

Wednesday, April 26, 2017
**SOLAR SYSTEM SITES: ICE AND OCEAN WORLDS:
 HABITABILITY OF OCEAN WORLDS II**
 1:30 p.m. Arizona Ballroom E-G

Chairs: Baptiste Journaux
 David Senske

- 1:30 p.m. Laine P. E. *
[Life on Icy Worlds? Emergence vs. Panspermia](#) [#3015]
 This paper presents pros and cons for the origins of hypothetical life on the icy moons in our solar system.
- 1:45 p.m. Bollengier O. * Journaux B. Brown J. M. Vance S. D.
[The Evolution of Oceans in Large Icy Satellites](#) [#3672]
 Salt chemistry in the hydrospheres of large icy worlds should result in the formation of late deep oceans, inviting to reconsider their habitability potential.
- 2:00 p.m. Vance S. D. * Kedar S. Banerdt W. B. Panning M. P. Pike W. T. Stähler S. C.
[Geophysical Tests for Habitability in Europa and Other Ocean Worlds](#) [#3283]
 We describe computer models that examine the use of geophysical measurements — mainly seismology — to assess the habitability of ocean worlds.
- 2:15 p.m. Barnes R. * Vance S. Driscoll P. Guyer B. Sotin C. Brown J.
[Habitable Ice-Covered Exoplanets](#) [#3418]
 We present models of the structure and evolution of ice-covered, water-rich exoplanets to explore the possible range of subsurface water layers.
- 2:30 p.m. Senske D. A. * Pappalardo R. T. Korth H. Klima R. Vance S. D. Craft K. Europa Science Team
[Science of the Europa Mission, Exploring the Habitability of a Unique Icy World](#) [#3132]
 The goal of the Europa mission is to explore Europa to investigate its habitability. Nine instruments have been selected to address the science objectives.
- 2:45 p.m. Porco C. C. * Dones L. Mitchell C.
[Flying Through the Plume of Enceladus](#) [#3627]
 This work is an attempt to reconcile the differing results for icy particle number density in the plume of Enceladus, reported by different Cassini instruments.
- 3:00 p.m. Sotin C. Hayes A. Malaska M. * McEwen A.
[Oceanus: A New Frontiers Mission Concept to Study Titan's Habitability](#) [#3523]
 Oceanus is a Titan orbiter mission concept that would conduct chemistry, geology, and geophysics investigations to assess Titan's habitability.
- 3:15 p.m. Barnes J. W. * Turtle E. P. Trainer M. Lorenz R. D. Neish C. D. MacKenzie S. M. McKay C.
 Freissinet C. Hand K. P.
[Dragonfly: A New Frontiers Titan Astrobiology Lander](#) [#3735]
 Landing on Titan / Prebiotic chemistry / It's the place to go!
- 3:30 p.m. *Coffee Break*