

Program



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Monday Morning, March 20, 8:30 a.m.

Waterway Ballroom 1	M101	Lunar Volcanism
Waterway Ballroom 4	M102	Special Session: Mars Volatile Surface-Atmospheric Interactions: Past and Present
Waterway Ballroom 5	M103	Titan: A Moon that Resembles a Planet
Waterway Ballroom 6	M104	Giant Impacts and Late Accretion Impacts
Montgomery Ballroom	M105	Ceres: Features, Composition, and Evolution

Monday Afternoon, March 20, 1:30 p.m.

Waterway Ballroom 4 and 5	M141	PLENARY SESSION: Masursky Lecture and Award Presentations
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Monday Afternoon, March 20, 2:30 p.m.

Waterway Ballroom 1	M151	Roll Over, Magma Ocean: Crystallization and Overturn in the Lunar Magma Ocean
Waterway Ballroom 4	M152	Mars Atmosphere: That Was Then, This Is Now
Waterway Ballroom 5	M153	Planetary Spatial Data Infrastructure I: Enabling Exploration and Research Across the Solar System
Waterway Ballroom 6	M154	Planetary Cryospheres and Polar Processes I: Not Mars
Montgomery Ballroom	M155	Special Session: Large Igneous Provinces in the Solar System

Monday Afternoon, March 20, 5:30 p.m.

Waterway Ballroom 4 and 5	NASA Headquarters Briefing <i>immediately followed by Opening of Exhibits in the Town Center Exhibit Hall</i>	
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Tuesday Morning, March 21, 8:30 a.m.

Waterway Ballroom 1	T201	Looking at the Dynamic Moon: Lunar Regolith Evolution
Waterway Ballroom 4	T202	Constraining Martian Climate and Environmental History from Mineralogy
Waterway Ballroom 5	T203	Science in the Cold: Icy Satellites of the Outer Solar System
Waterway Ballroom 6	T204	Special Session: IODP-ICDP Expedition 364 to the Chicxulub Impact Crater
Montgomery Ballroom	T205	Comet 67P/Churyumov-Gerasimenko and Other Comets

Tuesday Afternoon, March 21, 1:30 p.m.

Waterway Ballroom 1	T251	Magnetization and Weathering of the Lunar Surface
Waterway Ballroom 4	T252	From Mud to Mountain: Curiosity's Geologic Traverse Across Gale Crater
Waterway Ballroom 5	T253	Skating on Thin Ice: Europa and Enceladus
Waterway Ballroom 6	T254	Planetary Cryospheres and Polar Processes II: Mars
Montgomery Ballroom	T255	Giving Shape to Impact Craters

Tuesday Evening, March 21, 6:00 p.m.

Town Center Exhibit Area

POSTER SESSION I

T301	Special Session: IODP-ICDP Expedition 364 to the Chicxulub Impact Crater
T302	Giant Impacts and Late Accretion Impacts
T303	Giving Shape to Impact Craters and Their Numbers
T304	Shock Metamorphism
T305	Special Session: Mars Volatile Surface-Atmospheric Interactions: Past and Present
T306	Planetary Cryospheres and Polar Processes III: From Mars to Pluto
T307	Planetary Cryospheres and Polar Processes IV: Models, Algorithms, Laboratory, and Analogs
T308	Exobiology: Searching for (Signs of) Life High and Low, Near and Far
T309	Titan: A Moon that Resembles a Planet
T310	Ice Breakers: Satellites of the Outer Solar System
T311	New Horizons Views of Pluto and Charon: So Long and Thanks for All the Bits
T312	Ceres: Mission Results from Dawn
T313	Asteroid and Comet Missions: Targets, Instruments, and Science
T314	Outer Planets Mission Concepts: Out in the Cold
T315	Lunar Volcanism and Tectonism
T316	Volcanic Processes
T317	Volcanic Processes on Silicate Bodies: Explosive Volcanism
T318	Volcanic Processes on Silicate Bodies: Effusive Volcanism
T319	Lunar Geophysics
T320	Magnetization and Weathering of the Lunar Surface
T321	Lunar Surface Properties and Potential Landing Sites: A Challenge of Today and Our Destiny of Tomorrow
T322	Lunar Mission Concepts
T323	K-12 Education
T324	Higher Education
T325	Public Engagement
T326	Workforce Training
T327	Protoplanetary Disk Composition and Evolution
T328	CAIs, Isotopes, and Early Processes
T329	Chondrules, Metals, Sulfides, and Chromites
T330	Genesis
T331	Atmospheres and Plasma

