buratti B. J. Clark R. N. Nicholson P. D.	<i>Shaping Titan's Landscapes by Dissolution and Evaporation: The Case of Ontario Lacus, a High-Latitude Semi-Arid Karst-Playa Landsystem</i> [#1914]
442	Cornet T. Magar S. S. Luspay-Kuti A. Wasiak F. C. Chevrier V. F. Welivitiya W. D. D. P. Roe L. Bourgeois O. Le Mouélic S.	<i>Infrared Monitoring of Liquid/Solid Hydrocarbons Under Titan Simulated Conditions</i> [#1849]

POSTER LOCATION NUMBER	AUTHORS	TITLE/ABSTRACT NUMBER
443	Luspay-Kuti A. Wasiak F. C. Chevrier V. F. Welivitiya W. D. D. P. Roe L. A. Cornet T. Magar S. S.	<i>Liquid Hydrocarbon Evaporation Under Simulated Titan Conditions</i> [#2408]
444	Luspay-Kuti A. Wasiak F. C. Chevrier V. F. Magar S. S. Welivitiya W. D. D. P. Roe L. A. Cornet T.	<i>Experimental Simulations of Liquid Methane Evaporation Under Titan Surface Conditions</i> [#2287]
445	Malaska M. Radebaugh J. Barnes J. Mitchell K.	<i>Titan in a Fume Hood: Room-Temperature Simulation of a Titan Evaporite Playa Using a Multi-Component Mixture of Organic Compounds</i> [#2139]
446	Welivitiya W. D. D. P. Wasiak F. Tullis J. A. Blackburn D. G. Chevrier V. F.	<i>A Remote Sensing and GIS Approach for Change Detection on Titan's Lakes Using Cassini Orbiter's SAR Data</i> [#1678]
447	Vixie G. Barnes J. W. Jackson B. Wilson P.	<i>Temperate Lakes Discovered on Titan</i> [#2766]
448	Sharma P. Byrne S.	<i>Modeling of Titan's Surface Processes Constrained by Shoreline Fractal Analysis and Comparison with Terrestrial Analogs</i> [#1567]
449	Harrison K. P.	<i>Thermokarst Processes in Titan's Lakes: Comparison with Terrestrial Data</i> [#2271]
450	Magar S. S. Chevrier V. F. Ulrich R. Howe K. L.	<i>Numerical Modeling of Titan Fluvial Channels</i> [#2348]
451	Choukroun M. Sotin C.	<i>Is Titan's Shape Caused by its Meteorological and Carbon Cycle?</i> [#1760]
452	Parsons R. A. Moore J. M. Howard A. D.	<i>Hydrology of Hesperian/Amazonian-Aged Valleys in Newton Basin, Mars: How Much Water for How Long?</i> [#1728]
453	Head J. W. III	<i>Mars Planetary Hydrology: Was the Martian Hydrological Cycle and System Ever Globally Vertically Integrated?</i> [#2137]
454	Baker D. M. H. Head J. W.	<i>Geology and Chronology of the Ma'adim Vallis-Eridania Basin Region, Mars: Implications for the Noachian-Hesperian Hydrologic Cycle</i> [#1252]
455	Di Achille G. Hoke M. R. T. Rossi A. P. Hynek B. M. Esposito F. Hutton E. W. H. Kettner A. J.	<i>Process-Response Sedimentary Modeling of Ancient Martian Deltas 1: Introduction and Case Studies</i> [#2120]
456	Hoke M. R. T. Hynek B. M. Di Achille G. Hutton E.	<i>Process-Response Sedimentary Modeling of Ancient Martian Deltas 2: Offshore Sedimentation and Formation Timescales</i> [#2254]
457	Erkeling G. Reiss D. Hiesinger H. Poulet F. Carter J. Ivanov M. A. Hauber E. Jaumann R.	<i>Valleys, Paleolakes and Possible Shorelines at the Libya Montes/Isidis Boundary: Implications for the Hydrologic Evolution of Mars</i> [#1762]
458	Carter J. Poulet F. Mangold N. Ansan V. Dehouck E. Bibring J.-P. Murchie S.	<i>Composition of Deltas and Alluvial Fans on Mars</i> [#1978]
459	Petau A. Tirsch D. Jaumann J.	<i>Geomorphological Analysis of Mass Balances of Martian Valley Networks in Western Terra Sirenum</i> [#1834]
460	Mercier D. Lowell R. P.	<i>Ice Melting Above a Convecting, Crystallizing Magmatic Sill on Mars</i> [#2275]
461	Rhodes N. Hurtado J. M. Jr.	<i>A Magnetic Survey of Kilbourne Hole, Southern New Mexico: Implications for Near Surface Geophysical Exploration of Mars and the Moon</i> [#2914]
462	Simon-Miller A. A. Rogers J. H. Gierasch P. J. Choi D. Allison M. D. Adamoli G. Mettig H.-J.	<i>Longitudinal Variation and Waves in Jupiter's South Equatorial Wind Jet</i> [#1104]
463	Wilson H. F. Militzer B.	<i>Rocky Core Erosion in Jupiter and Giant Exoplanets</i> [#2873]
464	Thom N. Jackson B.	<i>Atmospheric Mass Loss and Orbital Evolution of Exoplanets</i> [#2717]

POSTER LOCATION NUMBER	AUTHORS	TITLE/ABSTRACT NUMBER
465	Dyches P. Zimmerman-Brachman R. Spear K. Simon M. Bechtel R.	<i>Knowledge is Power: Radioisotope Power Systems Education and Public Outreach at NASA</i> [#1640]
