

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.

Morning, March 16, 8:30 a.m.

Waterway Ballroom 1	M101	Results from Recent Lunar Missions: LADEE, GRAIL, Chang'e-3
Waterway Ballroom 4	M102	Gale Crater, Mars: Geomorphology and Geochemistry
Waterway Ballroom 5	M103	Special Session: Rosetta
Waterway Ballroom 6	M104	Mercury: Swing Low, Sweet Chariot

Monday Afternoon, March 16, 1:30 p.m.

Waterway Ballroom 1	M140	Masursky Lecture and Award Presentations
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Monday Afternoon, March 16, 2:30 p.m.

Waterway Ballroom 1	M151	Lunar Volatiles
Waterway Ballroom 4	M152	Mars Polar Processes
Waterway Ballroom 5	M153	Chondrite Components I: Parent Body Alteration
Waterway Ballroom 6	M154	Geodynamics: The Force Awakens

Tuesday Morning, March 17, 8:30 a.m.

Waterway Ballroom 1	T201	Special Session: How Young Is Young?
Waterway Ballroom 4	T202	Geochemistry and Petrology of Martian Meteorites
Waterway Ballroom 5	T203	Ceres and Dawn: Your Last Chance to Talk About Ceres Before Dawn Data Wreck Your Theories
Waterway Ballroom 6	T204	Origins of the Solar System: Isotope Cosmochemistry
Montgomery Ballroom	T205	Hit Me Up! Impact Modeling and Experiments

Tuesday Afternoon, March 17, 1:30 p.m.

Waterway Ballroom 1	T251	Terrestrial Impact Cratering
Waterway Ballroom 4	T252	Mars Geomorphology and Climate: Fire and Ice
Waterway Ballroom 5	T253	Exobiology: Prebiotic Chemistry to Extremophile Biology
Waterway Ballroom 6	T254	Pluto, Kuiper Belt Objects, and New Horizons: Casting Light on Dark Worlds
<i>followed by 3:15 p.m.</i>		
Waterway Ballroom 6	T255	Planetary Differentiation
Montgomery Ballroom	T256	Early Solar System Chronology

Tuesday Evening, March 17, 6:00 p.m.

Town Center Exhibit Area	POSTER SESSION I
T601	Genesis: Still Busy After All These Years
T602	Mercury: Swing Low, Sweet Chariot
T603	Lunar Geophysics: GRAIL Results
T604	Lunar Geophysics
T605	Results from the Chang'e Missions
T606	How Young Is Young?
T607	Lunar Volatiles
T608	Lunar Impacts
T609	Terrestrial Impact Rock: Samples
T610	Mapping Terrestrial Impact Craters and Their Ejecta
T611	Thermal Impact Effects: Terrestrial Observations
T612	Isotope and Trace Element Geochemistry of Terrestrial Impactites
T613	Impacts: Experiments
T614	Impacts: Numerical Modeling
T615	Mars Atmosphere: Dust
T616	Mars Atmosphere: Volatile Exchange with the Surface
T617	Mars Geomorphology: General
T618	Mars Geomorphology: Fluvial/Lacustrine Features
T619	Mars Geomorphology: Gale Crater and Meridiani Planum
T620	Mars Geomorphology: Structures and Tectonics
T621	Mars Geomorphology: Ice and Periglacial Processes
T622	Mars Polar Processes
T623	Phobos and Deimos: Mars' Little Messengers of Fear and Dread
T624	Geochemistry and Petrology of Martian Meteorites
T625	Mars Analogs
T626	Environment Analogs (Including Terrestrial Operational Analogs)
T627	Material Analogs (Including Physical and Chemical)

Tuesday Evening, Poster Session I (continued)

