



Planetary Sciences

## April 2019 Newsletter

Greetings from Your Planetary Sciences Section Leadership!

An urgent reminder that session submissions for Fall Meeting 2019 are open (deadline: **17 April**). We are particularly interested in hearing about any sessions that we can highlight that will fit well with AGU's Centennial celebrations. This could be a regular session with a first or last talk offering a perspective of the field in the past 100 years.

To propose a session, go to:

[https://meetings.agu.org/fall-meeting-2019/?utm\\_medium=email#session-proposal](https://meetings.agu.org/fall-meeting-2019/?utm_medium=email#session-proposal)

[https://meetings.agu.org/fall-meeting-2019/?utm\\_medium=email#townhall-proposal](https://meetings.agu.org/fall-meeting-2019/?utm_medium=email#townhall-proposal)

[https://meetings.agu.org/fall-meeting-2019/?utm\\_medium=email#workshop-proposal](https://meetings.agu.org/fall-meeting-2019/?utm_medium=email#workshop-proposal)

Rosaly Lopes, President

Michael Mischna, President-elect

David Williams, Secretary

Sam Birch, Early Career Representative

Ashley Schoenfeld, Student Representative

Sarah Stewart, Past President

## Upcoming Deadlines & Events

For the latest Planetary Sciences updates and events, visit the section calendar.

### Upcoming Deadlines

- ROSES-2019: Emerging Worlds, Step-1 proposals: 16 April 2019

- ROSES-2019: Development and Advancement of Lunar Instrumentation, Step-1 proposals: 16 April 2019
- ROSES-2019: Earth Surface and Interior, Notice of Intent: 17 May 2019
- ROSES-2019: Planetary Data, Archiving, and Tools, Step-1 proposals: 9 May 2019

## Upcoming Conferences

- 7–12 April 2019: [EGU General Assembly](#), Vienna, Austria
- 1–2 May: AGU Fall Program Committee Meeting, Leesburg, VA
- 21–23 May 2019: [Ocean Worlds 4](#), Houston, TX
- 12–14 June: Planetary Geologic Mappers Meeting, U.S. Geological Survey, Flagstaff, AZ
- 18–20 June: 4th Planetary Data Workshop, Flagstaff, AZ

## Planetary Sciences Announcements/Updates

### 1. The Main Belt: A Gateway to the Formation and Early Evolution of the Solar System

**Date:** 4–7 June 2019

**Location:** Sardinia, Italy

**Website:** <http://www.iaps.inaf.it/sz/mainbelt2019/>

### 2. Journal Special Issue: Planetary Exploration of Habitable Environments

The journal *Life* (ISSN 2075-1729) is currently running a special issue titled "Planetary Exploration of Habitable Environments." Prof. Dr. Dirk Schulze-Makuch, Technical University of Berlin (Germany), and Dr. Alberto G. Fairén, Centro de Astrobiología (Madrid, Spain) and Cornell University (Ithaca, N.Y.), are serving as guest editors for this issue.

**Submission deadline:** 15 October 2019

For further reading, please follow the link to the special issue website: [https://www.mdpi.com/si/life/Planetary\\_Exploration](https://www.mdpi.com/si/life/Planetary_Exploration).

For further details on the submission process, please see the instructions for authors at the journal website: <http://www.mdpi.com/journal/life/instructions>.

### 3. 2019 NASA Planetary Science Summer Seminar

Applications for the 2019 NASA Planetary Science Summer Seminar are now open.

NASA is accepting applications—from science and engineering postdocs, recent Ph.D.s, doctoral students, junior faculty, and engineering students within 6–9 months of completion of their master's degree but not planning to pursue a Ph.D. degree—for its 31st Annual Planetary Science Summer Seminar (PSSS). PSSS is a 12-week-long career development experience from 20 May to 9 August 2019, with an on-site culminating week, 5–9 August, at the Jet Propulsion Laboratory (JPL) in Pasadena, Calif.

During the 11 weeks of virtual webinar sessions and the on-site culminating week at JPL, student teams will carry out the equivalent of an early mission concept study, prepare a proposal authorization presentation, present it to a review board, and receive feedback. By the end of the experience, students will have a clearer understanding of the life cycle of a space mission; relationships between mission design, cost, and schedule; and the trade-offs necessary to stay within cost and schedule while preserving the quality of science.

Applications are due 1 April 2019. Partial financial support is available for a limited number of individuals. Further information is available at <http://psss.jpl.nasa.gov>.

**Application deadline:** 1 April 2019

### 4. Titan After Cassini–Huygens

**Location:** European Space Astronomy Centre, Madrid, Spain

**Date:** 23–25 September 2019

**Website:** <https://www.cosmos.esa.int/web/titan-after-cassini-huygens/home>

**Participants:** Open to all

This is to announce the "Titan After Cassini–Huygens" 3-day workshop to be held at the European Space Agency's European Space Astronomy Centre near Madrid on **23–25 September 2019**.

