

Thursday, April 27, 2017
SOLAR SYSTEM SITES: ICE AND OCEAN WORLDS:
HABITABILITY IN SUBSURFACE OCEANS
2:45 p.m. Arizona Ballroom A-C

Chairs: Kristin Johnson
Karyn Rogers

- 2:45 p.m. Christner B. C. * Lavender H. Oliver E. Davis C. Tulaczyk S. Doran P.
[Microbial Activity in the Intergranular Habitat of a Temperate Glacier](#) [#3335]
Microorganisms and associated metabolic activity was documented in the near-subsurface environment in of the Matanuska Glacier, Alaska.
- 3:00 p.m. Journaux B. * Bollengier O. Brown J. M. Vance S. D. Abramson E.
[High-Pressure Water Ice and Salts Thermodynamics: How Can Physical Chemistry Constrain the Habitability of Deep Oceans?](#) [#3599]
High pressure ices thermodynamics in equilibrium with salts differs from the pure H₂O case, implying new constrains on deep oceanic habitats in icy worlds.
- 3:15 p.m. Abramson E. Bollengier O. Brown J. M. *
[Thermodynamics of the C-O-H System at High Pressures](#) [#3727]
Experimental investigations revisit the behavior of the C-O-H system at the HP and LT relevant to the dynamics and habitability of large icy worlds.
- 3:30 p.m. Dunham E. * Desch S. J. Perera V. Schwartz S. R.
[Probing the Internal Structure and Habitability of Icy Worlds Using Haumea](#) [#3486]
We model Haumea, composed of a rocky core surrounded by an icy crust, to constrain the density of its core and the extent of aqueous alteration.
- 3:45 p.m. *Coffee Break*