

Announcements

Our community grieves the untimely death of Jan Amend, Professor of Earth Sciences and Biological Sciences and Divisional Dean for the Life Sciences at the University of Southern California. Jan's work encompassed many NASA Astrobiology themes, from microbial life in the deepest ocean depths to the possibility of life on Mars.

His family has selected 2 organizations for donations that represent his passion for mentoring students & promoting education equity: [SMASH](#) and [Bright Prospect](#).

Making Waves with NOW

- This month's new release: Dale Winebrenner, [A prospective remote sensing Biosignature for Peptides in Enceladan plume deposits](#).
- Call for future [NOW Waves](#), please submit slide (pptx, jpg, pdf) to: kpietro@whoi.edu

Meetings, Workshops and Activities

- [Europa Clipper Lecture Series sign up](#): biweekly Fridays from 11-12pm PT/ 2-3pm ET
- February 18-23, 2024 [Ocean Sciences Meeting](#)
- February 20 [SMD Inclusion Plan Requirements Town Hall](#)
- February 20 [Nfold Forum](#)
- February 21 [OWWG Technology Roadmap Subgroup Meeting](#)
- Mar 6 US [InterRidge Webinar Series](#), Masako Tominaga, WHOI
- March 11-15 [LPSC](#)
- March 26-28 [Future of US Marine Seafloor and Subseafloor Sampling Capabilities Workshop](#)
- April 2-4 [Integrating Ocean Drilling and NASA Science](#)
 - Feb 16 Abstract submission and travel support application deadline
 - March 1 Registration deadline (in-person)
 - March 29 Registration deadline (virtual)
- April 3 US [InterRidge Webinar Series](#), Brandy Toner, U. Minnesota
- April 14-19 [EGU General Assembly](#)
- May 5-10 [AbSciCon 2024](#)
- May 21-24 [International Astrobiology School](#)
- June 3-6 [Terrestrial Analogues for Solar System studies](#)
 - March 1 Registration & financial support application deadline
 - March 15 Abstract submission deadline
- June 12-13 [Outer Planets Assessment Group \(OPAG\)](#)
- July 7-12 [IEEE International Geoscience and Remote Sensing Symposium](#)
- Nov 13-15 [Exoplanets in our Backyard III](#)

Recent Publications Relevant to Ocean Worlds

- [Glein, C.R., et al., 2024](#). Moderate D/H ratios in methane ice on Eris and Makemake as evidence of hydrothermal or metamorphic processes in their interiors: Geochemical analysis, *Icarus*, 412, 115999.
- [Grundy, W.M., et al., 2024](#). Measurement of D/H and ¹³C/¹²C ratios in methane ice on dwarf planets Eris and Makemake: Evidence for internal activity, *Icarus*, 411, 115923.
- [Lainey, V. et al. 2024](#). A recently formed ocean inside Saturn's moon Mimas. *Nature* **626**, 280–282.
- [Malas, J. et al. 2024](#). Biological functions at high pressure: transcriptome response of *Shewanella oneidensis* MR-1 to hydrostatic pressure relevant to Titan and other icy ocean worlds. *Front. Microbiol. Sec. Extreme Microbiology*, Vol 15.
- [Reinhardt, M., et al. 2024](#). Aspects of the biological carbon cycle in a ca. 3.42-billion-year-old marine ecosystem. *Precambrian Research* 402.

- [Snell, C., & Banfield, D. 2024.](#) Titan's Atmospheric Albedo Asymmetry and Seasonal Variability Observed through the Cassini Imaging Science Subsystem. *The Planetary Science Journal*, 5(1), 12.
doi:10.3847/psj/ad0bec
- [Teske, A. 2024.](#) The Guaymas Basin – A hot spot for hydrothermal generation and anaerobic microbial degradation of hydrocarbons. *International Biodeterioration & Biodegradation*, 186, 105700.
doi:10.1016/j.ibiod.2023.105700
- [Yanez, M.D. et al. 2024.](#) Energy yields for acetylenotrophy on Enceladus and Titan. *Icarus*, None, 115969.
doi:10.1016/j.icarus.2024.115969

New Job Postings

- [Postdoctoral Scholar, Ohio State University](#), 3/1/2024 or until filled
- [Staff Scientist: Planetary Science, Astromaterials Research, Lunar and Planetary Institute](#), 3/3/2024
- [NASA NPP Habitable Worlds](#), 3/1/2024
- [Postdoctoral Fellowships, SETI Institute](#), 3/1/2024
- *Previously advertised posts archived [HERE](#)*

Proposal Calls

- [NASA Postdoctoral Program](#), 3/1/2024
- [NASA SMD Bridge Program Seed Funding](#), 3/29/2024
- [NASA Laboratory Analysis of Returned Samples \(LARS\)](#), 3/29/2024
- [NASA Planetary Data Archiving, Restoration, and Tools \(PDART\)](#), 3/29/2024
- [NASA Planetary Instrument Concepts for the Advancement of Solar System Observations \(PICASSO\)](#), 3/29/2024
- [Explorers Club: Discovery Expeditions Grants](#), 3/31/2024
- [NSF GEO-OCE: Advancing Research in Geosciences Using Legacy Scientific Ocean Drilling Cores](#), 3/31/2024

News, Education, and Outreach

- [Call for Submissions](#): Focus Issue in PSJ - Origins and Habitability of the Galilean Moons, 12/31/2024
- [Join the Cross- AG EDIA Working Group](#)
- [Ocean Worlds Working Group \(OWWG\) Mailing List](#)
- [NASA Astrobiology SciComm Guild](#): Interested in the art of communicating better with the public or your colleagues about astrobiology?
- [NASA Astrobiology Mailing List](#)