Thursday, August 11, 2016
POSTER SESSION: CHARACTERIZATION OF MARS AND MARS ANALOGS
5:30 p.m. Poster Area

Bedford C. C.  Bridges J. C.  Schwenger S. P.  Cousin A.  Wiens R. C.
Compositional End Members in Gale Crater, Mars [#6097]
We suggest potential sources for the four geochemical end members identified in Gale Crater sediments analysed by the Curiosity Rover’s ChemCam instrument suite.

Wulf G.  Hergarten S.  Kenkmann T.
Using Crater Size Frequency Distributions to Reconstruct the Geological History of Cratered Planetary Surfaces: A Case Study on Mars [#6423]
We present a new approach to reconstruct erosion rates and the geological history of cratered planetary surfaces using crater size frequency distributions and a new software tool.

Caudill C. M.  Sapers H. M.  Osinski G. R.  Tornabene L. L.  Chauvin S.
Mineralogical and Geochemical Study of Ries Ejecta Deposits as a Martian Analogue for Impact Melt Modification [#6481]
Here, we report on an in-depth mineralogical and geochemical study of low temperature-altered deposits of the Ries impact ejecta, relating them to Martian crater-related pitted material.

Pantazidis A.  Baziotis I.  Manoutsoglou E.  Solomonidou A.  Schwender F.  Palles D.  Kamitsos E.  Koukouzas N.  Keklikoglou N.  Arvanitidis C.  Martinez-Frias J.  Asimow P. D.
Basalts from Santorini Volcano: A New Candidate Martian Analogue [#6283]
We compared volcanic rocks from Santorini Volcano and ISAR basalts from Iceland, South Africa and Norway, which are considered as strong candidates for Martian analogues. We conclude that Santorini expands the list of terrestrial Mars-like sites.

Morlok A.  Klemme S.  Weber I.  Stojic A. N.  Sohn M.  Hiesinger H.  Helbert J.
FTIR Reflectance and Raman Study of Synthetic Glasses: Applications to Remote Sensing Observations of the Surface of Mercury [#6315]
We present mid-infrared and Raman spectra of synthetic glasses based on the chemical composition of surface regions of Mercury as part of the ESA/JAXA BepiColombo mission to Mercury.

Combined Raman-LIBS Studies on Iron Sulfides to Investigate the Effect of the LIBS Plasma on the Mineral Composition [#6353]
Iron sulfides, analyzed under martian conditions, show alteration caused by LIBS. This means that, during robotic planetary exploration by combined LIBS-Raman, effects must be taken into account with the interpretation of post-LIBS Raman data.

Laser-Induced Alteration in Raman Spectroscopy on Iron Sulfides in Various Environmental Conditions [#6260]
We investigated the effect of Raman laser irradiation on iron sulfides under ambient air, in vacuum, and in CO2 atmosphere at different temperatures and various laser power values.