PROGRAM

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, March 6, 4:00 p.m.

Waterway Ballroom Prefunction Area	Registration

Sunday Evening, March 6, 5:00 p.m.

Waterway Ballroom Prefunction Area	Reception

Monday Morning, March 7, 8:30 a.m.

Waterway Ballroom 1	SPECIAL SESSION: Cryospheres I: Icy Insights into Mars Paleoclimate
Waterway Ballroom 4	Cosmochemical Origins I: Photochemistry, Transport, and Disk Evolution
Waterway Ballroom 5	Small Bodies: A Traverse from NEOs to TNOs
Waterway Ballroom 6	SPECIAL SESSION: Planetary Magmatic Volatiles

Monday Afternoon, March 7, 1:30 p.m.

Waterway Ballroom 4	PLENARY SESSION: Masursky Lecture and Dwornik Award Presentations

Monday Afternoon, March 7, 2:30 p.m.

Waterway Ballroom 1	Mercury
Waterway Ballroom 4	Achondrites
Waterway Ballroom 5	Asteroid Geophysics and Processes: Surfaces and Interiors
Waterway Ballroom 6	Formation and Evolution of the Moon I: From Giant Impact to Differentiation

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

Waterway Ballroom 1	SPECIAL SESSION: Cryospheres II: Martian Ground Ice and Associated Landforms
followed at 10:15 a.m. by	
	SPECIAL SESSION: Cryospheres III: Active Ice Processes
Waterway Ballroom 4	Unraveling the Origins of Presolar Grains
Waterway Ballroom 5	Terrestrial Impact Craters
Waterway Ballroom 6	Formation and Evolution of the Moon II: Lunar Magma Ocean Crystallization and Primary Crust Production

Tuesday Afternoon, March 8, 1:30 p.m.

Waterway Ballroom 1	Carbon on Mars: Surface to Atmosphere and Implications for Exobiology
Waterway Ballroom 4	Cosmochemical Origins II: Isotopic Constraints on Early Solar System Chronology
Waterway Ballroom 5	Impacts: Modeling and Remote Sensing
Waterway Ballroom 6	Formation and Evolution of the Moon III: Secondary Crust Production
Montgomery Ballroom	Education and Public Outreach: Applying What We Know to Teacher Professional Development and Citizen Science

Tuesday Evening, March 8, 6:00 p.m.

Town Center Exhibit Area — Poster Session I

Presolar Grains

Cosmochemical Origins I: Photochemistry, Transport, and Disk Evolution

Cosmochemical Origins II: Isotopic Constraints on Early Solar System Chronology

Early Solar System I: Refractory Materials, Isotopic Anomalies, and Their Solar Origins

Early Solar System II: Chondrules and Amoeboid Olivine Aggregates

Achondrites

Iron Meteorites and Pallasites

Education and Public Outreach: Meteorites

Asteroid Disruption: Artificial and Natural

Asteroid Studies: From the Lab to the Main Belt

Asteroid Photogeology

Asteroid Discovery and Exploration

Mercury

Thermal and Magmatic Evolution of the Moon

Composition and Structure of the Lunar Crust: Samples

Composition and Structure of the Lunar Crust: Remote Sensing

Tuesday Evening, March 8, 6:00 p.m. (continued)

Samples and Spectroscopy: Insights into the Lunar Crust

Moon: Apollo-Lunokhod Legacy

Education and Public Outreach: Moon

Impacts I: Modeling and Experiments

Impacts II: Terrestrial Craters

Materials Analogs: Living in a Material World

Mars Rovers and Landers

Mars: Large Volcanos and Lava Flows

Martian Layered Deposits

Mars: Terrestrial Analogs

Cryosphere: Icy Insights into Mars Paleoclimate

Martian Ground Ice: Theory, Modeling, Observations, and Terrestrial Analogs

Seasonal Ice Processes

Icy Surface-Atmosphere Interaction

Titan Everything

Atmospheres: Observations and Processes

Venus

Planetary Mission Concepts

Environmental Analogs: Not Exactly Club Med

Data Tools, Access, and Archiving

Education and Public Outreach: Community Engagement

Education and Public Outreach: Scientist Engagement in Education and Public Outreach

Education and Public Outreach: Undergraduate Education

Education and Public Outreach: Training the Next Generation of Scientists and Engineers

Education and Public Outreach: High School Research/Competition

Education and Public Outreach: K–12 Resources

Wednesday Morning, March 9, 8:30 a.m.

Waterway Ballroom 1	Mars Sediment Revelations: Genesis, Chronicles, and Landing Site Lamin(t)ations
Waterway Ballroom 4	Early Solar System Reservoirs and Processes I: Refractory Materials, Isotopic Anomalies, and Their Solar Origins
Waterway Ballroom 5	SPECIAL SESSION: Comet Hartley 2 and Related Bodies, *In Situ* and Remote I
Waterway Ballroom 6	Composition and Structure of the Lunar Crust from Samples and Spectroscopy
Montgomery Ballroom	Impact Experiments

Wednesday Afternoon, March 9, 1:30 p.m.