466	D'Amore M. Helbert J. Maturilli A. Head J. W. III Sprague A. L. Izenberg N. R. Holsclaw G. M. McClintock W. E. Vilas F. Solomon S. C.	<i>Global Classification of MESSENGER Spectral Reflectance Data and a Detailed Look at Rudaki Plains</i> [#1413]
467	Domingue D. L. Holsclaw G. M. Izenberg N. R. Vilas F.	<i>Photometric Analysis of Selected Regions on Mercury from MESSENGER Orbital Observations of Spectral Reflectance</i> [#2498]
468	Domingue D. L. Vilas F. Travnicek P. M. Benna M. Schriver D. Sarantos M.	<i>A Search for Latitudinal Variation in Space Weathering on Mercury's Surface</i> [#1646]
469	D'Incecco P. Helbert J. Head J. W. D'Amore M. Maturilli A. Izenberg N. R. Holsclaw G. M. Domingue D. L.	<i>Kuiper Crater on Mercury — An Opportunity to Study Recent Surface Weathering Trends with MESSENGER</i> [#1815]
470	Blewett D. T. Chabot N. L. Denevi B. W. Ernst C. M. Murchie S. L. Izenberg N. L. Xiao Z. Vaughan W. M. Head J. W. III Helbert J.	<i>Spectral and Morphological Studies of Mercury's Hollows</i> [#1329]
471	Xiao Z. Strom R. G. Blewett D. T. Chapman C. R. Denevi B. W. Head J. W. Fassett C. I. Braden S. E. Gwinner K. Solomon S. C. Murchie S. L. Watters T. R. Banks M. E.	<i>The Youngest Geologic Terrains on Mercury</i> [#2143]
472	Vilas F. Domingue D. L. Sprague A. L. Izenberg N. R. Klima R. L. Jensen E. A. Helbert J. D'Amore M. Stockstill-Cahill K. R. Solomon S. C.	<i>Search for Absorption Features in Mercury's Visible Reflectance Spectra: Recent Results from MESSENGER</i> [#1330]
473	Greenspon A. S. Hibbitts C. A. Dyar M. D.	<i>Compositional Dependencies in Ultraviolet Reflectance Spectra of Synthetic Glasses Relevant to Airless Bodies</i> [#2490]
474	Maturilli A. Helbert J. St. John J. D'Amore M.	<i>Visible-Infrared Reflectance and Emissivity Spectra of a Terrestrial Komatiite as a Guide to Observations at Mercury</i> [#1394]
475	Stockstill-Cahill K. R. McCoy T. J. Nittler L. R. Weider S. Z.	<i>Magnesium-Rich Compositions of Mercury: Implications for Magmatism from Petrologic Modeling</i> [#2107]
476	Rhodes E. A. Peplowski P. N. Evans L. G. Hamara D. K. Solomon S. C.	<i>Element Abundances from MESSENGER's Gamma-Ray Spectrometer: Background Normalization</i> [#1555]
477	Starr R. D. Nittler L. R. Weider S. Z. Rhodes E. A. Schriver D. Schlemm C. E. II Solomon S. C.	<i>MESSENGER X-Ray Spectrometer Detection of Electron-Induced X-Ray Fluorescence from Mercury's Surface</i> [#1176]
478	Meslin P.-Y. Déprez G.	<i>Radon Exhalation as a Possible Explanation to the Low Th/U Ratio Measured by MESSENGER GRS on Mercury</i> [#2800]
479	Wilson L. Head J. W. III	<i>Volcanic Eruption Processes on Mercury</i> [#1316]
480	Hurwitz D. M. Head J. W. III Byrne P. K. Xiao Z.	<i>Potential for Lava Erosion on Mercury: Modeling the Formation of Both Small and Large Lava Channels</i> [#1055]
481	Goudge T. A. Head J. W. III Kerber L. Blewett D. T. Denevi B. W. Murchie S. L. Izenberg N. R. McClintock W. E. Holsclaw G. M. Domingue D. L. Gillis-Davis J. J. Xiao Z. Strom R. G. Helbert J. Solomon S. C.	<i>Global Inventory and Characterization of Pyroclastic Deposits on Mercury: New Insights into Pyroclastic Activity from MESSENGER Orbital Data</i> [#1325]
482	Zambon F. De Sanctis M. C. Capaccioni F. Filacchione G. Carli C. Ammannito E. Frigeri A.	<i>Pyroclastic Deposits in the Rudaki's Area</i> [#2069]

POSTER LOCATION NUMBER	AUTHORS	TITLE/ABSTRACT NUMBER
483	Buczowski D. L. Seelos K. D.	<i>A Map of the Intra-Ejecta Plains of the Caloris Basin, Mercury</i> [#1844]
484	Whitten J. L. Head J. W. III Murchie S. L. Blewett D. T. Denevi B. W. Neumann G. A. Zuber M. T. Smith D. E. Solomon S. C.	<i>Intercrater Plains on Mercury: Topographic Assessment with MESSENGER Data</i> [#1479]
485	Becker K. J. Weller L. A. Edmundson K. L. Becker T. L. Robinson M. S. Enns A. C. Solomon S. C.	<i>Global Controlled Mosaic of Mercury from MESSENGER Orbital Images</i> [#2654]
486	Elgner S. Oberst J. Perry M. E. Zuber M. T. Robinson M. S. Solomon S. C.	<i>Analysis of Mercury Limb Profiles from MESSENGER Images: Results from Least-Squares Adjustments of Crossover Heights</i> [#1469]
487	Di Achille G. Popa C. Massironi M. Ferrari S. Giacomini L. Mazzotta Epifani E. Pozzobon R. Zusi M. Cremonese G. Palumbo P.	<i>Mapping Mercury's Tectonic Features at the Terminator: Implications for Radius Change Estimates and Thermal History Models</i> [#2176]
