

**PROGRAM**  
**35th Lunar and Planetary Science Conference**  
**March 15–19, 2004**

**To access the abstracts, use the hand tool of your Acrobat Reader to click on the name of any session. After the full program listing for that session appears, click on the title of a presentation to view the abstract for that presentation.**

**Sunday, 8:30 a.m.–2:00 p.m.**

LPI Lecture Hall	LPI Education/Public Outreach Workshop: “Learning from the Frontier: Getting Planetary Data in the Hands of Educators”
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**Sunday Evening, 5:00 p.m.**

LPI Hess Room	Registration
LPI Great Room	Reception
LPI Library	Education Programs Demonstrations

**Monday Morning, 8:30 a.m.**

Salon A	Icy Worlds: Moving and Grooving
Salon B	Mars Polar Science and Exploration
Salon C	Origin of Planetary Systems
Marina Plaza Ballroom	SPECIAL SESSION: Oxygen in the Solar System I

**Monday Afternoon, 1:30 p.m.**

Salon B	PLENARY SESSION Dwornik Awards Presentation followed by Masursky Lecture by Dr. S. Ross Taylor
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**Monday Afternoon, 2:15 p.m.**

Salon A	Stardust Mission
Salon B	Mars Tectonism and Volcanism
Salon C	Venus
Marina Plaza Ballroom	SPECIAL SESSION: Oxygen in the Solar System II

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

Salon B	NASA Headquarters Briefing Discussion Forum with members of the President’s Commission for Implementation of U.S. Space Policy (Moon, Mars, and Beyond)
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**Monday Evening, 6:30 p.m.**

South Shore Harbour Resort     Student/Scientist Reception  
and Conference Center  
(room to be determined)

**Tuesday Morning, 8:30 a.m.**

Salon A                                 Lunar Remote Sensing: Seeing the Big Picture  
Salon B                                 Ancient Mars Water and Landforms  
Salon C                                 Asteroids, Meteors, and Comets  
Marina Plaza Ballroom             Martian Meteorites: Hot and Steamy

**Tuesday Afternoon, 1:30 p.m.**

Salon A                                 Io, with a Dash of Titan  
Salon B                                 SPECIAL SESSION: Mars Missions  
Salon C                                 Effects of Impacts: Shock and Awe  
Marina Plaza Ballroom             Chondrules: The Never-Ending Story

**Tuesday Evening, 7:00–9:30 p.m.**

SSH Fitness Center                 Poster Session I

*Lunar Remote Sensing: Fire, Ice, and Regolith*  
*Impact-Related Deposits*  
*Venus*  
*Meteorites: Experiments and Spectroscopy*  
*Chondrules and CAIs*  
*Ordinary and Enstatite Chondrites*  
*Martian Meteorites: Petrology*  
*Martian Meteorites: Chemical Weathering*  
*Meteorites to and from the Moon and Mars: My Planet or Yours?*  
*Mars: Hydrology, Drainage, and Valley Systems*  
*Mars Polar Processes: Land and Sky*  
*Mars Volcanology and Tectonics*  
*Mars All Over: Geologic Mapping*  
*Mars Missions*  
*Mars: New Methods and Techniques*  
*Oxygen in the Solar System*  
*Origin of Planetary Systems*  
*Asteroids, Meteors, Comets*  
*Outer Solar System*  
*Genesis Mission*  
*Future Missions to the Moon*

**Tuesday Evening (continued), 7:00–9:30 p.m.**

SSH Fitness Center	Poster Session I (continued) <i>Image Processing and Earth Observations</i> <i>Human Occupation of Space: Radiation, Risk, and Refuse</i> <i>Engaging K–12 Educators, Students, and the General Public in</i> <i>Space Science Exploration</i>
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**Wednesday Morning, 8:30 a.m.**

Salon A	Viewing the Lunar Interior Through Titanium-Colored Glasses
Salon B	Mars: Gullies, Fluids, and Rocks
Salon C	Impacts: Observations and Experiments
Marina Plaza Ballroom	Achondrites: An Awesome Assortment

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

Salon A	Lunar Crust as Sampled by Basins and Craters
Salon B	Mars: Surface Coatings, Mineralogy, and Surface Properties
Salon C	Mars Geophysics
Marina Plaza Ballroom	From Ancient Mists: Presolar and Nebular Processes

**Wednesday Evening, 6:00–9:30 p.m.**

Campbell Hall, Pasadena Convention Center and Municipal Fairgrounds	Tex-Mex Fiesta and Chili Cookoff
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**Thursday Morning, 8:30 a.m.**

Salon A	Mars Mineralogy: Weathered and Dry
Salon B	SPECIAL SESSION: Mars Climate Change
Salon C	Astrobiology: Analogs and Applications to the Search for Life
Marina Plaza Ballroom	Organics and Alteration in Carbonaceous Chondrites: Goop and Crud

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

Salon A	Mars: Radar, Gamma Ray Spectrometer, and Cratering Mineralogy
Salon B	SPECIAL SESSION: Mars Climate Change
Salon C	Terrestrial Planets: Building Blocks and Differentiation
Marina Plaza Ballroom	Presolar Grains

**Thursday Evening, 7:00–9:30 p.m.**

SSH Fitness Center

Poster Session II

*Mercury, Top to Bottom**Terrestrial Planets**Lunar Sample Analysis**Lunar Geophysics: Rockin' and a-Reelin'**Lunar Rocks from Outer Space**Antarctic and Spherule Studies**Isotopes in Meteorites**Carbonaceous Chondrites**Achondrite Mishmash**Mars Climate Change**Missions and Instruments: Hopes and Hope Fulfilled**Mars: Remote Sensing and Terrestrial Analogs**Weird Martian Minerals: Complex Mars Surface Processes**Mars: Wind, Dust, Sand, and Debris**Mars Geophysics**Mars Impact Cratering**Impacts: Modeling and Observations**Impact Experiments**Astrobiology**Early Solar System Chronology**Dust: Theory and Experiments**Big Dust, Little Dust, and Aerogel**Undergraduate Education and Research Programs, Facilities,  
and Information Access***Friday Morning, 8:30 a.m.**

Salon A

Impacts on Mars and Earth

Salon B

Martian Aeolian and Mass Wasting Processes: Blowing and Flowing

Salon C

Early Solar System Chronology

Marina Plaza Ballroom

Interplanetary Dust and Aerogel

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

Salon A

Astrobiology Stew: Pinch of Microbes, Smidgen of UV,  
Touch of Organics, and Dash of Meteorites

Salon B

The Future of Mars Surface Exploration

Marina Plaza Ballroom

Concerning Chondrites

**Print-Only Presentations**

*Moon and Mercury*

*Venus*

*Impacts*

*Mars*

*Meteorites*

*Astrobiology*

*Asteroids, Meteors, Comets*

*Outer Solar System*

*Presolar Grains*

*Origin of Planetary Systems*

*Planetary Formation and Early Evolution*

*Exploration and Observations*

*Education*