Waterway Ballroom 1	Mars Alteration: Phyllosilicates, Sulfates, and Soils
Waterway Ballroom 4	Early Solar System Reservoirs and Processes II: Chondrules and Amoeboid Olivine Aggregates
Waterway Ballroom 5	SPECIAL SESSION: Comet Hartley 2 and Related Bodies, *In Situ* and Remote II
Waterway Ballroom 6	Mare Basalts from Source to Eruption
Montgomery Ballroom	Venus: Atmosphere, Surface, and Interior
followed at 3:30 p.m. by	
	Shocked Mineral Grains: Recorders of Impacts

Thursday Morning, March 10, 8:30 a.m.

Waterway Ballroom 1	Exobiology I: Habitability of Mars
followed at 10:30 a.m. by	
Waterway Ballroom 1	Exobiology II: Biomarkers, Building Blocks, and Bacteria
Waterway Ballroom 4	SPECIAL SESSION: Results from Hayabusa!
Waterway Ballroom 5	Planetary Dynamics and Tectonics
Waterway Ballroom 6	Planetary Differentiation: Cores and Mantles

Thursday Afternoon, March 10, 1:30 p.m.

Waterway Ballroom 1	Brines, Gullies, and the Cryosphere
followed at 3:15 p.m. by	
	Acid vs. Alkaline: The Noachian-Hesperian Transition on Mars
Waterway Ballroom 4	Dusty Horizons: Interplanetary, Interstellar, and Cometary Particles
Waterway Ballroom 5	Primitive Meteorites I: Diversity
Waterway Ballroom 6	Lunar Surface and Volatiles: Interaction with the Space Environment
Montgomery Ballroom	Mini-Mimas and Those Battered Saturnian Satellites

Thursday Evening, March 10, 6:00 p.m.

Town Center Exhibit Area	Poster Session II
	Giant Planets, Rings, and Other Things
	Icy Surfaces and Interiors
	Volcanism in the Outer Solar System
	Small Bodies: Outer Solar System and Meteors
	A Pre-Dawn Perspective — Vesta and the HEDs
	Dusty Horizons I: Interplanetary Dust Particles and Micrometeorites
	Dusty Horizons II: Stardust

Thursday Evening, March 10, 6:00 p.m. (continued)

Primitive Meteorites I: Diversity

Primitive Meteorites II: Carbonaceous Chondrites and New Minerals

Organics and Volatiles in Chondritic Meteorites and the Solar Wind

SNC Meteorites: Igneous and Alteration Processes

Mars Alteration: Carbonates, Sulfates, Chlorides, and Phyllosilicates

Igneous Geochemistry of the Martian Surface

Crusty Mars and the Antarctic: Brines, Clathrates, Hydrates, Salts, Gullies, and Methane

Field and Laboratory Analogs for Martian Alteration

Martian Fanclub

Mars Fluvial Processes and Hydrology

Mars Aeolian Processes: Dust, Devils, Dunes, and Analogs

The Medusae Fossae Formation

Martian Pits and Caves

Martian Impact Crater Statistics and Their Implications

Geology of Martian Impact Craters and Basins

Impact Processes on Mars: Geology, Mineralogy, and Alteration

Mars Data Analysis, Processing, and Global Mapping

Exobiology

Igneous Processes: Lavas, Volcanos, and Geochemistry

Planetary Differentiation

Planetary Dynamics and Tectonics

Lunar Impacts: Timing, Morphology, and Tectonics

Moon: Datasets, Catalogs, and Archives

The Moon as an Airless Body

The Dust Bin: Lunar Soil and Regolith Processes

Moon: Remote Sensing Nuts and Bolts

Moon: Missions and Samples

Mars Instruments: Methods and Calibrations for the Mars Science Laboratory and the Mars Reconnaissance Orbiter

Instrument and Payload Concepts

Friday Morning, March 11, 8:30 a.m.

Waterway Ballroom 1	Mars Aeolian Processes: Suspension, Saltation, and Bedform Migration
followed at 10:15 a.m. by	
	Mars Geomorphology: Fluvial
Waterway Ballroom 4	Early Solar System Reservoirs and Processes III: Volatiles in Nebular Materials and the Solar Wind
Waterway Ballroom 5	Vesta and HED Meteorites: The Pre-Dawn Perspective
Waterway Ballroom 6	Lunar Impacts I: Timing and Causes of Lunar Bombardment

Friday Afternoon, March 11, 1:30 p.m.

Waterway Ballroom 1	From Mantle to Crust: Martian Petrology and Geochemistry
Waterway Ballroom 4	Primitive Meteorites II: Thermal and Aqueous Alteration, Shock, and Awe
Waterway Ballroom 5	Coldmember: Icy Ocean Worlds
Waterway Ballroom 6	Lunar Impacts II: Basins, Craters, and Impact Melts

Print Only

Interplanetary and Presolar Dust

Cosmochemical Origins: Photochemistry, Transport, and Disk Evolution

Cosmochemistry, Disk Processes, and Meteorites

Small Bodies

Differentiated Meteorites

Planetary Dynamics and Tectonics

Mercury

Moon

Impacts

Igneous Processes

Mars

Exobiology

Planetary Atmospheres

Outer Solar System Satellites and Rings

Mission, Instruments, and Payload Concepts

Data Tools, Access, and Archiving

Education and Public Outreach