- T628 [Small Body Dynamics: Rock and Roll Forever](#)
- T629 [Vesta: It Must be Midday Now that Dawn Has Passed](#)
- T630 [Ceres As It Grows to an Ominous Size in Dawn's Headlights](#)
- T631 [Rosetta](#)
- T632 [Chondrites and Their Components I: Parent Body Alteration](#)
- T633 [Pluto, Kuiper Belt Objects, and New Horizons: Casting Light on Dark Worlds](#)
- T634 [Stardust Mission and Cosmic Dust](#)
- T635 [Presolar Grains](#)
- T636 [Early Solar System Chronology](#)
- T637 [Isotope Cosmochemistry: Analytical Method Advancements](#)
- T638 [Isotope Cosmochemistry: Origins of Isotope Heterogeneities](#)
- T639 [Exoplanet Toolkits](#)
- T640 [Exobiology: Prebiotic Chemistry to Extremophile Life](#)
- T641 [Geodynamics: The Force Awakens](#)
- T642 [Advanced Curation](#)
- T643 [Planetary Mission Concepts: Lunar Missions](#)
- T644 [Planetary Mission Concepts: Mars Missions](#)
- T645 [Planetary Mission Concepts: Mars Landing Sites](#)
- T646 [Planetary Mission Concepts: Small Body Missions](#)
- T647 [Planetary Mission Concepts: Venus, Io, Europa, Enceladus, and Titan](#)
- T648 [Education and Public Outreach: Expanding Our Reach Through Collaborative Programs and Lessons Learned](#)
- T649 [Education and Public Outreach: Public Outreach Events](#)
- T650 [Education and Public Outreach: Engaging Audiences Through Techniques, Tools, and Activities](#)
- T651 [Education and Public Outreach: Student Instruments, Experiments, and Experiences](#)
- T652 [Education and Public Outreach: Tools and Practices for Scientists and Engineers](#)

Wednesday Morning, March 18, 8:30 a.m.

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| Waterway Ballroom 1 | W301 | Lunar Samples, Petrology, and Geochemistry: Little Slices of Truth and Beyond |
| Waterway Ballroom 4 | W302 | Mars Geomorphology: Recurring Slope Lineae, Slope Streaks, and Gullies |
| Waterway Ballroom 5 | W303 | Special Session: Early Results from the MAVEN Mission I |
| Waterway Ballroom 6 | W304 | Presolar, Interplanetary, and Cometary Dust |

Wednesday Afternoon, March 18, 1:30 p.m.

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| Waterway Ballroom 1 | W351 | The Lunar Crust: New Constraints from Near and Far |
| Waterway Ballroom 4 | W352 | Mars Low-Temperature Geochemistry and Mineralogy |
| Waterway Ballroom 5 | W353 | Special Session: Early Results from the MAVEN Mission II |
| Waterway Ballroom 6 | W354 | Small Bodies: Accumulation to Disaggregation with Some Nifty Tricks in Between |

Thursday Morning, March 19, 8:30 a.m.

Waterway Ballroom 1	R401	Aeolian Processes
Waterway Ballroom 4	R402	The Evolution of Mars: From the Interior to the Atmosphere
Waterway Ballroom 5	R403	Planetary Volcanism: If You Can't Stand the Heat, Get Out of the Mantle
Waterway Ballroom 6	R404	Chondrite Components II: All Things Refractory

Thursday Afternoon, March 19, 1:30 p.m.

Waterway Ballroom 1	R451	Lunar Surface Properties and Processes from a Distance
Waterway Ballroom 4	R452	Special Session: Tracing the Evolution of the Ancient Martian Atmosphere and Climate
Waterway Ballroom 5	R453	Differentiated Meteorites and Bodies
Waterway Ballroom 6	R454	Chondrite Components III: Fine-Grained, Organics, and Completing a Chondrite

Thursday Evening, March 19, 6:00 p.m.

Town Center Exhibit Area	POSTER SESSION II	
R701	Programmatic Updates: MEPAG and SSERVI	
R702	Informatics: Databases and Computational Tools	
R703	Planetary Cartography	
R704	Lunar Surface Properties and Processes from a Distance	
R705	Lunar Space Weathering and Regolith Processes	
R706	The Lunar Crust: New Results from Near and Far	
R707	Lunar Meteorites: The Moon Keeps on Giving	
R708	Lunar Samples, Petrology, and Geochemistry: Little Slices of Truth and Beyond	
R709	The Moon in the Laboratory	
R710	New Views of the Moon: Models, and Improvements to Lunar Data Analysis	
R711	Planetary Volcanism: If You Can't Stand the Heat, Get Out of the Mantle	
R712	Near Earth and Potentially Hazardous Objects: Best Seen and Not Heard	
R713	Crater Counting Throughout the Solar System	
R714	Properties of Impact Craters on Mars and Titan	
R715	Products of Shock Metamorphism	
R716	Atmospheres: Time Variability in the Outer Solar System	
R717	Aeolian Processes	
R718	Outer Planetary Bodies: Titan	
R719	Outer Planetary Bodies: Plumes and Vents	
R720	Outer Planetary Bodies: From the Depths to the Rings	
R721	Advances in Microscopy and Spectroscopy	
R722	Instruments and Payload Concepts: Drilling and Sampling	
R723	Instruments and Payload Concepts: Dust and Radiation	

