

## May 2022 Newsletter

### Greetings from Your Planetary Sciences Section Leadership!

This one is short, but sweet. There are many meetings/workshops this month, as well as abstract deadlines. Check out the details below. 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 look forward to hearing from you.

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

- Abstract deadlines:
  - 11 May 2022: Ancient Venus Conference held 25-27 July 2022 in Houston, Texas, and virtually
  - 12 May 2022: Annual meeting of Planetary Geologic Mappers held 22-23 June 2022 in Flagstaff, Arizona, and virtually
  - 18 May 2022: EuroPlanet Science Conference held 18-23 September 2022 in Granada, Spain
- 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)

- 10 May 2022: Lunar Surface Science Workshop – Virtual Session 15: We are going! Artemis Community Updates
- 11-12 May 2022: Apophis T-7 Years: Knowledge Opportunities for the Science of Planetary Defense
- 11-13 May 2022: 35th Nordic Geological Winter Meeting 2022, Reykjavik, Iceland
- 15-20 May 2022: Origins and Exploration: From Stars to Cells (AbSciCon), Atlanta, Georgia, and virtually
- 17-19 May 2022: 2022 Humans to Mars Summit, Washington D.C.
- 17-20 May 2022: 7th International Planetary Dunes Workshop
- 17-21 May 2022: Applications of Statistical Methods and Machine Learning in the Space Sciences
- 22-27 May 2022: Japan Geoscience Union Meeting 2022, Makuhari Messe, Chiba, Japan, and virtually
- 23-24 May 2022: 13th Edition of International Conference on Analytical Chemistry, Barcelona, Spain
- 23-27 May 2022: EGU General Assembly 2022: Vienna, Austria, and virtually
- 24-26 May 2022: European Lunar Symposium
- 30 May - 1 June 2022: Life on Earth and Beyond Summer School, Ven Island, Sweden

# Planetary Sciences Announcements/Updates

## #1) AGU Journal of Geophysical Research: Planets Publications, March 2022 Issue

Journal of Geophysical Research: Planets, Volume 127, Issue 4. Articles starting with (OA) are published with open access:

1. (OA) The Formation of Terraces on Asteroid (101955) Bennu, by O. S. Barnouin, et al. <https://agupubs.onlinelibrary.wiley.com/doi/10.1029/2021JE006927>
2. Carbon Dioxide Ice Glaciers at the South Pole of Mars, by I. B. Smith, et al. <https://agupubs.onlinelibrary.wiley.com/doi/10.1029/2022JE007193>
3. Deviation of Mercury's Spin Axis From an Exact Cassini State Induced by Dissipation, by Ian MacPherson, Mathieu Dumberry <https://agupubs.onlinelibrary.wiley.com/doi/10.1029/2022JE007184>
4. Electrical Resistivity of Fe and Fe-3 wt%P at 5 GPa With Implications for the Moon's Core Conductivity and Dynamo, by Yuan Yin, et al. <https://agupubs.onlinelibrary.wiley.com/doi/10.1029/2021JE007116>
5. Ice Shell Structure of Ganymede and Callisto Based on Impact Crater Morphology, by E. Bjornes, et al. <https://agupubs.onlinelibrary.wiley.com/doi/10.1029/2021JE007028>
6. (OA) Landing Site Selection and Characterization of Tianwen-1 (Zhurong Rover) on Mars, by Bo Wu, et al. <https://agupubs.onlinelibrary.wiley.com/doi/10.1029/2021JE007137>
7. Planetary Aeolian Landforms: An Introduction to the Fifth Planetary Dunes Workshop Special Issue, by S. Silvestro, T. N. Titus <https://agupubs.onlinelibrary.wiley.com/doi/10.1029/2022JE007198>
8. (OA) In Situ and Orbital Stratigraphic Characterization of the InSight Landing Site—A Type Example of a Regolith-Covered Lava Plain on Mars, by N. H. Warner, et al. <https://agupubs.onlinelibrary.wiley.com/doi/10.1029/2022JE007232>
9. Orbital Observations of a Marker Horizon at Gale Crater, by Catherine M. Weitz, et al. <https://agupubs.onlinelibrary.wiley.com/doi/10.1029/2022JE007211>
10. Gardening of the Martian Regolith by Diurnal CO<sub>2</sub> Frost and the Formation of Slope Streaks, by L. Lange, S. Piqueux, C. S. Edwards <https://agupubs.onlinelibrary.wiley.com/doi/10.1029/2021JE006988>
11. Winds From the Visible (513 nm) Images Obtained by the Venus Monitoring Camera Onboard Venus Express, by I. V. Khatuntsev, et al. <https://agupubs.onlinelibrary.wiley.com/doi/10.1029/2021JE007032>
12. (OA) A GCM Study on the 4-Day and 5-Day Waves in the Venus Atmosphere, by Masahiro Takagi, et al. <https://agupubs.onlinelibrary.wiley.com/doi/10.1029/2021JE007164>
13. Ancient Winds, Waves, and Atmosphere in Gale Crater, Mars, Inferred From Sedimentary Structures and Wave Modeling, by D. M. Rubin, et al. <https://agupubs.onlinelibrary.wiley.com/doi/10.1029/2021JE007162>
14. Thermal Properties of Liquid Iron at Conditions of Planetary Cores, by Qing Li, et al. <https://agupubs.onlinelibrary.wiley.com/doi/10.1029/2021JE007015>

15. Differential Ablation of Organic Coatings From Micrometeoroids Simulated in the Laboratory, by Michael DeLuca, et al. <https://agupubs.onlinelibrary.wiley.com/doi/10.1029/2021JE007168>
16. (OA) Volcanic Activity on Venus: How Long Must We Look to Find a Smoking Gun? by Scott D. King <https://agupubs.onlinelibrary.wiley.com/doi/10.1029/2022JE007208>
17. Gravity Waves in Different Atmospheric Layers During Martian Dust Storms, by Zhaopeng Wu, et al. <https://agupubs.onlinelibrary.wiley.com/doi/10.1029/2021JE007170>