

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.

Monday Morning, March 21, 8:30 a.m.

Waterway Ballroom 1	M101	Mars Geomorphology: Sedimentology/Stratigraphy, Impact-Related Features and Processes, and Gullies
Waterway Ballroom 4	M102	SPECIAL SESSION: Ceres Unveiled: Dawn Explores a New World
Waterway Ballroom 5	M103	Origin of the Terrestrial Planets: Dynamical, Experimental, and Isotopic Constraints
Waterway Ballroom 6	M104	Mars Atmosphere: Here Today, Gone Tomorrow
Montgomery Ballroom	M105	Mercury Inside Out

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

Waterway Ballroom 4 and 5	M141	PLENARY SESSION: Masursky Lecture and Award Presentations
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Monday Afternoon, March 21, 2:30 p.m.

Waterway Ballroom 1	M151	Moon from Near and Far: Results from Recent Lunar Missions
Waterway Ballroom 4 and 5	M152	SPECIAL SESSION: New Horizons at Pluto! First Year of Mapping
Waterway Ballroom 6	M153	Martian Aeolian Processes: MSL at the Bagnold Dune Field
Montgomery Ballroom	M154	Planetary Differentiation: So Metal

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

Waterway Ballroom 1	T201	Lunar Volatiles: Microanalysis, Remote Sensing, and Everything in Between
Waterway Ballroom 4	T202	SPECIAL SESSION: Ceres Unveiled: The Next Layer
Waterway Ballroom 5	T203	Impacts: Observations
Waterway Ballroom 6	T204	Martian Mineralogy on the Surface and from Orbit
Montgomery Ballroom	T205	Chondrites: CAIs and Other Refractories

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

Waterway Ballroom 1	T251	Lunar Volcanism: New Perspectives on a Dynamic Moon
Waterway Ballroom 4	T252	SPECIAL SESSION: Planet 9 from Outer Space: Pluto Geology and Geochemistry
Waterway Ballroom 5	T253	Impacts: Numerical and Analytical Studies
Waterway Ballroom 6	T254	Aqueous Alteration on Mars: A Complex History
Montgomery Ballroom	T255	Chondrites: Chondrules

Tuesday Evening, March 22, 6:00 p.m.

Town Center Exhibit Area	POSTER SESSION I	
T301	Pluto: New Horizons Results from Atmospheres to Ices	
T302	Ceres Unveiled: Completely Naked	
T303	Mercury Inside Out	
T304	MESSENGER Global Data Products	
T305	Megabyte Impact Studies	
T306	Impact Studies: Targets and Ejecta	
T307	Terrestrial Craters and Crater-Like Features	
T308	Lunar Impact Crater Studies	
T309	Mars Impacts	
T310	Digital and Virtual Education Resources and Experiences	
T311	Engaging the STEM Pipeline in Mission and Instrument Design	
T312	Moon from Near and Far: Results from Recent Lunar Missions	
T313	Planetary Mission Concepts: Moon	
T314	Planetary Mission Concepts: Mars, Phobos, and Deimos	
T315	Planetary Mission Concepts: Small Bodies	
T316	Planetary Mission Concepts: Venus, Europa, Jupiter, Enceladus, Titan	
T317	Mars Landing Sites	
T318	Aqueous Alteration on Mars: A Complex History	
T319	Martian Mineralogy from Orbit and on the Surface	
T320	Spectroscopy of Minerals and Mars Analog Materials	
T321	Aeolian Processes: Something in the Air	
T322	Mars Atmosphere, Surface, and Fields: Top-Down and on the Ground	
T323	Asteroid Properties and Dynamics: Stuff They Do Before Crushing Your House	
T324	Genesis: Latest Results	
T325	Exoplanets... or Planet X?	
T326	Planetary Geologic Mapping	

Tuesday Evening Poster Session I (continued)

