



Planetary Sciences

April / May 2019 Newsletter

Greetings from Your Planetary Sciences Section Leadership!

Preparations for AGU Fall Meeting 2019 are under way, and the Program Committee will soon meet to review the session proposals. This Fall Meeting is also our Centennial, and we are collecting iconic planetary images (graphics also accepted) that represent progress in planetary science over the past 100 years. Some of the images will be displayed at the Centennial theater screen on a rotating basis with images collected from other sections and potentially on other AGU media.

Please send images with a short title to David Williams at david.williams@asu.edu.

Looking forward to seeing many of you at the Fall Meeting.

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: Planetary Data, Archiving, and Tools, Step-1 proposals: 9 May 2019
- ROSES-2019: Cassini Data Analysis, Step-1 proposals: 16 May 2019
- ROSES-2019: New Frontiers Data Analysis, mandatory notices of intent: 30 May 2019

Upcoming Conferences

- **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.

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. European Planetary Science Congress–Division for Planetary Sciences (EPSC-DPS) Session EXO10/TP11

Advances in Developing Quantitative and Realistic Models of Terrestrial Planet Formation and Their Chemical Compositions

Abstracts are welcome to the EPSC-DPS 2019 session EXO10/TP11 on the formation of terrestrial planets in our solar system and extrasolar planets. The past few years have witnessed great advances in the theories of planet formation and computational simulations of impacts in planetary systems. These advances have played fundamental roles in reshaping models of terrestrial planet formation and have placed them on the path to becoming quantitative (and therefore predictive). They also have paved the way for more realistic extension of these models to other planetary systems. We invite abstracts for oral and poster contributions from all areas related to theoretical, observational, and experimental studies of terrestrial planet formation in our solar system and extrasolar planets.

Session website: <https://meetingorganizer.copernicus.org/EPSC-DPS2019/session/34023>

Nader Haghighipour

Thomas Maindl

Abstract deadline: 8 May 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

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://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

8. 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>.

9. NASA Postdoctoral Fellowship—Application Deadline: 1 July 2019

The NASA Postdoctoral Program (NPP) offers U.S. and international scientists the opportunity to advance their research while contributing to NASA's scientific goals. The NPP supports fundamental science, explores the undiscovered, promotes intellectual growth, and encourages scientific connections.

Selected by a competitive peer review process, NPP Fellows complete 1- to 3-year fellowship appointments that advance NASA's missions in Earth science, heliophysics, planetary science, astrophysics, space bioscience, aeronautics and engineering, human exploration and space operations, and astrobiology.

Current NPP research opportunities in planetary science can be viewed here: [NPP Planetary Science Research Opportunities](#).

Applicants must have a Ph.D. or equivalent degree in hand before beginning the fellowship, but may apply while completing the degree requirements. U.S. citizens, lawful permanent residents, and foreign nationals eligible for J-1 status as a research scholar may apply.

Stipends start at \$60,000 per year, with supplements for high-cost-of-living areas and for certain academic specialties. Financial assistance is available for relocation and health insurance, and \$10,000 per year is provided for professional travel.

Applications are accepted three times each year: 1 March, 1 July, and 1 November.

For further information and to apply, visit <https://npp.usra.edu/>.

Questions: npphelp@usra.edu