# Network FOR Ocean Worlds

# **NOW Newsletter- May 2023**

This newsletter is also accessible via our website oceanworlds.space

#### **Making Waves with NOW**

- This month's new releases: Noah Randolph-Flagg, Phosphate Availability for Life on Ocean Worlds
- Call for future <u>NOW Waves</u>, please submit slide (pptx, jpg, pdf) to: <u>kpietro@whoi.edu</u>

#### **Upcoming NOW Events**

- NOW Retreat August 19-24 Wrigley Marine Science Institute, Catalina Island
  - o Participant application now available (contact NOW for more details & a link to the application)
- Quarterly Lecture Series S3 E4 Exploring Ocean Worlds Through Analogs: Combined approaches to clathrates
  - o June 5<sup>th</sup> 3pm ET/12pm PT
  - o Angela Marusiak-Schools, NASA JPL & Elodie Gloesener, NASA JPL

#### **Other Meetings, Workshops and Activities**

- May 11 & 25 NASA Planetary Science Summer School in Mission Design
- May 15-18 <u>Brines Across the Solar System: Ancient and Future Brines</u>
- May 15-19 Chapman Conference on Hydrothermal Circulation and Seawater Circulation
- May 18-22 AbGradCon Proposal Writing Retreat
- May 22-25 Ab GradCon
- June 13-15 Titan Through Time (late registration until 6/1/2023)
- June 26-20 Moons of the Solar System Summer School
- July 9-14 <u>Goldschmidt 2023 session</u>: "Biosignature Diversity, Preservation, and Detection through Geologic Time"
- July 10-14 International Summer School in Astrobiology
- July 25-27 Uranus Flagship 2023
- July 25-27 CRYO2023 Society for Cryobiology
- July 30-Aug 4 AOGS 2023 including PS09: Geology, Geophysics, and Habitability in Our Solar System
- August TBD Astrobiology Mission Ideation Factory: Indication of Interest
- September 6-8 Scientific Ocean Drilling- NASA synergies workshop
- October 24-26 Origins and Habitability of the Galilean Moons
- February 18-23, 2024 Ocean Science Meeting (session proposals due 5/24/2023)
  - o Sign-up to submit a proposal with NOW colleagues

#### **Recent Publications Relevant to Ocean Worlds**

- <u>Buffo, J.J., et al. 2023</u>. Geometry of Freezing Impacts Ice Composition: Implications for Icy Satellites, JGR Planets, Volume 128, Issue 3, e2022JE007389, <a href="https://doi.org/10.1029/2022JE007389">https://doi.org/10.1029/2022JE007389</a>
- <u>Castillo-Rogez, et al. 2023</u>. Compositions and Interior Structures of the Large Moons of Uranus and Implications for Future Spacecraft Observations, Volume 128, Issue 1, <a href="https://doi.org/10.1029/2022JE007432">https://doi.org/10.1029/2022JE007432</a>
- Howells et al., 2023. An examination of protist diversity in serpentinization-hosted ecosystems of the Samail Ophiolite of Oman. Front. Microbiol., 04 May 2023. Sec Microbiological Chemistry and Geomicrobiology. Volume 14-2023. <a href="https://doi.org/10.3389/fmicb.2023.1139333">https://doi.org/10.3389/fmicb.2023.1139333</a>
- Pankine, A.A., 2023. Numerical simulations of heat exchange and vapor flow in ice fractures on Enceladus, Icarus, Volume 401, 2023, 115584, ISSN 0019-1035, https://doi.org/10.1016/j.icarus.2023.115584.
- Randolph-Flagg, N.G., et al. 2023. Phosphate availability and implications for life on ocean worlds. *Nat Commun* **14**, 2388 (2023). https://doi.org/10.1038/s41467-023-37770-9

## **New Job Postings**

- <u>Life Detection Scientist</u>, NASA GSFC (5/16/2023)
- Mars Sample Receiving Project Measurement Definition Team Indication of Interest (5/31/2023)
- Previously advertised posts archived HERE

# **Proposal Calls**

- NASA Research Initiation Awards Program (5/18/2023)
- NASA Dragonfly Student and Early Career Investigator Program (6/16/2023)
- NASA Postdoctoral Program (7/1/2023)
- Early Career Investigator Program in Earth Science (8/11/2023)

### News, Education, and Outreach

- Planetary ReaCH: 2023 Culturally Inclusive Planetary Engagement Workshops
  - o June 8-10 Tulane University, New Orleans LA
  - o June 22-24 SETI Institute, Mountain View CA
  - o August 17-19 Perez Art Museum, Miami FL
- Astrobiologists Britney Schmidt and Peter David Named to the 2023 TIME 100 List Congrats Britney & Peter!
- Subscribe to the <u>NASA Astrobiology SciComm Guild</u>
- Subscribe to the NASA Astrobiology Mailing List