

Tuesday, March 19, 2013

[T646]

**POSTER SESSION: INTO THE FIELD WITH THE LABORATORY:
ANALOG TESTS OF LABORATORY TECHNIQUES
6:00 p.m. Town Center Exhibit Area**

Bramble M. S. Flemming R. L. Hutter J. L.

POSTER LOCATION #697

[*A Temperature-Controlled Sample Stage for Micro-X-Ray Diffraction of Mirabilite-Containing Samples from Wolf Spring, Axel Heiberg Island, Nunavut, Canada*](#) [#1729]

A temperature-controlled sample stage was created for a micro-X-ray diffractometer to analyse samples from an Arctic saline spring at an in situ temperature.

Lalla E. Lopez-Reyes G. Rull F. Martinez-Frías J. Sansano A. et al.

POSTER LOCATION #698

[*Raman Analysis of Basaltic Samples from Tenerife Island \(Cañadas, Azulejos, and Historical Eruptions\) with the Exomars RLS Instrument*](#) [#2403]

Analysis of selected samples from Tenerife, where it has been compared with result obtained by the ExomarsRLS Simulator and conventional laboratory MicroRaman-XRD.

Catalá-Espí A. Lefebvre C. Sobrón P. Léveillé R. Koujelev A. et al.

POSTER LOCATION #699

[*3D Chemical Mapping Using LIBS: Implications for Geochemical Investigations on Mars*](#) [#2726]

In this paper, we show a geochemical investigation of a natural coated basalt that demonstrates the capability of LIBS to produce 3-D chemical maps of targets.

Winebrenner D. P. Elam W. T. Miller V. Carpenter M.

POSTER LOCATION #700

[*A Thermal Ice-Melt Probe for Exploration of Earth-Analogs to Mars, Europa and Enceladus*](#) [#2986]

We describe a thermal melt-probe for inexpensive access to terrestrial subglacial analogs for Mars, Europa, Enceladus, and prospectively other locations.