

# Mars Exploration Science Monthly Newsletter

A publication of the Mars Program Office and the Mars Exploration Program Analysis Group (MEPAG)

July 2017

## Mars Science News

### **34<sup>TH</sup> MEPAG Meeting Presentations Posted**

MEPAG held its 34th meeting virtually on July 10, 2017. Thank you to the 110 attendees for participating and for the feedback on the MEPAG presentation to NASEM Mid-term Decadal Survey Committee. Presentations and meeting outcomes, including a summary document, are posted on the MEPAG meeting webpage: <http://mepag.nasa.gov/meetings.cfm>

### **Upcoming Science Meetings**

Abstract deadlines are rapidly approaching for the Geological Society of America Annual Meeting (abstract deadline August 1st); and for the American Geophysical Union Fall Meeting (abstract deadline August 2nd).

- **The GSA schedules are being finalized; some current Mars-relevant sessions are included below**

Conference is October 22-25, 2017 @ Seattle, WA, USA

T207. Volcanism and Tectonism across the Solar System

T199. Basalt Weathering on Earth and Mars

- **Some Mars-relevant AGU sessions**

Conference is December 11-15 @ New Orleans, LA, USA

[P001. Accretion, Differentiation and Early Planetary Evolution](#)

[P002. A Persistent Habitable Environment in Gale Crater, Mars: How Five Years of Exploration with the Curiosity Rover Have Changed Our View of Mars and its Potential for Life](#)

[P006. Planetary Habitability and the Main Control Factors.](#)

[P019. Investigating mineral-organic interactions relevant to astrobiological systems on Mars and other planetary bodies](#)

[P024. Mars Underground: Subsurface Waters, Diagenesis, Hydrothermal/Metamorphic Processes, and their Importance for Planetary Evolution](#)

[P026. Nature and Evolution of Climate and Water on Early Mars](#)

[P031. Planetary Thermophysics](#)

[P034. Present-Day Landscape Evolution on Mars](#)

[P035. Processes in the present-day Atmosphere of Mars](#)

[P043. The nature of soil across Earth and Mars](#)

[P048. Trace Elements on Mars and Earth: Where are the Biosignatures?](#)

Also of possible interest to Phobos and Deimos researchers:

[P016. Geology and Geophysics of Satellites and Dwarf Planets](#)

[P017. Geology and Geophysics of Small Solar System Bodies](#)

## Near-term Due Dates (next three months)

Due	Project
July 26	<b>49th Annual Division for Planetary Sciences Meeting</b> , Abstract Deadline
July 31	<b>European Planetary Science Congress 2017</b> , Registration Deadline
August 1	<b>2017 GSA Annual Meeting</b> , Abstract Deadline
August 1	<b>8th Planetary Crater Consortium Meeting</b> , Abstract Deadline
August 2	<b>American Geophysical Union Fall Meeting</b> , Abstract Deadline
August 3	<b>Habitable Worlds 2017: A System Science Workshop</b> , Abstract Deadline
August 29	<b>The Workshop on Modern Analytical Methods Applied to Earth, Planetary and Material Sciences II</b> , Abstract Deadline

## Upcoming Conferences and Workshops

[A note about “conferences” and this calendar of events](#)

- Missing NCTS#s (and forecasting deadline, if anomalous) can be sent to Barbara Saltzberg ([Barbara.A.Saltzberg@jpl.nasa.gov](mailto:Barbara.A.Saltzberg@jpl.nasa.gov)).
- If no deadline is noted: it is usually 90 days in advance — sometimes further in advance if the conference is “Heavily Attended.”
- Please do not assume our noting of NCTS# is complete. If you are unsure whether an event is a conference or not, or when the forecasting deadline may be, please consult with your NASA Center conference forecasting/travel unit.

### Third Quarter, 2017

July 23-28, 2017 Santa Fe, NM, USA	<b>Meteoritical Society Meeting</b> <a href="http://meteoriticalsociety.org/?page_id=18">http://meteoriticalsociety.org/?page_id=18</a> NCS#28933-17
July 24-28, 2017 Pasadena, CA, USA	<b>NASA Planetary Science Summer School</b> <a href="https://psss.jpl.nasa.gov/index.cfm">https://psss.jpl.nasa.gov/index.cfm</a>
August 8-10, 2017 Tartu, Estonia	<b>The Early History of Planetary Systems and Habitable Planets</b> <a href="https://sisu.ut.ee/eac">https://sisu.ut.ee/eac</a>
August 9-11, 2017 Flagstaff, AZ, USA	<b>8th Planetary Crater Consortium Meeting</b> <a href="http://www.planetarycraterconsortium.nau.edu/PCCMeeting.htm">http://www.planetarycraterconsortium.nau.edu/PCCMeeting.htm</a>
August 13-16, 2017 Hong Kong, China	<b>2017 International Symposium on Planetary Remote Sensing and Mapping</b> <a href="http://event.lsgj.polyu.edu.hk/prsm2017/">http://event.lsgj.polyu.edu.hk/prsm2017/</a> NCTS# 29650-17
August 15-17, 2017 Pasadena, CA, USA	<b>Low-Cost Planetary Missions Conference (LCPM-12)</b> <a href="http://www.lcpm12.org/">http://www.lcpm12.org/</a>
August 15 -18, 2017 Houston, TX, USA	<b>Accretion: Building New Worlds</b> <a href="http://www.hou.usra.edu/meetings/accretion2017/">http://www.hou.usra.edu/meetings/accretion2017/</a> NCTS# 28309-17