488	Watters T. R. Solomon S. C. Robinson M. S. Head J. W. Strom R. G. Klimczak C. Byrne P. K. Enns A. C. Ernst C. M. Prockter L. M. Murchie S. L. Oberst J. Preusker F. Zuber M. T. Hauck S. A. II Phillips R. J.	<i>Tectonic Features on Mercury: An Orbital View with MESSENGER</i> [#2121]
489	Dickson J. L. Head J. W. III Whitten J. L. Fassett C. I. Neumann G. A. Smith D. E. Zuber M. T. Phillips R. J.	<i>Topographic Rise in the Northern Smooth Plains of Mercury: Characteristics from MESSENGER Image and Altimetry Data and Candidate Modes of Origin</i> [#2249]
490	Balcerski J. A. Hauck S. A. II Sun P. Klimczak C. Byrne P. K. Dombard A. J. Barnouin O. S. Zuber M. T. Phillips R. J. Solomon S. C.	<i>Tilted Crater Floors: Recording the History of Mercury's Long-Wavelength Deformation</i> [#1850]
491	Byrne P. K. Watters T. R. Murchie S. L. Klimczak C. Solomon S. C. Prockter L. M. Freed A. M.	<i>A Tectonic Survey of the Caloris Basin, Mercury</i> [#1722]
492	Klimczak C. Ernst C. M. Byrne P. K. Solomon S. C. Watters T. R.	<i>Fault Restriction in the Caloris Smooth Plains: Implications for Mechanical Stratigraphy</i> [#1959]
493	Blair D. M. Freed A. M. Byrne P. K. Klimczak C. Solomon S. C. Watters T. R. Prockter L. M. Melosh H. J. Zuber M. T.	<i>Thermally Induced Graben in Peak-Ring Basins and Ghost Craters on Mercury</i> [#2501]
494	Massironi M. Di Achille G. Ferrari S. Giacomini L. Popa C. Pozzobon R. Zusi M. Cremonese G. Palumbo P.	<i>Strike-Slip Kinematics on Mercury: Evidences and Implications</i> [#1924]
495	Banks M. E. Watters T. R. Strom R. G. Solomon S. C. Braden S. E. Chapman C. R. Xiao Z. Barlow N. G.	<i>Stratigraphic Relationships Between Lobate Scarps and Young Impact Craters on Mercury: Implications for the Duration of Lobate Scarp Formation</i> [#2684]
496	Preusker F. Oberst J. Blewett D. T. Gwinner K. Head J. W. Murchie S. L. Robinson M. S. Watters T. R. Zuber M. T. Solomon S. C.	<i>Topography of Mercury from Stereo Images: First Samples from MESSENGER Orbital Mapping</i> [#1913]
497	Strom R. G. Xiao Z. Blewett D. T. Chapman C. R. Denevi B. W. Head J. W. III Fassett C. I. Braden S. E. Solomon S. C. Watters T. R. Banks M. E.	<i>Impact Crater Populations on Mercury</i> [#1115]
498	Fassett C. I. Head J. W. III Baker D. M. H. Chapman C. R. Murchie S. L. Neumann G. A. Oberst J. Prockter L. M. Smith D. E. Solomon S. C. Strom R. G. Xiao Z. Zuber M. T.	<i>Distribution, Statistics, and Resurfacing of Large Impact Basins on Mercury</i> [#1428]

POSTER LOCATION NUMBER	AUTHORS	TITLE/ABSTRACT NUMBER
499	Prockter L. M. Murchie S. L. Ernst C. M. Baker D. M. H. Byrne P. K. Head J. W. III Watters T. R. Denevi B. W. Chapman C. R. Solomon S. C.	<i>The Geology of Medium-Sized Basins on Mercury: Implications for Surface Processes and Evolution</i> [#1326]
500	Gillis-Davis J. J. Markley M. M. Goudge T. A. Head J. W. Xiao Z. Gwinner K.	<i>Large Pit Craters on Mercury: Global Distribution and Occurrence</i> [#2288]
501	Gwinner K. Head J. W. Oberst J. Gillis-Davis J. J. Xiao Z. Strom R. G. Preusker F. Solomon S. C.	<i>Morphology of Pit Craters on Mercury from Stereo-Derived Topography and Implications for Pit Crater Formation</i> [#1991]
502	Jozwiak L. M. Head J. W.	<i>Mercury Pit-Floor Craters: Perspectives on their Origin from Lunar Floor-Fractured Craters</i> [#2424]
503	Wittmann A. Goderis S. Claeys P. Elburg M. Vanhaecke F. Zaiss J. Ravizza G. Deutsch A.	<i>Depositional Record of Pristine Impactites and Traces of the Projectile in El'gygytyn Crater</i> [#1999]
504	Chen M.	<i>Xiuyan Impact Crater, China</i> [#1003]
505	Ferrière L. Kaseti P. K. Lubala F. R. T. Koeberl C.	<i>The Omeonga Structure, Democratic Republic of Congo: Geological and Petrographical Results, and Implications for its Origin</i> [#2054]
506	Belhai D. Sahoui R. Devouard B.	<i>New Studies about the Maadna Impact Crater (Talemzane, Algeria)</i> [#1111]
507	Glass B. Domville S. Sanjanwalal R. Lee P.	<i>Constrained Model Interpretations from Haughton Crater Geophysical Datasets</i> [#2910]
