

Wednesday, April 26, 2017
SOLAR SYSTEM SITES: ICE AND OCEAN WORLDS:
HABITABILITY OF OCEAN WORLDS I
11:15 a.m. Arizona Ballroom E-G

Chairs: Baptiste Journaux
David Senske

- 11:15 a.m. Pohorille A. * Hoehler T. M.
[What Would Constitute Evidence for Life on Icy Moons](#) [#3253]
We propose two strategies for distinguishing biological and abiotic samples collected in missions to icy moons.
- 11:30 a.m. Schmidt B. E. *
[Biomarker Production and Preservation on Europa: A Geophysical and Oceanographic Perspective](#) [#3715]
The goal of this project is to construct a simple model through which to consider the context for landing and sampling material for a Europa lander.
- 11:45 a.m. Bouquet A. * Glein C. Wyrick D. Waite J. H. Jr.
[Radiolysis of Water in the Cores of Ocean Worlds: A Potential Steady Source of H₂ to Sustain Habitability](#) [#3114]
We look at the potential of long-lived radionuclides in rock to cause the radiolysis of water and produce molecular hydrogen that can help sustain methanogens.
- 12:00 p.m. Cable M. L. * Vu T. H. Maynard-Casely H. E. Hodyss R.
[Titan Organic Co-Crystals: More Common Than We Think?](#) [#3585]
We have discovered two organic co-crystals that may form readily on Titan's surface. Noncovalent interactions like this could be important for non-aqueous life.
- 12:15 p.m. *Lunch*