

Making Waves with NOW

- Call for *NOW Waves*, <https://oceanworlds.space/makingwaves/> please submit to: kpietro@whoi.edu
 - James Roberts: *Breaking the Ice Shell of Enceladus*
https://oceanworlds.space/wp-content/uploads/sites/22/2020/10/Roberts_Wave_Nov2020.jpg
 - Justin Lawrence: *Science Highlights from the Planetary Habitability and Technology Lab*
https://oceanworlds.space/wp-content/uploads/sites/22/2020/10/Lawrence_Wave_Nov2020.jpg

NOW Steering Committee Meeting (November 30th): Topics Discussed

- Business updates
 - Soliciting feedback for in-person Ocean Worlds 5 meeting, Fall 2021
 - Need volunteers to organize TWISC proposal for *Icy Moons Surface Properties* Workshop
- Lightning talks (David Dubois, Brook Nunn, Marshall Stycinski) please contact speaker for synopsis

NOW Upcoming Events

- Jan 4th Quarterly Lecture Series, Episode 4: "Life on the surface and in the atmospheres," 1pm ET/10amPT
 - Professor Juan Lora (Yale University) "*Understanding Titan's hydrologic cycle and the distribution of methane seas.*"
 - Dr. David J. Smith (NASA Ames) "Microbiological Exploration in Earth's Atmosphere."
- Feb 1st Steering Committee Meeting, 1pm ET/ 10am PT
 - Lightning Talks (Vishaal Singh, Laura Rodriguez, Kris Zacny)

Meetings, Workshops and Activities

- January 19, 2021 Life Detection Knowledge Base Workshop: <https://www.nfold.org/ldf-kbworkshop>
- February 9-11, 2021 OPAG meeting: <https://www.lpi.usra.edu/opag/meetings/OPAG2021Feb/>
- February 10, 2021 Planetary Science Journal Focus Issue: "Ocean Worlds: Motivations for a Multi-Decadal Exploration Program" call for submissions: <https://oceanworlds.space/information-now/>
- February 22-26, 2021 Habitable Worlds 2021: <https://aas.org/meetings/aastcs8/habitable>
- March 15-19, 2021 Lunar and Planetary Science Conference: <http://www.hou.usra.edu/meetings/lpsc2021>

Recent Publications relevant to Ocean Worlds

- Gudipati, M.S., Henderson, B.L. & Bateman, F.B. (2020). Laboratory predictions for the night-side surface ice glow of Europa. *Nat Astron.* <https://doi.org/10.1038/s41550-020-01248-1>
- Steinbrügge, G., Voigt, J. R. C., Wolfenbarger, N. S., Hamilton, C. W., Soderlund, K. M., Young, D. A., et al. (2020). Brine migration and impact induced cryovolcanism on Europa. *Geophysical Research Letters*, <https://doi.org/10.1029/2020GL090797>
- McCoy, K. J., DiNicola, M., Everline, C., Burgoyne, H., Reinholtz, K., Clement, B. (2020). Europa Clipper planetary protection probabilistic risk assessment summary, *Planetary and Space Science*, 105139, ISSN 0032-0633, <https://doi.org/10.1016/j.pss.2020.105139>.
- Chen, S., Tao, C. and German, C.R (2020). Abundance of low-temperature axial venting at the equatorial East Pacific Rise. *Deep Sea Res.*, <https://doi.org/10.1016/j.dsr.2020.103426>.
- Heuer, V.B., Inagaki, F., Morono, Y., et al. (2020). Temperature limits to deep seafloor life in the Nankai Trough subduction zone. *Science*, DOI: [10.1126/science.abd7934](https://doi.org/10.1126/science.abd7934)

Career Opportunities

- The Department of Biological Sciences at Lehigh University invites applications for a tenure-track position at the level of Assistant Professor (deadline 2/1/2021). <https://academicjobsonline.org/ajo/jobs/17733>
- **FLOW: Future Leaders in Ocean Worlds** for early career scientists (students and post-docs) within NOW (e.g., part of a team within NOW). Group activities to include within-group networking and mentorship opportunities with other NOW members. Please sign-up via this Google Form: <https://forms.gle/wgSLQRyXhmWRz5NA8>

Proposal Calls

- Post-COVID Recovery. SMD call for Augmentations and Funded Extensions. Solicitation NNH20ZDA010L (due **1/4/2021** and 3/5/2021)

- 2021 L'Oréal USA For Women in Science program (due **1/29/2021**)
www.loreal.com/en/usa/pages/group/fwis.
- New Frontiers 5 (NF5) Announcement of Opportunity (AO) as Special Notice under Notice ID NNH20ZDA016L <https://newfrontiers.larc.nasa.gov/NF5/>
- COLDTech: Autonomy, Communications, and Radiation-Hard Devices, Solicitation: NNH20ZDA001N-CLDTCH (Step1: 12/01/2020, Step2: **2/19/2020**)
- Future Investigators in NASA Earth and Space Science and Technology, Solicitation: NNH20ZDA001N-FINESST (proposals due **2/4/2021**)

Education and Outreach

- Please submit information for next month's newsletter