508	Tabares Rodenas P. King D. T. Jr. Ormo J. Petruny L. W. Marzen L. J.	<i>New LiDAR Digital Elevation Model and Geological Map — Wetumpka Impact Structure, Alabama</i> [#2522]
509	Petruny L. W. King D. T. Jr. Tabares Rodenas P.	<i>A Shallow Excavation Transect Across the Wetumpka Impact Structure, Alabama — The El Paso Gas Company Pipeline Cut</i> [#2546]
510	Misra S. Androli M. A. G.	<i>Post-Impact Dolerite Dykes in the ~145 Ma Morokweng Crater, South Africa: Impact Related?</i> [#1078]
511	Beauford R. E.	<i>Ferrous Minerals and Impactite Mineralization at Missouri's Crooked Creek and Decaturville Impact Craters</i> [#1710]
512	Azad A. S. Dypvik H. Kalleson E. Riis F.	<i>Sedimentation in the Ritland Impact Structure, Western Norway</i> [#1281]
513	Wood C. A.	<i>Recognition of Degraded Impact Craters on Earth, Moon and Titan</i> [#1637]
514	Maziviero M. V. Vasconcelos M. A. R. Góes A. M. Crósta A. P. Reimold W. U.	<i>The Riachão Ring Impact Structure, Northeastern Brazil: Re-Evaluation of Its Stratigraphy and Evidence for Impact</i> [#1511]
515	Brown P. Ens T. Edwards W. N. Silber E. A.	<i>Global Detection of Airbursts: A Combined Satellite-Infrasound Study</i> [#1581]
516	Kuzmicheva M. Yu. Losseva T. V.	<i>Simulations of the Geomagnetic Field Disturbances Caused by the Tunguska Event 1908</i> [#2319]
517	Steiner M. B.	<i>Newly Discovered Iron Meteorites Within the City Limits, Laramie, WY</i> [#2924]
518	Shumilova T. G. Isaenko S. I. Makeev B. A. Ernstson K. Neumair A. Rappenglück M. A.	<i>Enigmatic Poorly Structured Carbon Substances from the Alpine Foreland, Southeast Germany: Evidence of a Cosmic Relation</i> [#1430]
519	Wagner R. V. Robinson M. S. Ashley J. W.	<i>Small-Scale Pits in Impact Melts</i> [#2266]
520	Boyce J. M. Wilson L. Mouginiis-Mark P. J. Tornabene L. L. Hamilton C. W.	<i>Origin of Closely-Spaced Groups of Pits in Martian Craters</i> [#1017]
521	Beach M. J. Head J. W. III Ostrach L. R. Robinson M. S. Denevi B. W. Solomon S. C.	<i>The Influence of Pre-Existing Topography on the Distribution of Impact Melt on Mercury</i> [#1335]

POSTER LOCATION NUMBER	AUTHORS	TITLE/ABSTRACT NUMBER
522	Öhman T. Kramer G. Y. Kring D. A.	<i>Spectral Analysis of the Distribution of Impact Melt-Rich Lithologies in Lunar Crater Kepler Using M³ Data</i> [#2257]
523	Kuriyama Y. Ohtake M. Haruyama J. Iwata T.	<i>Distributions of Impact Melts Within Lunar Complex Craters Jackson and Tycho</i> [#1395]
524	Chanou A. Tornabene L. L. Osinski G. R. Zanetti M. Pickersgill A. E. Shankar B. Marion C. Mader M. M. Souders K. A. Sylvester P. Jolliff B. L. Shaver C.	<i>Impact Melt-Pond Scenario Tested During the KRASH 2011 Analogue Mission at Kamestastin Impact Structure</i> [#2580]
525	Vaughan W. M. Head J. W. III Hess P. C. Wilson L. Neumann G. A. Smith D. E. Zuber M. T.	<i>Depth and Differentiation of the Orientale Melt Lake</i> [#1302]
526	Pittarello L. Koeberl C.	<i>A Suevite in Black and White: SEM Study on the Samples from the El'gygytgyn Drill Core</i> [#1883]
527	Pickersgill A. E. Osinski G. R. Mader M. M.	<i>A Formational Model for an Impact Melt-Bearing Breccia Dyke at the Mistastin Lake Impact Structure, Labrador, Canada</i> [#2473]
528	Beauford R. E.	<i>Carbonate Melts and Sedimentary Impactite Variation at Crooked Creek and Decaturville Impact Craters, Missouri, USA</i> [#1705]
529	Murty S. V. S. Ranjit Kumar P. M.	<i>Noble Gas Isotopes: Tracers of Impactor Signatures in Lunar Impact Glasses</i> [#1423]
530	Giuli G. Cicconi M. R. Eeckhout S. G. Koeberl C. Glass B. P. Pratesi G. Paris E.	<i>North-American Microtektites are More Oxidised than Tektites</i> [#1921]
531	Giuli G. Cicconi M. R. Eeckhout S. G. Paris E. Pratesi G. Folco L.	<i>Fe Oxidation State in Microtektites from the Transantarctic Mountains</i> [#1927]
532	Goderis S. Simonson B. M. McDonald I. Hassler S. W. Izmer A. Vanhaecke F. Claeys Ph.	<i>Geochemical Correlation of Two Late Archean Impact Spherule Layers Between South Africa and Western Australia: the Paraburdoo-Reivilo Link</i> [#1882]
533	Huber M. S. Crne A. E. Lepland A. McDonald I. Melezhik V. A. Koeberl C.	<i>Chemical Analysis of Impact Spherules from the Zaonega Formation, Karelia, Russia, and Implications for Vredefort Origin</i> [#1970]
