

**PROGRAM**  
**39th Lunar and Planetary Science Conference**  
**March 10–14, 2008**

**Revised February 19 to reflect revisions to NASA Headquarters Events**

**To view the full listing for a session, use the hand tool of your Acrobat Reader to click on the name of the session. When the session listing appears, you can click on a title to view the abstract for that presentation.**

*Unless LPI is specifically included in the room name, all locations listed are at South Shore Harbour. An asterisk appearing in the program indicates the speaker.*

**Sunday, March 9**

**8:30 a.m. – 3:00 p.m.**

LPI Berkner Rooms	LPI Education/Public Outreach Workshop “Reaching the Moon”
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**9:00 a.m. – 5:00 p.m.**

Oasis Room	NASA Proposal Writing Workshop
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**Sunday Evening, March 9, 5:00 p.m.**

LPI Hess Room	Registration
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LPI Great Room	Reception
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LPI Berkner Rooms	Education and Public Outreach Program and Product Displays
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**Monday Morning, March 10, 8:30 a.m.**

Crystal Ballroom A	SPECIAL SESSION: MESSENGER at Mercury I
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Crystal Ballroom B	Mars: Pingos, Polygons, and Other Puzzles
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Marina Plaza Ballroom	Solar Wind and Genesis: Measurements and Interpretation
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Amphitheater	Asteroids, Comets, and Small Bodies
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**Monday, March 10, 12:10 – 1:30 p.m. (note change in date)**

Crystal Ballroom A	NASA Headquarters R&A Town Hall with Yvonne Pendleton, Senior Advisor for R&A
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**Monday Afternoon, March 10, 1:30 p.m.**

Crystal Ballroom A	PLENARY SESSION: Masursky Lecture by Dr. Robert Pepin and Award Presentations
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**Monday Afternoon, March 10, 2:30 p.m.**

Crystal Ballroom A	SPECIAL SESSION: MESSENGER at Mercury II
Crystal Ballroom B	Mars: Ice On the Ground and In the Ground
Marina Plaza Ballroom	SPECIAL SESSION: Results from Kaguya (SELENE) Mission to the Moon
Amphitheater	Outer Planet Satellites: Not Titan, Not Enceladus

**Monday Evening, March 10, 5:30 p.m.**

Crystal Ballroom A	NASA Headquarters SMD/ESMD Briefing with Michael Griffin, NASA Administrator
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**immediately followed by**

Marina Plaza Ballroom	Student/Scientist Reception
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**Tuesday Morning, March 11, 8:30 a.m.**

Crystal Ballroom A	SPECIAL SESSION: Lunar Science: Past, Present, and Future I
Crystal Ballroom B	Mars: North Pole, South Pole — Structure and Evolution
Marina Plaza Ballroom	Refractory Inclusions
Amphitheater	Impact Events: Modeling, Experiments, and Observations I

**Tuesday, March 11, Noon - 1:30 p.m.**

Harbour Club	Informal Planetary Research and Analysis (R&A) Reception with NASA Headquarters SMD Program Officers
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**Tuesday Afternoon, March 11, 1:30 p.m.**

Crystal Ballroom A	SPECIAL SESSION: Lunar Science: Past, Present and Future II
Crystal Ballroom B	Mars Sedimentary Processes from Victoria Crater to the Columbia Hills
Marina Plaza Ballroom	Formation and Alteration of Carbonaceous Chondrites
Amphitheater	Impact Events: Modeling, Experiments and Observations II

**Tuesday Evening, March 11, 6:30 p.m.**

Fitness Center

POSTER SESSION I

*Education and Public Outreach Programs*

*Early Solar System and Planet Formation*

*Solar Wind and Genesis*

*Asteroids, Comets, and Small Bodies*

*Carbonaceous Chondrites*

*Chondrules and Chondrule Formation*

*Chondrites*

*Refractory Inclusions*

*Organics in Chondrites*

*Meteorites: Techniques, Experiments, and Physical Properties*

*MESSENGER and Mercury*

*Lunar Science Present: Kaguya (SELENE) Results*

*Lunar Remote Sensing: Basins and Mapping of Geology and Geochemistry*

*Lunar Science: Dust and Ice*

*Lunar Science: Missions and Planning*

*Mars: Layered, Icy, and Polygonal*

*Mars Stratigraphy and Sedimentology*

*Mars (Peri)Glacial*

*Mars Polar (and Vast)*

*Mars, You are Here: Landing Sites and Imagery*

*Mars Volcanics and Magmas*

*Mars Atmosphere*

*Impact Events: Modeling, Experiments, and Observations III*

*Ice is Nice: Mostly Outer Planet Satellites*

*Galilean Satellites*

*The Big Giant Planets*

*Astrobiology*

*In Situ Instrumentation*

*Rocket Scientist's Toolbox I: Mission Science and Operations*

*Spacecraft Missions*

**Wednesday Morning, March 12, 8:30 a.m.**

Crystal Ballroom A            New Achondrite GRA 06128/GRA 06129 — Origins Unknown

**10:00 a.m.**    The Science Behind Lunar Missions

Crystal Ballroom B            Mars Volcanics and Tectonics

Marina Plaza Ballroom        From Dust to Planets (Planetary Formation and Planetesimals):  
When, Where, and Kaboom!

