

Friday, April 28, 2017  
SOLAR SYSTEM SITES: EARTH IN TIME/DEEP BIOSPHERE:  
JOURNEY TO THE CENTRE OF THE EARTH:  
INTRATERRESTRIAL LIFE ON EXTRATERRESTRIAL PLANETS  
10:15 a.m. Arizona Ballroom A-C

**Chairs:** Haley Sapers  
Timothy Magnuson

- 10:15 a.m. Westall F. \* Hickman-Lewis K. Foucher F. Gaboyer F. Cavalazzi B. Campbell K. A. Vago J. L.  
[\*Biosignatures of Chemotrophic Microbial Activity in Mars-Analogue, Subsurface Volcanic Sediments\*](#) [#3137]  
Chemotrophic organisms in the subsurface biosphere leave a variety of fossilized traces. We discuss such traces from early Archaean Mars-analogue sediments.
- 10:30 a.m. Nachon M. \* Sumner D. Watkins J. Stack K. Banham S. Rivera-Hernandez F. Wiens R. C.  
[\*Stratigraphic Distribution of Veins Observed by the Curiosity Rover at Gale Crater, Mars, and Implications for Subsurface Habitability\*](#) [#3667]  
Veins observed by Curiosity rover record a late and specific fluid circulation event. We study their stratigraphic distribution within the martian terrains.
- 10:45 a.m. Mullin S. W. \* Wanger G. Kruger B. R. Sackett J. D. Hamilton-Brehm S. D. Moser D. P.  
Amend J. P. Bhartia R. Orphan V. J.  
[\*In Situ Mineral Incubation Experiments Reveal Patterns in Microbial Colonization Within a Warm Deep Subsurface Carbonate Aquifer\*](#) [#3705]  
In situ incubations of local and lab-standard minerals in a deep carbonate aquifer and corresponding mineralogical and microbial community changes.
- 11:00 a.m. Magnuson T. S. \* Rask J. C. Bywaters K. F. Counsell K. A. Wilson J. A. Puschak C.  
Swenson M. W. Viall D.  
[\*Radioactive Hot Springs as a Model Geomicrobiological System for Exobiology Studies\*](#) [#3598]  
This study focuses on the microbiology of the radioactive, thermoalkaline system of Worswick Hot Springs, Idaho; an ideal system for exobiology studies.