534	Fernandes V. A. Hopp J. Schwarz W. Trieloff M. Reimold W. U.	<i>Re-Evaluation of the Chesapeake Bay Crater Impact Age: New ⁴⁰Ar-³⁹Ar Step-Heating Results for North American Tektites</i> [#1775]
535	Kraus R. G. Newman M. G. Stewart S. T.	<i>Hugoniot Measurements on Heterogeneous Geologic Materials</i> [#2680]
536	Sugita S. Kurosawa K. Kadono T. Sano T.	<i>An High-Precision Semi-Analytical on-Hugoniot EOS for Geologic Materials</i> [#2053]
537	Kraus R. G. Swift D. C. Hicks D. G. Stewart S. T.	<i>High Accuracy Equations of State for Planetary Collision Modeling</i> [#2649]
538	Holm S. Ferrière L. Alwmark C.	<i>A Statistical Study of Shocked Quartz Grains from the Siljan Impact Structure (Sweden) — Horizontal Versus Vertical C-Axes</i> [#1846]
539	Collins G. S. Melosh H. J. Pasek M. A.	<i>Can Lightning Strikes Produce Shocked Quartz?</i> [#1160]
540	McHone J. F. Shoemaker C. Killgore M. Killgore K.	<i>Two Shatter-Coned NWA Meteorites</i> [#2359]
541	Lindgren P. Price M. C. Lee M. R. Burchell M.	<i>Constraining the Pressure Threshold of Impact Induced Calcite Twinning</i> [#1934]
542	Hu J. Sharp T. G. Tricky R. Leinenweber K.	<i>Akimotoite and Silicate-Perovskite in L5-6 S6 Chondrite Acfer 040 Suggesting a High Shock Pressure of 25GPa</i> [#2728]
543	Wright S. P.	<i>Not Just Fresh Basalt: A Range of Shocked Alteration Products and Soil from Lunar Crater, India</i> [#2765]
544	Kurosawa K. Ohno S. Sugita S. Mieno T. Hasegawa S.	<i>Shock-Induced Decarbonation in an Open System Using a 2-Stage Light Gas Gun</i> [#1730]

POSTER LOCATION NUMBER	AUTHORS	TITLE/ABSTRACT NUMBER
545	Kowitz A. Schmitt R. T. Reimold W. U. Hornemann U.	<i>Development of Fractures, Melt and Local Shock Effects on Shock Recovery Experiments at Low Shock Pressure with Dry Seeberger Sandstone</i> [#1201]
546	Moser D. Grosse C. Güldemeister N. Buhl E. Wünnemann K. Kenkmann T.	<i>Looking Beneath an Impact Crater — Non-Destructive Testing for Hypervelocity Impact Experiments</i> [#2207]
547	Stickle A. M. Schultz P. H.	<i>Subsurface Damage Features Following Projectile Decapitation</i> [#1269]
548	Kimberley J. Ramesh K. T.	<i>Real-Time Observation of Early Stage Damage During Hypervelocity Impacts into Basalt Targets</i> [#2344]
549	Takagi Y. Hasegawa S. Kurosawa K.	<i>Cratering Experiments on Basalt Targets</i> [#2002]
550	Munsat T. Collette A. Drake K. Grun E. Horanyi M. Kempf S. Mocker A. Northway P. Robertson S. Shu A. Sternovsky Z. Thomas E.	<i>The Dust Accelerator Facility of the Colorado Center for Lunar Dust and Atmospheric Studies</i> [#2730]
553	Thiemens M. M. Moynier F. Thiemens M. H. Shaheen R. Chong K. Koeberl C. Popp F. Gyollai I.	<i>Zn and C Isotopic Variations Associated with Neoproterozoic Ice Ages</i> [#2499]
554	Steininger H. Goetz W.	<i>Pyrolysis-GC-MS Analysis of Antarctic Lake Sediments</i> [#2841]
555	Marnocha C. L. Dixon J. C.	<i>Bacterial Community Structure of Sulfate Crusts, Fe/Mn Skins, and 55Alumina Coatings from Kärkevagge, Swedish Lapland</i> [#2150]
556	Sheehan R. C. Marnocha C. L. Dixon J. C.	<i>Bacterial Diversity of Fe/Mn and White Rock Coatings in Kärkevagge: A Potential Mars Analogue</i> [#1013]
557	Rodzinyak K. J. Wing B. A. Léveillé R. J.	<i>Unexpectedly Large S Isotope Fractionation During Natural Sulfide Oxidation at Cold Temperatures</i> [#2067]
558	McMahon S. Parnell J. Blamey N. J. F.	<i>Analysis of Volatile Fluids in Basalt: A Possible Source of Martian Methane</i> [#1046]
559	Webster K. D. Rebholz J. A. White J. R. Douglas B. J. Pratt L. M.	<i>Using Open-Path Laser Measurement of Atmospheric Methane Concentration Along a Major Shear Zone in Western Greenland as an Analogue for Exploration on Mars</i> [#1514]
560	Franchi F. Cavalazzi B. Rossi A. P. Pondrelli M. Barbieri R.	<i>Kess Kess Hydrothermal Mounds in Morocco: A Unique Analog for Exploring Possible Fossil or Extant Life on Mars</i> [#2245]
561	Fu Q. Socki R. A. Niles P. B. Romanek C. Datta S. Darnell M.	<i>The Origin of Carbon-Bearing Volatiles in a Continental Hydrothermal System in the Great Basin: Water Chemistry and Isotope Characterizations</i> [#2481]
