

Making Waves with NOW

- This month's new releases: Evan Carnahan, [Dynamics of Clathrates in Ocean Worlds](#)
- Call for future [NOW Waves](#), please submit slide (pptx, jpg, pdf) to: kpietro@whoi.edu

NOW Upcoming Events

- June 16th NOW Steering Committee Annual In-person Meeting
- Oct 2022 NOW Ocean World Analogs Workshop, Denver CO

Other Meetings, Workshops and Activities

- June 14-15 [OPAG](#)
- June 21-24 [Planetary Science Informatics and Data Analytics Conference](#)
- June 27-July 2 [European Astronomical Society Annual Meeting](#)
- July 4-9 [Rocky Worlds II](#)
- July 10-15 [Goldschmidt](#)
- July 16-24 [COSPAR](#)
- July 25-30 [Sagan Summer Workshop: Exoplanets Science in the Gaia Era](#)
- August 9 [Neptune/ Triton System Seminar Series: Dr. Naomi Rowe-Gurney](#)
- September 12-16 [Brines Across the Solar System: Ancient Brines](#)

Recent Publications Relevant to Ocean Worlds

- [Carnahan et al. 2022](#). Dynamics of Mixed Clathrate-Ice Shells on Ocean Worlds, GRL, Volume 49, Issue 8, e2021GL097602
- [Siteng Fan et al 2022](#). Seasonal Variations of Chemical Species and Haze in Titan's Upper Atmosphere *Planet. Sci. J.* 3 130
- [Michael DiNicola et al 2022](#). Resurfacing: An Approach to Planetary Protection for Geologically Active Ocean Worlds *Planet. Sci. J.* 3 108
- [Zuzana Cieslarova et al. 2022](#). From Microorganisms to Biosignatures: Subcritical Water Extraction as a Sample Preparation Technique for Future Life Detection Missions, GRL, e2022GL098082
- [Theiling, B.P et al. 2022](#). Science Autonomy for Ocean Worlds Astrobiology: A Perspective, *Astrobiology (accepted)*
- [Buffo et al. 2022](#). The Bioburden and Ionic Composition of Hypersaline Lake Ices: Novel Habitats on Earth and Their Astrobiological Implications, *Astrobiology*, <https://www.liebertpub.com/doi/10.1089/ast.2021.0078>

Career Opportunities

- [Postdoctoral Investigator, Department of AOPE](#), Woods Hole Oceanographic Institution (open until filled)
- [Postdoctoral Position-Astrobiology Studies of Hydrothermal Vents on Earth and Ocean Worlds](#), NASA JPL
- [Assistant Professor of Geochemistry](#), Yale University (9/13/2022)
- [Postdoctoral Fellowship Position in Polar Microbiology](#), McGill University (open until filled)
- [Postdoctoral Position in Exoplanet Geophysics](#), Brown University (open until filled)
- [Postdoctoral Researcher in Planetary Science](#), CU Boulder/ LASP (open until filled)
- [Postdoctoral Opportunity to Investigate Physical and Chemical Effects of Radiation](#), NASA JPL
- [Associate or Full Professor of Geobiology](#), University of Southern California (open until filled)
- [Postdoctoral positions in Fluid-Rock Interactions & Investigation of Deep Subsurface Life](#), Stable Isotope Laboratory, University of Toronto (open until filled)

Proposal Calls

- July 14 [MATISSE 2022 Step 2 Proposals](#)
- August 16 [NSF OCE: Chemical Oceanography](#)
- August 16 [NSF OCE: Physical Oceanography](#)
- August 24 [NSF Research Experiences for Undergraduates](#)
- September 6 [NSF Research Traineeship Program](#)
- November 16 [Interdisciplinary Research in Earth Science](#)

News, Education, and Outreach

- [Happy World Ocean Month!!](#)
- [StarTalk Live! Extraterrestrial Oceans with Neil deGrasse Tyson](#)
- NASA Astrobiology unveils new RCN: '[LIFE: Early Cells to Multicellularity](#)'
- Subscribe to the [NASA Astrobiology Mailing List](#)