



## March 2018 Newsletter

**\*\*The Planetary Sciences executive board is looking for volunteers to serve as leaders in the section. Please see the notice under 'Executive Announcements' below.\*\***

### Upcoming Deadlines & Events:

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- April 1, 2018: Abstract deadline for [Conference on Magnetospheres of the Outer Planets](#)
- April 4, 2018: Abstract deadline for [Mars Workshop on Amazonian and Present Day Climate](#)
- April 5, 2018: Abstract deadline for [Cryovolcanism in the Solar System](#)
- April 6, 2018: Regular abstract deadline/Early Bird Registration for [International Venus Conference 2018](#)

#### Upcoming Conferences

- March 18, 2018: [Planetary Science Deep Space SmallSat Studies Workshop](#), The Woodlands, TX
- March 19-23, 2018: [49<sup>th</sup> Lunar and Planetary Science Conference](#), The Woodlands, TX
- April 3-5, 2018: [Mars Exploration Program Analysis Group \(MEPAG\) Meeting](#), Washington, DC
- April 8-13, 2018: [European Geosciences Union General Assembly](#), Vienna, Austria
- April 12-13, 2018: [Southeastern Sectional Meeting of the Geological Society of America](#), Knoxville, TN
- April 25-27, 2018: [2<sup>nd</sup> International Mars Sample Return Conference](#), Berlin, Germany
- May 1-3, 2018: [Mercury: Current and Future Science of the Innermost Planet Meeting](#), Columbia, MD

- May 21-24, 2018: [Ocean Worlds 3: Water-Silicate Interactions](#), Houston, TX
- June 3-8, 2018: [15<sup>th</sup> Asia Oceania Geosciences Society](#), Honolulu, HI
- June 5-7, 2018: [Cryovolcanism in the Solar System](#), Houston, TX
- June 18-22, 2018: [Mars Workshop on Amazonian and Present Day Climate](#), Lakewood, CO
- July 9-13, 2018: [Conference on Magnetospheres of the Outer Planets](#), Boulder, CO
- July 14-22, 2018: [42<sup>nd</sup> COSPAR Scientific Assembly](#), Pasadena, CA
- August 27-30, 2018: [3<sup>rd</sup> Comparative Climatology of Terrestrial Planets](#), Houston, TX
- September 11-14, 2018: [International Venus Conference 2018](#), Niseko, Japan

### Executive Announcements:

- **PLANETARY SCIENCE SECTION LEADERSHIP OPPORTUNITIES**

The Planetary Sciences section is looking to expand the number of volunteers who help to lead and operate the various section activities throughout the year. If you are interested in serving your research community, and the AGU, please submit a notice of interest to the section Secretary, Michael Mischna, at [michael.a.mischna@jpl.nasa.gov](mailto:michael.a.mischna@jpl.nasa.gov) with the following information:

- Name
- Job and Employer
- The position(s) you are interested in from the list below
- A brief outline explaining your interest in the positions selected.

The positions will remain open until filled.

- **Fall Meeting Program Committee Member**

In this position, you will be responsible for planning the Planetary Sciences activities for the AGU Fall Meeting. This includes approving and merging sessions submitted by the community, determining poster vs. oral sessions, identifying special session formats, approving sessions for the Union schedule, all while ensuring diversity across disciplines and remaining within the Planetary Science section session allocation. It further involves organizing the final schedule of sessions for the Fall Meeting, and arranging other relevant Town Hall and prize lectures. Regular interaction with session conveners and chairs leading up to the Fall Meeting is likely. Your obligation includes ~20-30 hours over the course of the year, plus three days each in May and September to participate in Fall Meeting Program Committee

activities. You will work in a team of three Planetary Science members, including the section Secretary, for a term of 2-3 years. It is anticipated that at least a portion, if not all, of your AGU Fall Meeting registration will be compensated for your involvement.

- **Outstanding Student Paper Awards Coordinator**

In this position, you will be responsible for organizing the Outstanding Student Paper Awards (OSPA) activities for the section, including working with session liaisons to recruit judges, and encouraging section members to register as judges and submit scores. Regular emails should go out to the section and registered judges reminding them of their upcoming activities, and seeking 100% coverage of all student papers. You will also be responsible for choosing the section's OSPA winners. You will work alongside one other coordinator in this role, along with the section Secretary, with a term of 2 years. Your time commitment will be ~20-30 hours over the course of the year, largely between the months of October and January. It is anticipated that a portion of your AGU Fall Meeting registration will be compensated for your involvement.

- **Planetary Sciences Honors and Recognition Committee**

In this position, for which one must already be an AGU Fellow, you will be responsible for reviewing nominations for the Planetary Science section prizes (including the Whipple Award and Greeley Award) and selecting, along with the Executive Board, the award winners. You will also be responsible for reviewing all Planetary Science nominations for AGU Fellows, making a recommendation to the AGU Honors and Recognition Committee. You will work in a team of ~7 on the committee, with a term of 3 years. Your time commitment will be ~20-30 hours over the course of the year, largely between the months of March and June.

