

February 2022 Newsletter

Greetings from Your Planetary Sciences Section Leadership!

With the new year comes a new section leadership team, and we thank you all for giving us the opportunity to serve you and the planetary science community. We have a variety of important section activities planned throughout the year, from mentoring of students and early career colleagues, to honoring and recognizing our colleagues, to planning Fall meeting, to engaging with the broader AGU on issues of science education and outreach, diversity, equity and inclusion, and solution-based science.

If you have any ideas for areas that you would like to see the Planetary Sciences Section involved in, please reach out and let us know. We thank you for making AGU the leading Earth and space science professional society in the world!

Michael Mischna, President

Paul Byrne, President-Elect

Jennifer Whitten, Secretary

Emma Dahl, Early Career representative

An Li, Student representative

Rosaly Lopes, Past President

Upcoming Deadlines & Events

Upcoming Deadlines

- ROSES-2021: Rolling Submissions
 - [Several program will transition to No \(Fixed\) Due Dates \(NoDD\):](#)
 - Emerging Worlds (EW)
 - Solar System Workings (SSW)
 - Planetary Data Archiving, Restoration, and Tools (PDART)

- Exobiology (ExoBio)
- Solar System Observations (SSO)
- Planetary Instrument Concepts for the Advancement of Solar System Observations (PICASSO)
- Laboratory Analysis of Returned Samples (LARS)

Upcoming Conferences (all conferences virtual unless otherwise noted)

- **February 12-21, 2022:** I Heart Pluto Festival, Flagstaff, AZ [some events virtual]
- **February 17, 2022:** Lunar Surface Science Workshop – Virtual Session 14
- **February 21-23, 2022:** 25th Microlensing Conference: The Dawn of Astrometric Microlensing, From Cold Exoplanets to Black-Holes [Paris, France]
- **February 21-23, 2022:** PERC International Symposium on Dust and Parent Bodies
- **February 22-23, 2022:** Solar and Space Physics Decadal White Papers Workshop: Solar Ground-Based Projects
- **February 23-25, 2022:** Heliophysics 2050 Workshop: Measurement Techniques and Technologies

Planetary Sciences Announcements/Updates

#1) THANK YOU to our Sponsors!

The Planetary Sciences section wants to thank our 2021 Fall Meeting corporate sponsors, Ball Aerospace and Lockheed Martin, for their generous contributions in support of our section activities. Funds from Ball and Lockheed Martin were directly used to provide assistance to student and early career members for registration and caregiver expenses. We are grateful for their continued support of the Planetary Sciences section, and their investment in our future.



#2) Call for Input: Standards of Evidence for Life Detection

The National Academies' [Committee on Astrobiology and Planetary Sciences \(CAPS\)](#) is conducting a NASA sponsored independent review of the [Network for Life Detection \(NfoLD\) White Paper on Standards of Evidence for Life Detection](#). The committee is seeking input from all stakeholders on issues brought up in the white paper. To submit input to CAPS, please see the [Community Input Form](#).

Submissions can be attributed or anonymous. The deadline to submit input is on **Friday, 18 February 2022**, after which this form will be closed.

#3) AGU Journal of Geophysical Research: Planets Publications, January 2022 Issue

We are going to be highlighting publications from the AGU Journal, JGR: Planets in our newsletters. The link to the December issue can be found [here](#).

1. Estimates on the Frequency of Volcanic Eruptions on Venus, by Paul K. Byrne, Siddharth Krishnamoorthy, <https://doi.org/10.1029/2021JE007040>
2. Radiative Transfer Simulations for the Observed Decrease of Radio Brightness Temperature of Venus With Increasing Decimeter Wavelengths: Possible Existence of a Reflective or Quasi-Conductive Subsurface, by Tinu Antony, C. Suresh Raju, Nithin Mohan, Govind Swarup, Divya Oberoi, K. Krishna Moorthy, <https://doi.org/10.1028/2020JE006582>
3. Solar Rotation Effects in Martian Thermospheric Density as Revealed by Five Years of MAVEN Observations, by Joseph Hughes, Federico Gasperini, Jeffrey M. Forbes, <https://doi.org/10.1028/2021JE007036>
4. Triton Haze Analogs: The Role of Carbon Monoxide in Haze Formation, by Sarah E. Moran, Sarah M. Hörst, Chao He, Michael J. Radke, Joshua A. Sebree, Noam R. Izenberg, Véronique Vuitton, Laurène Flandinet, François-Régis Orthous-Daunay, Cédric Wolters, <https://doi.org/10.1028/2021JE006984>
5. Martian Dust Storms and Gravity Waves: Disentangling Water Transport to the Upper Atmosphere, by Dmitry S. Shaposhnikov, Alexander S. Medvedev, Alexander V. Rodin, Erdal Yiğit, Paul Hartogh, <https://doi.org/10.1028/2021JE007102>
6. Geometry and Segmentation of Cerberus Fossae, Mars: Implications for Marsquake Properties, by C. Perrin, A. Jacob, A. Lucas, R. Myhill, E. Hauber, A. Batov, T. Gudkova, S. Rodriguez, P. Lognonné, J. Stevanović, M. Drilleau, N. Fuji, <https://doi.org/10.1028/2021JE007118>