Tuesday Evening Poster Session (continued)

T332	Keeping Track of Meteors
T333	Martian Meteorites: Geochemistry and Such
T334	Martian Craters and Impact Processes
T335	Geology and Chemostratigraphy of Gale Crater
T336	Opportunity Rover Observations
T337	Characterizing Mars Through Orbital Spectroscopy
T338	Spectroscopy of Mars Analog Materials
T339	Investigations of Amorphous Materials as Mars Analogs
T340	Material Analogs (Both Physical and Chemical)
T341	Mars Mission Concepts
T342	Investigations of Mars Analog Field Sites
T343	Mars: Geologic Mapping
T344	Planetary Spatial Data Infrastructure II: Geologic Maps and Planetary Mapping
T345	Planetary Spatial Data Infrastructure III: Analysis Tools and Data Delivery Systems
T346	Planetary Spatial Data Infrastructure IV: New Techniques, Datasets, and Instrument Calibration Advances

Wednesday Morning, March 22, 8:30 a.m.

Waterway Ballroom 1	W401	A Volatile Moon: From the Interior to the Surface
Waterway Ballroom 4	W402	Martian Igneous and Hydrothermal Processes from Orbit and on the Surface
Waterway Ballroom 5	W403	Differentiated Meteorites and Their Parent Asteroids
Waterway Ballroom 6	W404	Rocky Clues About Impact Cratering Processes
Montgomery Ballroom	W405	New Horizons Views of Pluto and Charon: So Long and Thanks for All the Bits
<i>followed at 10:30 a.m. by</i>		
Montgomery Ballroom	W406	Chondritic Components: Insights from Experiments

Wednesday Afternoon, March 22, 1:30 p.m.

Waterway Ballroom 1	W451	Exobiology: Searching for (Signs of) Life High and Low, Near and Far
Waterway Ballroom 4	W452	Mars Sedimentology and Stratigraphy
Waterway Ballroom 5	W453	Martian Meteorite Madness: Mixing on a Variety of Scales
Waterway Ballroom 6	W454	Protoplanetary Disk Composition and Evolution
Montgomery Ballroom	W455	Volcanic Processes on Silicate Bodies

Thursday Morning, March 23, 8:30 a.m.

Waterway Ballroom 1	R501	Polar Ice Deposits on Mercury and More
<i>followed at 10:15 a.m. by</i>		
Waterway Ballroom 1	R502	Lunar Petrology and Geochemistry: Experiments and Sample Studies
Waterway Ballroom 4	R503	Water on Mars I
Waterway Ballroom 5	R504	Atmosphere and Loathing: Aeolian Processes on Mars
Waterway Ballroom 6	R505	Small Impacts and Small Impactors
Montgomery Ballroom	R506	Presolar Grains and Other Small Particles

Thursday Afternoon, March 23, 1:30 p.m.

Waterway Ballroom 1	R551	Lunar Impact Cratering
<i>followed at 3:15 p.m. by</i>		
Waterway Ballroom 1	R552	Lunar Crustal Evolution: Insights from Lunar Basins
Waterway Ballroom 4	R553	Red Rovers, Red Rovers, Send Data Right Over: In Situ Observations and Terrestrial Studies to Explain Them
Waterway Ballroom 5	R554	Terrestrial Planet Differentiation: Everywhere Every Way
<i>followed at 3:15 p.m. by</i>		
Waterway Ballroom 5	R555	Water on Mars II
Waterway Ballroom 6	R556	CAIs, Chondrules, and Early Processes
Montgomery Ballroom	R557	Unveiling Venus: New Science from Earth's Sister Planet

Thursday Evening, March 23, 6:00 p.m.