### Third Quarter, 2017 cont.

September 13-14, 2017 Irvine, CA, USA	<b>NRC's Committee on Astrobiology and Planetary Science (CAPS)</b> <a href="http://sites.nationalacademies.org/SSB/SSB_067577#Meetings_and_Events">http://sites.nationalacademies.org/SSB/SSB_067577#Meetings_and_Events</a>
September 17-22, 2017 Riga, Latvia	<b>European Planetary Science Congress</b> <a href="http://www.epsc2017.eu/">http://www.epsc2017.eu/</a>
September 18-22, 2017 Goettingen, Germany	<b>The Many Scales of the Universe: Galaxies, Their Suns and Their Planets</b> <a href="http://ag2017.uni-goettingen.de/">http://ag2017.uni-goettingen.de/</a>
September 18-22, 2017 Jeju Island, South Korea	<b>The 3rd COSPAR Symposium; Small Satellites for Space Research</b> Abstract Submission is now open <a href="https://cosparhq.cnes.fr/">https://cosparhq.cnes.fr/</a>
September 25-27, 2017 Jena, Germany	<b>Planet Formation and Evolution 2017</b> <a href="http://www.astro.uni-jena.de/~pfe2017/">http://www.astro.uni-jena.de/~pfe2017/</a> NCTS# 27623-17
September 25-29, 2017 Adelaide, Australia	<b>68th International Astronautical Congress</b> <a href="http://www.iac2017.org/">http://www.iac2017.org/</a> NCTS# 27783-17
September 25-29, 2017 Furnas, Azores, Portugal	<b>Geosciences for Understanding Habitability in the Universe</b> <a href="http://www.egu-galileo.eu/gc2-habitability/">http://www.egu-galileo.eu/gc2-habitability/</a>

### Fourth Quarter, 2017

October 2-6, 2017 Flagstaff, AZ, USA	<b>The Fourth International Conference on Early Mars</b> <a href="https://www.hou.usra.edu/meetings/earlymars2017/">https://www.hou.usra.edu/meetings/earlymars2017/</a>
October 10-12, 2017 Toulouse, France	<b>33rd International Meeting of Planetary Sedimentology: Mars, Titan, and Elsewhere</b> <a href="http://ims2017.sciencesconf.org">ims2017.sciencesconf.org</a>
October 15-20, 2017 Provo, UTA, USA	<b>Division of Planetary Sciences Meeting</b> <a href="https://dps.aas.org/">https://dps.aas.org/</a>
October 22 –25, 2017 Seattle, WA, USA	<b>2017 GSA Annual Meeting</b> <a href="https://www.geosociety.org/GSA/Events/Annual_Meeting/GSA/Events/gsa2017.aspx">https://www.geosociety.org/GSA/Events/Annual_Meeting/GSA/Events/gsa2017.aspx</a> NCTS# 28544-18
November 6-11, 2017 New Dehli, India	<b>9th International Conference on Geomorphology</b> <a href="http://www.icg2017.com/">http://www.icg2017.com/</a>
November 11-12, 2017 Budapest, Hungary	<b>The Workshop on Modern Analytical Methods Applied to Earth, Planetary and Material Sciences II</b> <a href="https://www.hou.usra.edu/meetings/methods2017/">https://www.hou.usra.edu/meetings/methods2017/</a>
<b>New!</b> November 11-15, 2017 Baltimore, MD, USA	<b>Planning Solary System Observations with JWST</b> <a href="#">Planning Solary System Observations with JWST</a>
November 13-17, 2017 Laramie, WY, USA	<b>Habitable Worlds 2017: A System Science Workshop</b> <a href="https://www.hou.usra.edu/meetings/habitableworlds2017/">https://www.hou.usra.edu/meetings/habitableworlds2017/</a>
November 14-16, 2017 Laurel, Maryland USA	<b>VEXAG Meeting #15</b> Applied Physics Laboratory (APL) <a href="http://www.lpi.usra.edu/vexag/">http://www.lpi.usra.edu/vexag/</a>

