

## Making Waves with NOW

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- This month's new releases: Angela Marusiak, [Seismic investigations of quakes originating from Europa's deep interior](#).
- Call for future [NOW Waves](#), please submit slide (pptx, jpg, pdf) to: [kpietro@whoi.edu](mailto:kpietro@whoi.edu)

## NOW Upcoming Events

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- July 18<sup>th</sup> NOW Steering Committee Meeting **CANCELLED**
- Oct 2022 NOW Ocean World Analogs Workshop, Denver CO (*details TBA*)

## Other Meetings, Workshops and Activities

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- July 10-15 [Goldschmidt](#)
- July 16-24 [COSPAR](#)
- July 25-30 [Sagan Summer Workshop: Exoplanets Science in the Gaia Era](#)
- July 26 [Professional Advancemnet Workshop Series: Overcoming Perfectionism workshop](#)
- August 8 [NASA SMD Proposal Writing 3-day Workshop](#)
- August 9 [Neptune/ Triton System Seminar Series: Dr. Naomi Rowe-Gurney](#)
- September 12-16 [Brines Across the Solar System: Ancient Brines](#)
- November 15-17 [OPAG](#)
- January 9-11 [Ices in the Solar System](#)

## Recent Publications Relevant to Ocean Worlds

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- [Chela-Flores, J. 2022](#). Instrumentation for Detecting Sulphur Isotopes as Biosignatures on Europa and Ganymede by Forthcoming Missions. *Universe* 8, no. 7, 357. <https://doi.org/10.3390/universe8070357>.
- [German et al. 2022](#). Ocean system science to inform the exploration of ocean worlds. *Oceanography* <https://doi.org/10.5670/oceanog.2021.411>
- [Hoehler, et al. 2022](#). Leveraging Earth hydrosphere science in the search for life on ocean worlds. *Oceanography*, <https://doi.org/10.5670/oceanog.2021.412>
- [MacKenzie et al. 2022](#). Science objectives for flagship-class mission concepts for the search for evidence of life at Enceladus, *Astrobiology*, 685-712. <http://doi.org/10.1089/ast.2020.2425>
- [Marusiak et al. 2022](#). Seismic detection of euroquakes originating from Europa's silicate interior. *Earth and Space Science*, 9, e2021EA002041. <https://doi.org/10.1029/2021EA002041>.
- [Wolfenbarger et al. 2022](#). Ice Shell Structure and Composition of Ocean Worlds: Insights from Accreted Ice on Earth. *Astrobiology*. <https://doi.org/10.1089/ast.2021.0044>

## Career Opportunities

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- [Planetary Scientist](#), NASA GSFC (7/26/2022)
- [Space Remote Sensing and Data Science Group Leader](#), Los Alamos National Laboratory (7/20/2022)
- [Open Rank Tenure Track Faculty Position in Planetary Science](#), Penn State (app review begins 8/15/20220)
- [Postdoctoral Investigator, Department of AOPE](#), Woods Hole Oceanographic Institution (open until filled)
- [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

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- 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**

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- NASA's Curious Universe, [The Search for Life: Are We Alone?](#)
- Subscribe to the [NASA Astrobiology Mailing List](#)

PS Congratulations to FLOW members Rachel Harris and Laura Rodriguez who have been selected to join the Mars Sample Return team.