Town Center Exhibit Area	POSTER SESSION II	
R601	Lunar Petrology and Geochemistry: Experiments and Sample Studies	
R602	Elements and Magma Oceans: Terrestrial Planet Differentiation	
R603	Psyche Mission and Friends: Metal Explorers	
R604	Differentiated Meteorites I: HEDs, Mesosiderites, and Brachinites	
R605	Differentiated Meteorites II: Ureilites, Angrites, and Others	
R606	Small Body Planetary Mission Concepts	
R607	Asteroids: Structure, Physical Properties, and Spectra	
R608	Geodynamics and Tectonics Across Scales: Outside, Inside Out Livin' la Geodynamica Loca	
R609	Venus Exploration and Science	
R610	Mercury: From Crust to Core	
R611	Atmosphere and Loathing: Surface-Atmosphere Interactions Across the Solar System	
R612	Presolar Grains and Other Small Particles	
R613	Chondrites: Whole Rocks and Clasts	
R614	Chondrite Parent Bodies, Alteration, and Organics	
R615	OSIRIS-REx and Hayabusa2 Missions	
R616	Environmental Analogs I: Robotic Rover Strategies	
R617	Environmental Analogs II: Volcanic/Igneous Terrains	
R618	Environmental Analogs III: Geophysical Techniques	
R619	Environmental Analogs IV: Transport Processes	
R620	Environmental Analogs V: Humans Underwater and at High Altitudes	
R621	Environmental Analogs VI: Canada Mars Sample Return Analogue Mission 2016	
R622	Environmental Analogs VII: UK Space Agency Mars Utah Rover Field Investigations (MURFI)	
R623	Lunar Volatiles and the Lunar Exosphere: Interior to the Surface to Space	
R624	Lunar Crustal Evolution	
R625	Lunar Impact Cratering	
R626	Impacts and Planetary Atmospheres	

Thursday Evening Poster Session (continued)

R627	Terrestrial Impact Events and Processes
R628	Investigations of Potential Impact Sites
R629	Small Impacts and Small Impactors
R630	Martian Landforms and Orbital Investigations
R631	Mars: Fluvial and Lacustrine Environments
R632	Martian Recurring Slope Lineae (RSL), Gullies, and Landslides
R633	Geochemical Measurements from Landed Missions on Mars
R634	Experimental Studies Related to Mars Geochemistry and Mineralogy
R635	Future Mars Exploration and Landing Sites
R636	Topics in Advanced Curation
R637	Organic Compounds, Biosignatures, and Life Detection: Method Development, Instruments and Payloads
R638	Instrument Concepts I: Cameras and Imagery
R639	Instrument Concepts II: Spectroscopy
R640	Instrument Concepts III: Remote Sensing, Seismic, and Dust Sensors
R641	Instrument Concepts IV: In Situ and Drilling Tools
R642	Instrument Concepts V: Robotics, SmallSats, and Small Body Tools

Friday Morning, March 24, 8:30 a.m.

Waterway Ballroom 1	F701	Mercury: From Crust to Core
Waterway Ballroom 4	F702	Mars: Recurring Slope Lineae (RSL), Gullies, and Landslides
Waterway Ballroom 5	F703	Geodynamics and Tectonics Across Scales: Outside, Inside Out Livin' la Geodynamica Loca
Waterway Ballroom 6	F704	Chondritic Water, Organics, and Parent Body Processes
Montgomery Ballroom	F705	Asteroid and Small Body Assortment

Print Only

801	Chondrites and Their Components	814	Moon
802	Education and Public Engagement	815	Other Small Bodies
803	Environmental Analogs	816	Outer Planets, Satellites, and Rings
804	Exobiology	817	Planetary Atmospheres
805	Geodynamics and Tectonics	818	Planetary Cryospheres and Polar Processes
806	Igneous Materials	819	Planetary Differentiation
807	Impact Cratering	820	Planetary Mission Concepts
808	Instrument and Payload Concepts	821	Planetary Spatial Data Infrastructure
809	Keeping Track of Meteors	822	Presolar Grains and Other Small Particles
810	Martian Geochemistry and Petrology	823	Protoplanetary Disk Composition and Evolution
811	Martian Geomorphology	824	Special Session: IODP-ICDP Expedition 364 to the Chicxulub Impact Crater
812	Mercury	825	Venus
813	Meteorite Studies		