562	Socki R. A. Fu Q. Niles P. B. Gibson E. K. Jr.	<i>Hydrogen Isotope Measurements of Organic Acids and Alcohols by Pyrolysis-GC-MS-TC-IRMS: Application to Analysis of Experimentally Derived Hydrothermal Mineral-Catalyzed Organic Products</i> [#2483]
563	de Morais A.	<i>A Possible Biogeochemical Model for Mars</i> [#2943]
564	Thompson D. R. Allwood A. C. Bekker D. L. Cabrol N. A. Fuchs T. Wagstaff K. L.	<i>TextureCam: Autonomous Image Analysis for Astrobiology Survey</i> [#1659]
565	Misra A. K. Sharma S. K. Acosta T. E. Bates D. E. Clegg S. Wiens R. C.	<i>Standoff Bio-Finder for Planetary Exploration with Fast Detection</i> [#1666]
566	Scott V. J. Amashukeli X. Siegel P. H. Fisher A. Bae Y. Toda R.	<i>An RF-Powered Micro-Extractor for the Detection of Astrobiological Target Molecules</i> [#2128]
567	Malespin C. A. Glavin D. P. ten Kate I. L. Franz H. B. Mumm E. Bleacher J. E. Rice J. W.	<i>Volatile Analysis by Pyrolysis of Regolith in the 2011 D-RATS Field Test</i> [#2181]
568	Elliott H. M. Martinez G. M. Halleaux D. G. Braswell S. F. Renno N. O.	<i>The Michigan Mars Environmental Chamber (MMEC): Determining the Conditions at Which Liquid Brines form on Mars</i> [#2117]

POSTER LOCATION NUMBER	AUTHORS	TITLE/ABSTRACT NUMBER
569	Papineau D.	<i>Organic Matter Associated with Apatite in Martian Meteorite Chassigny</i> [#1549]
570	Pavlov A. A. Vasiyev G. Ostryakov V. M. Pavlov A. K. Mahaffy P.	<i>Degradation of the Organic Molecules in the Shallow Subsurface of Mars due to Irradiation by Cosmic Rays</i> [#2933]
571	Wimmer-Schweingruber R. F. Hassler D. M. Zeitlin C. Böttcher S. Martin C. Andrews J. Böhm E. Weigle G. Brinza D. Posner A. Burmeister S. Epperly M. Seimetz L. Reitz G. Kortmann O. Köhler J. Ehresmann B. Neal K. Rafkin S. Peterson J. Tyler Y. Smith K. Bullock M. Cucinotta F.	<i>Determining the Martian Radiation Environment — The Radiation Assessment Detector (RAD) on Mars Science Laboratory (MSL)</i> [#2460]
572	Oshima M. Tani A. Kitano K. Sugahara T. Ohgaki K.	<i>Possibility of Carboxylic Acid Formation by Radiolysis of CO₂ Hydrate on Mars</i> [#1976]
573	Sandford S. A. Nuevo M. Materese C. K. Milam S. N.	<i>Nucleobases and Other Prebiotic Species from the Ultraviolet Irradiation of Pyrimidine in Astrophysical Ices</i> [#1550]
574	Sinha N. Kral T. A.	<i>Sensitivity of Desiccated and Liquid Cultures of Methanogens to Ultraviolet Radiation</i> [#1702]
575	Stromberg J. M. Mann P. Cloutis E. A.	<i>The Effects of Desiccation Under Mars-Like Conditions on the Spectral Detectability of Gypsum Associated Endolithic Communities</i> [#1224]
576	Kyle J. E. Jahnke L. L. Stedman K. M.	<i>Preservation Potential of Lipid-Containing Viruses Under Silicifying Conditions</i> [#2228]
577	Figlewski N. M. Beegle L. W. Sollitt L. S.	<i>Laser Desorption Infrared Spectrometry for Icy Moon Surfaces</i> [#2642]
578	Aponte J. C. Tarozo R. Hallmann C. Summons R. Huang Y.	<i>The Racemic Nature of the Free and IOM-Derived Monocarboxylic Acids in Carbonaceous Chondrites Suggests the Origin of Chirality During Parent Body Modification Processes</i> [#1032]
579	Boice D. C. de Almeida A. A.	<i>Prospects for Phosphorus-Bearing Molecules in Cometary Comae</i> [#1887]
580	Brock L. S. Melosh H. J.	<i>Impact Exchange of Material Between Planets of Gliese 581</i> [#2467]
582	Rull F. R. Klingelhoefer G. Martinez Frias J. Rodriguez J. A. Medina J. Lalla E.	<i>A Combined Raman and Mössbauer Analysis of Atered Basalts in Tenerife Island: Analogies with Mars</i> [#2882]
583	McHenry L. J. Chevrier V. F. Schröder C.	<i>Spatial vs. Temporal Distribution of K-Jarosite in a Saline-Alkaline Paleolake Deposit: Implications for the Distribution and Longevity of Jarosite on Mars</i> [#2010]
584	Sharma S. K. McKay C. P. Misra A. K.	<i>Time-Resolved Raman and Laser-Induced Native Fluorescence Investigations of Carbonate Rocks as an Analogue for Martian Carbonates</i> [#1312]
585	Englert P. Bishop J. L. Hunkins L. D. Koeberl C.	<i>Martian Soil Analogs from Antarctica: Chemical and Mineralogical Weathering Scenarios</i> [#1743]
586	Sobron P. Amundsen H. E. F. Bauer A. Bishop J. L. Jordan F. Josset J-L. Josset L. Leveille R. Pugh S. M. Schmitz N. Steele A. Wang A.	<i>In-Situ Investigation of Devonian Redbed Sediments in Bockfjord (Svalbard, Norway) as a Martian Analogue</i> [#2631]
