

**PRELIMINARY PROGRAM**  
**34th Lunar and Planetary Science Conference**  
**March 17–21, 2003**

*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 Evening, 5:00 p.m.**

LPI Hess Room	Registration
LPI Great Room	Reception
LPI Library	Education and Public Outreach: Open House Display

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

Salon A	South Pole-Aitken Sample Return: Capstone, Keystone, Cornerstone <b>10:15 a.m.</b> Lunar Basalts: Deep Insights
Salon B	SPECIAL SESSION: Mars Odyssey: One Year of Science at Mars
Salon C	Poking Holes: Terrestrial Impacts
Marina Plaza Ballroom	The Wrath of Khandrules

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

Salon B	PLENARY SESSION Masursky Lecture by Peter Goldreich followed by Presentation to the 2002 GSA Stephen E. Dworkin U.S. Citizen Student Paper Award Winners
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**Monday Afternoon, 2:15 p.m.**

Salon A	Space Weather on Airless Bodies: Observations, Effects, and Depths
Salon B	Mars Volcanism
Salon C	SPECIAL SESSION: Chicxulub Scientific Drilling Project
Marina Plaza Ballroom	Nucleosynthesis

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

LPI Great Room	Reception Honoring the 2002 Dworkin Award Winners
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**Tuesday Morning, 8:30 a.m.**

Salon A	Moving and Grooving Ice
Salon B	Mars Surface Composition from Infrared Spectroscopy
Salon C	Digging Deeper: Impact Experiments and Theory
Marina Plaza Ballroom	Carbonaceous Chondrites: Tales from the Dark Side

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

Salon A	Lunar Science: Regional, Sample, Geoidal
Salon B	Mars 2003 Rover and Spectral Studies
Salon C	Mars Geophysics and Tectonics
Marina Plaza Ballroom	Carbonaceous Chondrites: Water and Organics for Dummies

**Tuesday Evening, 7:00–9:30 p.m.**

SSH Fitness Center	Poster Session I
	<i>Chicxulub</i>
	<i>Poking Holes: Terrestrial Impact</i>
	<i>Digging Deeper: Impact Experiments and Theory</i>
	<i>South Pole-Aitken Sample Mission</i>
	<i>Moon and Mercury: Early Evolution, Basalts, and Regolith</i>
	<i>MER 2003 Landing Sites: Hazards of Geology</i>
	<i>Mars Odyssey: One Year of Science at Mars</i>
	<i>Red Hot Lava: Mars Volcanism</i>
	<i>Mars Surface Composition from Infrared Spectroscopy</i>
	<i>Mars Surface, Weathering, and Hydrothermal Alteration</i>
	<i>Mars Tectonics and Geophysics: From Holes to Poles</i>
	<i>Mars Atmosphere and Climate</i>
	<i>Mars Geologic Mapping</i>
	<i>Maps 'n Bits: Cartography, Data Access, and Archiving</i>
	<i>I'll Take Meteoritic Potpourri for \$200, Please</i>
	<i>Experiments: Rocks Made to Order</i>
	<i>CCR: Carbonaceous Chondrite Revival</i>
	<i>Chondrules</i>
	<i>Outer Body Experiences</i>

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

Salon A	Io and Beyond
Salon B	Baby, It's Cold (and Windy) Outside: Aeolian and Glacial Processes on Mars
Salon C	Asteroids and Comets
Marina Plaza Ballroom	Martian Meteorites: We Come in Pieces

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

Salon A	IDPs: From Comets and Asteroids to Aerogel
Salon B	Mars Geomorphology and Impacts
Salon C	Evolution of the Martian Interior
Marina Plaza Ballroom	Achondrites to Zchondrites

**Wednesday Evening, 5:00 p.m.**

Salon B	NASA Headquarters Briefing
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**Wednesday Evening, 6:00–9:30 p.m.**

Campbell Hall, Pasadena Fairgrounds	Chili Cook-Off and Barbecue Dinner
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**Thursday Morning, 8:30 a.m.**

Salon A	Missions and Instruments <b>9:30 a.m.</b> Venus
Salon B	Mars Wet and Wild: Valley Networks, Outflow Channels, and Basin Flooding
Salon C	Origins of Planetary Systems
Marina Plaza Ballroom	Basaltic Achondrites: Go with the Flow

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

Salon A	Ordinary Chondrites: Who Could Ask for More?
Salon B	Recent Water on Mars: Ground Water, Ground Ice, Gullies
Salon C	Evolution of the Early Earth
Marina Plaza Ballroom	Presolar Grains: Five Servings Per Day

**Thursday Evening, 7:00–9:30 p.m.**

SSH Fitness Center	<p>Poster Session II</p> <p><i>Origins of Planetary Systems</i></p> <p><i>Early Evolution of the Terrestrial Planets</i></p> <p><i>Lunar Remote Sensing: Predictions, Techniques, Results, Archives, and Models</i></p> <p><i>Lunar Geophysics</i></p> <p><i>Venus: The Forgotten Planet</i></p> <p><i>Mars: Terrestrial Analogs</i></p> <p><i>Water on Mars Today (Maybe Yesterday)</i></p> <p><i>Mars Wet and Wild</i></p> <p><i>Mars Geomorphology</i></p> <p><i>Mars Impacts</i></p> <p><i>Mars Aeolian Processes</i></p> <p><i>Mars Bipolar Syndrome</i></p> <p><i>Instruments and Techniques for Mars</i></p> <p><i>Mars Missions</i></p> <p><i>CAIs: Refractory Direct to You</i></p> <p><i>Ordinary Chondrites: Who Could Ask for More?</i></p> <p><i>Achondrites to Zchondrites</i></p> <p><i>Martian Meteorites: We Come in Pieces</i></p> <p><i>Asteroids and Comets</i></p> <p><i>Interplanetary Dust and Micrometeorites</i></p> <p><i>Education and Public Outreach</i></p> <p><i>Missions and Instruments</i></p> <p><i>Astrobiology: The New Detectives</i></p>
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**Friday Morning, 8:30 a.m.**

Salon A	Astrobiology: The New Detectives
Salon B	Mars Geology and Analog Studies
Salon C	Future Mars and Asteroid Missions, Data, and Landing Sites
Marina Plaza Ballroom	CAIs: Refractory Direct to You

**Print-Only Presentations**

*Moon*

*Origins of Planetary Systems*

*Meteorites*

*Astrobiology*

*Asteroidal and Cometary Dust*

*Outer Planets*

*Mars Odyssey*

*Chicxulub*

*Education*

*Venus*

*Missions and Instruments*

*Impacts*

*Data Distribution*

*Small Bodies*

*Mars*