Amphitheater                  Astrobiology: Biosignatures, Impacts, Habitability

**Wednesday, March 12, 12:10 – 1:30 p.m. (note change in event)**

Crystal Ballroom A            NASA Headquarters SMD Briefing with Alan Stern,  
Associate Administrator, Science Mission Directorate

**Wednesday Afternoon, March 12, 1:30 p.m.**

Crystal Ballroom A            Excavating a Comet

Crystal Ballroom B            Mars Interior Dynamics to Exterior Impacts

Marina Plaza Ballroom        Achondrites

Amphitheater                  Lunar Remote Sensing

**Wednesday Evening, March 12, 5:30 p.m. (note change in speaker)**

Crystal Ballroom A            NASA Headquarters SMD/ESMD Briefing with Jim Green,  
Director of the Planetary Science Division, Science Mission Directorate

**Thursday Morning, March 13, 8:30 a.m.**

Crystal Ballroom A            Mars Aeolian Processes and Gully Formation Mechanisms

Crystal Ballroom B            Solar Nebula Shake and Bake: Mixing and Isotopes

Marina Plaza Ballroom        Lunar Geophysics

Amphitheater                  Meteorites from Mars: Shergottite and Nakhlite Invasion

**Thursday, March 13, 12:10 – 1:30 p.m. (note change in time and location)**

Crystal Ballroom A            Improving NASA's Announcements of Opportunity: Community Input  
with Paul Hertz, SMD Senior Advisor for Science Process and Ethics

**Thursday Afternoon, March 13, 1:30 p.m.**

Crystal Ballroom A	Mars Fluvial Geomorphology
Crystal Ballroom B	Chondrules and Chondrule Formation
Marina Plaza Ballroom	Lunar Samples: Chronology, Geochemistry, and Petrology
Amphitheater	Enceladus
	<b>3:30 pm</b> Venus: Resurfacing and Topography (with Pancakes!)

**Thursday Evening, March 13, 5:30 p.m.**

Marina Plaza Ballroom	Overview of the Lunar Reconnaissance Orbiter Mission
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**Thursday Evening, March 13, 6:30 p.m.**

Fitness Center	POSTER SESSION II
	<i>Presolar Grains</i>
	<i>Micrometeorites</i>
	<i>Condensation-Evaporation: Stardust Ties</i>
	<i>Comet Dust</i>
	<i>Comparative Planetology</i>
	<i>Planetary Differentiation</i>
	<i>Lunar Meteorites</i>
	<i>Nonchondritic Meteorites</i>
	<i>Martian Meteorites</i>
	<i>Apollo Samples and Lunar Interior</i>
	<i>Lunar Geophysics</i>
	<i>Lunar Science: Geophysics, Surface Science, and Extralunar Components</i>
	<i>Mars, Remotely</i>
	<i>Mars Orbital Data — Methods and Interpretation</i>
	<i>Mars Tectonics and Dynamics</i>
	<i>Mars Craters: Tiny to Humongous</i>
	<i>Mars Sedimentary Mineralogy</i>
	<i>Martian Gullies and Slope Streaks</i>
	<i>Mars Fluvial Geomorphology</i>
	<i>Mars Aeolian Processes</i>
	<i>Mars Data and Missions</i>
	<i>Venus Mapping, Modeling, and Data Analysis</i>
	<i>Titan</i>

**Thursday Evening, March 13, 6:30 p.m. (continued)**

Fitness Center POSTER SESSION II (continued)

*Icy Dwarf Satellites*

*Rocket Scientist's Toolbox II: In Situ Analysis*

*Remote Sensing Approaches, Advances, and Applications*

*Analogs: Sulfates — Earth and Lab to Mars*

*Analogs: Remote Sensing and Spectroscopy*

*Analogs: Methods and Instruments*

*Analogs: Weird Places!*

**Friday Morning, March 14, 8:30 a.m.**

Crystal Ballroom A Mars Sulfates, Phyllosilicates, and Their Aqueous Sources

Crystal Ballroom B Ordinary and Enstatite Chondrites

**10:30 a.m.** Impact Calibration and Effects

Marina Plaza Ballroom Comparative Planetology

Amphitheater Analogs: Environments and Materials

**Friday Afternoon, March 14, 1:30 p.m.**

Crystal Ballroom A Mars: The Orbital View of Sediments and Aqueous Mineralogy

Crystal Ballroom B Planetary Differentiation

Marina Plaza Ballroom Titan

Amphitheater Presolar Grains: Still More Isotopes Out of This World

**Print Only**

*Early Solar System*

*Solar Wind*

*IDPs, Presolar/Solar Grains, Stardust*

*Comets, Asteroids, and Phobos*

*Venus*

*Mercury*

*Moon*

*Meteorites*

**Print Only (continued)**

*Mars*

*Astrobiology*

*Impacts*

*Outer Planets, Satellites, and Rings*

*Support for Mission Operations*

*Analogs*

*Education and Public Outreach*