**Monday, April 24, 2017**
**POSTER SESSION II:**
**ORIGIN AND EVOLUTION OF LIFE: PREBIOTIC CHEMISTRY:**
**LIFE WITHOUT LIGHT: NEW DEVELOPMENTS AND PERSPECTIVES IN CHEMOLITHOTROPHIC METABOLISM AND ITS GEOCHEMICAL SIGNATURES**
**8:00 p.m. Main Hall**

Choe Y. H. Kim M. Lee Y. K.
*Comparative Analysis of Microbial Communities Inhabiting Two Different Rocks in High Arctic: Martian Analogue Studies* **[#3224]**
In this study, we examined the diversity of rock-inhabiting microbes that colonize sandstone and limestone in Svalbard.

McKay L. J. Hatzenpichler R. Fields M. W. Inskeep W. P.
*Methane Cycling by Novel Archaea in Yellowstone National Park Hot Springs* **[#3347]**
The genetic potential for methane-cycling is widespread across archaeal phyla living in a hot spring environment rich in carbon dioxide, hydrogen, and methane.

Momper L. M. Magnabosco C. M. Amend J. P. Fournier G. P.
*Genomic Evidence of Chemotrophic Metabolisms in Deep-Dwelling Chloroflexi Conferred by Ancient Horizontal Gene Transfer Events* **[#3375]**
Genomic evidence of chemotrophic nitrogen and sulfur metabolisms in deep-dwelling Chloroflexi conferred by ancient horizontal gene transfer events.

Podowski J. C. Anderson M. R. Paver S. F. Coleman M. L.
*Elusive Freshwater Chemolithotrophs: Metagenome Assembled Genomes (MAGs) Provide Insight into Archaeal and Bacterial Nitrifiers from the Laurentian Great Lakes* **[#3704]**
Using metagenome assembled genomes (MAGs) collected from the Laurentian Great Lakes, metabolism and physiology are investigated for uncultured chemolithotrophs.