- T327 [Mars Geomorphology from Orbit](#)
- T328 [Martian Gullies, Slope Streaks, and Mass Wasting](#)
- T329 [Mars Geomorphology: Impact-Related](#)
- T330 [Mars Geomorphology: Roving on Mars](#)
- T331 [Geochemistry and Petrology of Mars](#)
- T332 [Chondrites: Chondrules](#)
- T333 [Chondrites: Clasts](#)
- T334 [Chondrites: CAIs, AOAs, and Other Refractories](#)
- T335 [Chondrites: New, Minor and Rare Components](#)
- T336 [Planetary Differentiation and the Origin of the Terrestrial Planets](#)
- T337 [Lunar Cratering Chronology: Time Will Crawl](#)
- T338 [Lunar Volcanism: New Perspectives on a Dynamic Moon](#)
- T339 [Lunar Volatiles: Science Fair for Grownups](#)
- T340 [Education and Engagement: Engaging Our Audiences](#)
- T341 [Education and Engagement: Improving Our Practice](#)
- T342 [Environmental Analogs: 2015 Canadian Mars Sample Return Analogue Mission](#)
- T343 [Environmental Analogs: Mars-Like terrains on Earth](#)
- T344 [Environmental Analogs: NASA Activities](#)
- T345 [Environmental Analogs: Venus, the Moon, and Europa](#)
- T346 [Meteorite Location and Acquisition](#)
- T347 [Material Analogs: Mars](#)
- T348 [Material Analogs: Airless Bodies and Outer Solar System](#)

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

- Waterway Ballroom 1 W401 [Merrily Measuring Moonlight: Insights from Remote Lunar Compositional Analysis](#)
followed at 10:15 a.m. by
- Waterway Ballroom 1 W402 [Cratering on the Moon](#)
- Waterway Ballroom 4 W403 [SPECIAL SESSION: Dwarf-Age Daydream: Surface Ice Dynamics on Dwarf Planets
Ceres and Pluto](#)
- Waterway Ballroom 5 W404 [Magmatism to Volcanism: A Hot, Stressed, Viscous, and Fragmented Journey](#)
- Waterway Ballroom 6 W405 [Mars Geomorphology: Fluvio-lacustrine Activity to Global Climate Implications](#)
- Montgomery Ballroom W406 [Origins of the Solar System: Isotope Cosmochemistry](#)

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

Waterway Ballroom 1	W451	(Is There) Life on Mars? Martian Exobiology Tools, Analogs, and Environments
<i>followed at 3:30 p.m. by</i>		
Waterway Ballroom 1	W452	Inside Out of Icy Satellites: Oceans to Plumes
Waterway Ballroom 4	W453	Planetary Spatial Infrastructure: At the Intersection of GIScience and Planetary Science
Waterway Ballroom 5	W454	Makeup of Mercury
<i>followed at 3:30 p.m. by</i>		
Waterway Ballroom 5	W455	Venus: Surface and Atmosphere
Waterway Ballroom 6	W456	Physicochemical Evolution of Mars from Mantle to Crust
Montgomery Ballroom	W457	Chondrites: Whole Rock

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

Waterway Ballroom 1	R501	Lunar Petrology and Geochemistry
Waterway Ballroom 4	R502	Titan: Real Cool World
Waterway Ballroom 5	R503	Dynamics to Tectonics: The Geodynamical Fate of Planetary Bodies
Waterway Ballroom 6	R504	Mars Ice: Under Pressure It Flows
Montgomery Ballroom	R505	Presolar, Interplanetary, and Cometary Dust

Thursday Afternoon, March 24, 1:30 p.m.

Waterway Ballroom 1	R551	Differentiated Meteorites: Multiple Parent Bodies and Multiple Models
Waterway Ballroom 4	R552	SPECIAL SESSION: NASA Planetary Science Division Facilities
Waterway Ballroom 5	R553	Comets and Carbonaceous Bodies: Not a Carbon Copy of Asteroids
Waterway Ballroom 6	R554	Recurring Slope Lineae on Mars
<i>followed at 3:30 p.m. by</i>		
Waterway Ballroom 6	R555	Martian High Latitude Ice and Polar Layered Deposits
Montgomery Ballroom	R556	Space Weathering: It Turns Out that Radiation Doesn't Give Rocks Super Powers
<i>followed at 3:30 p.m. by</i>		
Montgomery Ballroom	R557	Cosmochemical Origins: Disk Evolution

Thursday Evening, March 24, 6:00 p.m.

