NOW Newsletter-September 2020

This newsletter is also accessible via our website oceanworlds.space

NOW Steering Committee Meeting (August 10th): Topics Discussed

- Special Sessions for AbSciCon
- Making Waves with NOW
- NOW Diversity and Inclusivity Working Group

Making Waves with NOW

- *Demonstration of a down-borehole Deep UV instrument for the detection of microbes and organics in the icy crusts of Ocean Worlds*, Malaska et al. oceanworlds.space/information-now/
- *Bad News for the Subsurface Biosphere?* McDermott et al., oceanworlds.space/information-now/
- Call for *Astrobiology Science Nuggets*: https://astrobiology.nasa.gov/research/astrobiology-at-nasa/nuggets/

Upcoming NOW Events

- September 14th NOW Quarterly Lecture Series, 2pm ET/ 11am PT via Webex
  Episode 3: Life in the ice and ice-ocean interface
  Presenters: Dr. Kevin Arrigo, Stanford University and Dr. Michael Malaska, NASA JPL
- October 5th & 6th NOW Annual Steering Committee Meeting [Virtual]
  2-half day sessions with plenary & break-outs dedicated to Research Themes, Network Activities

Meetings, Workshops and Activities

- Continuously Updated: NASA Coronavirus Response Information: Nasapeople.nasa.gov/coronavirus
- Sept 9-11 Astrobiology Australasia Meeting [Virtual]: https://www.aam2020.org/
- Sept 17th 11am PT, *Safe Landing on Uncertain Terrain* [Europa Lander Talk]: https://tinyurl.com/EuropaLanderVirtualSeries1
- Sept 21-Oct 9 Europlanet Science Congress 2020 [Virtual]: https://www.epsc2020.eu/
- May 9-14, 2021, AbSciCon, Atlanta, session proposals due Sept 16th: https://www.agu.org/abscicon

Recent Publications relevant to Ocean Worlds

- Kang, W. and Flierl, G., Spontaneous formation of geysers at only one pole on Enceladus' ice shell. PNAS, https://doi:10.1073/pnas.20016848117
- McDermott, J. M et al., Abiotic redox reactions in hydrothermal mixing zones: Decreased energy availability for the subsurface biosphere, PNAS; https://doi: 10.1073/pnas.2003108117, 2020.
- Shenck, P. et al., A very young age for true polar wander on Europa from related fracturing. Geophys. Res. Lett., https://doi: 10.1029/2020GL088364
- Hay, H. C. F. C., Trinh, A., & Matsuyama, I. (2020). Powering the Galilean satellites with moon-moon tides. *Geophysical Research Letters*, *47*, e2020GL088317, https/:doi.org: 10.1029:2020GL088317
- Space Science Reviews Special Issue: Ocean Worlds
  https://link.springer.com/journal/11214/topicalCollection/AC_ba9d8ac25143ec58923e3ea5a6a081b8/page/1

Career Opportunities

- Senior Research Scientist positions at Bigelow Laboratories
  https://bigelow.freshteam.com/jobs/vWoZiZSrSzM2/senior-research-scientists-bigelow-laboratory
- New Early Career Opportunity to participate in a Mission Science Team Meeting.
  NASA is considering more accessible ways to significantly increase the number of early career scientists exposed to the mission science team experience. Based on feedback from the community, one such method under consideration is inviting senior graduate students and early career scientists to observe mission science team meetings, starting with Europa Clipper, **deadline Sept. 14th**. Letters and questions can be sent to curt.niebur@nasa.gov with the subject line "Science Team Meeting." Full posting at oceanworlds.space/information-now/

Proposal Calls

- NASA Planetary Instrument Concepts for the Advancement of Solar System Observations, Solicitation: NNH20ZDA001N-PICASSO (**Step1: 9/18/2020**, Step2: 11/20/2020)
- NASA Planetary Science and Technology Through Analog Research: Not Solicited this Year

Education and Outreach

- Please submit information for next month's newsletter