Thursday Evening, Poster Session II (continued)

- R724 [Instruments and Payload Concepts: Cameras and Imagery](#)
- R725 [Instruments and Payload Concepts: Raman Spectroscopy](#)
- R726 [Instruments and Payload Concepts: Spectroscopy](#)
- R727 [Instruments and Payload Concepts: For Planetary Science](#)
- R728 [Early Results from the MAVEN Mission: Interactions with Solar Wind and Comet Siding Spring](#)
- R729 [Early Results from the MAVEN Mission: Ions and the Ionosphere](#)
- R730 [Early Results from the MAVEN Mission: Upper Atmospheric Structure and Composition](#)
- R731 [Ancient Martian Climate and Atmosphere](#)
- R732 [Alteration on Mars: The View from Orbit](#)
- R733 [Mars Rover and Lander Observations: Geochemistry, Mineralogy, and Data Processing](#)
- R734 [Mars Geomorphology: Mapping](#)
- R735 [Mars Geomorphology: Techniques](#)
- R736 [Mars Geomorphology: Recurring Slope Lineae, Slope Streaks, and Gullies](#)
- R737 [Mars Laboratory Experiments and Computer Models](#)
- R738 [Comets and Meteors: Things With Tales](#)
- R739 [Chelyabinsk: A Worthy Fall](#)
- R740 [Itokawa: Musing Over the Big Picture Through Small Grains](#)
- R741 [Chondrites: Making and Breaking Parent Bodies](#)
- R742 [Chondrites and Their Components II: All Things Refractory](#)
- R743 [Chondrites and Their Components III: Other](#)
- R744 [Differentiated Meteorites and Bodies: Irons, Pallasites, and Mesosiderites](#)
- R745 [Differentiated Meteorites and Bodies: Primitive, Ungrouped, and Anomalous Achondrites](#)
- R746 [Differentiated Meteorites and Bodies: Howardites-Eucrites-Diogenites](#)
- R747 [Small Body Surfaces: Remote Sensing, Space Weathering, and Radiation](#)
- R748 [Venus: New Flashes of Insight](#)
- R749 [Ionospheres and Isotopes](#)
- R750 [Origins of the Solar System: Disk Evolution and Accretion](#)

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

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| Waterway Ballroom 1 | F501 | Early Lunar Evolution: Accretion to Crustal Formation and More |
| Waterway Ballroom 4 | F502 | Volatile Elements on Mars |
| Waterway Ballroom 5 | F503 | Outer Planetary Bodies: Experiments and Investigations into the Depths |
| Waterway Ballroom 6 | F504 | Venus: New Flashes of Insight |
| <i>followed by 10:15 a.m.</i> | | |
| Waterway Ballroom 6 | F505 | Small Body Space Weathering: Sunny with a Chance of Amorphization |

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

Waterway Ballroom 1	F551	Later Lunar Evolution: How Old is Old?
Waterway Ballroom 4	F552	Mineralogy Measured by Missions to Mars
Waterway Ballroom 5	F553	Outer Planetary Body Processes: Crust to Surface
Waterway Ballroom 6	F554	High-Pressure Mineral Polymorphs
<i>followed by 3:15 p.m.</i>		
Waterway Ballroom 6	F555	Impact Craters on Mars and the Moon

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801	Aeolian Processes
802	Chondrites and Their Components
803	Differentiated Meteorites and Bodies
804	Education and Public Outreach
805	Environment and Material Analogs
806	Exobiology: Extremophile Life
807	Geodynamics: The Force Awakens
808	Impacts: Moon and Mars
809	Impacts: Terrestrial
810	India's Mars Orbiter Mission
811	Informatics and Cartography
812	Mars Geomorphology
813	Mars Petrology, Geochemistry, and Spectroscopy
814	Mercury
815	Meteoritic Nanodiamonds
816	Micrometeorites
817	Missions and Instruments
818	Moon: From Core to Crust
819	Moon: From Crust to Space
820	Origins of the Solar System: Disk Evolution
821	Outer Planetary Bodies: From the Depths to the Rings
822	Outer Planetary Bodies: Titan
823	Planetary Differentiation
824	Planetary Volcanism: If You Can't Stand the Heat, Get Out of the Mantle
825	Remote Sensing of Planetary Atmospheres: Ukrainian Perspectives
826	Small Bodies
827	Venus: New Flashes of Insight