

**Thursday, March 26, 2009**  
**MARS ANALOGS I: GEOLOGICAL**  
**1:30 p.m. Waterway Ballroom 4**

**Chair: R. Aileen Yingst**

- 1:30 p.m. Clarke J. D. A. \* Bourke M. C.  
[\*Recognition Criteria of Spring Deposits on Mars at all Scales: Evidence from the Dalhousie Springs Analog \(Australia\) \[#1102\]\*](#)  
Spring deposits at Dalhousie have a suite of distinctive characteristics at all scales that allows their recognition. These characteristics are found in many terrestrial spring deposits. These may assist in the recognition of such deposits on Mars.
- 1:45 p.m. Yingst R. A. \* Kuhlman K. R.  
[\*Microscale Characteristics of Particles Deposited by the 1996 Skeiðarársandur Jökulhlaup: A Potential Terrestrial Analog to Mars \[#1326\]\*](#)  
As part of our effort to characterize and create a database of important martian analogs at the microscale, we here report on the characteristics of particles deposited by the 1996 Skeiðarársandur jökulhlaup.
- 2:00 p.m. Zimbelman J. R. \* Garry W. B. Irwin R. P. III  
[\*Precision Topography of Pluvial Features in Western Nevada as Analogs for Possible Pluvial Landforms on Mars \[#1370\]\*](#)  
Ten DGPS topographic surveys from Surprise Valley, on the Nevada-California border, provide insights into the precision required to identify and correlate pluvial features.
- 2:15 p.m. Wang A. \* Zheng M. P.  
[\*Evaporative Salts from Saline Lakes on Tibetan Plateau: An Analog for Salts on Mars \[#1858\]\*](#)  
We report the initial results from a field campaign to a sulfate-dominated lacustrine system on the Tibetan Plateau. Results from *in situ* and laboratory measurements of the collected salt samples will be presented.
- 2:30 p.m. Ulrich M. \* Morgenstern A. Guenther F. Roessler S.  
[\*Investigation of Thermokarst Features in NE Siberia as Possible Terrestrial Analogues of Martian Scalloped Depressions \[#1076\]\*](#)  
We investigate permafrost degradation in ice-rich, fine-grained deposits in NE Siberia as terrestrial analogues for martian degraded volatile-rich mantle deposits focusing on the influence of solar insolation on thermokarst morphology.
- 2:45 p.m. Xiang S. M. \* Huang D. H.  
[\*Analogue Research in China's Lunar Exploration \[#1458\]\*](#)  
We conduct analogue research on the northwestern China stony desert pavements, which appear to have similar surface material as the Moon and Mars, tremendous temperature cycling, and are almost lifeless.