587	Stoker C. R. Clarke J. D. A. Valdivia-Silva J. Foing B.	<i>Subsurface Profiles of Organics Obtained by Core Drilling in Jurassic Sediments at a Mars Analog Site in Utah</i> [#2850]
588	Salvatore M. R. Mustard J. F. Head J. W. III Marchant D. R. Wyatt M. B. Seeley J.	<i>Linking Orbital, Field, and Laboratory Analyses of Dolerites in the McMurdo Dry Valleys of Antarctica: Terrestrial Studies and Planetary Applications</i> [#1590]

POSTER LOCATION NUMBER	AUTHORS	TITLE/ABSTRACT NUMBER
589	Salvatore M. R. Mustard J. F. Head J. W. III Cooper R. F. Marchant D. R. Wyatt M. B.	<i>Characterizing Widespread Oxidation Processes on Mars: Alteration Rind Development and Effects on Spectroscopic Investigations</i> [#1597]
590	Mandt K. E. Patrick E. L. Mitchell E. J. Seifert C. Mitchell J. N. Libardoni M. Younkin K. N.	<i>In-Situ Mass Spectrometer Measurements of Cave Atmospheres as an Analogue to Future Planetary Cave Missions</i> [#1442]
591	Rutledge A. M. Christensen P. R.	<i>Infrared Spectroscopy and Geochemistry of Cold Weathering Products in a Terrestrial Icy Environment: Implications for Weathering on Mars</i> [#2715]
592	McGlynn I. O. Fedo C. M. McSween H. Y. Jr.	<i>Physical Modification of Synthetic Basaltic Sediment Compositions: Implications for Interpreting the Geochemistry of Martian Soils</i> [#1251]
593	Hallis L. J.	<i>Weathering in Terrestrial Samples from the Miller Range and Elephant Moraine Regions of Antarctica: Comparisons with Weathering in Antarctic Martian Meteorites</i> [#2819]
594	Brown A. J. Bishop J. L. Roush T. L. Hunkins L. Bristow T. Blake D.	<i>Controlled Study for Quantitative Clay Abundance on Mars</i> [#1747]
595	Zhou Y. Z. Wang A. W.	<i>Potential Existence of Al-Bearing Sulfates on Mars and Their Spectral Characteristics</i> [#2289]
596	Liu Y. Wang A.	<i>Dehydration of Na-Jarosite, Ferricopiapite, and Rhomboclase at High T and Implications on Martian Ferric Sulfates</i> [#2791]
597	Lu Yanli. Wang A.	<i>Synthesis and Spectral Characterization of OH-bearing Ferric Sulfates</i> [#2514]
598	Graff T. G. Morris R. V. Achilles C. N. Agresti D. G. Ming D. W. Hamilton J. C. Mertzman S. A. Smith J. G.	<i>Chemical and Mineralogical Characterization of Acid-Sulfate Alteration of Basaltic Material on Mauna Kea Volcano, Hawaii: Jarosite and Hydrated Halloysite</i> [#2639]
599	Lauer H. V. Jr. Archer P. D. Jr. Sutter B. Niles P. B. Ming D. W.	<i>Thermal and Evolved Gas Analysis of "Nanophase" Carbonates: Implications for Thermal and Evolved Gas Analysis on Mars Missions</i> [#2299]
600	Sakatani N. Ogawa K. Iijima Y. Honda R. Tanaka S.	<i>Thermal Conductivity of Glass Beads as a Model Material of Regolith</i> [#2000]
601	Moroz L. V. Starukhina L. V. Rout S. S. Sasaki S. Leroux H. Helbert L. Baither D. Bischoff A. Hiesinger H.	<i>Space Weathering of Fe-Poor Silicate Regoliths: Experimental and Theoretical Simulations</i> [#1488]
602	Dropmann M. Gomringer C. Koch H. Peters S. Herdrich G. Cook M. Schmoke J. Laufer R. Matthews S. Hyde T. W.	<i>Setup of an Inductively-Heated Plasma Generator and Diagnostics to Build a Hybrid Plasma Simulation Facility for Complex Space Environment Investigations</i> [#2165]
603	Gillis-Davis J. J. Markley M. M. Lucey P. G. Bradley J. P. Ishii H. A.	<i>Laser Space Weathering of Quartz</i> [#2664]
604	Barmatz M. Steinfeld D. Winterhalter D. Rickman D. Gustafson R. Butts D. Weinstein M.	<i>Microwave Permittivity and Permeability Measurements on Lunar Simulants</i> [#1050]
605	Russell P. S. Grant J. A. Williams K. K. Carter L. M. Garry W. B. Morgan G. Daubar I. Bussey D. B. J.	<i>Ground Penetrating Radar Field Studies of Lunar-Analog Geologic Settings: Impact Ejecta and Volcanic Materials</i> [#2604]
606	Gurgurewicz J. Maturilli A. Helbert J. Kostylew J. Zalewska N.	<i>Emissivity Measurements of Basaltic Analogues for Mercury</i> [#2124]
607	Bodnarik J. G. Schweitzer J. S. Parsons A. M. Evans L. G. Starr R. D.	<i>PING Gamma Ray and Neutron Measurements of a Meter-Scale Carbonaceous Asteroid Analog Material</i> [#1544]
608	Ivliev A. I. Kuyanko N. S.	<i>The Thermoluminescence in the Experimentally Shock Loaded Minerals</i> [#1273]

