

Making Waves with NOW

- This month's new releases:
 - David Dubois: [Investigating Benzene Cloud Formation in Titan's South Polar Vortex](#).
- Call for future [NOW Waves](#), please submit slide (pptx, jpg, pdf) to: kpietro@whoi.edu

NOW Upcoming Events

- February 28th 1pm ET/ 10am PT [NOW Lecture Series](#) Season 2, Episode 4
 - Science Motivations behind OW Exploration, "Sensing the Environment"
 - Dr. Charity Lander, SWRI
 - Dr. Ved Chirayath, NASA Ames
- April 21st NOW Steering Committee "Annual" Meeting

OW Themed AbSciCon Sessions Convened by NOW Colleagues (Abstract Deadline: Jan 19th, 2022)

- [Titan as a Prebiotic Laboratory](#)
- [A New Era for Ocean Worlds Science. Systems-Level Studies to Inform Future Mission and Assess the Possibility and Detectability of Life](#)
- [Deep Dive into the Geophysics of Ocean Worlds](#)
- [Crossing the Threshold: In Situ Instrumentation to Seek Life, its Precursors, and Geophysical Context on Europa and other Ocean Worlds](#)
- [Earth Geysers and Ocean World Plumes: The Challenges of Characterizing a Unique Environment](#)
- [Assessing Ocean Worlds: Challenges and technologies for sub-ice sampling and exploration](#)
- [Preparing for in-situ life-detection and habitability investigations through modeling, laboratory, and field analog experiments](#)
- [Prebiotic/ Abiotic Chemistry in Alternative Solvents](#)
- [In-situ instrumentation and novel analytical techniques towards discovery-based chemical research](#)
- [General principles of life: towards understanding universal biology](#)
- [Life in Deep Subsurface Ice](#)
- [Life at high pressure: the Astrobiology of deep subsurface environments](#)
- [Hydrocarbon Worlds: Titan as an Exoplanet Analogue](#)
- [Resources for and Initiatives within the Early Career Astrobiology Community](#)
- [Chemometric, Chemoinformatic, and Machine Learning Strategies to Characterize Complex Organic and Inorganic Mixtures](#)
- [Prebiotic Chemistry and Early Earth Environments \(PCE3\): Origins, Inventories, and Geologic Settings of the Building Blocks of Life](#)
- [DEIA in Astrobiology—What's Working, What's Not, and What Could Be](#)
- [Geochemistry and Habitability of Alkaline Hydrothermal Vents on Earth and Beyond](#)

Other Meetings, Workshops and Activities

- Feb 6-11 [Winter School on Atmosphere-Ocean-Sea Ice Interaction Processes](#)
- Feb 27-Mar 4 [Ocean Sciences 2022](#)
 - Session [HL18 Ocean Science for Ocean Worlds](#)
- Mar 4 [Seafloor Fluid Sampling \(C-DEBI\)](#)
- Mar 7-12 [Lunar and Planetary Science Conference](#)
- Mar 14-18 [ICAT Ice Core Analysis Techniques PhD school](#)
- Mar 21-25 [Space Science Week](#)
- Mar 21-25/ April 11-15 [NASA Life-Detection Science & Technology Workshop](#)
- April 19-20 [OPAG](#)
- May 15-20 [AbSciCon](#)
- July 16-24 [COSPAR](#)
 - Session [B5.1: Ocean Worlds](#); [B0.1: Comparative Planetology](#)

Recent Publications Relevant to Ocean Worlds

- Rhoden, A.R. and M.E. Walker (2022). The case for an ocean-bearing Mimas from tidal heating analysis. *Icarus* 376, 114872. <https://doi.org/10.1016/j.icarus.2021.114872>
- Styczinski et al. (2022). A perturbation method for evaluating the magnetic field induced from an arbitrary, asymmetric ocean world analytically, *Icarus*, Volume 376, 2022, 114840, ISSN 0019-1035, <https://doi.org/10.1016/j.icarus.2021.114840>.
- Hoehler, T.M. (2022) Implications of H₂/CO₂ disequilibrium for life on Enceladus. *Nat Astron.* <https://doi.org/10.1038/s41550-021-01583-x>

Career Opportunities

- [Senior Staff Scientist](#), Lunar and Planetary Institute
- [Postdoctoral Researcher](#), Laboratory for Agnostic Biosignatures
- [Tenure Track Scientists \(10 Positions\)](#), Woods Hole Oceanographic Institution
- [Associate or Full Professor of Geobiology](#), University of Southern California (open until filled)
- [Postdoc with Rensselaer Astrobiology research and Education Center](#) (open until filled)
- [Department Chair-Earth and Planetary Sciences, University](#) of Texas San Antonio (open until filled)
- [Research Scientist in Marine Geology and Geophysics](#), Columbia LDEO (open until filled)
- [Postdoctoral positions in Fluid-Rock Interactions & Investigation of Deep Subsurface Life](#), Stable Isotope Laboratory, University of Toronto (open until filled)
- [Assistant Professor in Geology, West](#) Texas A&M University (open until filled)
- [Assistant Professor in Sedimentary Processes](#), Boston College (open until filled)

Proposal Calls

- [FINESST](#), Future Investigators in NASA Earth and Space Science Technology (2/11/2022)
- [TWSC](#) Topical Workshops, Symposia, and Conferences (5/13/2022)

News, Education, and Outreach

- New *ExOW* Outreach Video: [Life on an Ocean World: Can We find Life using chemistry?](#)
- [Earth's Oceanography Helps Demystify Jupiter's Flowing Cyclones](#)
- Subscribe to the [NASA Astrobiology Mailing List](#)