This workshop will occur 2 years after the end of Cassini's wonderful mission, and its central theme will be a holistic view of Titan as a system. During the workshop, we will discuss the exciting results from the Huygens probe and from the Cassini orbiter during its 13-year journey in the Saturnian system. The mission returned a wealth of scientific data that have revolutionized our understanding of Saturn's largest moon, Titan. Major topics of the workshop will include the top scientific findings on

the surface, interior, and atmosphere, and their processes and interactions. The aim is to cover a combination of past and new science focusing on the fields and studies of magnetospheric and atmospheric science, geology, geophysics, astrobiology, Earth-based observations, future missions, and more.

We believe that the timing is perfect for another European workshop to get an updated global vision of Titan, and we encourage you all to participate.

**Abstract submission and registration deadline:** 31 May 2019

**Social event registration:** TBD

We look forward to seeing you all in Madrid!

The organizing committee:

Anezina Solomonidou (local)

Nicolas Altobelli (local)

Thomas Cornet (local)

Japheth Yates (local)

Rosaly Lopes (JPL)

Athena Coustenis (Observatoire de Paris)

Conor Nixon (NASA Goddard Space Flight Center)

Alice Le Gall (Laboratoire Atmosphères, Milieux, Observations Spatiales)

Steve Vance (JPL)

## **5. Pluto System After New Horizons Conference—Call for Abstracts**

The "Pluto System After New Horizons" (PSANH) conference will provide an opportunity to summarize our understanding of the Pluto system and the Kuiper belt following the New Horizons encounters with Pluto and 2014 MU69 (Ultima Thule). Contributions spanning all relevant research on the Kuiper belt, including both observations and theory, are being solicited.

The conference will take place 14–18 July 2019 at the Johns Hopkins University Applied Physics Laboratory in Laurel, Md. Abstracts can now be submitted at the PSANH website:

<https://www.hou.usra.edu/meetings/plutosystem2019/>

**Abstract deadline** is 2 May 2019 at 5:00 p.m. central daylight savings time (GMT–5).

Registration is now open and available at the website.

## 6. 10th Planetary Crater Consortium Meeting

**Location:** U.S. Geological Survey, Flagstaff, Ariz.

**Date:** 7–9 August 2019

The 10th Planetary Crater Consortium Meeting will be held 7–9 August 2019 at the U.S. Geological Survey in Flagstaff, Ariz. The Planetary Crater Consortium is open to all planetary scientists interested in any aspect of impact cratering on solar system bodies (including Earth!) incorporating observational, theoretical, experimental, field, and/or numerical studies. The meeting is a combination of contributed talks, posters, and open discussion and is designed to encourage and provide adequate time for in-depth discussion of crater-related issues and topics to enhance research collaborations. Abstract deadline is Monday, 24 June 2019. An optional field trip around the rim of Meteor crater will be arranged for Saturday, 10 August 2019, if there is sufficient interest.

**Contact:** Nadine G. Barlow, [nadine.barlow@nau.edu](mailto:nadine.barlow@nau.edu)

## 7. Joint JGR special issue, "Studies of the 2018/Mars Year 34 Planet-Encircling Dust Storm" Submission deadline: 1 June 2019

The joint *JGR* special issue "Studies of the 2018/Mars Year 34 Planet-Encircling Dust Storm" is accepting submissions until 1 June 2019. Papers pertaining to observations and atmospheric modeling of this particular storm, its influence on the atmosphere and surface of Mars, and the physics of Martian dust storms are encouraged. Submissions are sought from mission and instrument teams and the broader scientific community. The editor is Scott Guzewich. Papers can be submitted through the *GRL*, *JGR: Planets*, or *JGR: Space Physics* submission websites shown below:

[https://grl-submit.agu.org/cgi-bin/main.plex?form\\_type=home](https://grl-submit.agu.org/cgi-bin/main.plex?form_type=home)

[https://jgr-planets-submit.agu.org/cgi-bin/main.plex?form\\_type=home](https://jgr-planets-submit.agu.org/cgi-bin/main.plex?form_type=home)

[https://jgr-spacephysics-submit.agu.org/cgi-bin/main.plex?form\\_type=home](https://jgr-spacephysics-submit.agu.org/cgi-bin/main.plex?form_type=home)

## 9. The Planetary CubeSats Symposium

**Location:** NASA Goddard Space Flight Center, Greenbelt, Md.

**Date:** 27–28 June 2019

The Planetary CubeSats/SmallSats symposiums are held annually at NASA Goddard Space Flight Center, with the participation of CubeSat scientists and developers. Discussions include current missions, mission concepts, and opportunities for future mission selections. The sessions also include panel discussions about strategic and technical aspects of planetary CubeSats, and an afternoon poster session provides mission proposers the opportunity to meet with vendors and suppliers. Registration is open now at <https://cubesats.gsfc.nasa.gov/symposium.php>.