## Upcoming Conferences and Workshops cont.

Fourth Quarter, 2017 cont.		
Nov 26-Dec 1, 2017 Coyhaique, Chile	<b>Astrobiology 2017</b> <a href="http://astrobiology2017.org/">http://astrobiology2017.org/</a> NCTS# 28382-18	
December 4-8, 2017 Noordwijk, Netherlands	<b>51st ESLAB Symposium: Extreme Habitable Worlds</b> <a href="http://esaconferencebureau.com/2017-events/eslab2017">http://esaconferencebureau.com/2017-events/eslab2017</a>	
December 11-15, 2017 New Orleans, LA, USA	<b>American Geophysical Union Fall Meeting (AGU)</b> <a href="http://fallmeeting.agu.org/2016/2017-fall-meeting-new-orleans/">http://fallmeeting.agu.org/2016/2017-fall-meeting-new-orleans/</a>	
December 13-15, 2017 Noordwijk, The Netherlands	<b>JWST Solar System Workshop</b> <a href="https://www.cosmos.esa.int/web/jwst-ssws-2017/home">https://www.cosmos.esa.int/web/jwst-ssws-2017/home</a>	

## 2018

March 3-10 Bigsky, Montana, USA	<b>IEEE Aerospace Conference</b> <a href="http://www.aeroconf.org/">http://www.aeroconf.org/</a>
March 5, 2018	<b>Insight launch window opens</b>
March 5-9, 2018 Santiago, Chile	<b>Diverse Mundi (OPS-III): The Solar System in an Exoplanetary Context</b>
March 19-23, 2018 The Woodlands, TX, USA	<b>49th Lunar and Planetary Science Conference</b> <a href="http://www.eso.org/sci/meetings/2018/ops2018.html">http://www.eso.org/sci/meetings/2018/ops2018.html</a>
March 27-29, 2018 Washington, DC USA	<b>NRC's Committee on Astrobiology and Planetary Sciences (CAPS)</b> <a href="http://sites.nationalacademies.org/SSB/SSB_067577#Meetings_and_Events">http://sites.nationalacademies.org/SSB/SSB_067577#Meetings_and_Events</a>
April 23-27, 2018 San Gabriel Valley, CA, USA	<b>Differentiation: Building the Internal Architecture of Planets</b> <a href="https://www.hou.usra.edu/meetings/differentiation2018/">https://www.hou.usra.edu/meetings/differentiation2018/</a>
April 24-26, 2018 St. Louis, MO, USA	<b>Planetary Science Informatics and Data Analytics</b> <a href="https://psida.rsl.wustl.edu/">https://psida.rsl.wustl.edu/</a>
September 12-13, 2018 Irvine, CA, USA	<b>NRC's Committee on Astrobiology and Planetary Science (CAPS)</b> <a href="http://sites.nationalacademies.org/SSB/SSB_067577#Meetings_and_Events">http://sites.nationalacademies.org/SSB/SSB_067577#Meetings_and_Events</a>
Sept. 30-Oct. 3, 2018 Flagstaff, AZ, USA	<b>Bombardment: Shaping Planetary Surfaces and Their Environments</b> <a href="http://www.lpi.usra.edu/first-billion-years/">http://www.lpi.usra.edu/first-billion-years/</a>
November 26, 2018	<b>Insight landing</b>
December 10-14, 2018 Washington, DC USA	<b>American Geophysical Union Fall Meeting (AGU)</b>

## Seasons on Mars

	MY34	MY35	MY36
Start of Northern Spring / L <sub>s</sub> 0	5/05/2017	3/23/2019	2/07/2021
Start of Northern Summer / L <sub>s</sub> 90	11/20/2017	10/08/2019	8/25/2021
Start of Northern Autumn / L <sub>s</sub> 180	5/22/2018	4/08/2020	2/24/2022
Start of Northern Winter / L <sub>s</sub> 270	10/16/2018	9/02/2020	7/21/2022

## Special holidays to consider when scheduling conferences/workshops/meetings

Good Friday	4/14/2017	3/30/2018	4/19/2019	4/10/20
Rosh Hashanah	9/21/2017	9/10/2018	9/30/2019	9/19/20
Yom Kippur	9/30/2017	9/19/2018	10/09/2019	9/28/20
(Note that Jewish holidays start at sundown the previous evening)				
Thanksgiving Day, Canada	10/09/2017	10/08/2018	10/14/2019	10/12/20
Thanksgiving Day, U.S.	11/23/2017	11/22/2018	11/28/2019	11/26/20
Christmas Day	12/25/2017	12/25/2018	12/25/2019	12/25/20

## Editors

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Please send Mars Community Announcements and calendar items for inclusion in next month's newsletter to:

Barbara Saltzberg at [Barbara.A.Saltzberg@jpl.nasa.gov](mailto:Barbara.A.Saltzberg@jpl.nasa.gov)

This newsletter (and all previous months') is also posted on the MEPAG website: <http://mepag.jpl.nasa.gov>

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