Town Center Exhibit Area	POSTER SESSION II	
R601	NASA Planetary Science Division Facilities	
R602	(Is There) Life on Mars? Martian Exobiology Tools, Analogs, and Environments	
R603	Exobiology: Organic Delivery, Habitable Environments, Analogs, and Tools	
R604	Chondrites: Impacts and Orbits	
R605	Chondrites: Organics	

Thursday Evening Poster Session II (continued)

- R606 [Chondrites: Parent Body Alteration](#)
- R607 [Chondrites: Whole Rock](#)
- R608 [Cosmochemical Origins](#)
- R609 [Stardust Mission and Interplanetary Dust Components](#)
- R610 [Presolar Grains](#)
- R611 [Comets Running Amok Around the Solar System Without Any Pants](#)
- R612 [Asteroid Spectroscopy and Classification: A Study of Lumping and Splitting Behavior in Human Beings](#)
- R613 [Core and Mantle Dynamics: Planetary Tumbleweeds](#)
- R614 [Planetary Dynamics/Tectonics: The Tectonic Force Awakens](#)
- R615 [Planetary Dynamics/Tectonics: Contraction Gives You Wrinkles](#)
- R616 [Differentiated Meteorites \(except HED\)](#)
- R617 [Howardite-Eucrite-Diogenite Meteorites](#)
- R618 [Irons and Stony Irons](#)
- R619 [Mars Geomorphology: Fluvio-lacustrine Activity](#)
- R620 [Lava-Ice Interactions on Mars](#)
- R621 [Planetary Volcanism: Lava Flows "Lava" You](#)
- R622 [Effusive and Explosive Volcanism](#)
- R623 [Cratering on Icy Satellites](#)
- R624 [Surfaces of Icy Satellites](#)
- R625 [Icy Satellite Tectonics](#)
- R626 [Oceans to Plumes of Icy Worlds](#)
- R627 [Titan](#)
- R628 [Rings Around the Outer Planets](#)
- R629 [Venus](#)
- R630 [Lunar Petrology, Geochemistry, and Chronology: Little Slices of Truth and Beyond](#)
- R631 [Space Weathering: Irradiate 'til it Hertz](#)
- R632 [Merrily Measuring Moonlight: Insights from Remote Lunar Compositional Analysis](#)
- R633 [Lunar Geophysics Using Sound and Vision and Serious Moonlight](#)
- R634 [Lunar Data Restoration, Archiving, and Analytical Tool Development](#)
- R635 [Planetary Spatial Infrastructure: Products](#)
- R636 [Planetary Spatial Infrastructure: Standards and Methods](#)
- R637 [Planetary Spatial Infrastructure: Services and Tools](#)
- R638 [Mars Geomorphology: Methods and Techniques](#)

Thursday Evening Poster Session II (continued)

- R639 [Mars Polar Processes/Cryosphere](#)
- R640 [Recurring Slope Lineae, Brines, and Deliquescence on Mars](#)
- R641 [In Situ Geochemical Measurements on Mars](#)
- R642 [Technical Advances in Measurements and Analysis](#)
- R643 [Instrument Concepts: Cameras and Imagery](#)
- R644 [Instrument Concepts: Raman Spectroscopy](#)
- R645 [Instrument Concepts: NIR, Gamma-Ray, Mass, and LIBS Spectrometers](#)
- R646 [Instrument Concepts: XRF and In Situ Devices](#)
- R647 [Instrument Concepts: Drilling and Sampling](#)
- R648 [Instrument Concepts: ISRU, Regolith, and Microgravity Experiments](#)
- R649 [Instrument Concepts: Propulsion, Seismology, GPR, and LIDAR](#)
- R650 [Instrument Concepts: Methods and Techniques for Analysis](#)

Friday Morning, March 25, 8:30 a.m.

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| Waterway Ballroom 1 | F701 | The Moon Who Soiled the Whirled: Lunar Physics and Surface Phenomena |
| Waterway Ballroom 4 | F702 | Exobiology: Organic Delivery, Habitable Environments, Analogs, and Tools |
| Waterway Ballroom 5 | F703 | Asteroids, NEOs, Meteors, and Other Space Oddities |
| Waterway Ballroom 6 | F704 | New Insights into High Temperature: Martian Petrology and Geochemistry |
| Montgomery Ballroom | F705 | Ziggy Faultscarps: Tectonics of the Outer Satellites |

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| 801 | Ceres Unveiled | 811 | Moon |
| 802 | Chondrites and Their Components | 812 | Origins of the Solar System |
| 803 | Education and Public Engagement | 813 | Outer Planets, Satellites, and Rings |
| 804 | Exobiology | 814 | Planetary Atmospheres: Earth and Mars |
| 805 | Impacts | 815 | Planetary Geologic Mapping |
| 806 | Mars Geochemistry and Petrology | 816 | Planetary Spatial Infrastructure |
| 807 | Mars Geomorphology | 817 | Pluto |
| 808 | Material and Environmental Analogs | 818 | Small Bodies |
| 809 | Meteorites | 819 | Venus |
| 810 | Missions and Instruments | | |