POSTER LOCATION NUMBER	AUTHORS	TITLE/ABSTRACT NUMBER
609	ElShafie A. Heggy E.	<i>Dielectric Properties of Volcanic Material and Their Role for Assessing Rock Hardness in the Martian Subsurface</i> [#2790]
610	Choukroun M. Barmatz M. Castillo-Rogez J. C. Mielke R. Mitchell K. Smythe W. Sotin C. Young J. Zhong F.	<i>JPL's Capabilities for Ice Physics Experimentation with Planetary Applications</i> [#2774]
611	Haberle C. W. Cabrol N. A. Grin E. A.	<i>Exploring Planetary Analogs: Environmental Monitoring and Lake Bottom Mapping at Planetary Lake Lander 2011</i> [#2705]
612	Núñez J. I. Farmer J. D. Sellar R. G.	<i>Exploration at the Hand Lens Scale: Results from the 2010 ILSO-ISRU Field Test Using the Multispectral Microscopic Imager</i> [#2290]
613	Budney C. J. Lowes L. L. Sohus A. M. Wessen A. S. Stelzner T. D. Urban A.	<i>NASA Planetary Science Summer School: Preparing the Next Generation of Planetary Mission Leaders</i> [#2721]
614	Dove A. Poppe A. Fagan A. L. Neish C. Fuqua H. Kramer G. Szalay J. Horanyi M.	<i>LunGradCon: The Lunar Graduate Student Conference</i> [#2713]
615	Kring D. A. Mendell W. W. Shaner A. J. Shipp S. S. Tygielski J. D.	<i>The Lunar Exploration Summer Intern Program: Plugging Students into the Lunar Science and Exploration Pipeline</i> [#2814]
616	de Wet A. P. Bleacher J. E. Garry W. B.	<i>Origins of Sinuous and Braided Channels on Ascraeus Mons, Mars — A Keck Geology Consortium Undergraduate Research Project</i> [#2502]
617	Hegy S. Kereszturi A.	<i>E-Learning System to Fuse Planetary Science and Engineering Issues</i> [#1812]
618	Chan M. A. Robinson J. K.	<i>Mars for Earthlings: A Higher Educational Terrestrial Analog Approach for Teaching Integrated Earth and Planetary Science</i> [#1184]
619	Urquhart M. L. Montgomery H. A.	<i>Designing an Earth and Space Science Course Sequence for In-Service Teachers</i> [#2324]
620	Bérczi Sz. Nagy Sz. Gyollai I. Józsa S. Szakmány Gy. Varga T. N. Varga T. P. Gucsik A.	<i>How we Used the NASA Lunar Sample Set in the Planetary and Material Analog Studies: Lunar and Industrial Implications from the Comparison of Textures and Processes</i> [#1399]
621	Allen J. Galindo C. Luckey M. Reustle J. Todd N. Allen C.	<i>Lunar and Meteorite Thin Sections for Undergraduate and Graduate Studies</i> [#2805]
622	Hargitai H. Simonné-Dombóvári E. Gede M.	<i>A 3D Planetary Neocartographic Tool in Education: A Game on Virtual Moon and Mars Globes</i> [#1783]
623	Croft S. K. Baldridge A. M. Buxner S. Canizo T. L. Chuang F. C. Crown D. A. Kortenkamp S. J. Lebofsky L. A.	<i>Instructional Rock Kits for Use in Professional Development Workshops, Classrooms, and Informal Educational Events</i> [#1485]
624	Lebofsky L. A. Buxner S. Crown D. A. Canizo T. L. Schmitt W. Anderson S. W.	<i>Project WISER: Evaluation Strategies for Professional Development Workshops at the Planetary Science Institute</i> [#1304]
625	Gilbert A. M. Osinski G. R. August T. Mader M. McCullough E. Pontefract A. Shankar B. Singleton A.	<i>The Continued Growth of the Education and Outreach Program at the Centre for Planetary Science and Exploration</i> [#1626]
626	Anand M. Pearson V. K. Tindle A. G. Kelley S. P. Koeberl C. Smith C. L. Whalley P. C.	<i>Space Eyeful: A Virtual Microscope for Extraterrestrial Samples</i> [#2187]
627	Mayo L. James N. Lewis E. Ng C. Odenwald S. Thieman J.	<i>Sun Earth Day 2012, The Transit of Venus, "Shadows of the Sun"</i> [#2869]
628	Halligan E. Shipp S. Shupla C. Dalton H. Buxner S. Boonstra D. Scalice D. Bleacher L. V.	<i>The Year of the Solar System: Opportunities for Scientist Involvement</i> [#2503]
629	Shupla C. Shipp S.	<i>Menu of Opportunities for Scientist Involvement in Pre-Service Science Teacher Preparation</i> [#2655]

POSTER LOCATION NUMBER	AUTHORS	TITLE/ABSTRACT NUMBER
630	Jones A. J. P. Hsu B. C. Bleacher L. V.	<i>Scientist Involvement in the Lunar Reconnaissance Orbiter's Lunar Workshop for Educators Teacher Professional Development Series</i> [#2916]
631	Galindo C. Jr. Allen J. Garcia J. Herrera S.	<i>NASA Space Science Days: An Out of School Program Using National Partnerships to Further Influence Future Scientists and Engineers</i> [#2919]