- **Planetary Sciences Nominations Committee**

In this role, you will actively seek out nominees for Executive Committee positions (including, but not limited to President-Elect, Secretary, Student Representative). Your responsibilities will be to identify no more than two candidates for each position from all submitted nominations to run in the section election. You will also be tasked with identifying candidates and soliciting nominations for the two Planetary Sciences section awards (the Whipple and Greeley awards). Much of your responsibility will be reaching out to the community and encouraging them to prepare nomination packages on behalf of worthy colleagues. The committee will be made up of four members, with terms varying from 2-4 years. Your time commitment is variable, but will likely be ~15-20 hours over the course of the year, primarily between the months of January and March.

## Planetary Science Notices

- **OCEAN WORLDS 3 CONFERENCE**

In the next of a series of Ocean Worlds meetings, the focus will be on the potential for silicate-water interactions to occur on Ocean Worlds beyond Earth, from a multi-disciplinary and inter-disciplinary perspective. As with past Ocean Worlds meetings, a primary motivation is to engender a cross-fertilization of ideas and expertise by soliciting contributions from both the Ocean Sciences and Planetary Sciences communities. Consequently, contributions are invited that address any aspects of this broad water-rock interaction theme, across the Planetary and Ocean Science fields, including geophysics, hydrogeology, geochemistry and microbiology. The meeting will be held at LPI from May 21st - 24th. Abstract deadline is March 7<sup>th</sup>, 2018.

The website is available here, <https://www.hou.usra.edu/meetings/oceanworlds2018/>.

- **PLANETARY ARCGIS WORKSHOP**

The Spacecraft Planetary Imaging Facility (SPIF) at Cornell University is offering a free workshop at the upcoming 49<sup>th</sup> LPSC on Sunday, March 18, on using ArcGIS for planetary image analysis, sponsored by the Regional Planetary Image Facility (RPIF) network. This will be an introductory level course accessible to participants with no prior ArcGIS experience. The workshop will run from 9:30 am to 4:30 pm and will cover topics including ArcGIS basics, spatial analysis, and map document production. Participants will conduct hands-on research using data from Mars Odyssey and Mars Global Surveyor that will be downloaded and processed for ingestion into ArcGIS as part of the workshop. Some introductory ISIS (<https://isis.astrogeology.usgs.gov/>) information will be provided as well. Participants will be given one-year ArcGIS licenses part of the workshop. Registration is required: <https://goo.gl/D9BTS1>. The deadline for registration is March 12, 2018. Please contact Zoe Learner Ponterio, SPIF Data Manager, for more information at [zap9@cornell.edu](mailto:zap9@cornell.edu).

- **CRYOVOLCANISM IN THE SOLAR SYSTEM WORKSHOP**

**Meeting Location and Date:** The Cryovolcanism in the Solar System workshop will be held June 5–7, 2018, at the Lunar and Planetary Institute, Universities Space Research Association (USRA), 3600 Bay Area Blvd, Houston, Texas 77058.

**Purpose and Scope:** This workshop aims to advance our understanding of the processes that may lead to extrusive and intrusive volcanism on the icy satellites, KBOs, and hydrous asteroids in our solar system. Specifically, we seek to resolve how and under what conditions volcanism and magmatism occur on these worlds and verify the likely mechanisms responsible for putative volcanic features and magmatic constructs that have been imaged by spacecraft.

We invite abstracts which focus on the generation, migration, and eruption of cryovolcanic fluids on the icy satellites, KBOs, and hydrous asteroids in our solar system. We welcome contributions pertaining to: the rheology and composition of aqueous solutions and other low-temperature liquids that may serve as cryovolcanic fluids; mechanisms for the transport of cryovolcanic fluids from the interior to the surface; laboratory work on low-temperature solutions, slurries, and cryogenic liquids; theoretical modeling and analysis of candidate cryovolcanic features; and plausible terrestrial analogs. Abstracts are due April 5, 2018.

We hope for broad participation from both the terrestrial volcanology and planetary science communities as we explore this important topic. A limited number of travel awards for students and early career scientists may be available. More information on the workshop itself, and instructions for applying for the travel award, may be found at the following website:

<https://www.hou.usra.edu/meetings/cryovolcanism2018/>

## FYIs

- **PUBLISH YOUR NOTICE IN THE AGU PLANETARY SCIENCES NEWSLETTER**

With a membership of over 6500 planetary scientists worldwide, your announcements and notices in the AGU Planetary Sciences newsletter will reach a wide range of professionals and students in precisely the areas in which you should advertise. If you have any job postings, conference announcements or other planetary-related material, please send it to [michael.a.mischna@jpl.nasa.gov](mailto:michael.a.mischna@jpl.nasa.gov) to be included in a future newsletter.