

Making Waves with NOW

- This month's new releases: Alexander Thelen [Surprising Variability in Titan's Upper Atmosphere](#).
- Call for future [NOW Waves](#), please submit slide (pptx, jpg, pdf) to: kpietro@whoi.edu

NOW Upcoming Events

- December 5th Quarterly Lecture Series S3 E2: [Exploring Ocean Worlds Through Analogs: Lab Studies](#)
 - **NOTE CHANGE OF TIME: 2pm ET/ 11am PT**
 - [Xinting Yu](#): "Material Properties of Organic Liquids, Ices, and Hazes on Titan"
 - [Paul V. Johnson](#): "Frozen Brines: Experimental Insights into Europa's Surface Chemistry and Microbial Viability"
 - [JOIN WEBEX MEETING](#) Meeting number: 2762 777 0948; password: xEiruE2vJ37

Other Meetings, Workshops and Activities

- November 21 [Ad Hoc Meeting for the Advisory Committee for Polar Programs series](#)
- November 21 [Origins Seminar Series](#)
- December 1 [PCE3 Seminar Series](#)
- December 2-4 [Life and Space Conference](#)
- December 5-6 [Planetary Science Advisory Committee \(PAC\)](#)
- December 12-17 [AGU Fall Meeting](#)
- January 9-11 [Ices in the Solar System](#)
- April 23-28 EGU [General Assembly, including](#)
 - [Icy Moon Exploration: Bridging the Cryosphere and Icy Moon Communities](#)

Recent Publications Relevant to Ocean Worlds

- [Ashkenazy et al. 2022](#). Non-synchronous rotation on Europa driven by ocean currents. [arXiv:2210.04961](https://arxiv.org/abs/2210.04961) <https://doi.org/10.48550/arXiv.2210.04961>.
- [Chatain et al. 2022](#) Air–Sea Interactions on Titan: Effect of Radiative Transfer on the Lake Evaporation and Atmospheric Circulation *The Planetary Science Journal*, Volume 3, [DOI 10.3847/PSJ/ac8d0b](https://doi.org/10.3847/PSJ/ac8d0b)
- [German et al. 2022](#). Volcanically hosted venting with indications of ultramafic influence at Aurora hydrothermal field on Gakkel Ridge. *Nat. Comms.*, <https://doi.org/10.1038/s41467-022-34014-0>.
- [Kang et al. 2022](#). Ocean dynamics and tracer transport over the south pole geysers of Enceladus, *Monthly Notices of the Royal Astronomical Society*, Volume 517, Issue 3, December 2022, Pages 3485–3494, <https://doi.org/10.1093/mnras/stac2882>
- Lorenz 2022. [Planetary Exploration with Ingenuity and Dragonfly: Rotary-Wing Flight on Mars and Titan](#), Editor Paul Park, *American Institute of Aeronautics & Ast.*
- [Salter et al. 2022](#). Hydrothermal Processing of Microorganisms: Mass Spectral Signals of Degraded Biosignatures for Life Detection on Icy Moons, *ACS Earth and Space Chemistry* 2022 6 (10), 2508-2518, [DOI: 10.1021/acsearthspacechem.2c00213](https://doi.org/10.1021/acsearthspacechem.2c00213)
- [Wolfenbarger et al 2022](#). Brine volume fraction as a habitability metric for Europa's ice shell. *Geophysical Research Letters*, 49, e2022GL100586. <https://doi.org/10.1029/2022GL100586>

New Job Postings

- [Tenure Track Position in Planetary Science](#), CU Boulder (11/28/2022)
- [Postdoctoral Fellow - Magnetospheric Physics](#), JHAPU (11/29/2022)
- [Full-time Summer Positions in Astrophysics, Biochemistry and Genomics](#), Summer Science Program (11/29/2022)
- [Staff Scientist - Upper Atmospheric and Ionospheric Physics](#), JHAPL (11/29/2022)
- [Postdoctoral Positions](#), Lowell Observatory (11/30/2022)
- [ETH AI Center Postdoctoral Fellowships](#) (11/30/2022)
- [ETH AI Center Doctoral Fellowships](#) (11/30/2022)
- [NOMIS Foundation ETH Fellowship Programme](#) (12/10/2022)
- [Vice President for Research, Bigelow Laboratory for Ocean Sciences](#) (1/1/2023)
- [The Office of Polar Programs \(OPP\) offers postdoctoral research fellowships \(PRF\)](#) (2/6/2023)

- *Previously advertised posts archived [HERE](#)*

Proposal Calls

- [Interdisciplinary Research in Earth Science](#) (**now due 11/23/2022**)
- [Planetary Science Early Career Award](#) (**12/8/2022**)
- [Precursor Science Investigations for Europa](#) (Step 1: 11/1/2022; **Step 2: 12/16/2022**)
- [Habitable Worlds](#) (Step 1: 11/8/2022; Step 2: 2/3/2023)

News, Education, and Outreach

- Subscribe to the [NASA Astrobiology Mailing List](#)
- [Live from the Clean Room: Building Europa Clipper](#)
- [Arctic hydrothermal vent site could help in search for extraterrestrial life](#)